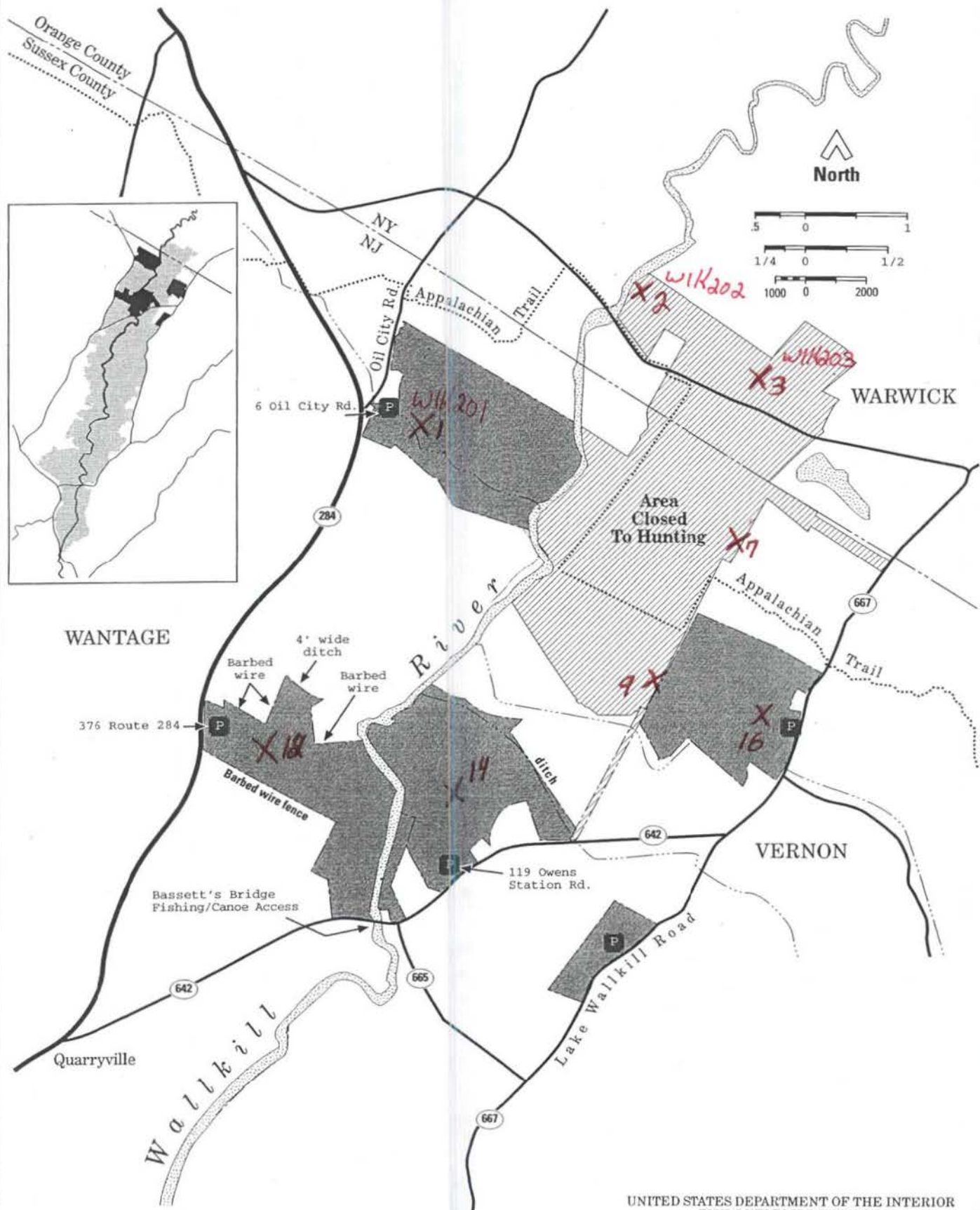
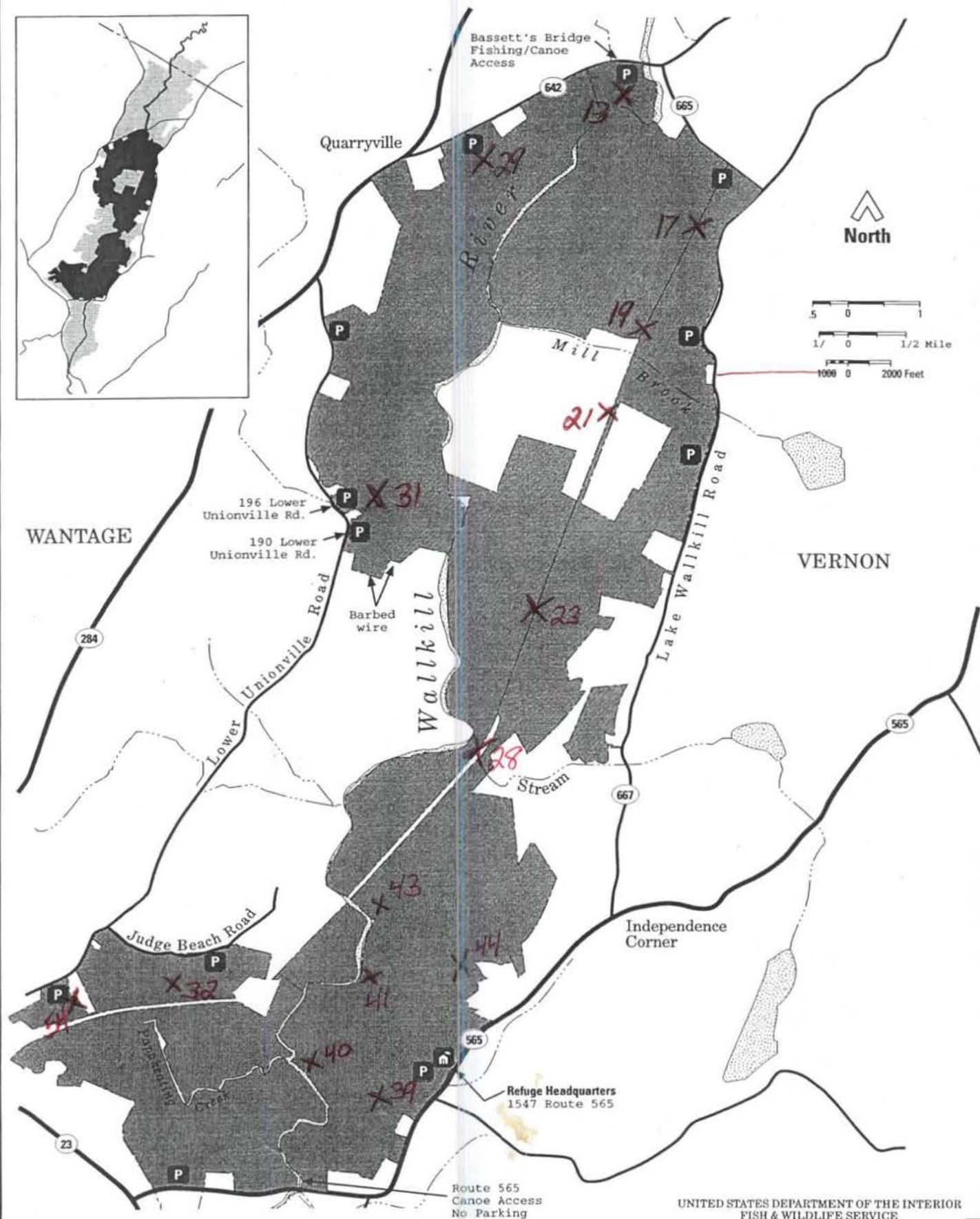
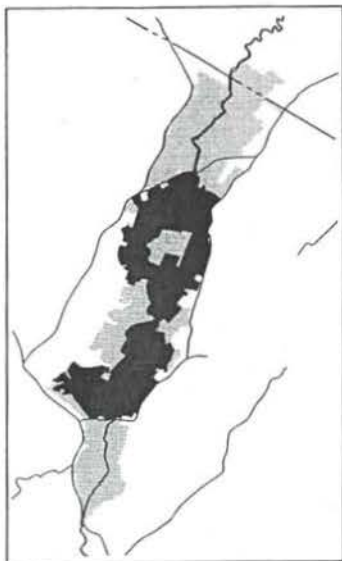
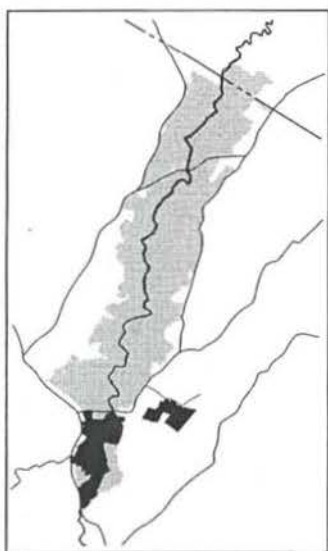


