

# Great Lakes Marsh Monitoring Program

## Bird Form Example

Oct 2017

By Kathy Jones



# The Route/Contact Form



# Marsh Monitoring Program Contact and Route Information

Please complete and return original but keep a photocopy for your own reference.



Route #

Observer #

Observer Name

Year

Corrections

## Section A: Contact Information

Is the contact information above correct?

Yes  No

If No, please provide the correct information in the "Corrections" box to the right

Did you enter your data online?

Yes  No

Do you plan to survey this route next year?

Yes  No  Unsure

If you answered no or unsure please tell us why:

Have you changed the position of any stations on your route?

Yes  No

If yes, please specify:

## Section B: Route Information

Is the route information on the label above correct?

Yes  No

If the route information is incorrect and/or missing please fill in the following information:

Route/Marsh Name:

Closest town to route:

County:

Province/State:

## Additional Wetland Information

Does the surveyed marsh(es) for this route occur on  Private Land  Public Land  Mixed Ownership Land

Does your route contain any station in the interior of the wetland (i.e. >100 m from the perimeter)

Section C: Station Information please see page 2



Page 1

From time to time, BSC may send you information regarding our programs, special issues, membership, and other correspondence. If you would prefer not to receive this information, please contact us by mail or e-mail [rkirton@bsc-eoc.org](mailto:rkirton@bsc-eoc.org). Thank you.

0818584127

**Section A: needs to be completed and returned annually**

**Sections B and C: only need to be completed for new routes or when you change your stations**

# Marsh Monitoring Program Contact Sheet and Route Information

## Section C: Station Information

This section only needs to be completed for new routes, if you have changed the route, or if the volunteer coordinated has requested updated information. Station information is used to accurately map your route, ideally to within a few meters (yards). Accurate maps allow us to: work with geo-referenced data sets, share the information with other scientists and ensures future participants can find exactly where to survey.

The best way to find coordinates is in the field using a GPS unit or a GPS app on your smartphone. Alternatively, you can provide coordinates from a mapping program or provide a map that clearly shows each station's locations.

Here are a few tips:

- We prefer latitude/longitude in the decimal degrees format (e.g. 45.603 -125.2323).
- Beware, many GPS units default to degrees decimal minutes (dd mm.mm, e.g. 45 37.435 -125 13.80). The conversion formula is degrees + (decimal minutes/60) or as an example: 45 + (37.435/60) = 45.603 decimal degrees. Head's up! For longitude, add the "-" for the western hemisphere after you do the math.
- To learn how to find coordinates online the 1 minute youtube video "finding latitude and longitude using the google.avi" ([www.youtube.com/watch?v=krWf2ZVw6\\_M](http://www.youtube.com/watch?v=krWf2ZVw6_M)) is really helpful.
- Google maps ([www.googlemap.com](http://www.googlemap.com)) readily converts degrees minutes seconds (dd mm ss) & degree decimal minutes (dd mm.mm) to decimal degrees (dd.dddd). Just enter the value into the search bar (e.g. 45 37 26 - 125 13 00), click search, and the appropriate value will appear.
- If you provide a map, choose one with enough detail that a stranger who has never been to the location can find your stations.

Focal Point Information (for the spot at each station where you stand to survey)				
Station ID (a - h)	Survey Direction	Coordinates: Latitude, Longitude (preferred)	Any useful identifying features	Ownership (Private, Public, Mixed)
Examples				
B	West	45.12563, -95.1245	Culvert at mile marker 456	Private
d	160°	49.15243, -84.152364	At wood duck box just north of the bridge on beaver marsh trail	Public

Additional Comments:

**C: only need to be completed for new routes or when you change your stations or when you have been asked to provide new station information**

# The Bird Survey Form







# Marsh Monitoring Program - Bird Survey Form

Route # Station (A-H) Observer # Observer Name

M1005 [A] 18266 Smith

\*Please print with BLOCK CAPITALS and mark each individual choice by filling in the corresponding circle.

