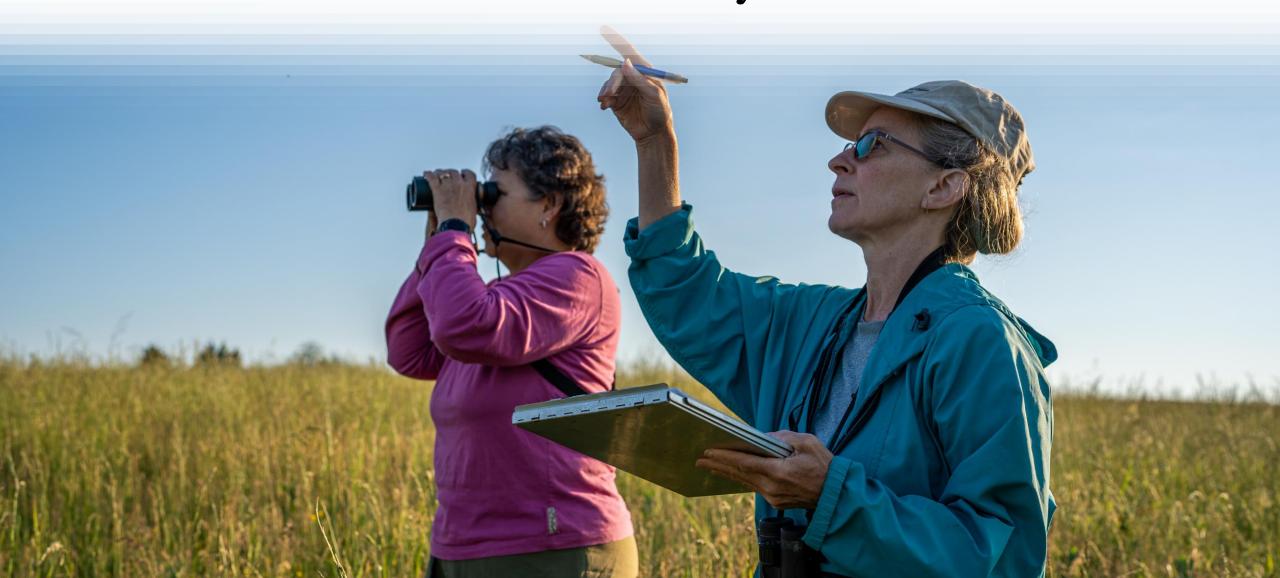


VWL Grassland Biodiversity Bird Surveys





Goals of VWL Bird Surveys

- To advance our understanding of the relationship between grassland bird populations, habitat structure, and land management practices.
- Identify landscape features that correlate with the occurrence of target grassland species.
- Provide landowners and land managers with species lists specific to their properties and land management practices.
- Engage the community through use of volunteer naturalists on the importance of grassland bird conservation.

Without support from our incredible community scientist team, we would not be able to make as significant of an impact as we are. Thank you for all you do!



Birds Commonly Observed on VWL Grassland Bird Surveys

VIRGINIA WORKING LANDSCAPES





Chimney Swift



Tree Swallow



Indigo Bunting



American Kestrel



Baltimore Oriole



Carolina Wren



Barn Swallow



Eastern Kingbird



Northern Mockingbird



Orchard Oriole



Eastern Bluebird



Eastern Towhee



Eastern Meadowlark



Song Sparrow



Field Sparrow



American Goldfinch



Mourning Dove



Brown Thrasher



Grasshopper Sparrow



Red-winged Blackbird



Chipping Sparrow



Common Yellowthroat



Yellow-breasted Chat



Gray Catbird



Bobolink*



Northern Harrier*



Loggerhead Shrike*



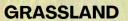
Northern Bobwhite*



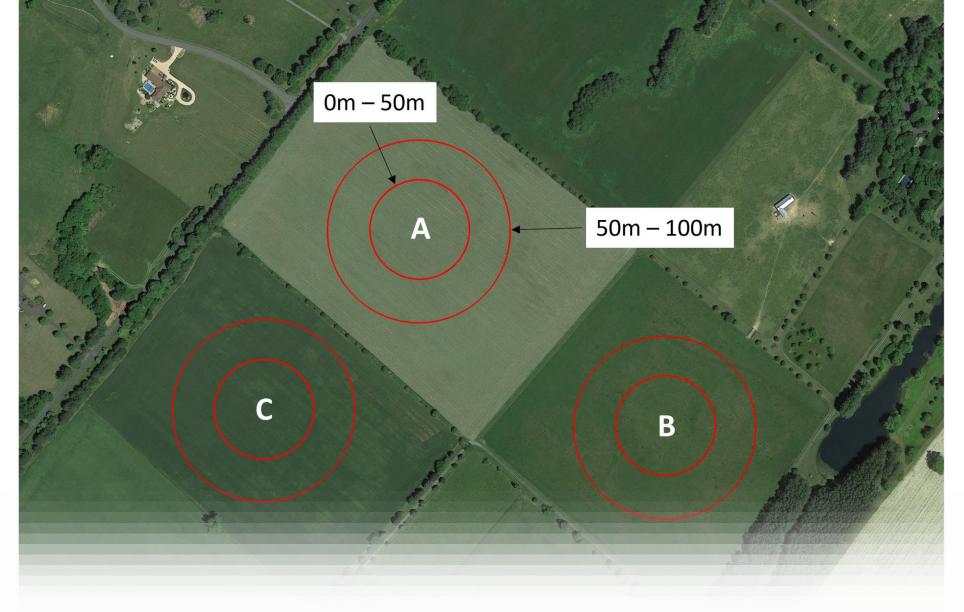
Prairie Warbler*

*VWL focal species not commonly observed on surveys

FOREST EDGE



SHRUBLAND



Bird surveys are carried out using a point count method. Community scientists stand at predetermined points (labeled A, B, & C) within survey fields and note every bird they see and hear within two distance bands (o – 50m and between 50 – 100m) for a total of 10 minutes