Anuran 2001





SUSSEX



Independence
Corner

Refuge
Headquarters

VERNON

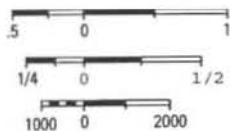
Lake Pochung Road

River

HARDYSTON



Beaver Run



UNITED STATES DEPARTMENT OF THE INTERIOR
FISH & WILDLIFE SERVICE

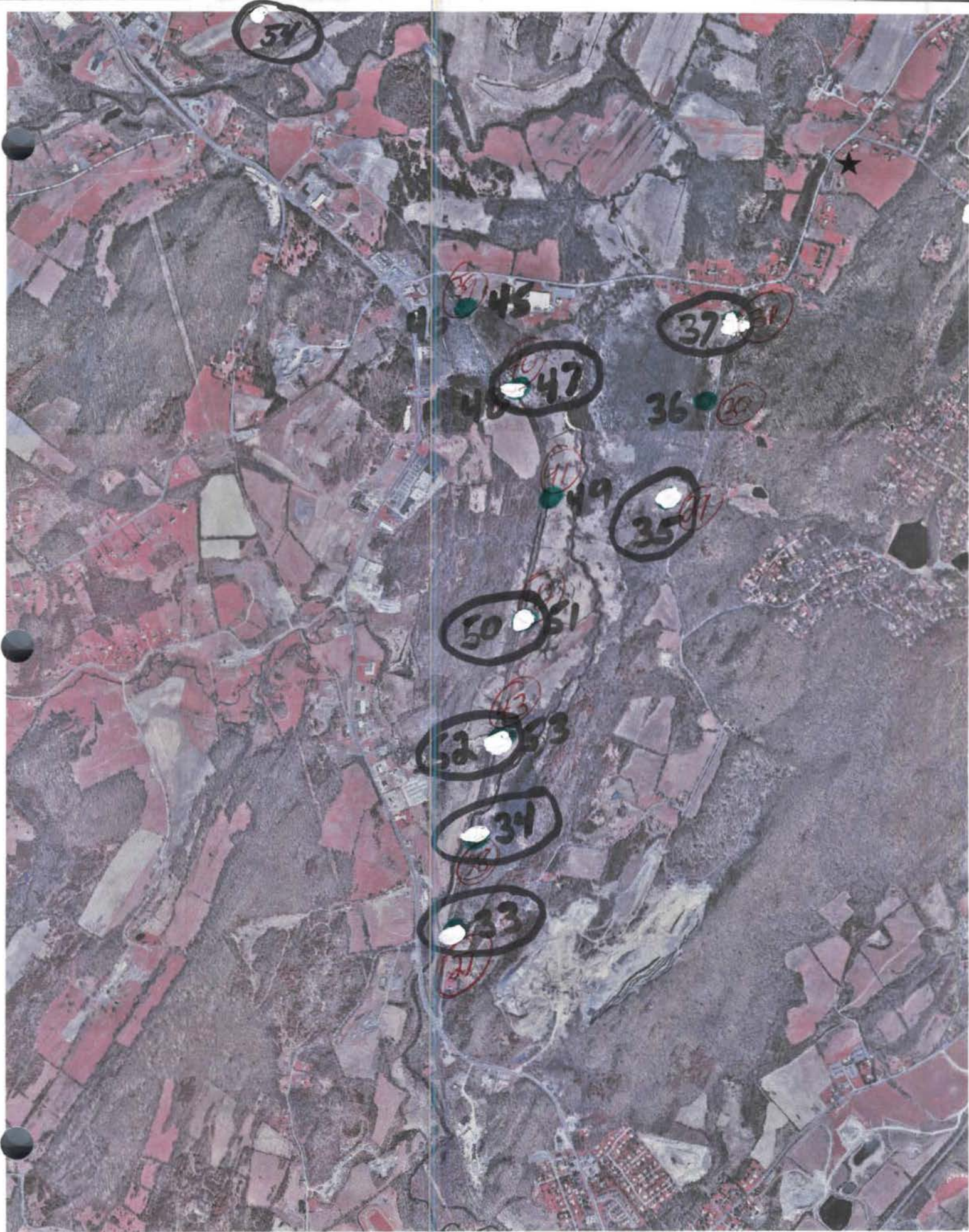
ANÜRAN





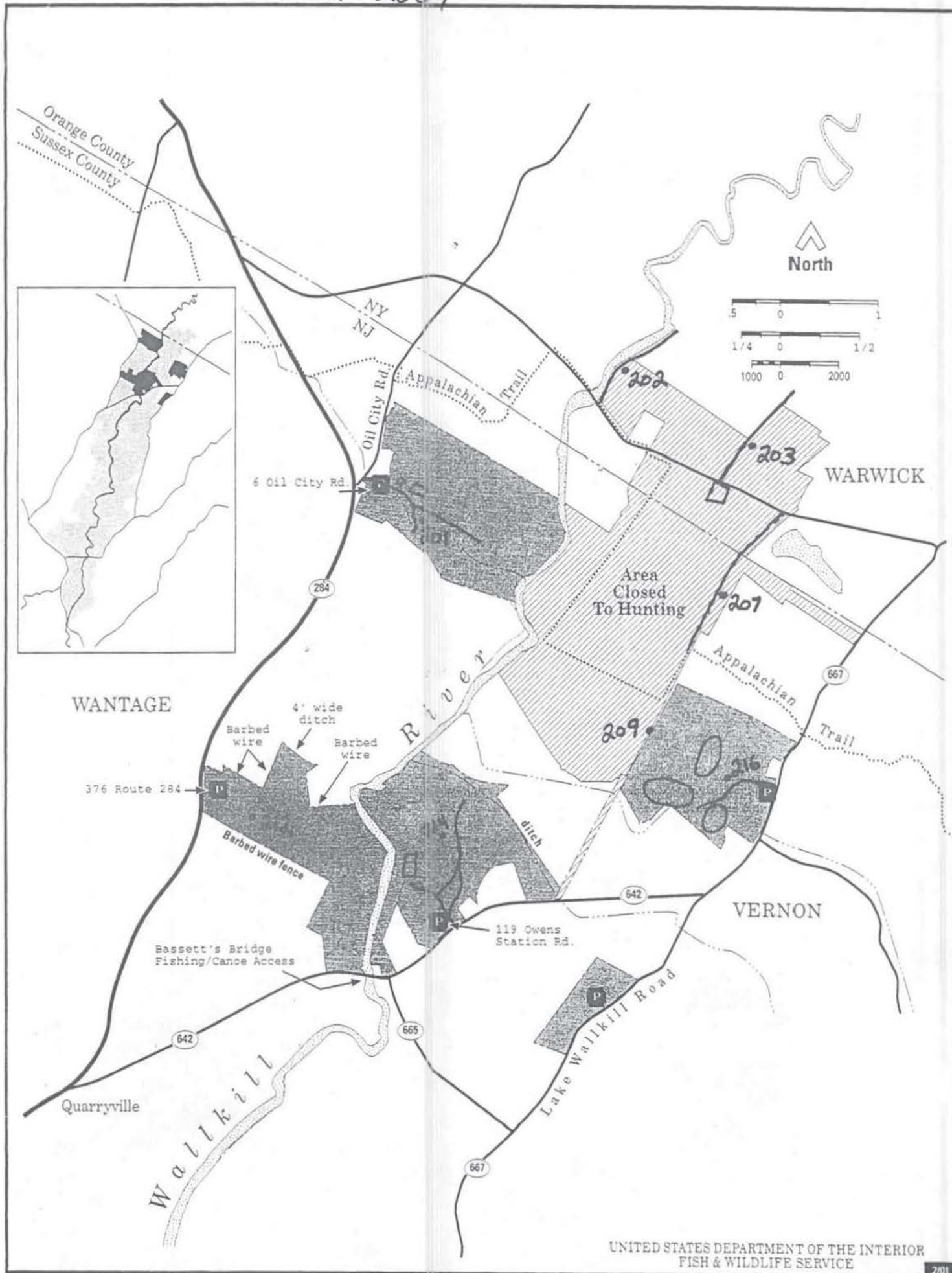
O-South □-Central

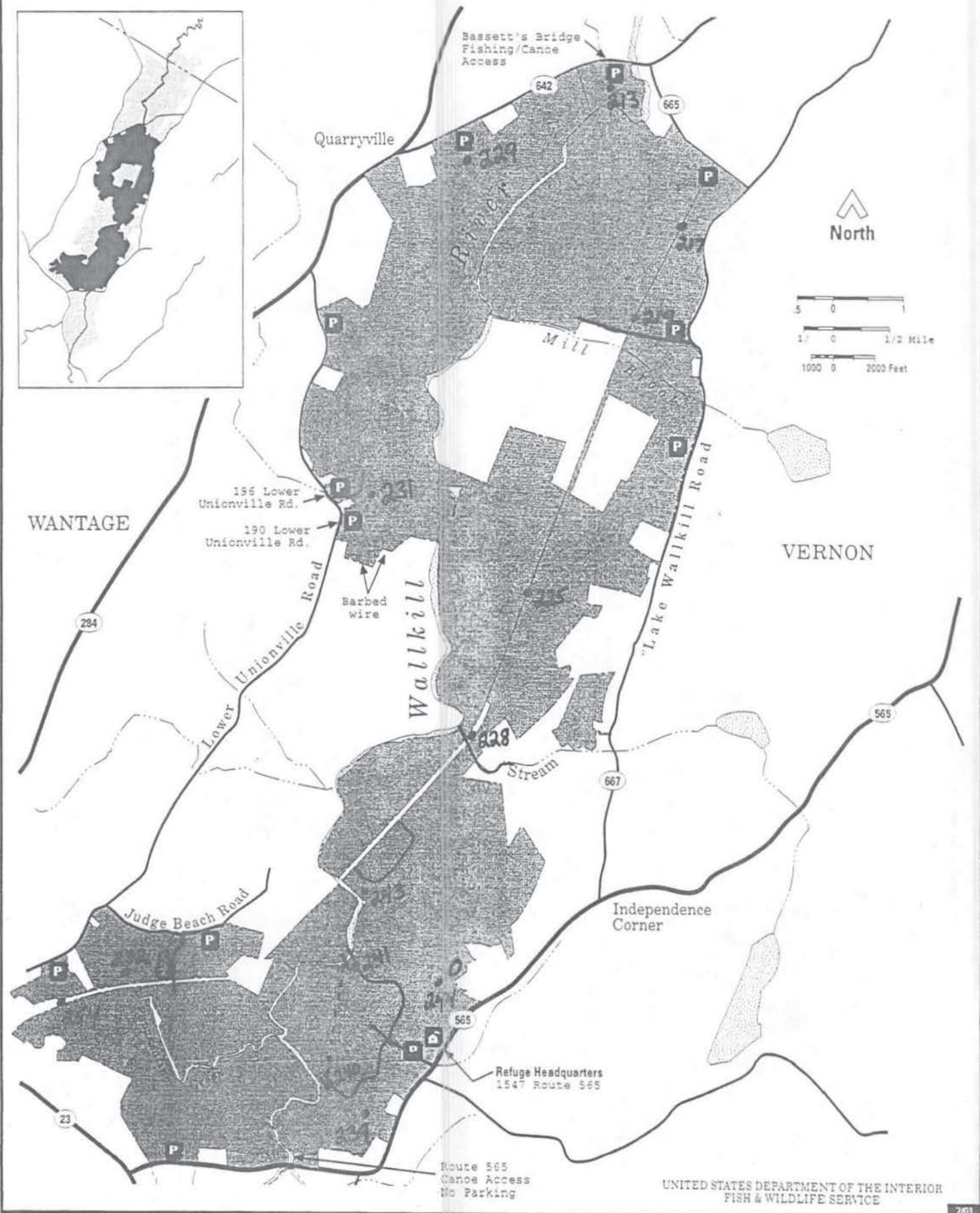
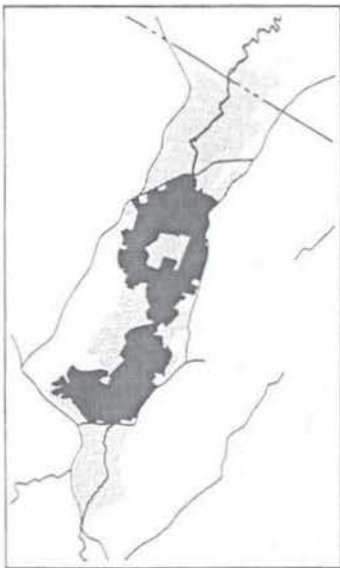




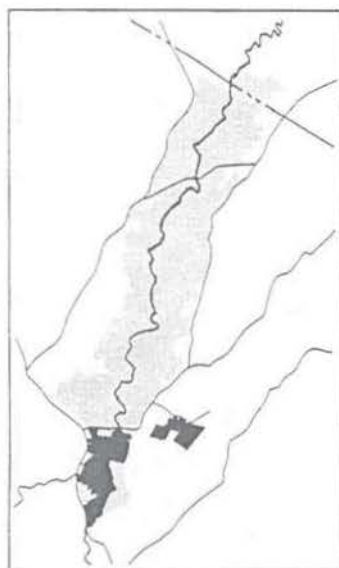
O - South

Anoran 2001





SUSSEX



Independence
Corner

Refuge
Headquarters

VERNON

Lake Pochung Road

River

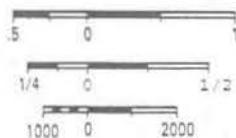
HARDYSTON

Special Hunting Restrictions:

- open to segments A-D
- closed to segment E

Beaver Run

North



UNITED STATES DEPARTMENT OF THE INTERIOR
FISH & WILDLIFE SERVICE

UTM Coordinates for Point Count Units
at
WALLKILL RIVER NWR

Census Group = Anuran

Rpt. Date: 07/23/2001

Unit #	Unit Name	X UTM	Y UTM
WLK201	wlk064		
WLK202	#410		
WLK203	#411		
WLK204	411		
WLK205			
WLK206	→ wlk012		
WLK207	#413		
X WLK208	→ #522		
WLK209	#417		
WLK210	→ wlk009		
WLK211	→ wlk008		
WLK212	wlk062		
WLK213	wlk019		
WLK214	wlk016		
WLK215	wlk016		
WLK216	#449		
X WLK217	→		
X WLK218	→		
WLK219	065		
WLK220	065		
WLK221			
WLK222			
WLK223			
WLK224	Already in		
WLK225	database		
WLK226			
WLK227			
WLK228	wlk077		
X WLK229	→ #524		
X WLK230	→		
WLK231	wlk060		
X WLK232	→		
X WLK233	→		
X WLK234	→		
WLK235	wlk044		
WLK236	→ wlk042		
WLK237	wlk041		
WLK238	wlk040		
WLK239	→ see pg. 2-16		
WLK240	wlk038		
WLK241	wlk034		
WLK242	wlk032		
WLK243	wlk033		
X WLK244	→		
WLK245	→ wlk050		
WLK246			
WLK247	wlk047		
WLK248	wlk047		

Some lakes
not in

WALLKILL RIVER NWR

Census Group = Anuran

Rpt. Date: 07/23/2001

Unit #	Unit Name	X UTM	Y UTM
X WLK249	→ 525		
W.D.T. - WLK250	→		
X WLK251	→		
WLK252	WIK 056		
WLK253	WIK 056		
X WLK254	→ 524		
X WLK255	→		

WALLKILL RIVER NWR
Point Count Species Abundance and Frequency

Census Group: Anuran
Route Name : Anuran Survey
Total Points Along Route: 32

Census Date: 04/04/2001 To 07/12/2001
Report Date: 03/22/2002

Count Period: Times 1 + 2

Count Radius: Radii 1 + 2

Species	Total Observed	Relative Abundance	Ave Point	# Points Observed	Frequency
Spring peeper	177	51.75 %	5.53	60	187.50 %
Green frog	44	12.87 %	1.38	29	90.63 %
Gray treefrog	40	11.70 %	1.25	19	59.38 %
American toad	33	9.65 %	1.03	16	50.00 %
Wood frog	31	9.06 %	0.97	12	37.50 %
Bullfrog	10	2.92 %	0.31	6	18.75 %
Pickerel frog	7	2.05 %	0.22	6	18.75 %
Total Observed on Route	342			32	

Relative Abundance = Total of Species / Total of All Species

Ave Point = Average number individuals of species per point.

Points Observed = Number of Points Species Was Observed.

Frequency = Number Points Species Observed / Number Points Surveyed.

WALLKILL RIVER NWR
Point Count Species Abundance and Frequency

Census Group: Anuran
Route Name : Anuran Survey
Total Points Along Route: 51

Census Date: 03/15/2000 To 05/31/2000
Report Date: 03/22/2002

Count Period: Times 1 + 2

Count Radius: Radii 1 + 2

Species	Total Observed	Relative Abundance	Ave Point	# Points Observed	Frequency
Spring peeper	150	70.42 %	2.94	50	98.04 %
Wood frog	21	9.86 %	0.41	14	27.45 %
American toad	19	8.92 %	0.37	10	19.61 %
Gray treefrog	9	4.23 %	0.18	3	5.88 %
Green frog	7	3.29 %	0.14	5	9.80 %
Pickerel frog	5	2.35 %	0.10	4	7.84 %
Bullfrog	2	0.94 %	0.04	1	1.96 %
Total Observed on Route					51

Relative Abundance = Total of Species / Total of All Species

Ave Point = Average number individuals of species per point.