Did you enter these data online?  Yes  No

Has the habitat on your route changed from previous years?  Yes  No  N/A

Visit1 Day 25 Month 5 Year 2008 Station Start Time (24hr) 1800

Visit2 Cloud Cover (10ths) 5 Temperature 18.8 °C Beaufort Wind Scale (0-6) 1

Precipitation  None/Dry  Damp/Haze/Fog  Drizzle  Rain Background Noise Code (0-4) 1



**FOCAL SPECIES** American Bittern (AMBI) Black Rail (BLRA) King Rail (KIRA) Pied-billed Grebe (PBGR) Virginia Rail (VIRA)  
American Coot (AMCO) Common Moorhen (COMO) Least Bittern (LEBI) Sora (SORA) Yellow Rail (YERA)

Species code	Responded During (please fill choice circle)										Direction	Within 100 m	Detected at Previous Point	Comments		
	Before/After Survey Period	Pass min. 0-1	Pass min. 1-2	Pass min. 2-3	Pass min. 3-4	Pass min. 4-5	LEBI min. 5-6	SORA min. 6-7	VIRA min. 7-8	MOOT min. 8-9					PBGR min. 9-10	Pass min. 10-15
★ LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	couple hiking
★ LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
★ PBGR	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
★ AMBI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
★ VIRA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
★ AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	pair with 5 yng
★ AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SACR calls in distance after survey

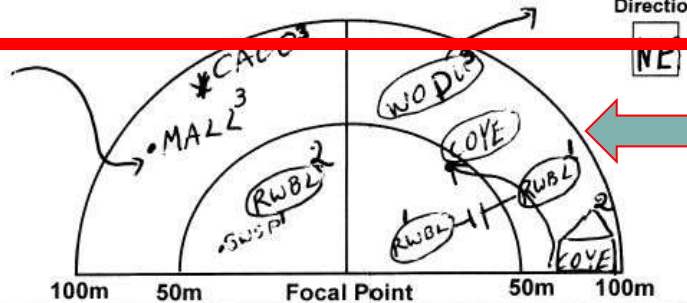
**SECONDARY SPECIES**

Species min0-5 min5-10 min10-15

TRES	1	111	1111111
BANS			1

Outside/Fly-Throughs List

BLTE	
MAZZ	



**Secondary Species Summary**

Species Code	# Observed*				Species Code	# Observed*				Species Code	# Observed*			
	min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**
RWBL	2	1			BLTE				<input checked="" type="radio"/>					
SWSP	1													
TRES	1	3	1	0										
MAZZ			1											
CAG			1											
WODU			1											
BANS			1											

\*#Observed = The number of individuals mapped and/or actively foraging within the sample area.  
\*\*O/F = Outside/flythroughs (Species recorded outside the sample area or flying through the sample area without landing.)

## THE FOCAL SPECIES TABLE

- Focal species are listed just above the focal species form
- You record ALL focal species heard “in front of you” – not behind.
- Each individual bird gets its own line – that means a pair gets two lines.
- You do not include young of the year.
- You can choose to include focal species of the map or leave them off (I leave them off).
- Focal species are not included in the Secondary Species Summary table at the bottom of the form.

# Non-focal bird species are important too!

Mapped Observations →  
(physically within station)



← Aerial Foragers  
(actively foraging above station)

Fly-Throughs →  
(flying above station)





# 2532441539 Marsh Monitoring Program - Bird Survey Form

Route # Station (A-H) Observer # Observer Name

M1005 A 18266 Smith

\*Please print with BLOCK CAPITALS and mark each individual choice by filling in the corresponding circle.

Did you enter these data online?  Yes  No

Has the habitat on your route changed from previous years?  Yes  No  N/A

Visit1 Day 25 Month 5 Year 2008 Station Start Time (24hr) 1800

Cloud Cover (10ths) 5 Temperature 18.0 °C Beaufort Wind Scale (0-6) 1

Precipitation  None/Dry  Damp/Haze/Fog  Drizzle  Rain Background Noise Code (0-4) 1



FOCAL SPECIES American Bittern (AMBI) Black Rail (BLRA) King Rail (KIRA) Pied-billed Grebe (PBGR) Virginia Rail (VIRA)  
American Coot (AMCO) Common Moorhen (COMO) Least Bittern (LEBI) Sora (SORA) Yellow Rail (YERA)