Equipment Needed

Required	Recommended
Binoculars	Sun protection (hats, sunscreen)
Clipboard with datasheets, survey manual and site map	Insect repellant
Pencils (>5) and blank note sheets	First Aid kit
Stopwatch	Field Guide
Water	Camera/Recording device (optional)
Long pants & sturdy field boots	Range finder/Measuring tape (optional)
VWL Parking Sign (provided by VWL)	
GPS Unit or Navigation App on phone	

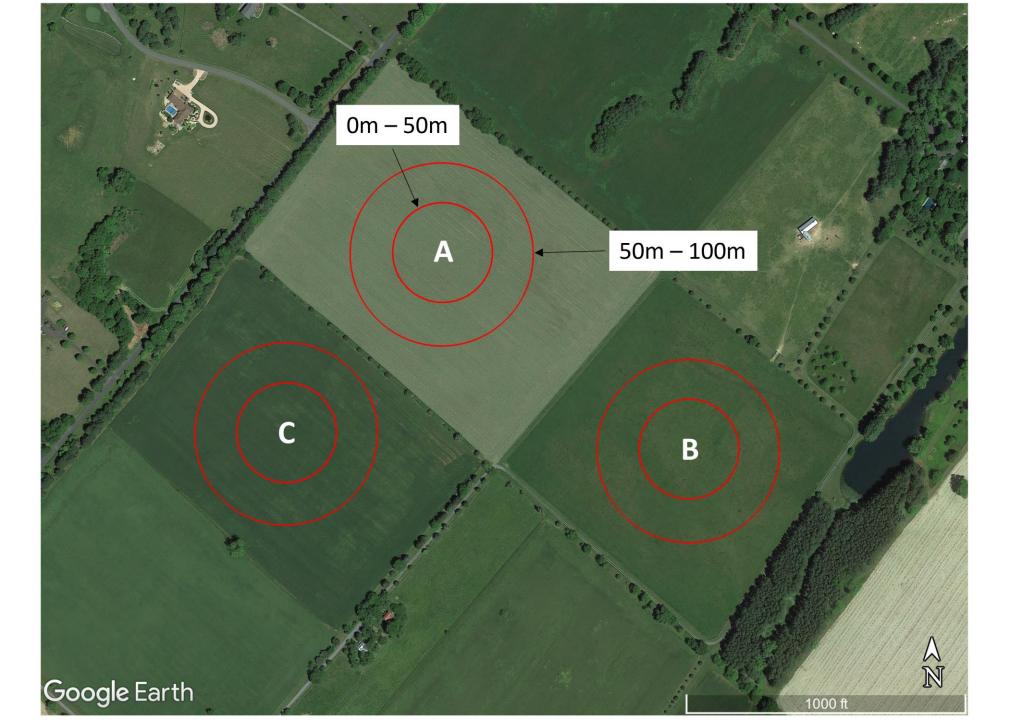


Survey Timing/Schedule



- Each site is surveyed 3 times
- Visits should be at least 4 days apart
- Survey within 3 hours of sunrise
- Coordinate with your partner(s), survey site landowner(s), and the VWL Survey Coordinator





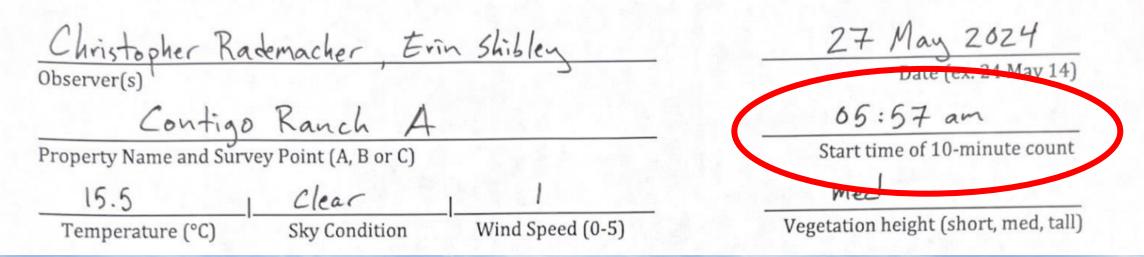




Christopher Ra Observer(s)	idemacher, Ex	in Shibley	27 May 2024 Date (ex. 24 May 14)
Contias	Ranch A		05:57 am
Property Name and Sur	vey Point (A, B or C)	Start time of 10-minute coun	
15.5	Clear	1 1	med
Temperature (°C)	Sky Condition	Wind Speed (0-5)	Vegetation height (short, med, tall)