Points Observed = Number of Points Species Was Observed.

Frequency = Number Points Species Observed / Number Points Surveyed.

1/14

Survey Data

#609 OK

240
Point Data

#741

#742

#743

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Refuge Route: North

744

2745

#746

747

Survey Date: 4/4/01
#748

	WIK ⁶ 214		WIK ⁷ 216		WIK ⁸ 207		WIK ⁹ 209		WIK ¹⁰ 203	
Start Time	2115		2130		2145		2155		2205	
Air Temperature (°F)	39		38		39		35		36	
Sky Code	0		0		0		0		0	
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
WDFR	1	2								
NS PE	3	3	3	3	3	3	3	3	3	3
Comments:										

± 749

* 750

	WIK 11 202		WIK 12 201		13		14		15	
Start Time	2215		2225							
Air Temperature (°F)	36		35							
Sky Code	0		0							
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
WOFB										
NSPE	3	3	3	3						
Comments:										

FWS Anuran Call Count Survey Survey Point Field Map

3/14

Observer: Kevin Holcomb

Refuge Route: North

Survey Date: 4/4/01

Run Number: 1

Point Number: WIK219

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
1956	47	1	0	N-1	

Sky Code: 0 = Clear / few clouds.
5 = Drizzle / light rain

1 = Partly cloudy / variable.
7 = Snow

2 = Cloudy (broken) or overcast.
*8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small twigs in motion.* Unacceptable wind strengths for survey.

*4 = Small branches move, raises dust and loose paper.

*5 = Small trees in leaf begin to sway, crested wavelets.

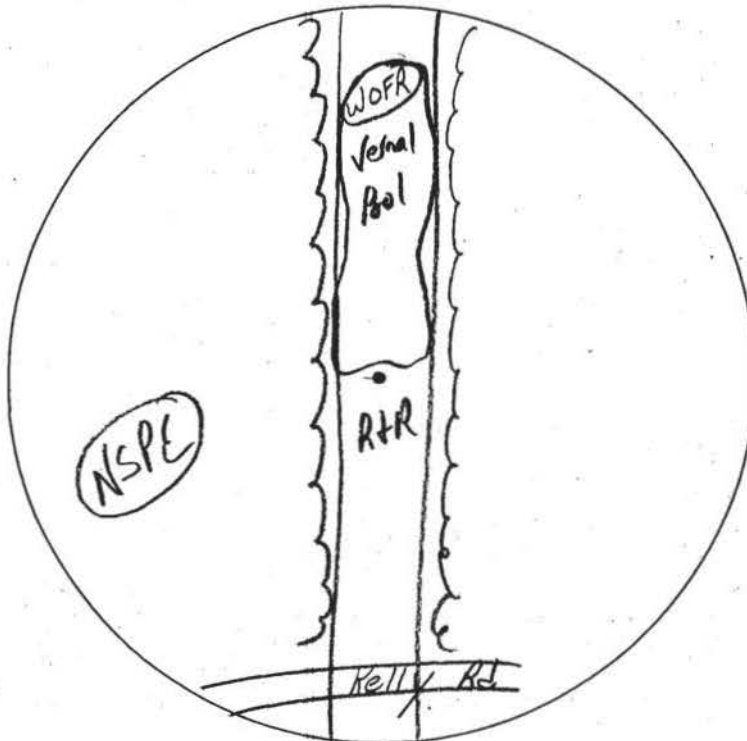
*6 = Large branches in motion.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
WOFR	3	3									

Comments:

3 - Woodcock

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey Survey Point Field Map

Observer: Karin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: W1
Point Number: WIK217

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2012	44	1	0	N-1	

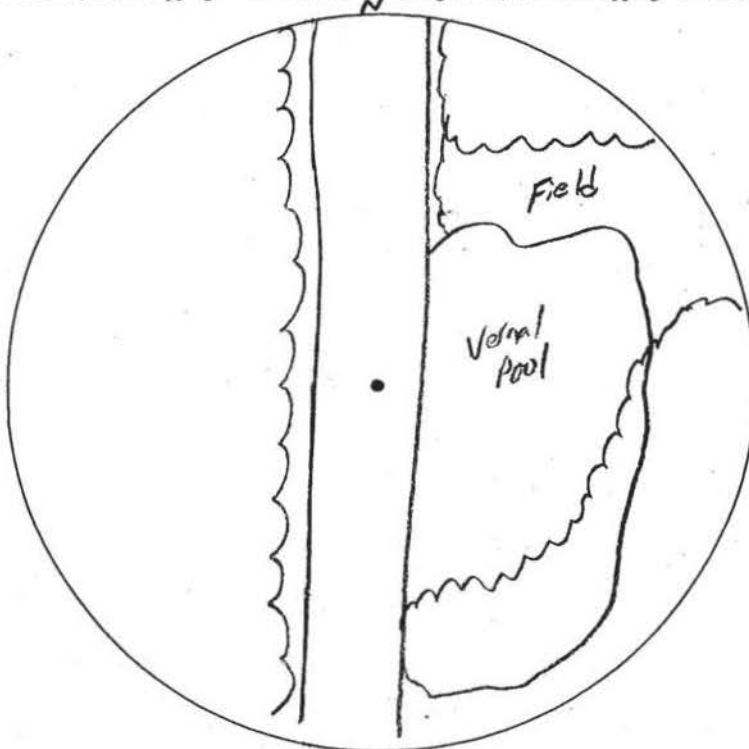
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



S

FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: W14212

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2035	42	1	0	N-1	

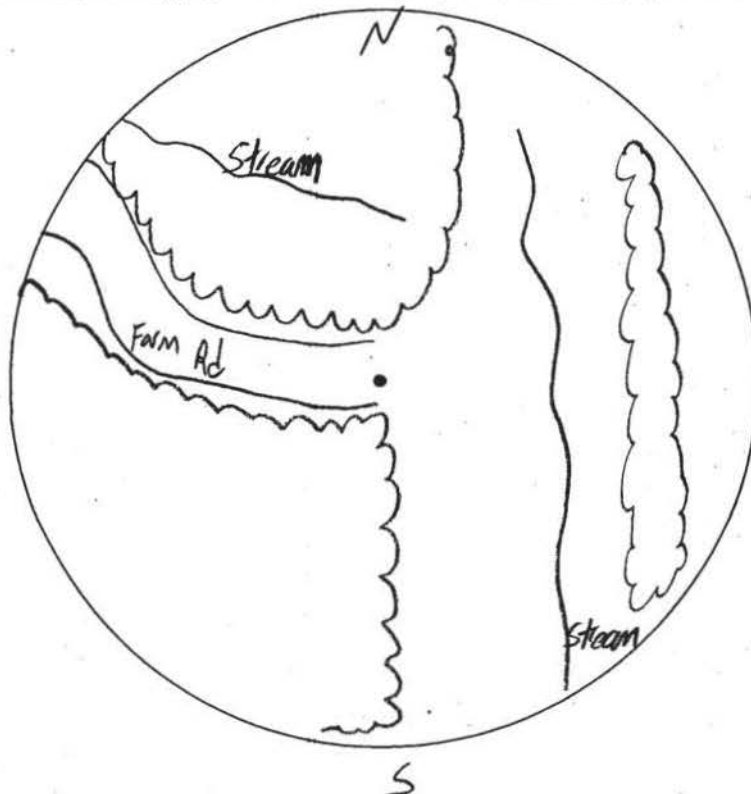
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	2	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: W1K229

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2050</u>	<u>46</u>	<u>1</u>	<u>0</u>	<u>✓</u>	

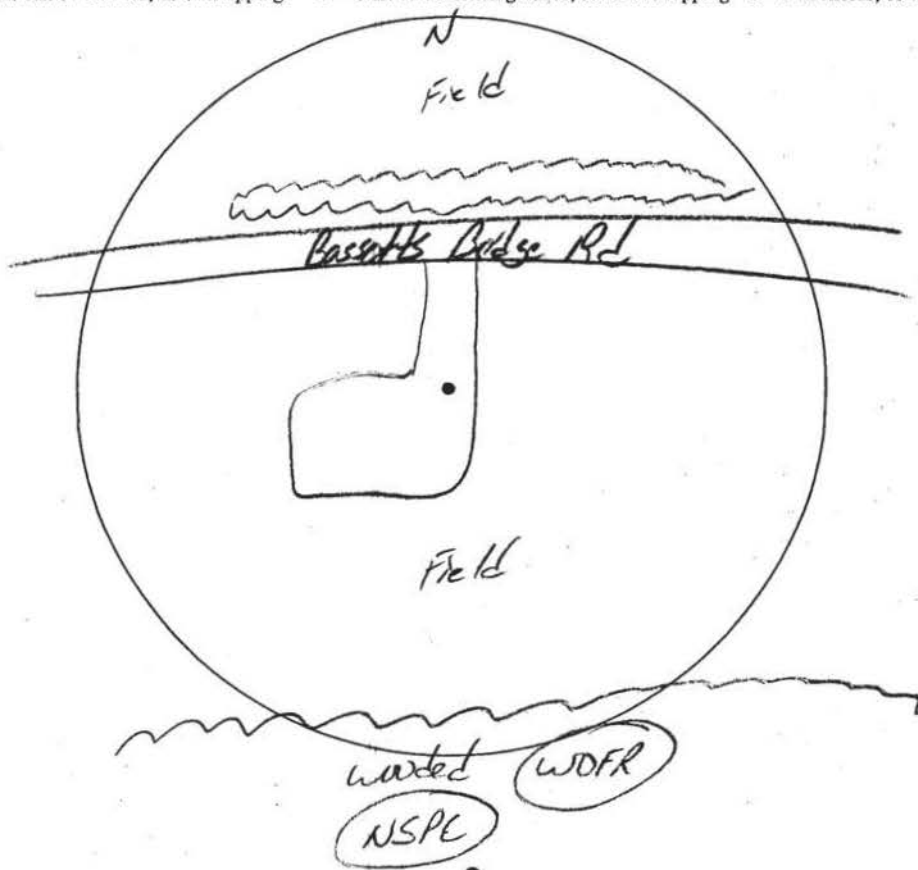
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>WOFR</u>	<u>3</u>	<u>3</u>									
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: W14 213

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2100</u>	<u>42</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

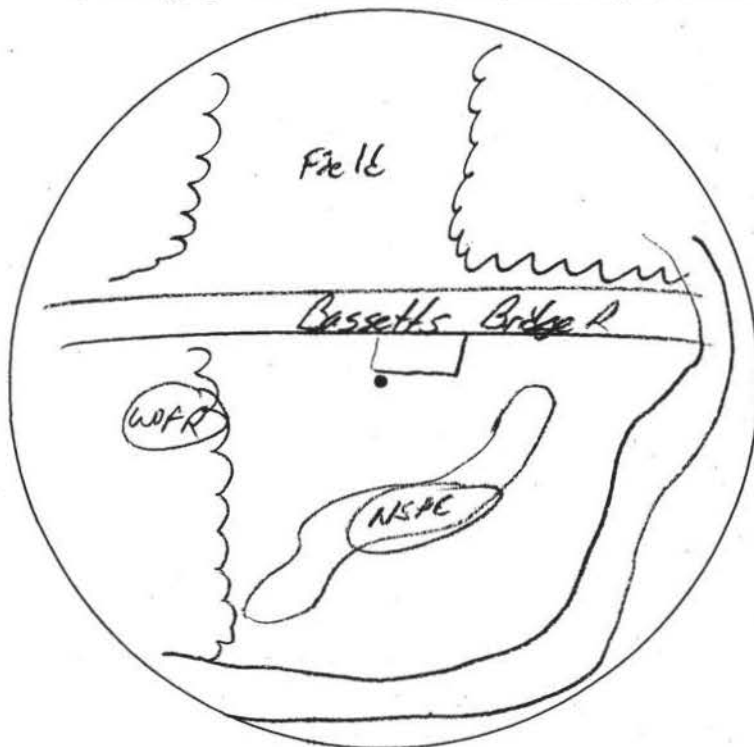
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>WDFR</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey Survey Point Field Map

Observer: Nina Holamb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
Point Number: WIK214