Species code	Responded During: (please fill choice circle)										Direction	Within 100 m	Detected at Previous Point	Comments				
	Behavioral Survey Period	Pass min. 0-1	Pass min. 1-2	Pass min. 2-3	Pass min. 3-4	Pass min. 4-5	Pass min. 5-6	Pass min. 6-7	Pass min. 7-8	Pass min. 8-9					Pass min. 9-10	Pass min. 10-15		
LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	couple hiking
LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
PBGR	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMBI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
VIRA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	pair with 5
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SACR calls
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	distance after survey

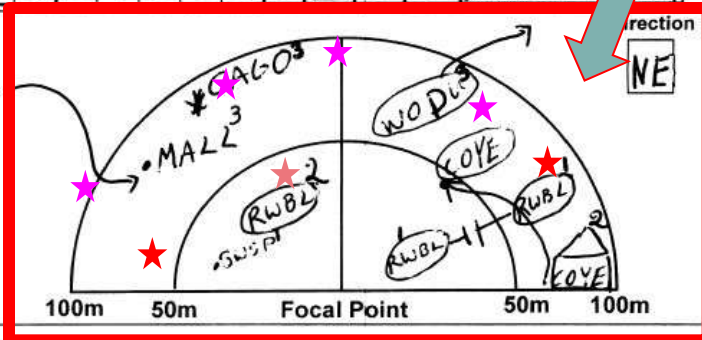
## SECONDARY SPECIES

### Aerial Foragers Tally

Species	min0-5	min5-10	min10-15
TRES	1	III	IIII
BANS			I

### Outside/Fly-Throughs List

BLTE
MAZZ



### Secondary Species Summary

Species Code	# Observed*				Species Code	# Observed*				Species Code	# Observed*			
	min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**
RWBL	2	1		<input type="radio"/>	BLTE				<input checked="" type="radio"/>				<input type="radio"/>	
SWSP	1			<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
TRES	1	3	1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
MALL			1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
CAGOS			1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
WODU			1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
BANS			1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	

\*#Observed = The number of individuals mapped and/or actively foraging within the sample area.

\*\*O/F = Outside/flythroughs (Species recorded outside the sample area or flying through the sample area without landing.)

## MAPPING SECONDARY SPECIES

- The map is the “meat and potatoes” of the secondary species portion of the form
- ANY bird seen/heard on the water or the vegetation within the 100m station area should be mapped here.
- You need to be able to tell which minute period each bird is first seen/heard in: 1 (min 0-5), 2 (min 5-10) or 3 (min 10-15).
- And you need to be able to count the number of birds.
- Only record adults.
- If you record more than one bird identify the time period and the number of individuals e.g. SWSP<sub>2</sub>X5 (5 swamp sparrows first observed in time period 2).

# Marsh Monitoring Program - Bird Survey Form

Route # Station (A-H) Observer # Observer Name

M.1.0.0.5 | A | 1.8.2.6.6 | Smith

\*Please print with BLOCK CAPITALS and mark each individual choice by filling in the corresponding circle.

Did you enter these data online?  Yes  No

Has the habitat on your route changed from previous years?  Yes  No  N/A

Visit1 Day 25 Month 5 Year 2008 Station Start Time (24hr) 1800

Cloud Cover (10ths) 5 Temperature 18.0 °C Beaufort Wind Scale (0-6) 1

Precipitation  None/Dry  Damp/Haze/Fog  Drizzle  Rain Background Noise Code (0-4) 1



FOCAL SPECIES American Bittern (AMBI) Black Rail (BLRA) King Rail (KIRA) Pied-billed Grebe (PBGR) Virginia Rail (VIRA)  
American Coot (AMCO) Common Moorhen (COMO) Least Bittern (LEBI) Sora (SORA)

Species code	Responded During: (please fill choice circle)										Direction	Within 100 m	Detected at Previous Point	Comment			
	Before/After Survey Period	Pass min. 0-1	Pass min. 1-2	Pass min. 2-3	Pass min. 3-4	Pass min. 4-5	LEBI min. 5-6	SORA min. 6-7	VIRA min. 7-8	MOOR min. 8-9					PBGR min. 9-10	Pass min. 10-15	
LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	couple hiking
LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
PBGR	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMBI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
VIRA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	pair with 5 yng
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SACR calls in distance after survey