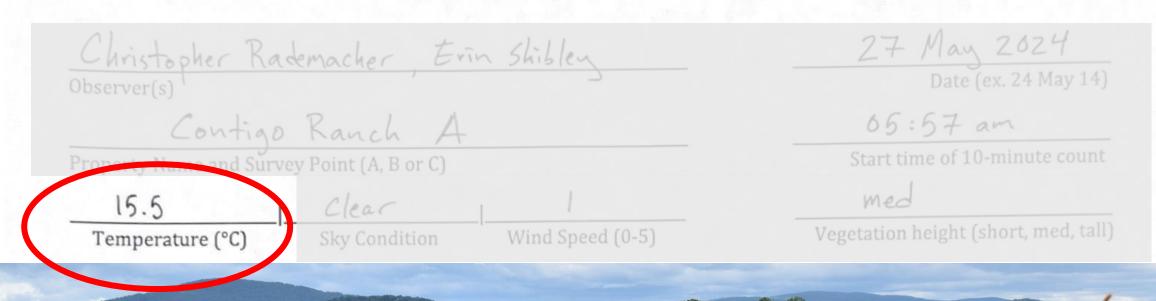




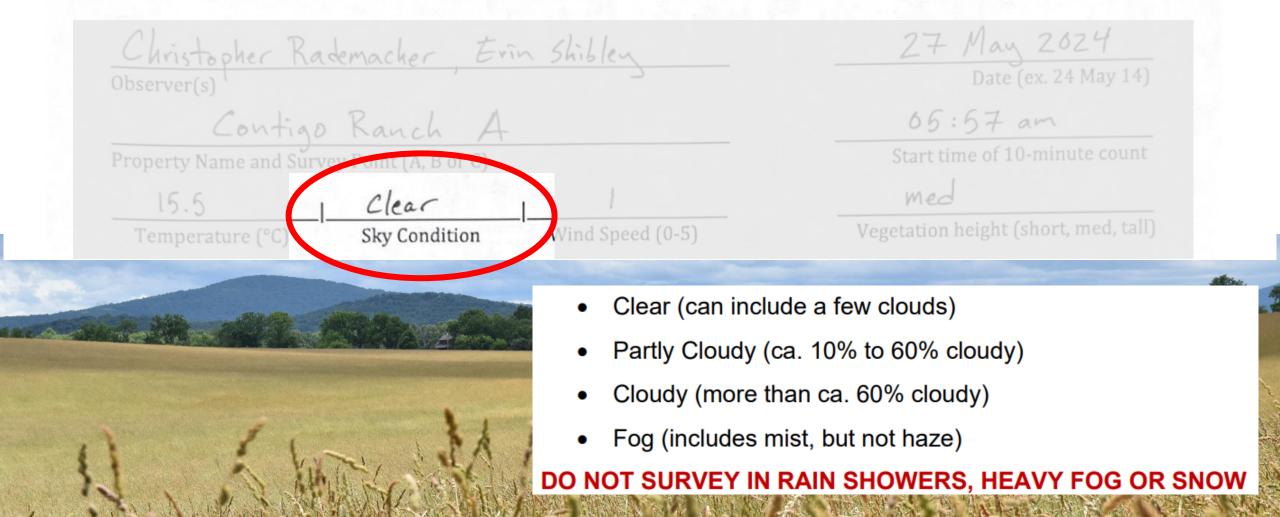
Christopher Ra Observer(s)	idemacher, Ex	in Shibley	27 May 2024 Date (ex. 24 May 14)
Contias	Ranch A		65:57 am
Property Name and Surv	vey Point (A, B or C)		Start time of 10-minute count
15.5	Clear	1	med
Temperature (°C)	Sky Condition	Wind Speed (0-5)	Vegetation height (short, med, tall)





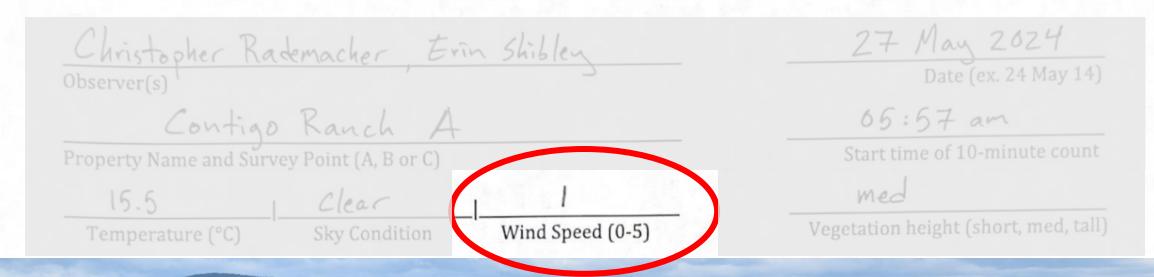








Survey of 3_



Beaufort No.	Speed in MPH	Indicators of Wind Speed
0	0	Smoke rise vertically, absolutely still conditions
1	1 to 3	Wind direction shown by smoke drift
2	4 to 7	Wind felt on face; leaves rustle
3	8 to 12	Leaves and small twigs in constant motion
4	13 to 18	Raises dust, loose <u>paper</u> and small branches
5	19 to 24	Small trees in leaf sway



Temperature (°C)	Sky Condition	Wind Speed (0-5)	Vegetation height (short, med, tall)
15.5	Clear	1	med
Property Name and Sur	vey Point (A, B or C)		Start time of 10 minute count
Contige	Ranch A		65:57 am
Observer(s)	,	_	Date (ex. 24 May 14)
Christopher Ro	idemacher Eri	in Shibley	27 May 2024