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2115	39	1	0	N-1	

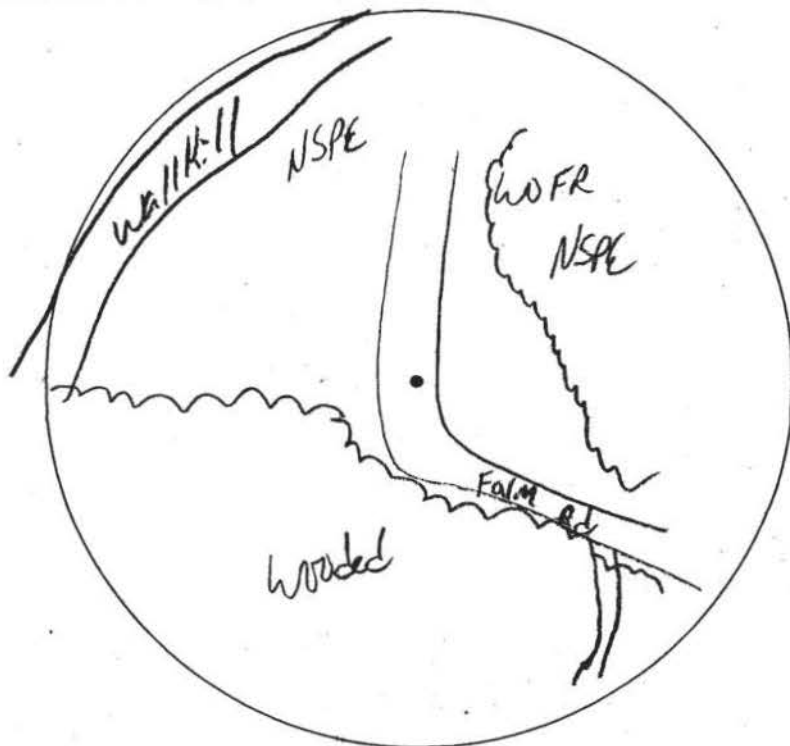
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
WDFR	1	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: W1K216

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2130	41-38	1	0	N-1	

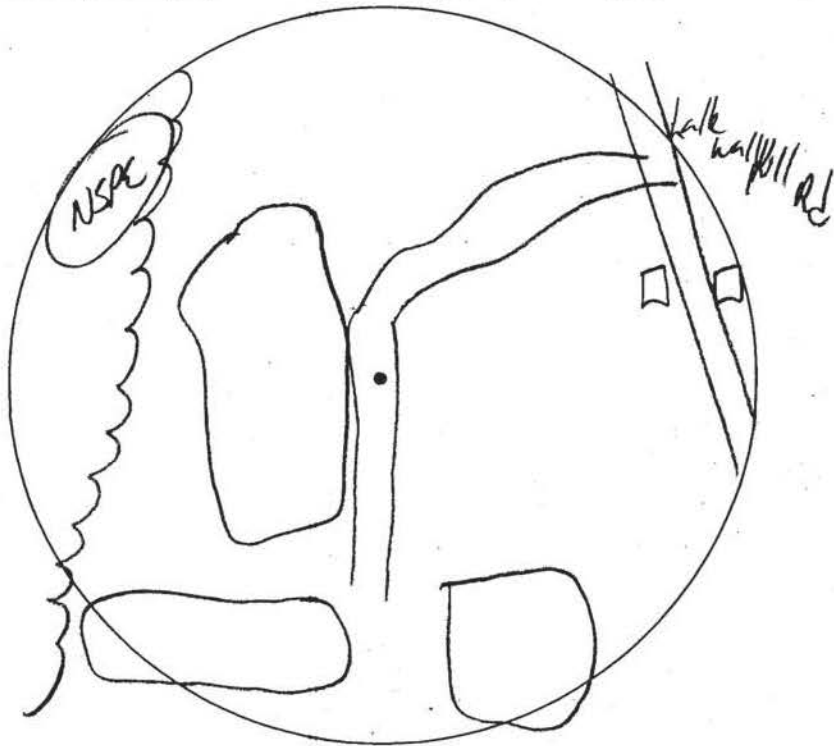
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: WIK207

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2145</u>	<u>39</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

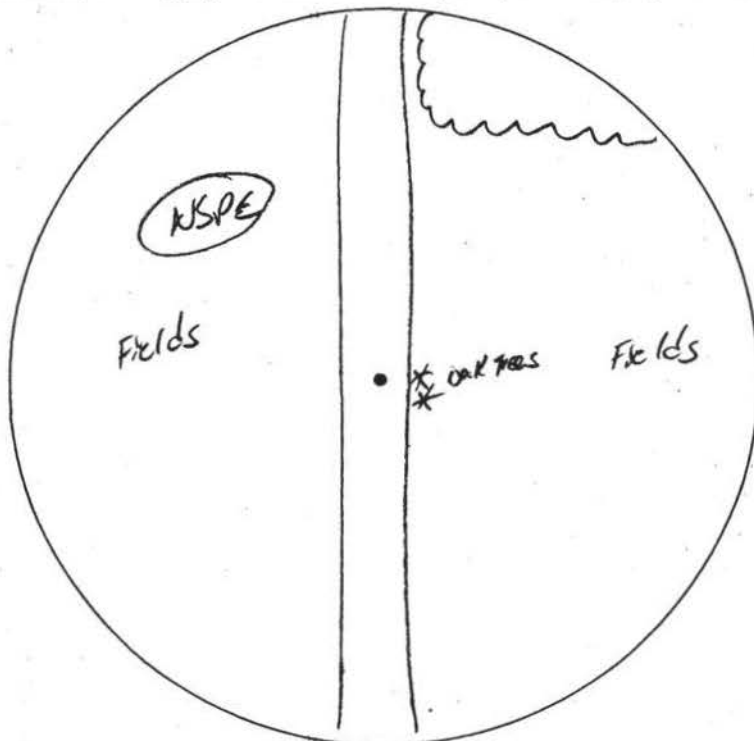
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karin Holcomb Refuge Route: north Survey Date: 4/4/01 Run Number: 1
 Point Number: WIK209

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2155	35	1	0	N-1	

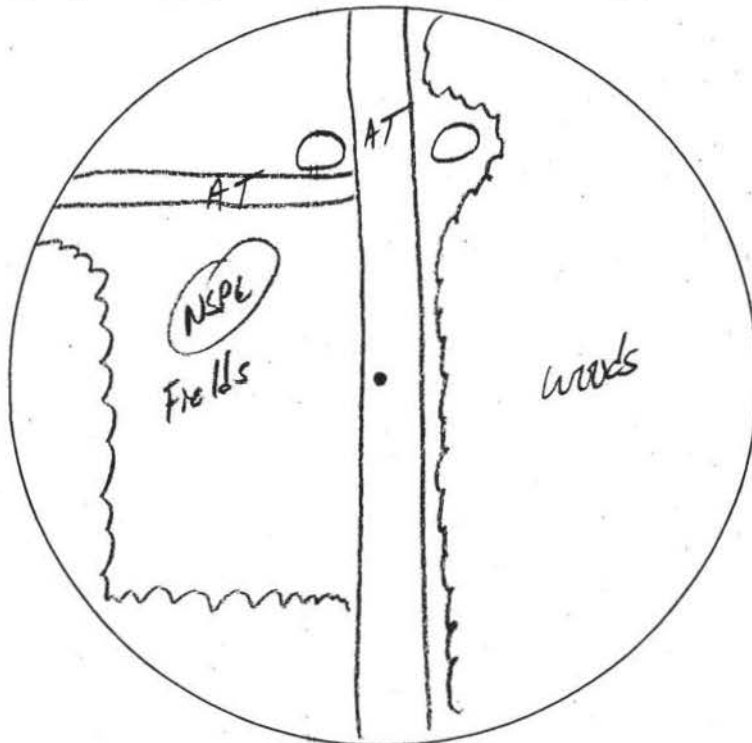
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: WIK203

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2205	36	1	0	N-1	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

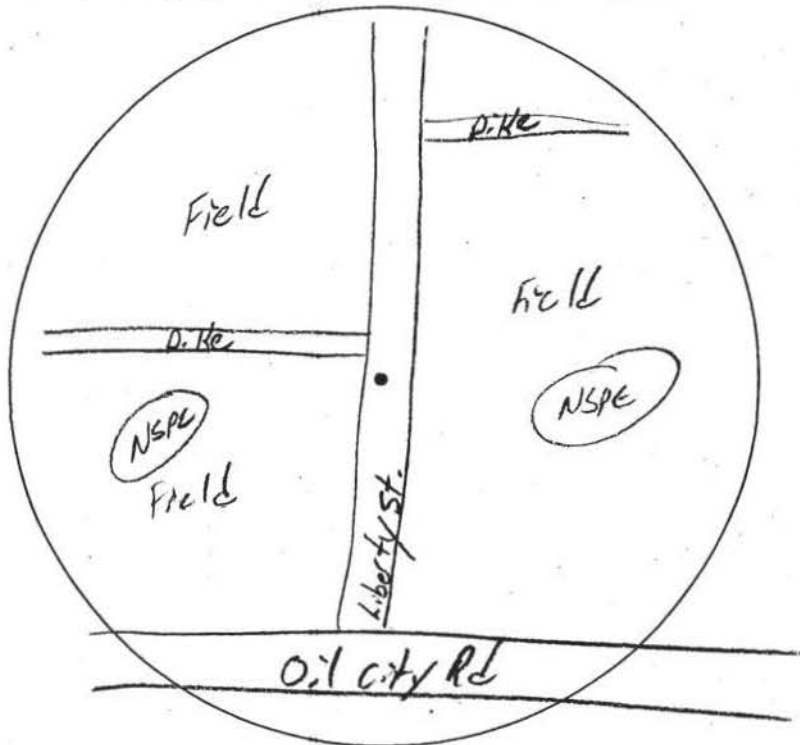
Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

CAGO
MAIL

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Keri Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: W/K 208

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2215</u>	<u>36</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

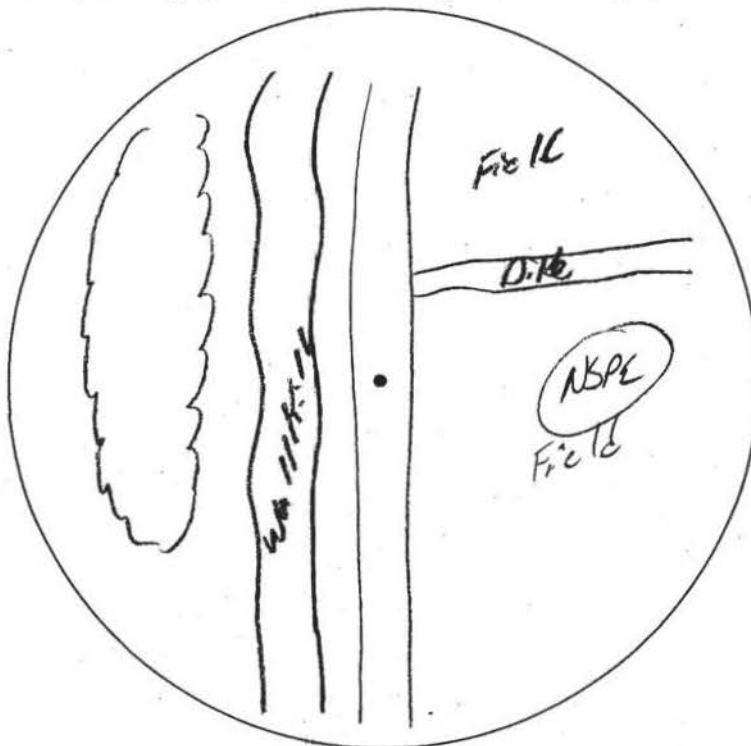
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

14/14

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/4/01 Run Number: 1
 Point Number: WIK 201

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2225	35	1	0	N-1	

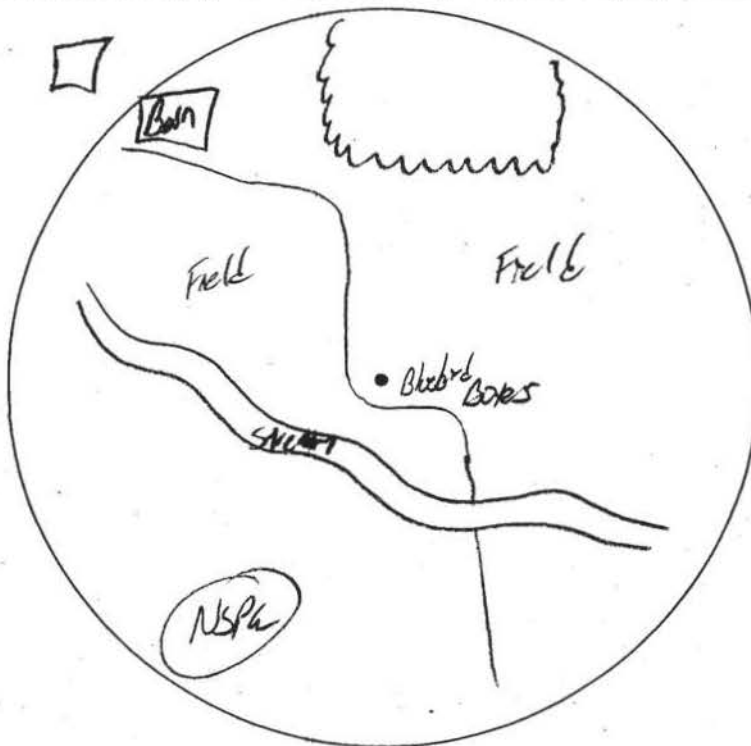
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



$\frac{1}{12}$

Observer:

Point Data

1750

*759

Sky Code: 0 = Clear / few clouds.
5 = Drizzle / light rain

1 = Partly cloudy / variable.
7 = Snow

*8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small twigs in motion.