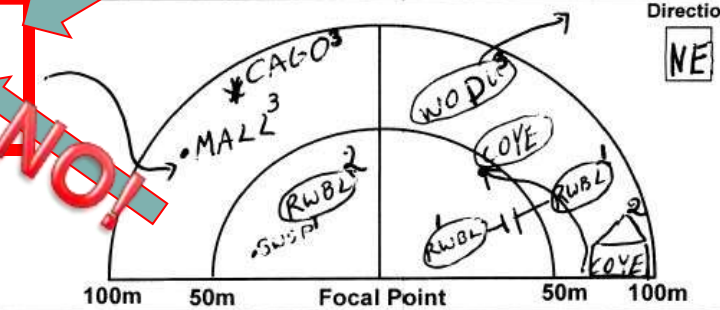
## SECONDARY SPECIES

### Aerial Foragers Tally

Species	min0-5	min5-10	min10-15
TRES	1	III	IIII
BAN'S			I

### Outside/Fly-Throughs List

BLTE
MALL



### Secondary Species Summary

Species Code	# Observed*				Species Code	# Observed*				Species Code	# Observed*			
	min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**
R.W.B.L.	2	1			BLTE									
S.W.S.P.	1													
TRES	1	3	1	0										
MALL			1											
C.A.G.O.			1											
W.O.D.U.			1											
B.A.N'S			1											

\* #Observed = The number of individuals mapped and/or actively foraging within the sample area.  
\*\*O/F = Outside/flythroughs (Species recorded outside the sample area or flying through the sample area without landing.)

## THE AERIAL FORAGER TABLE

- Only use this table to record aerial forager.
- These are birds that are hunting/eating/foraging on the wing – like swallows, flycatchers, belted kingfishers, terns, perhaps harriers or eagles.
- Aerial foragers are in decline so it is important to track them correctly
- Do not use this table to tally the other species heard or seen on the station. These should be included on the map.



2532441539

## Marsh Monitoring Program - Bird Survey Form

Route # Station (A-H) Observer # Observer Name

M1005 A 18266 Smith

\*Please print with BLOCK CAPITALS and mark each individual choice by filling in the corresponding circle.



Visit1 Day 25 Month 5 Year 2008 Station Start Time (24hr) 1800  
 Visit2 Cloud Cover (10ths) 5 Temperature 18.0 °C Beaufort Wind Scale (0-6) 1  
 Precipitation  None/Dry  Damp/Haze/Fog  Drizzle  Rain Background Noise Code (0-4) 1

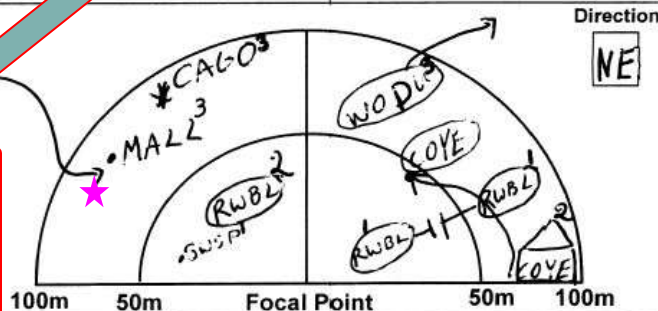
Species code	Responded During: (please fill choice circle)										Direction	Within 100 m	Detected at Previous Point	Comments				
	Before/After Survey Period	Pass min. 0-1	Pass min. 1-2	Pass min. 2-3	Pass min. 3-4	Pass min. 4-5	LEBI min. 5-6	SORA min. 6-7	VIRA min. 7-8	MOOT min. 8-9					PBGR min. 9-10	Pass min. 10-15		
LEBI	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	couple hiking
PBGR	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMBI	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
VIRA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	pair with 5 yng
AMCO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	SACR calls in distance after survey