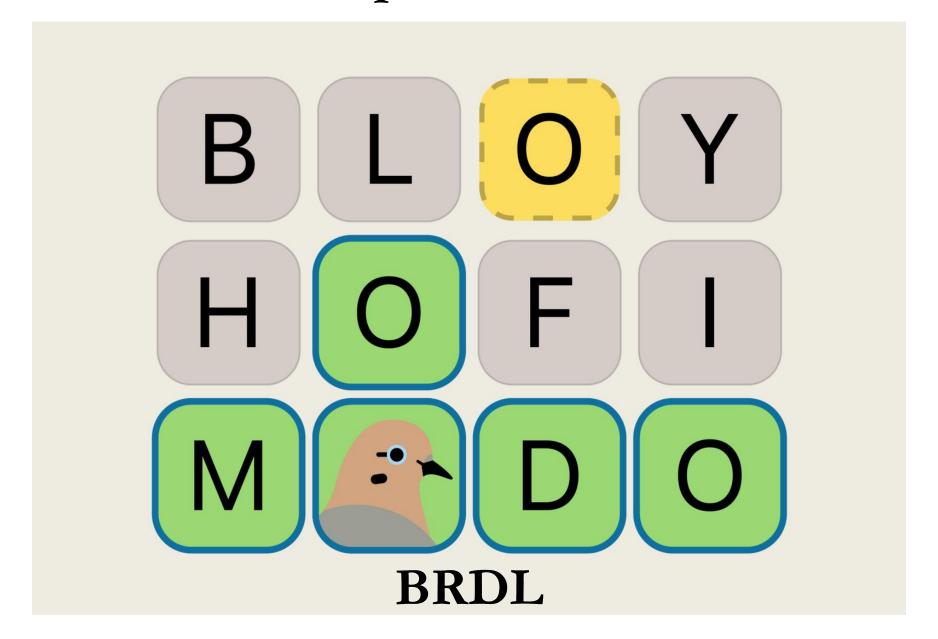


Christopher Ra	demacher Eri	in Shibley	27 May 2024
Observer(s) Contige Property Name and Surv	Ranch A vey Point (A, B or C)		Start time of 10-minute count
15.5	Clear		
Temperature (°C)	Sky Condition	Wind Speed (0-5)	Vegetation height (short, med, tall)





Alpha Codes





Single-word names:	If name is longer than four letters, the alpha code is the first four letters of the name.	Ex. Bobolink = BOBO
Two-word names:	If there are two words in the name, the alpha code is the first two letters of each word.	Ex. Common Yellowthroat = COYE
Three-words with a hyphenated pair:	If the hyphen is in the first part , the alpha code is the first letter from each hyphenated word and the first two letters from the last word.	Ex. <mark>Y</mark> ellow- <mark>b</mark> illed <mark>Cu</mark> ckoo = YBCU
	If the hyphen is in the last part , the alpha code is the first two letters from the first word and the first letter from each hyphenated word.	Ex. <mark>Ea</mark> stern <mark>W</mark> ood- <mark>p</mark> ewee = EAWP
Names with three separate words:	If there are three separate words, the alpha code is the first letter from the first two words and then two letters from the last word.	Ex. <mark>G</mark> reat <mark>B</mark> lue <mark>He</mark> ron = GBHE
Names with four words:	If the name has four words, the alpha code is the first letter of each word.	Ex. <mark>N</mark> orthern <mark>R</mark> ough- <mark>w</mark> inged <mark>S</mark> wallow = NRWS





Single-word names: If name is longer than four letters, the alpha code is the first four letters of the name.

Ex. Bobolink = BOBO



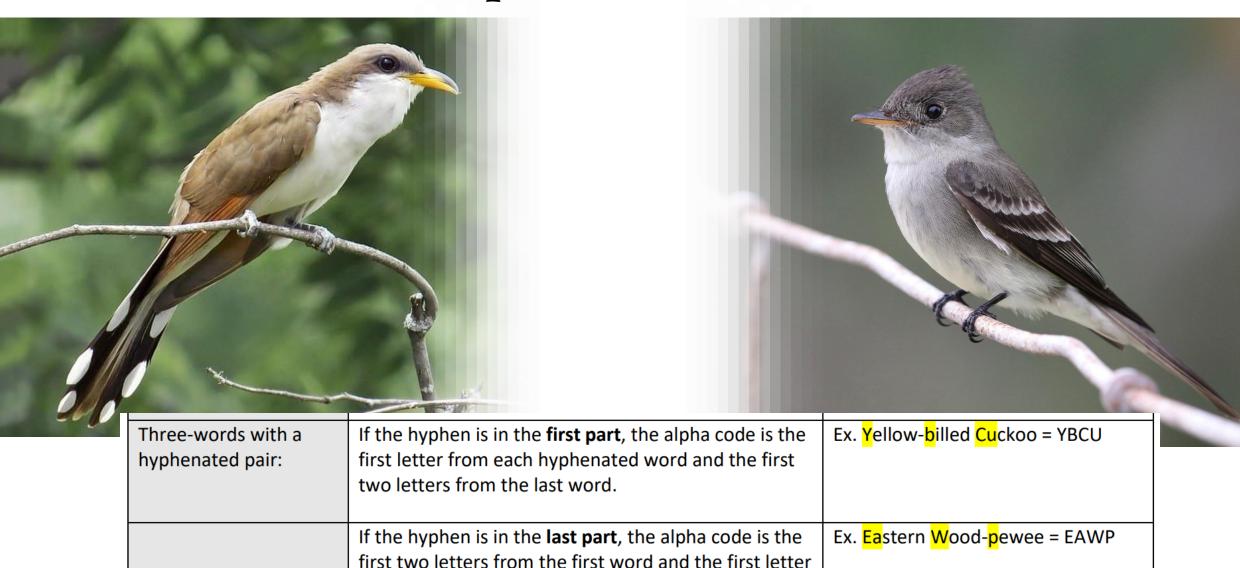


Common Yellowthroat by Mark Daly; Cornell Lab of Ornithology Macaulay Library

Two-word names:

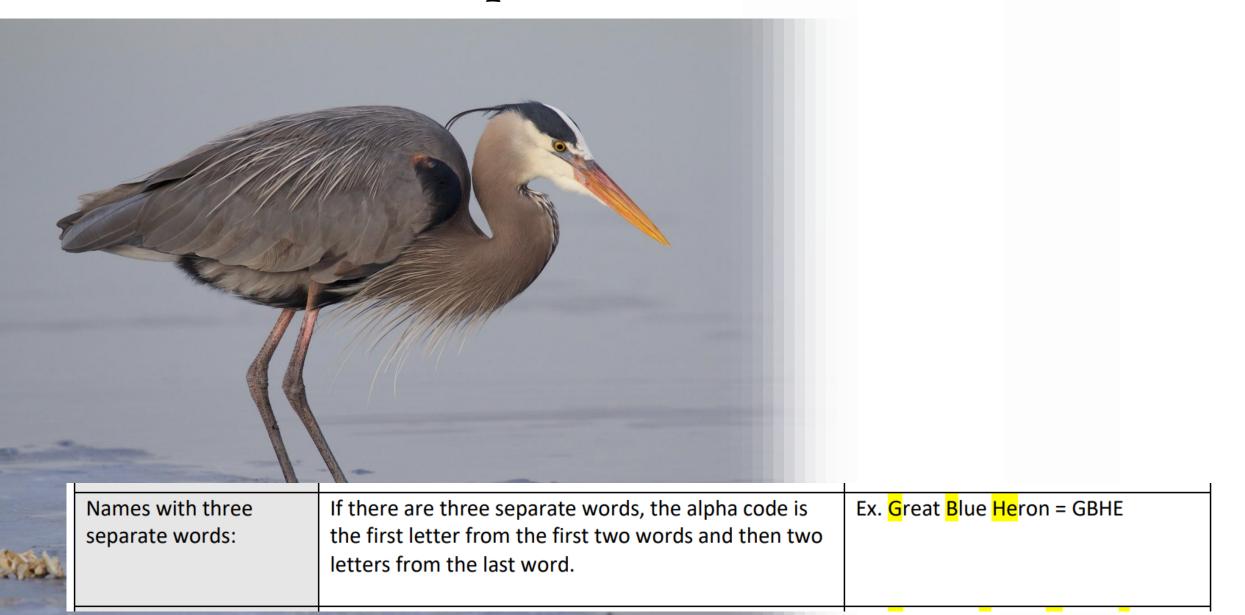
If there are two words in the name, the alpha code is the first two letters of each word. Ex. Common Yellowthroat = COYE





from each hyphenated word.









Names with four words:

If the name has four words, the alpha code is the first letter of each word.

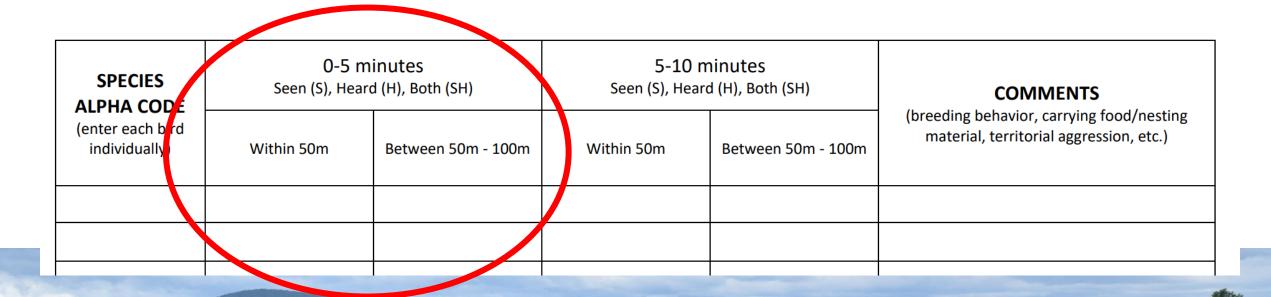
Ex. Northern Rough-winged Swallow = NRWS



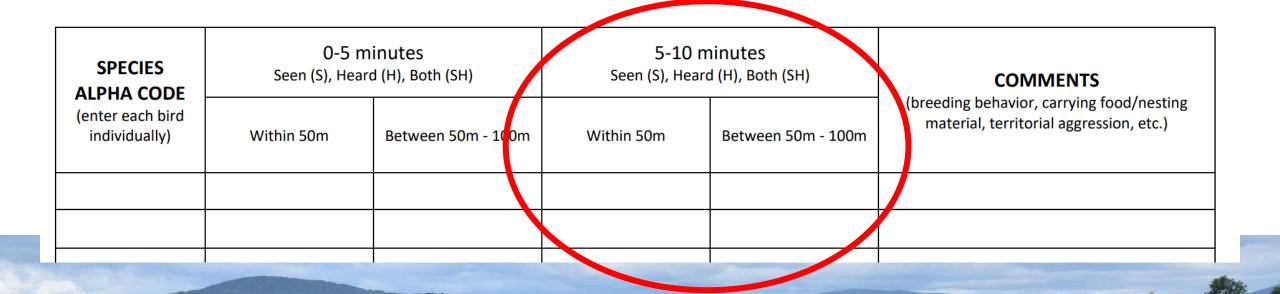
SPECIES ALPHA CODE		inutes d (H), Both (SH)		ninutes d (H), Both (SH)	COMMENTS
(enter each bird individually)	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)













SPECIES Seen (S) ALPHA CODE (enter each bird		0-5 minutes Seen (S), Heard (H), Both (SH)		minutes ard (H), Both (SH)	COMMENTS
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)
RWBL	5H			Total Maria	07
505P		Н		H	
AM60		SH			on coneflowers
AM60		5H			
AM60		SH			. "
EAME	5		SH		carrying food
BARS		SH			foraging
RWBL	F Laceur	5		1 (1)	
BLJA			SH		
KILL				H	