*4 = Small branches move, raises dust and loose paper.

*5 = Small trees in leaf begin to sway, crested wavelets.

*6 = Large branches in motion.

* Unacceptable wind strengths for survey.

Refuge Route: South #76³ #76⁴ #76⁵ Survey Date: 4/5/01

	WIK 6 252		WIK 7 233		WIK 8 234		WIK 9 235		WIK 10 237	
Start Time	2130		2205		2215		2235		2245	
Air Temperature (°F)	46		42		41		42		42	
Sky Code	0		0		0		0		0	
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3	3	3	3	3	3	3
WDFR	1	1					3	3		
Comments:										

	11		12		13		14		15	
Start Time										
Air Temperature (°F)										
Sky Code										
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
Comments:										

FWS Anuran Call Count Survey Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1

Point Number: W/K 231

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>1957</u>	<u>50</u>	<u>1</u>	<u>0</u>		

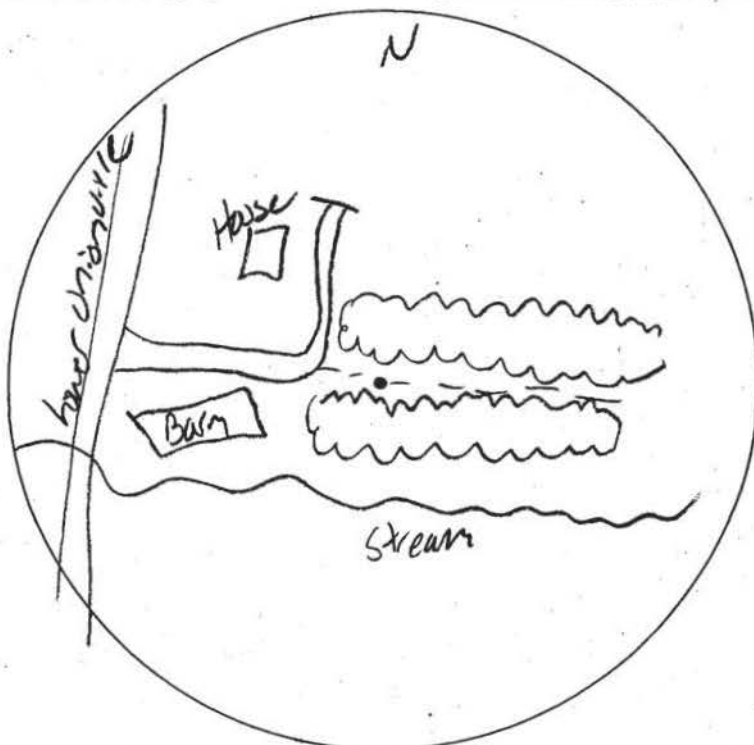
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



S

FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK 232

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2015</u>	<u>40</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

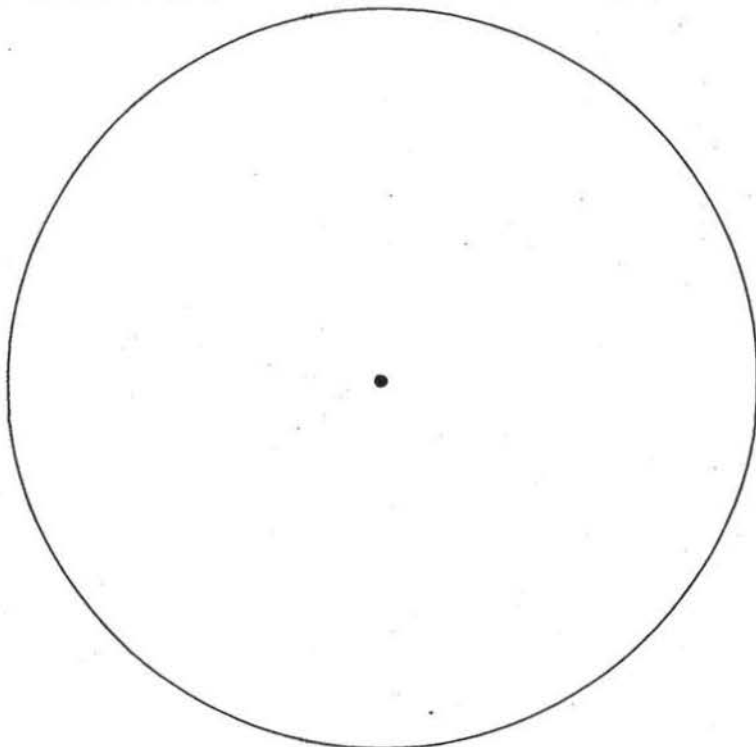
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>WDFR</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK254

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2030	41	1	0	N-1	

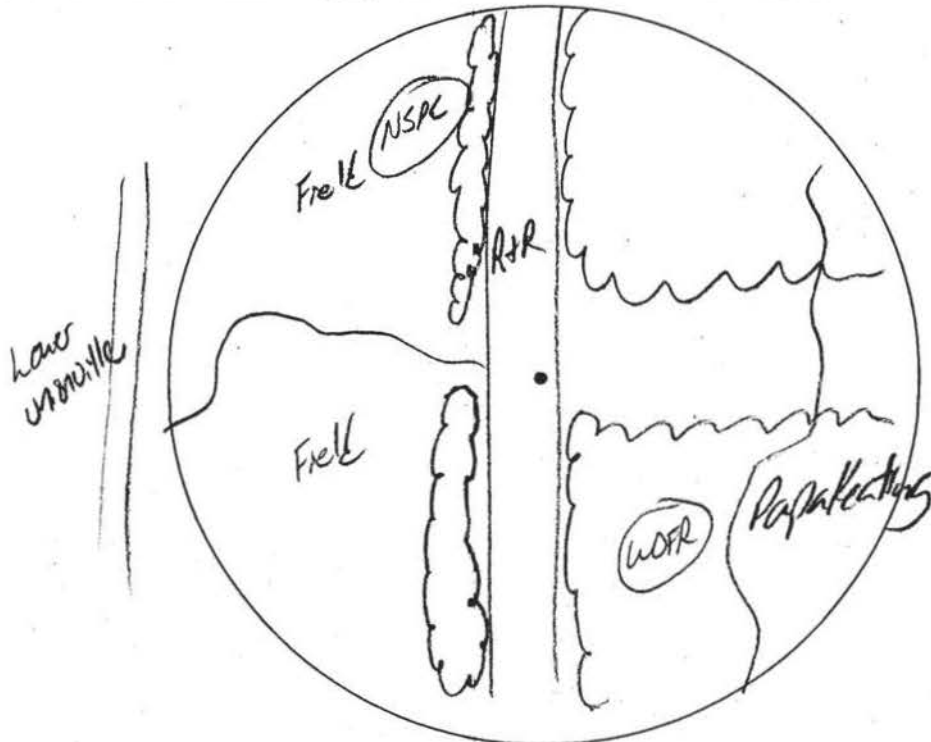
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									
WDFR	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK247

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2100</u>	<u>45</u>	<u>1</u>	<u>0</u>	<u>N-2</u>	

Sky Code: 0 = Clear / few clouds.
 5 = Drizzle / light rain

1 = Partly cloudy / variable.
 7 = Snow

2 = Cloudy (broken) or overcast.
 *8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small twigs in motion.* Unacceptable wind strengths for survey.

*4 = Small branches move, raises dust and loose paper.

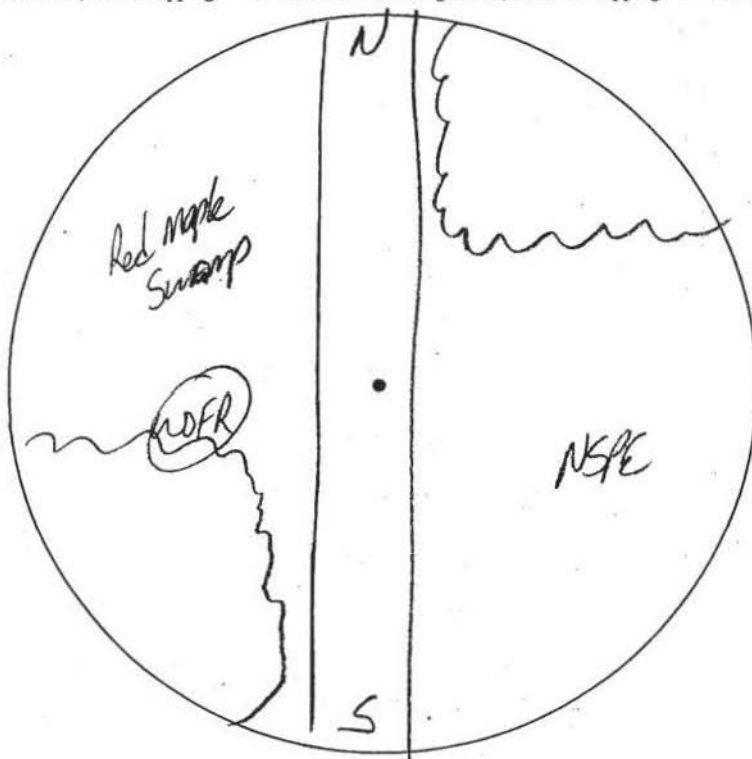
*5 = Small trees in leaf begin to sway, crested wavelets.

*6 = Large branches in motion.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>WOFR</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Nancy Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK 250

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2120	46	0	0	N-2	

Sky Code: 0 = Clear / few clouds.
 5 = Drizzle / light rain

1 = Partly cloudy / variable.
 7 = Snow

2 = Cloudy (broken) or overcast.
 *8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small twigs in motion.* Unacceptable wind strengths for survey.

*4 = Small branches move, raises dust and loose paper.

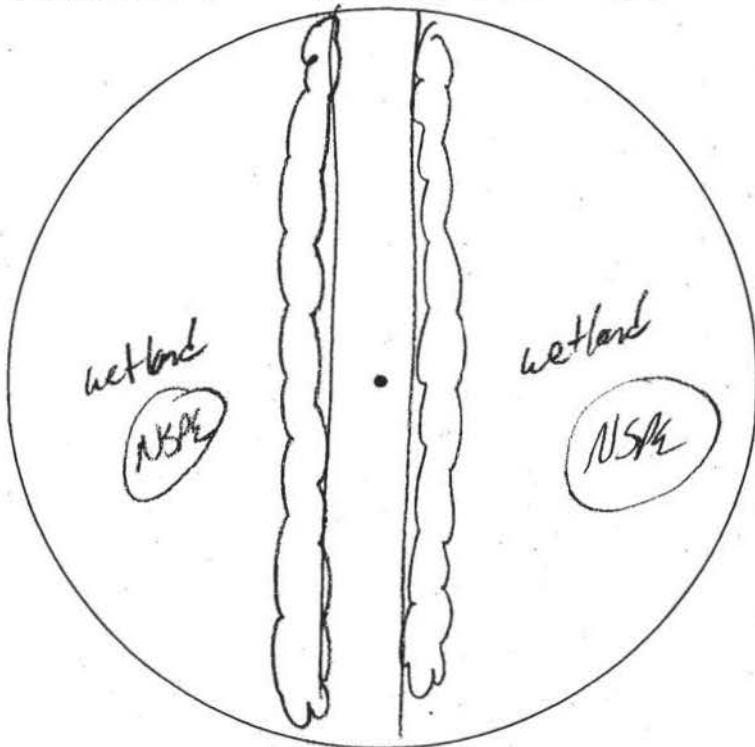
*5 = Small trees in leaf begin to sway, crested wavelets.