## SECONDARY SPECIES

## Aerial Foragers Tally

Species	min0-5	min5-10	min10-15	min15-20
TRES	1	1	1	1
BAWS				

## Outside/Fly-Throughs List

BLTE  
MAZZ

## Secondary Species Summary

Species Code	# Observed*				Species Code	# Observed*				Species Code	# Observed*			
	min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**
RWBL	2	1		<input type="radio"/>	BLTE				<input checked="" type="radio"/>				<input type="radio"/>	
SWSP	1			<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
TRES	1	3	1	<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
MAZZ				<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
CAG0				<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
WODU				<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	
BAWS				<input type="radio"/>					<input type="radio"/>				<input type="radio"/>	

\*#Observed = The number of individuals mapped and/or actively foraging within the sample area.

\*\*O/F = Outside/flythroughs (Species recorded outside the sample area or flying through the sample area without landing.)

## OUTSIDE/FLY-THROUGH LIST:

• The outside/fly-through list provides the opportunity to record the presence of species not using the “station”.

• Don't worry about counting these.

• Just list any species you see just outside the station (good examples are forest birds such as finches or woodpeckers).

• Also list any species that quickly flies through the stations (good examples are gulls and bald eagles).

• If you record an outside-flythrough and that species is then mapped on the station – just cross it off the fly-through list

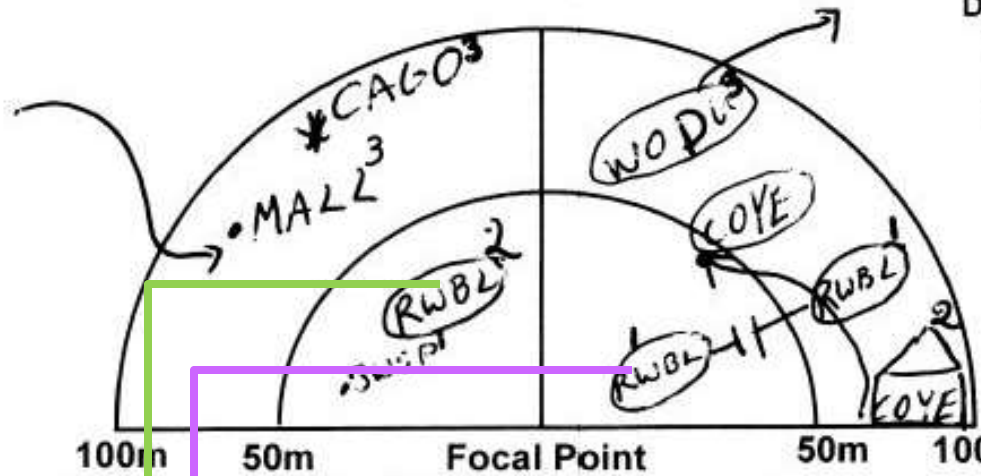
**SECONDARY SPECIES**

**Aerial Foragers Tally**

Species	min0-5	min5-10	min10-15
TRES	1	III	III
BANS			1

**Outside/Fly-Throughs List**

BLTE	
MALL	



**Secondary Species Summary**

Species Code	# Observed*				Species Code	# Observed*				Species Code	# Observed*					
	min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		min0-5	min5-10	min10-15	O/F**		
RWBL	2	1			BLTE				●							
S.W.SP	1															
TRES	1	3	0													
MALL			1													
CAGO			1													
NO.DU			1													
BANS			1													

**SUMMARIZING YOUR SECONDARY SPECIES**

- When your survey is complete you need to summarize your secondary species information.
- Mapped species and Aerial foragers are counted.
- Only record each individual bird once – during the first minute period they were seen/heard.
- Outside Fly-throughs are marked off (O/F circle) only if they are not included in the mapped or aerial forager boxes.

# The Habitat Description Form





Please print with BLOCK CAPITALS, remain within the boxes and mark each individual choice by filling in the corresponding circle. Please use pen (not felt tip).