CDECIEC		minutes ard (H), Both (SH)	5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS (breeding behavior, carrying food/nesting material, territorial aggression, etc.)
	Between 50m - 100m	Within 50m	Between 50m - 100m		
RWBL	5H				Or
505P		H		H	
AM60		SH			on coneflowers
AM60		SH			
AM60		SH			~ "
EAME	5		SH		carrying food
BARS		SH		4.7	foraging
RWBL	- Walded F	5		1 18	
BLJA			SH		
KILL				H	



CDECIEC		minutes ard (H), Both (SH)	5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)
RWBL	5H			1-32 Miles 10 =	Or
505P	1341 74	Н		H	
AM60		SH			on coneflowers
AM60		5H			"
AM60		SH			~ "
EAME	5		SH		carrying food
BARS		SH		47	foraging
RWBL	F Landson	5		1 18	
BLJA			SH		
KILL				H	



CDECIEC	minutes ard (H), Both (SH)			COMMENTS (broading behavior carping food/pest)	
	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)	
RWBL	SH				OF
505P		H		H	
AM60		SH			on coneflowers
AM60		5H			
AMGO		SH		4	. "
EAME	5		SH		carrying food
BARS		SH		4.7	foraging
RWBL		5		1 18	
BLJA			SH	16数。2000	
KILL				H	



SPECIES ALPHA CODE (enter each bird individually)	0-5 minutes Seen (S), Heard (H), Both (SH)		5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)
RWBL	SH				Or
505P		H		H	
AM60		SH			on coneflowers
AM60		SH			
AM1-0	1/4	<h< td=""><td></td><td></td><td>~ "</td></h<>			~ "
EAME	5		SH		carrying food
BARS		SH	lyndig is		foraging
RWBL	F & Sudan r	5		1	
BLJA			SH		
KILL				H	



SPECIES ALPHA CODE (enter each bird individually)	0-5 minutes Seen (S), Heard (H), Both (SH)		5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)
RWBL	5H				07
505P		H		H	
AM60		SH			on coneflowers
AM60		SH			
AMGO		SH		4	. "
EAME	5		SH		carrying food
BARS		SH		4.7	foraging
RWBI	T. U. S. et Sec. 1	5		1 3	
BLJA	, Syalley		SH		
KILL				H	

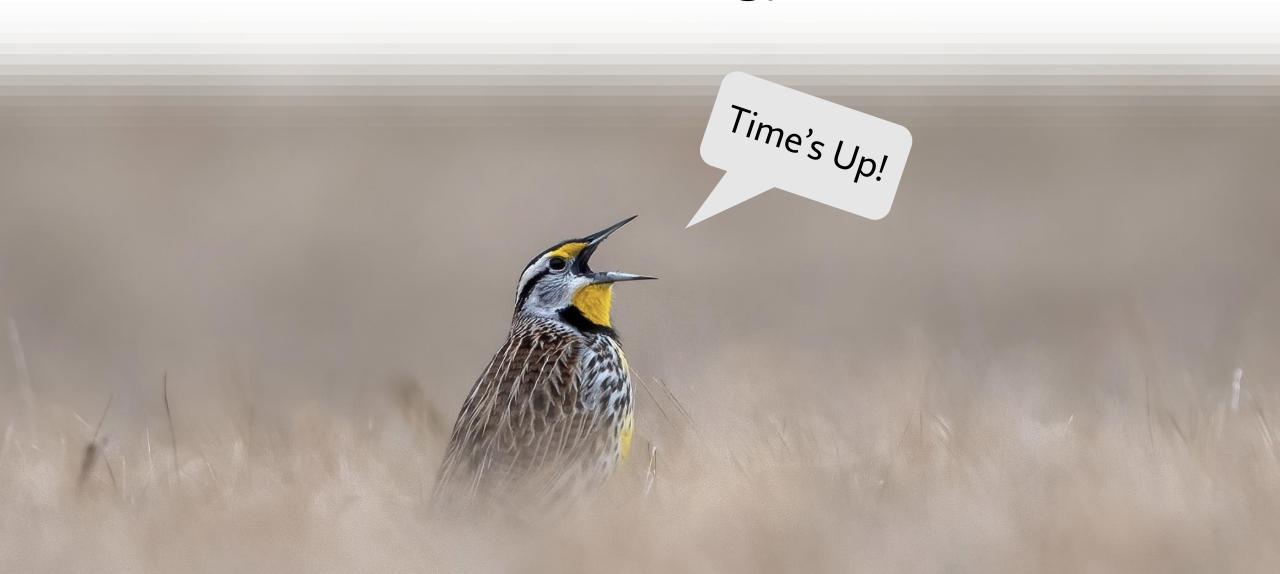


SPECIES ALPHA CODE (enter each bird individually)	0-5 minutes Seen (S), Heard (H), Both (SH)		5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS (breeding behavior, carrying food/nesting
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	material, territorial aggression, etc.)
RWBL	SH				Or
505P		H		H	
AM60		SH			on coneflowers
AM60		SH			//
AMGO		SH			~ "
TANE	4		SH		carrying food
BARS		SH			foraging
RWBL		5			
BLJA			SH	Take A Take	
KILL				H	