*6 = Large branches in motion.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 8/12/01 Run Number: 1
 Point Number: W114252

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2130	46	0	0	N-2	

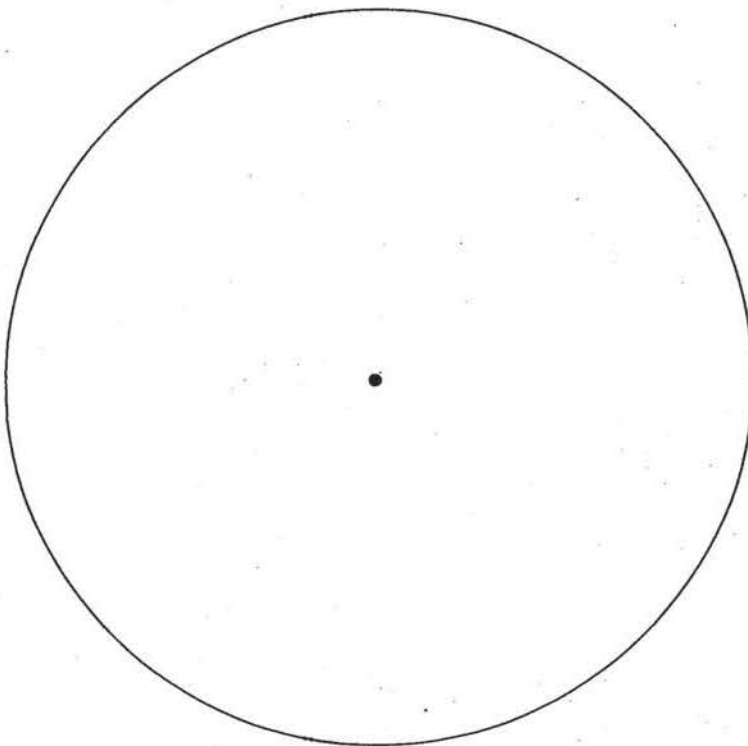
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
WDFR	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
Point Number: WIK233

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2205</u>	<u>42</u>	<u>0</u>	<u>0</u>	<u>N-2</u>	

Sky Code: 0 = Clear / few clouds.
5 = Drizzle / light rain

1 = Partly cloudy / variable.
7 = Snow

2 = Cloudy (broken) or overcast.
*8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small twigs in motion.* Unacceptable wind strengths for survey.

*4 = Small branches move, raises dust and loose paper.

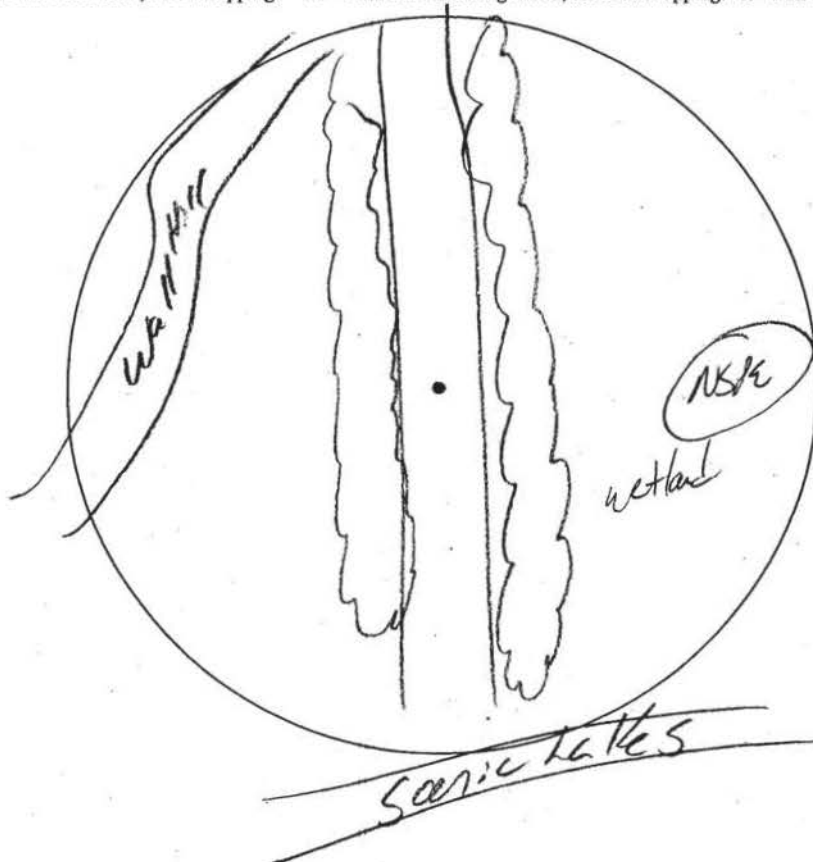
*5 = Small trees in leaf begin to sway, crested wavelets.

*6 = Large branches in motion.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

10/12

Observer: Karen Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK234

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2215	41	0	0	NA	

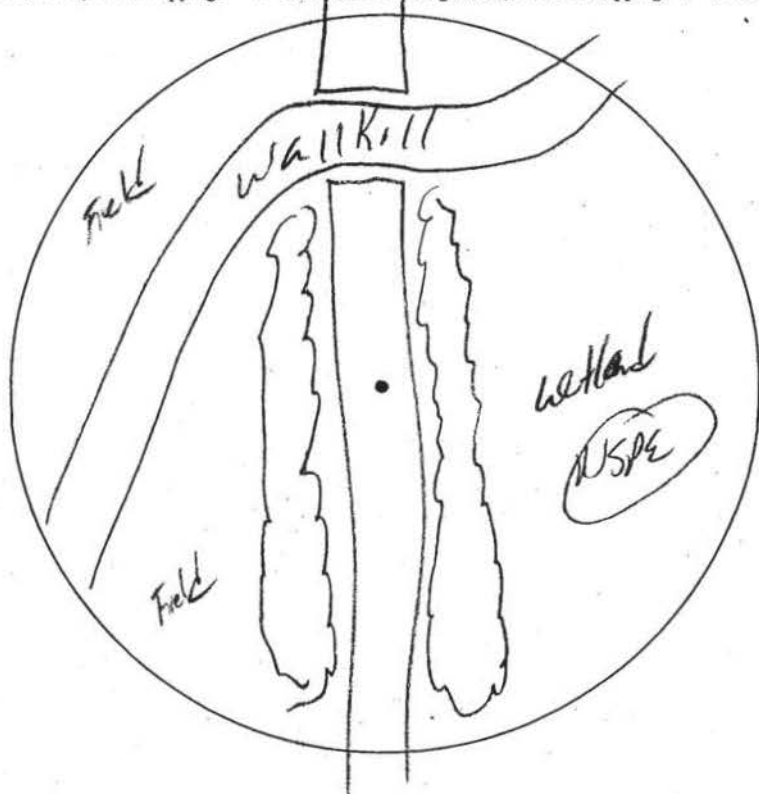
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen H. Lamb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: WIK235

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2235	42	0	0		

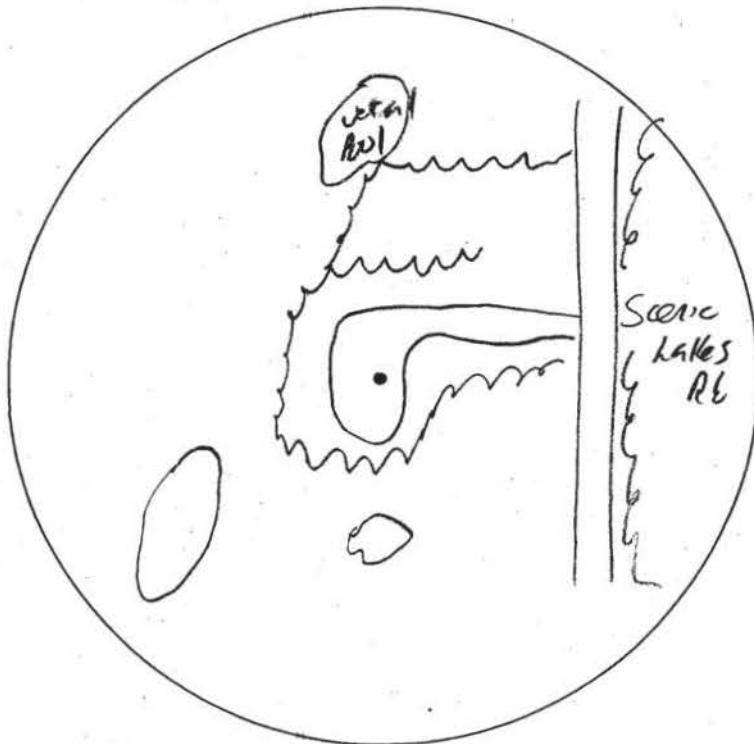
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
WDFR	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

12/12

Observer: Kevin Holcomb Refuge Route: South Survey Date: 4/5/01 Run Number: 1
 Point Number: W/K237

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2245	42	0	0	N-1	

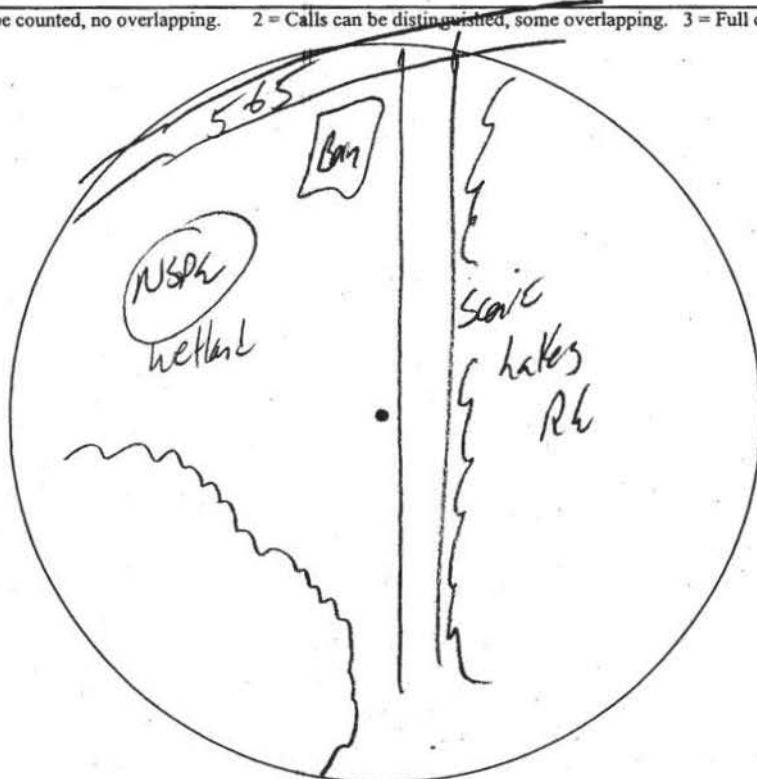
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



✓ Entered in Census

Survey Date: 4/19/01 Run Number: 1

	Time	Temp (°F)	Wind Scale	Sky Code
Start	2018	57	1	1
Finish	2222	55	1	1

#751

752
Point Data

#753

754

755

[illegible]

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Sky Code: 0 = Clear / few clouds, 1 = Partly cloudy / variable, 2 = Cloudy (broken) or overcast, 4 = Fog / Smoke
5 = Drizzle / light rain, 7 = Snow, *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * *Unacceptable wind strengths for survey.*

Refuge Route:

Central

#825

#750

757
+758

Survey Date:

4/10/0

	WIK 6 255		WIK 7 205		WIK 8 228		9		10	
Start Time	2140		2200		2217					
Air Temperature (°F)	52		51		55					
Sky Code	1		1		1					
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3	3	3				
WOFB				3	3	3				

Comments:

	11		12		13		14		15	
Start Time										
Air Temperature (°F)										
Sky Code										
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.

Comments:

FWS Anuran Call Count Survey

Survey Point Field Map

3/10

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 4/10/01 Run Number: 1
 Point Number: W/K 239

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2018	57	1	1		

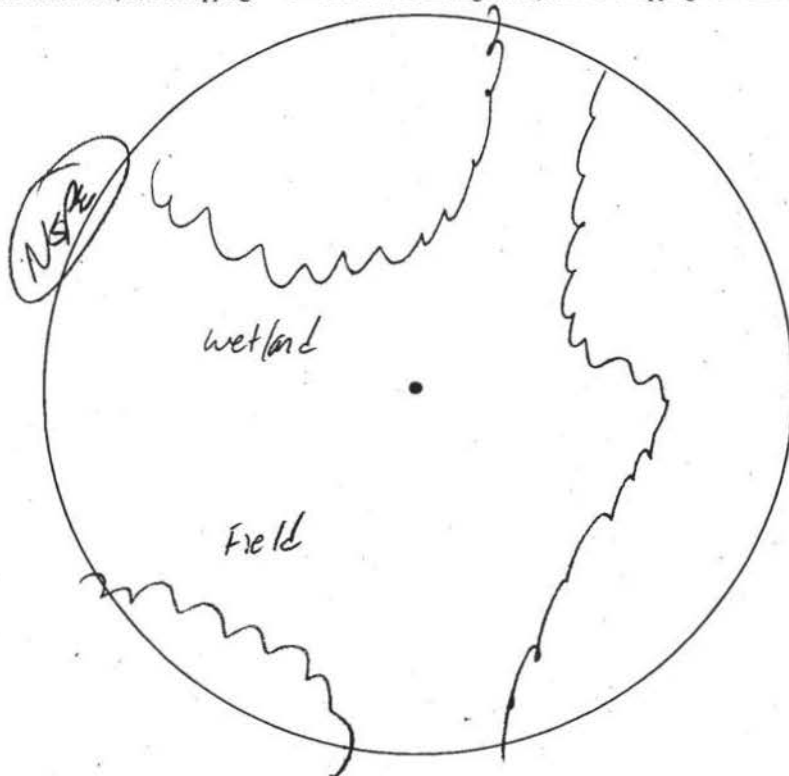
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: K. Holcomb Refuge Route: Central Survey Date: 4/10/01 Run Number: 1
 Point Number: WIK244