Day Month Year Route #  
25 05 2002 0N098

Amphibian Survey Y/N:  Y Station Letter:  A (A-H)  
Bird Survey Y/N:  Y Station Letter:  A (A-H)



Observer # Observer Name  
18203 KATHY JONES

(A) % of major habitats in 100 metre radius station area

herbaceous emergent vegetation cover: 8.0  
large patches of open water/floating plants: 1.5  
exposed mud/sand/rock: 0  
trees: 0  
shrubs: 5  
Total: 100

Note:  
These should sum up to 100%

(B) Floating plant cover in open water zones (fill in one)

none  slight  moderate  dense   
unknown  not applicable

(C) Wetland Permanency (fill in one)

permanent  semi-permanent  seasonal

(D) Overall marsh size (fill in one)

tiny  small  medium  large  huge

(E) Area within 100 metres behind you is mainly (fill in one)

marsh  field  forest  urban  other

(F) Human influences affecting sample area (fill in one or more)

none  dykes  channels  roadside  sewage lagoon   
urban  pollution  industrial  agriculture   
natural/protected area   
other

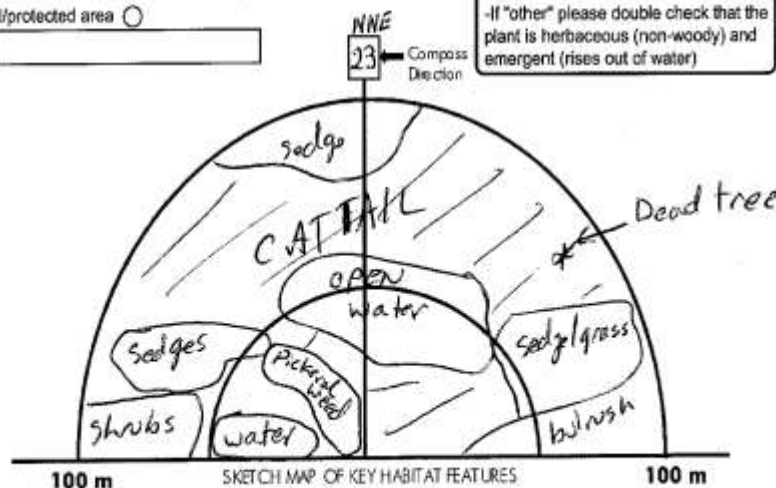
(G) Dominant Emergent Vegetation

Step 1: Identify the herbaceous emergent plants that dominate the station.

Step 2: Selecting the top 4, estimate the percent of their contribution (by area) to the total emergent vegetation.

cattail ( <i>Typha</i> ).....	5.0
reeds ( <i>Phragmites</i> and <i>Phalaris</i> )....	
grasses and grasslike sedges.....	2.0
rushes/bulrushes ( <i>Juncus/Scirpus</i> ).....	1.0
purple loosestrife ( <i>Lythrum</i> ).....	
water willow ( <i>Decodon</i> ).....	
pickeral weed ( <i>Pontederia</i> ).....	1.0
arrowhead ( <i>Sagittaria</i> ).....	
smartweed ( <i>Polygonum</i> ).....	
bur-reed ( <i>Sparganium</i> ).....	
wild rice ( <i>Zizania</i> ).....	
other	
other	
other	

Note:  
- Percentages do not need to sum to 100%  
- If "other" please double check that the plant is herbaceous (non-woody) and emergent (rises out of water)



## HABITAT FORMS

- Habitat forms should be completed annually – let our analysis decide if significant changes have occurred.
- But only once a year – usually about the time of the first bird survey or the second amphibian survey
- Remind us of your route id and the station id
- Remember to include the date.
- Don't review old forms or copy the data from old forms. This prevents us from looking for habitat changes.

3260332739 Marsh Monitoring Program-Habitat Description Form

Please print with BLOCK CAPITALS, remain within the boxes and mark each individual choice by filling in the corresponding circle. Please use pen (not felt tip).