SPECIES ALPHA CODE (enter each bird individually)	0-5 minutes Seen (S), Heard (H), Both (SH)		5-10 minutes Seen (S), Heard (H), Both (SH)		COMMENTS
	Within 50m	Between 50m - 100m	Within 50m	Between 50m - 100m	(breeding behavior, carrying food/nesting material, territorial aggression, etc.)
RWBL	5H			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Or
505P		Н		H	
AM60		SH			on coneflowers
AM60		SH			"
AM60		SH			" "
EAME	5		SH		carrying food
BARS		SH		37	foraging
RWBL	F V Successor	5		1 1	
BLJA			SH	16数。2700	
KILL				H	

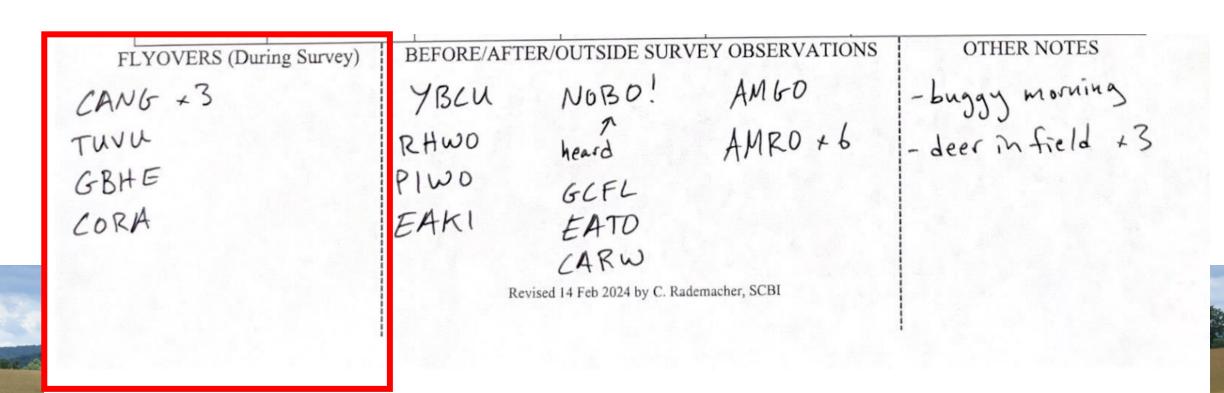




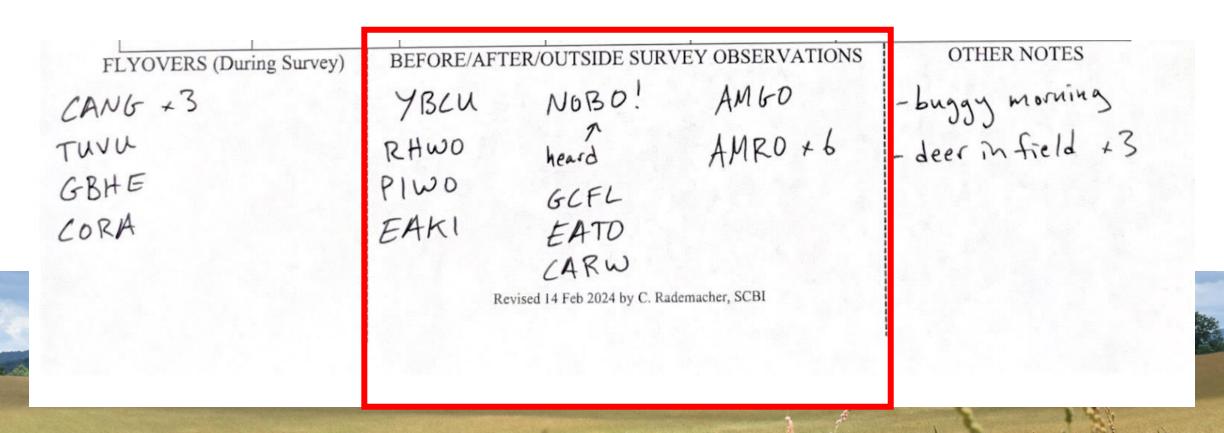


FLYOVERS (During Survey)	BEFORE/AFT	ER/OUTSIDE SUR	OTHER NOTES	
CANG +3	YBLU	NOBO!	AM 60	- buggy morning
TUVU	RHWO	heard	AMRO +6	- deer in field +3
GBHE	PIWO	GCFL		
CORA	EAKI	EATO		
		CARW		
	Re	vised 14 Feb 2024 by C. Ra	demacher, SCBI	











RHWO PIWO EAKI	heard GCFL EATO CARW vised 14 Feb 2024 by C. Rac	AMRO + 6	- deer in field +3
	EAKI	EAKI EATO CARW	EAKI EATO



Entering Data

/_	A	В	С	D	E	F	G	Н	1	J
1	Who took part in the survey?	Where was survey condu	When was the survey conducted?			What were the field conditions during the survey?				
2	Observers (use full names, each separated by a comma)	Site Name	Point (A, B, or C)	Date (MM/DD/YYYY)	Start Time (hh:m m)	Visit # (1st, 2nd, or 3rd)	Temp (deg C)	Sky Condition	Wind Condition (0-5)	Grass Height (short, med, tall)
3	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
4	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
5	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
6	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
7	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
8	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
9	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
10	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
11	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
12	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
13	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
14	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
15	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
16	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
17	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
18	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
19	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
20	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med
21	Christopher Rademacher, Erin Shibley	Contigo Ranch	Α	5/27/2024	5:57	1	15.5	clear	1	med