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2030	53	1	0		

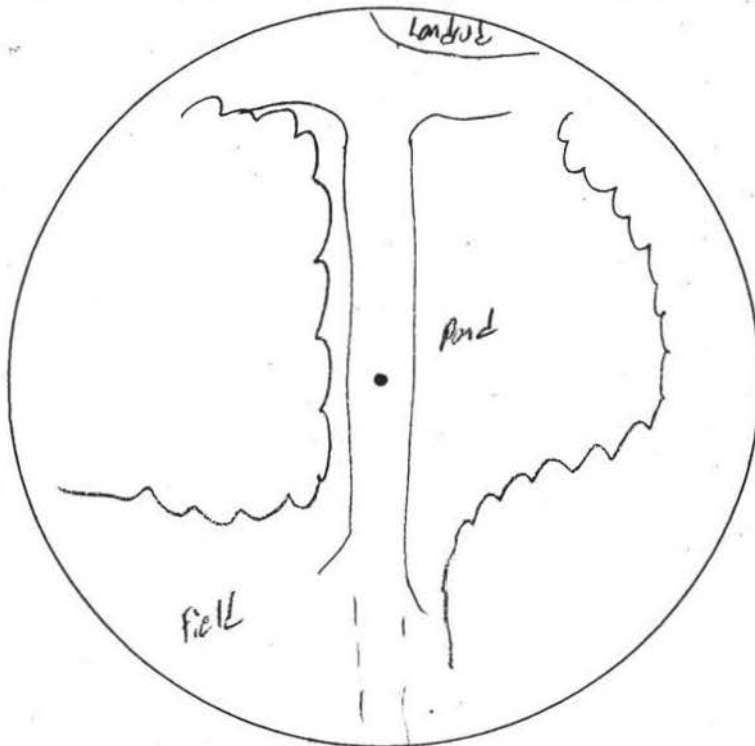
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karin Holcomb Refuge Route: Central Survey Date: 4/10/01 Run Number: 1
 Point Number: W14243

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2050	52	1	0		

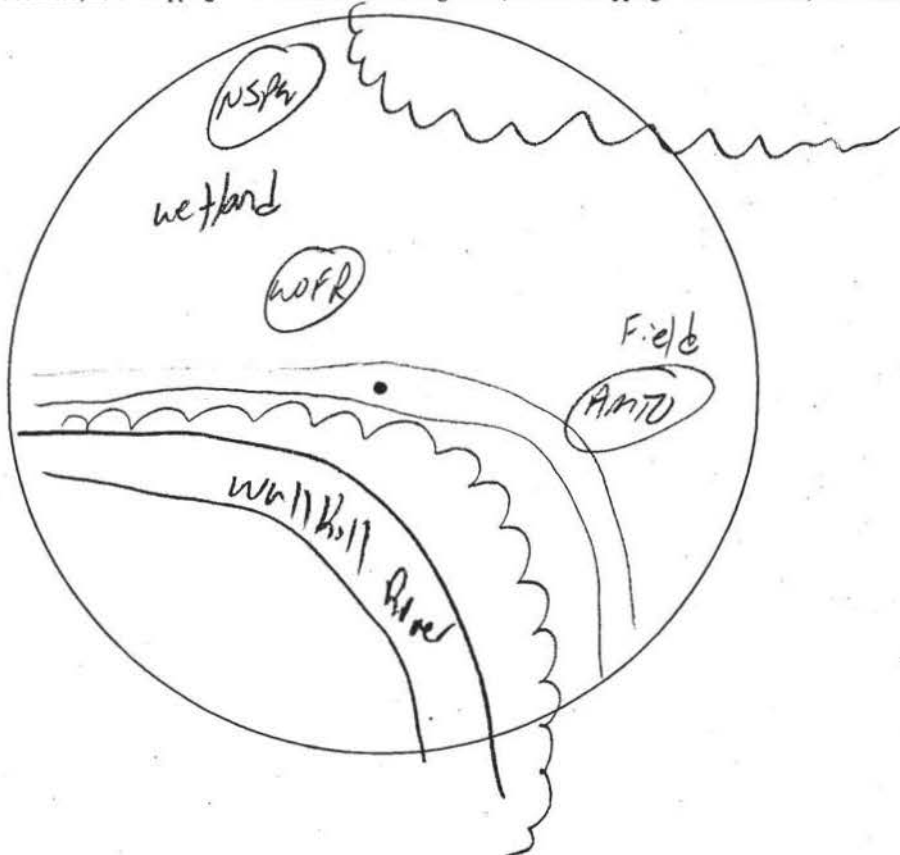
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
WDFR	3	3									
AKPC	3	3									
AMTO	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 4/14/01 Run Number: 1
 Point Number: WIK 241

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2:00</u>	<u>52</u>	<u>1</u>	<u>0</u>		

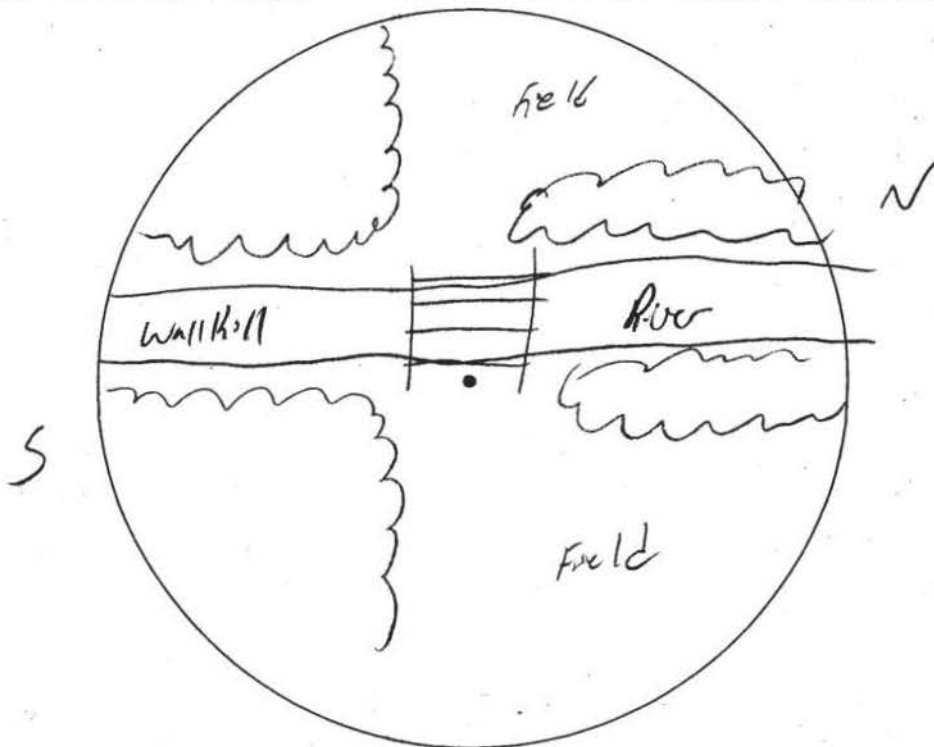
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: central Survey Date: 4/10/01 Run Number: 1
 Point Number: W1K240

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2100	52	1	1		

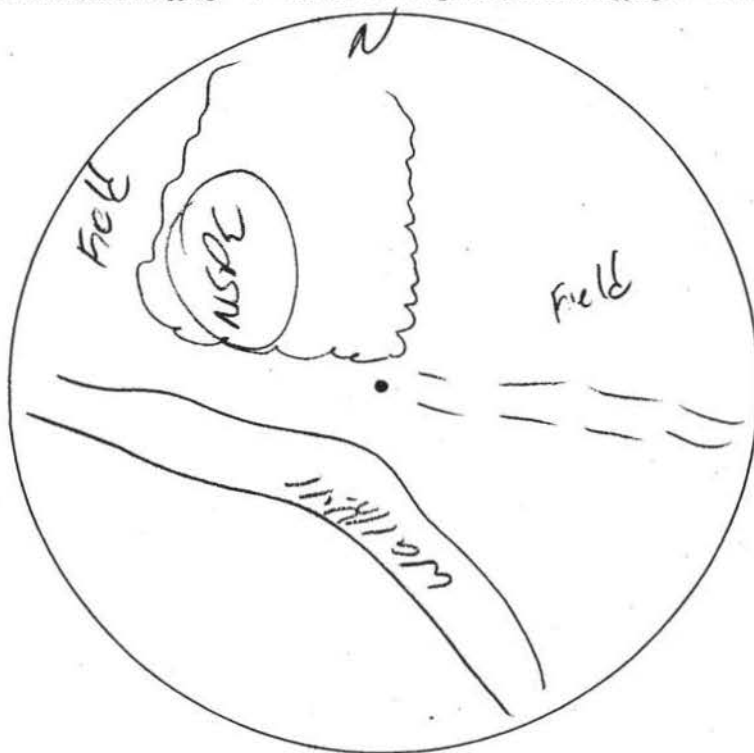
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
USPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

8/10

Observer: Karen Hilcomb Refuge Route: Central Survey Date: 4/10/01 Run Number: 1
 Point Number: WIK255

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2140	52	1	1	N-1	

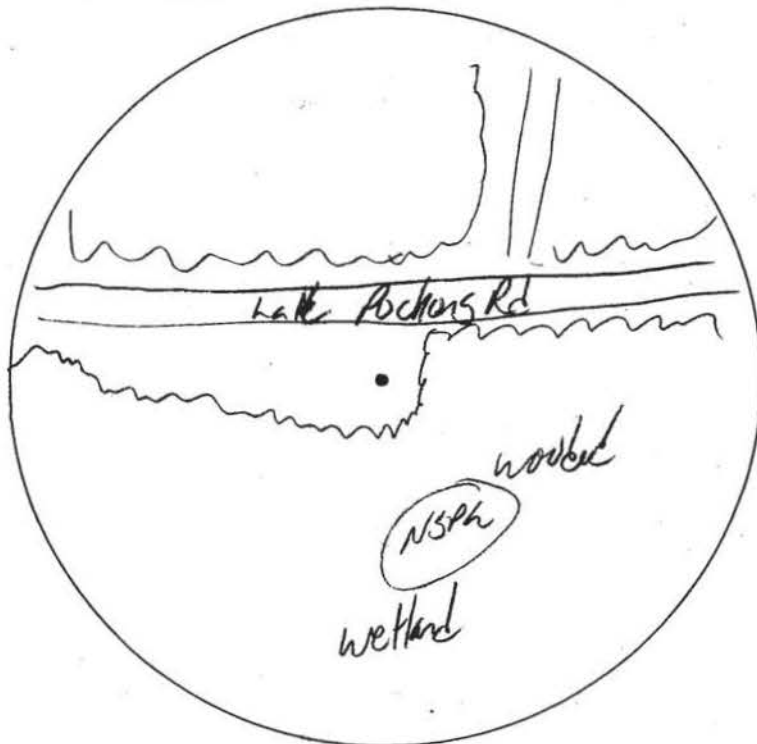
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

9/10

Observer: Karin Holcomb Refuge Route: Central Survey Date: 4/10/12 Run Number: 1
 Point Number: W1K223 ^{25?}
Land-L #74

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2200	51	1	1		

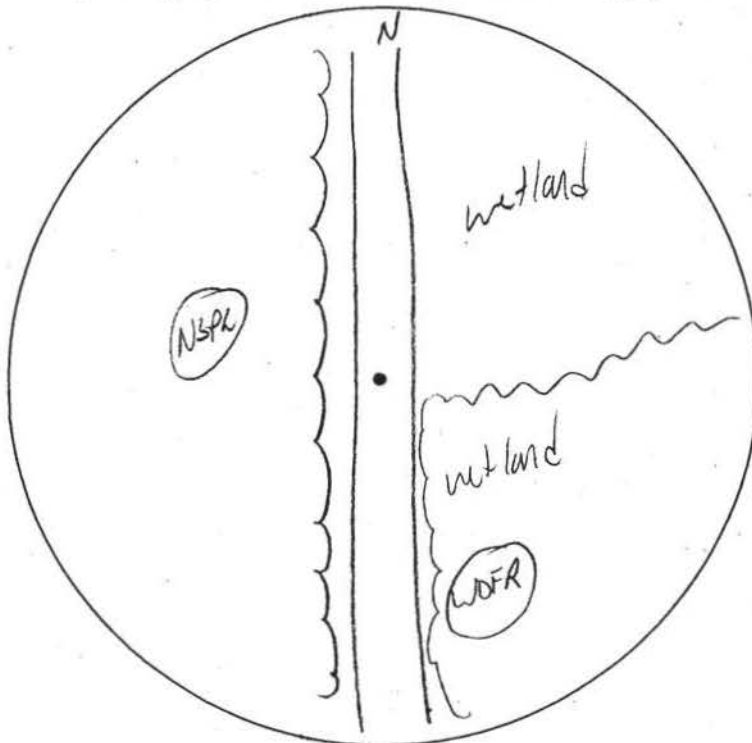
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
WFR		3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