Day Month Year Route #  
 25 05 20 02 0, N, 0, 9, 8

Amphibian Survey Y/N: Y Station Letter: A (A - H)  
 Bird Survey Y/N: Y Station Letter: A (A - H)

Observer # Observer Name  
 18203 KATHY JONES

**(A) % of major habitats in 100 metre radius station area**

herbaceous emergent vegetation cover: 80  
 large patches of open water/floating plants: 15  
 exposed mud/sand/rock: 0  
 trees: 0  
 shrubs: 5  
 Total: 100

Note:  
 These should sum up to 100%

**(B) Floating plant cover in open water zones (fill in one)**

none  slight  moderate  dense   
 unknown  not applicable

**(C) Wetland Permanency (fill in one)**

permanent  semi-permanent  seasonal

**(D) Overall marsh size (fill in one)**

tiny  small  medium  large  huge

**(E) Area within 100 metres behind you is mainly (fill in one)**

marsh  field  forest  urban  other

**(F) Human influences affecting sample area (fill in one or more)**

none  dykes  channels  roadside  sewage lagoon   
 urban  pollution  industrial  agriculture   
 natural/protected area   
 other

NNE  
 23  
 ← Compass Direction

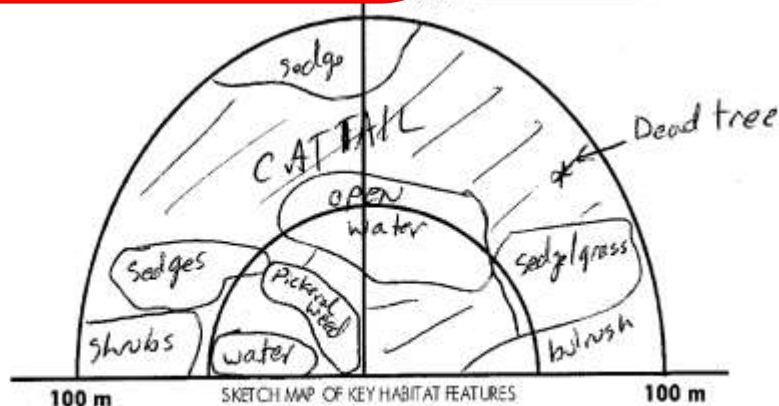
**(G) Dominant Emergent Vegetation**

Step 1: Identify the herbaceous emergent plants that dominate the station.  
 Step 2: Selecting the top 4, estimate the percent of their contribution (by area) to the total emergent vegetation.

cattail ( <i>Typha</i> ).....	5.0
reeds ( <i>Phragmites</i> and <i>Phalaris</i> )....	
grasses and grasslike sedges.....	2.0
rushes/bulrushes ( <i>Juncus/Scirpus</i> ).....	1.0
purple loosestrife ( <i>Lythrum</i> ).....	
water willow ( <i>Decodon</i> ).....	
pickeral weed ( <i>Pontederia</i> ).....	1.0
arrowhead ( <i>Sagittaria</i> ).....	
smartweed ( <i>Polygonum</i> ).....	
bur-reed ( <i>Sparganium</i> ).....	
wild rice ( <i>Zizania</i> ).....	
other <input type="text"/>	
other <input type="text"/>	
other <input type="text"/>	

Note:  
 - Percentages do not need to sum to 100%  
 - If "other" please double check that the plant is herbaceous (non-woody) and emergent (rises out of water)

- Need definitions for these?
  - Flip the page over and look at the back.
- Did you print the form yourself?
  - Remember to ensure you take page 2 (the definitions) into the field with you.





# Returning Data

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## Limit your paperwork

use the MMP forms in the field , not field books

Don't forget who you are: provide route and volunteer identifiers on all forms

Photocopy or scan prior to returning so that you have a copy at home.

Send the originals to us – by July 31<sup>st</sup>.





# Online Resources

- Need help when BSC staff are not available?
- Try online options
- Maps of available routes
- All training and protocol resources
- All forms
- Online data entry

## Websites

Main Great Lakes MMP website: [www.birdscanada.org/volunteer/glmmp](http://www.birdscanada.org/volunteer/glmmp)

Secure volunteer resource website: [www.birdscanada.org/birdmon/mmp](http://www.birdscanada.org/birdmon/mmp) (you will need to create a login and be approved).

Interactive Route Map:

<https://fusiontables.google.com/DataSource?snapid=S370464v3tg> (click on any dot for more details and for a link to the station locations).