Entering Data

К	L	М	N	0	Р	Q	R	s	Т
What species was observed?		Where&How did you observe this species (during 0 to 5 minutes)?		Where&How did you observe this species (during 5 to 10 minutes)?		Was this species detected as a Flyover or Incidental observation?		Species Notes about the species observed (e.g., behaviors or observations such as	Survey Notes regarding survey period (e.g., things that could have impacted detection, such
Species Alpha Code (each line represents an individual)	Common Name (this will automatically fill if the species code is correct)	≤50m = 1 >50m = 2	seen = S heard = H both = SH	≤50m = 1 > 50m = 2	seen = S heard = H both = SH	Flyover (seen flying over field during the survey; Yes or No)	Incidental (seen before/after/outside of surveys; Yes or No)	carrying nesting material or food, territorial behavior, male or female, etc.)	as noise levels or the presence of other predatory wildlife)
RWBL	Red-winged Blackbird	1	SH					male	buggy morning, deer in field x3
SOSP	Song Sparrow	2	Н	2	H				buggy morning, deer in field x3
AMGO	American Goldfinch	2	SH					on coneflowers	buggy morning, deer in field x3
AMGO	American Goldfinch	2	SH					on coneflowers	buggy morning, deer in field x3
AMGO	American Goldfinch	2	SH					on coneflowers	buggy morning, deer in field x3
EAME	Eastern Meadowlark	1	S	1	SH			carrying food	buggy morning, deer in field x3
BARS	Barn Swallow	2	SH					foraging	buggy morning, deer in field x3
RWBL	Red-winged Blackbird	2	S						buggy morning, deer in field x3
BLJA	Blue Jay			1	SH				buggy morning, deer in field x3
KILL	Killdeer			2	Н				buggy morning, deer in field x3
FISP	Field Sparrow			2	Н				buggy morning, deer in field x3
SOSP	Song Sparrow			1	SH				buggy morning, deer in field x3
TRES	Tree Swallow			1	SH			foraging	buggy morning, deer in field x3
TRES	Tree Swallow			1	SH			foraging	buggy morning, deer in field x3
TRES	Tree Swallow			1	SH			foraging	buggy morning, deer in field x3
вово	Bobolink			2	SH			male	buggy morning, deer in field x3
вово	Bobolink			2	s			female	buggy morning, deer in field x3
NOMO	Northern Mockingbird			1	SH				buggy morning, deer in field x3
CANG	Canada Goose					Υ			buggy morning, deer in field x3
CANG	Canada Goose					Υ			buggy morning, deer in field x3
CANG	Canada Goose					Υ			buggy morning, deer in field x3
TUVU	Turkey Vulture					Υ			buggy morning, deer in field x3
GBHE	Great Blue Heron					Υ			buggy morning, deer in field x3
CORA	Common Raven					Υ			buggy morning, deer in field x3
YBCU	Yellow-billed Cuckoo						Υ		buggy morning, deer in field x3
RHWO	Red-headed Woodpecker						Υ		buggy morning, deer in field x3
PIWO	Pileated Woodpecker						Υ		buggy morning, deer in field x3
EAKI	Eastern Kingbird						Υ		buggy morning, deer in field x3
	-			1					



Bird ID Tips

- Song
- Size and Shape
- Color and Pattern
- Behavior
- Habitat

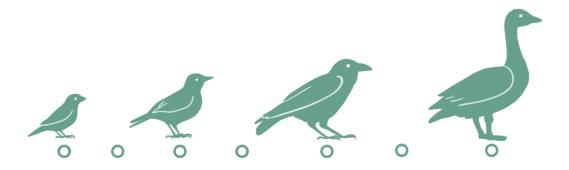


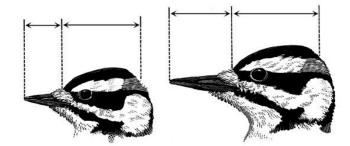




Bird ID Tips: Size & Shape

- Place bird into size category
- Squat, stocky, tall or thin?
- Crest on head?
- Focus on size and shape of bill, tail or feet







Downy Woodpecker

Hairy Woodpecker





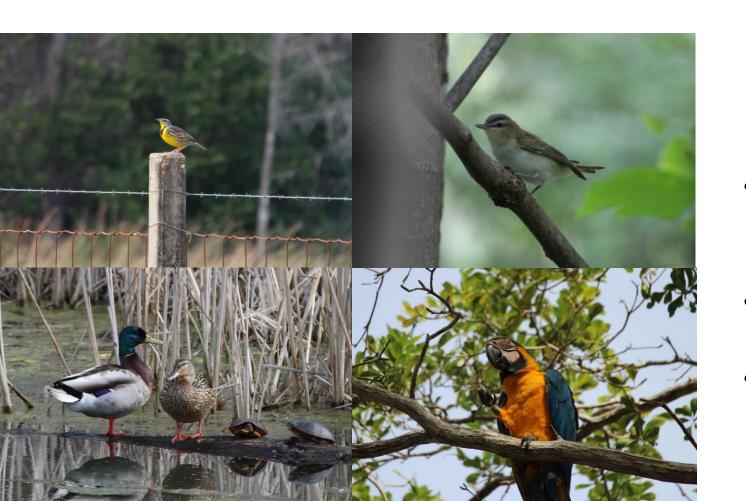
- How does it move through the landscape?
- Is it soaring in the sky or flitting in a tree?

Bird ID Tips: Behavior





Bird ID Tips: Range/Season/ Habitat







Bird Resources

Helpful Websites:

Audubon (Audubon.org)



(aba.org)



(virginiabirds.org)



- All About Birds (allaboutbirds.org)
- eBird (ebird.org)

Helpful Apps:



Merlin Bird ID



Sibley Birds 2nd Edition (\$)



Larkwire App (\$\$)



iNaturalist



Chirp! Birdsongs App (\$)

Coming Soon!



Welcome to Virginia Working Landscapes Bird Identification Training!