10/10

Observer: Kevin Holcomb Refuge Route: Centa 1 Survey Date: 9/14/01 Run Number: 1
 Point Number: W/K 228

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2217	55	1	1		

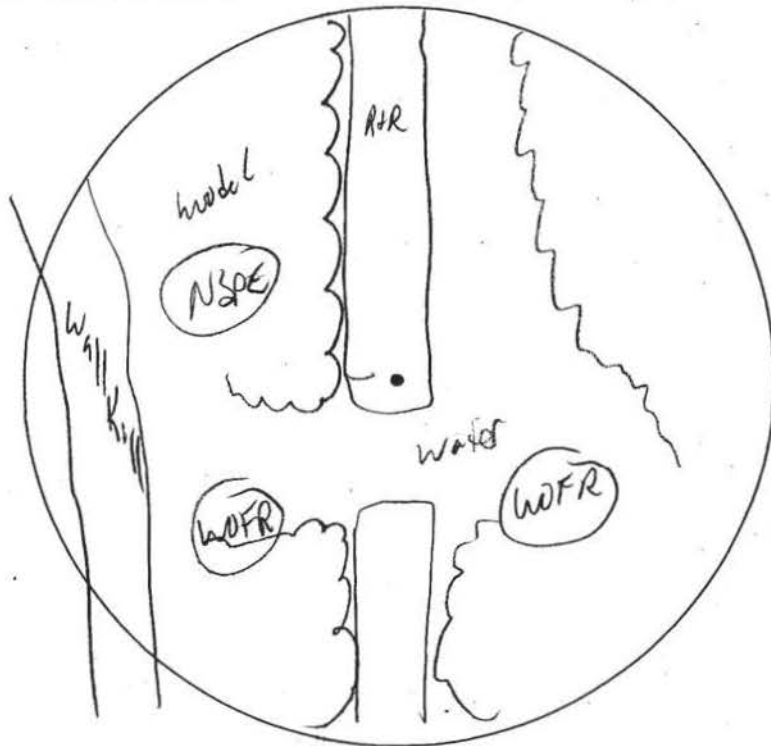
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPL	3	3									
WAFR	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



Observer: Kevin Hickomb Refuge Route: Central Survey Date: 4/30/01 Run Number: 2

	Time	Temp (°F)	Wind Scale	Sky Code
Start	2100	58	1	0
Finish	2215	63	2	0

4790

79/ Point Data

792

793

794

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

4 = Fog / Smoke

3 = Gentle breeze, leaves and small twigs in motion.

* Unacceptable wind strengths for survey.

Refuge Route:

Central

#827

Survey Date:

2

[illegible]

	11		12		13		14		15	
Start Time										
Air Temperature (°F)										
Sky Code										
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
Comments:										

FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 4/30/01 Run Number: 2
 Point Number: W1K240

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2100</u>	<u>58</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

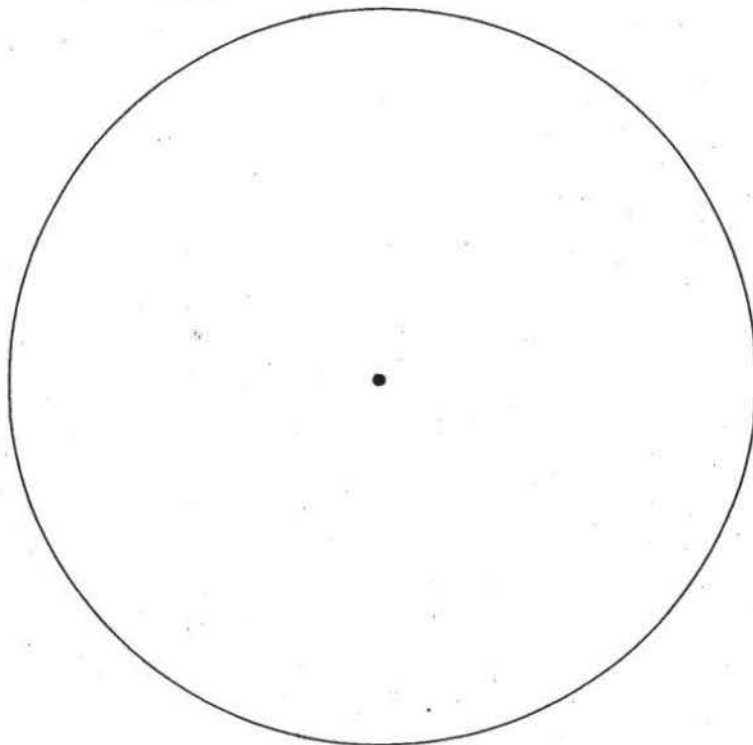
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen Holcomb Refuge Route: Central Survey Date: 4/30/01 Run Number: 2
 Point Number: W1K241

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>7:15</u>	<u>56</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

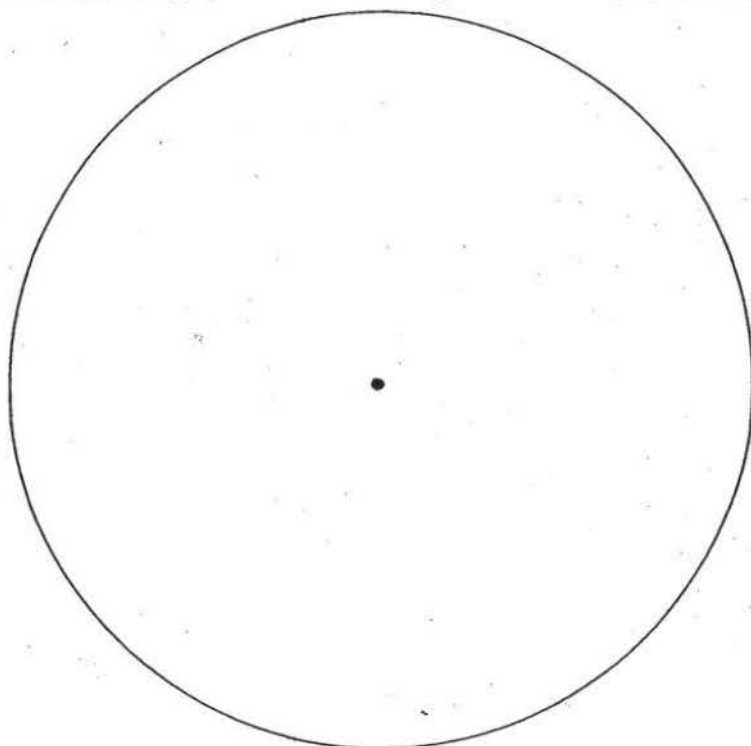
Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.

Very far
NSPE



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen H. Lamb Refuge Route: Catch 1 Survey Date: 4/30/01 Run Number: 2

Point Number: W114243

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2/22	55	1	0	N-1	

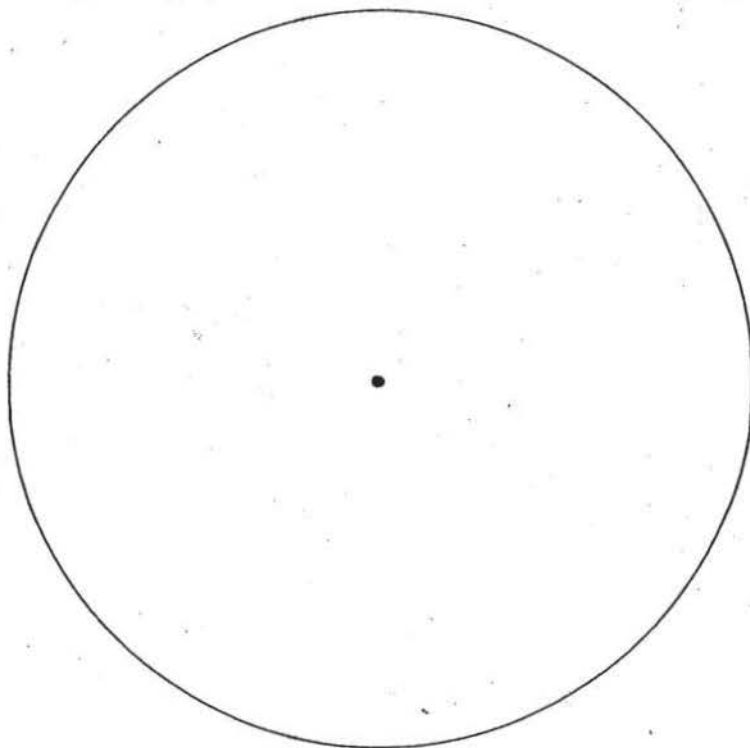
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain. 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
GRFR	1	1									
PIFR	1	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 4/20/01 Run Number: 2
 Point Number: WIK244

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2138</u>	<u>61</u>	<u>2</u>	<u>0</u>	<u>N-1</u>	

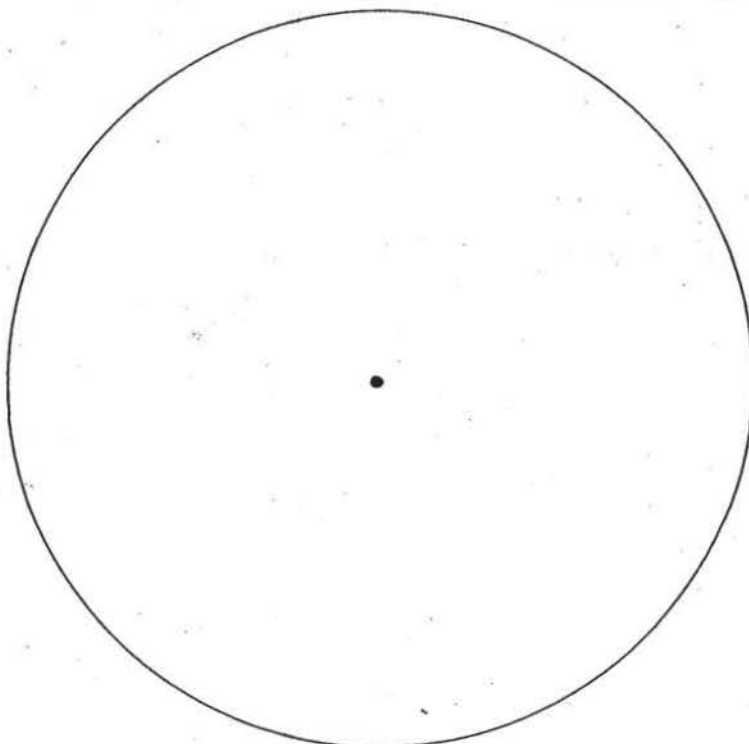
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>PIFR</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 4/24/01 Run Number: 2

Point Number: WLK 239

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2150</u>	<u>56</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

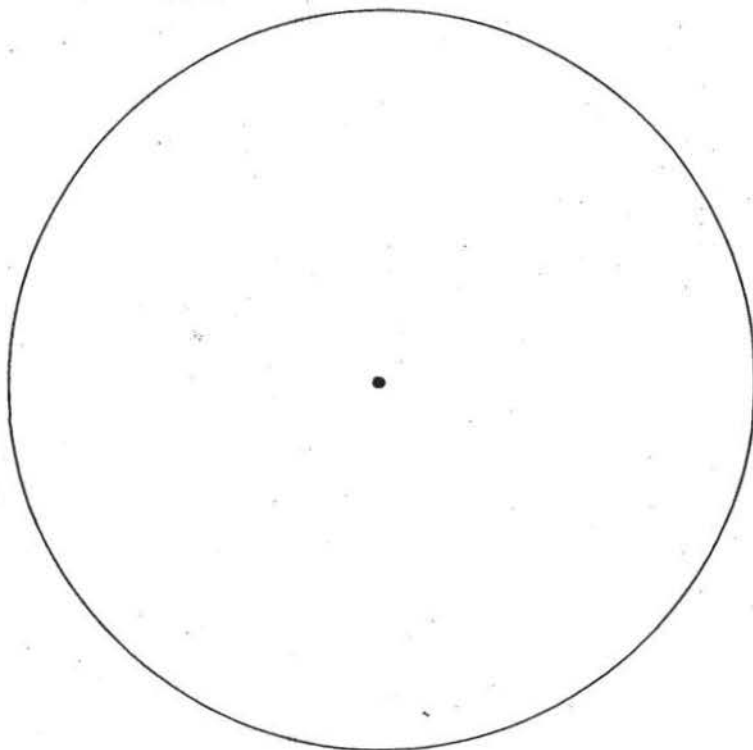
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: Centra 1 Survey Date: 4/30/01 Run Number: 2

Point Number: WIK 255

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2210</u>	<u>63</u>	<u>2</u>	<u>0</u>	<u>N-1</u>	

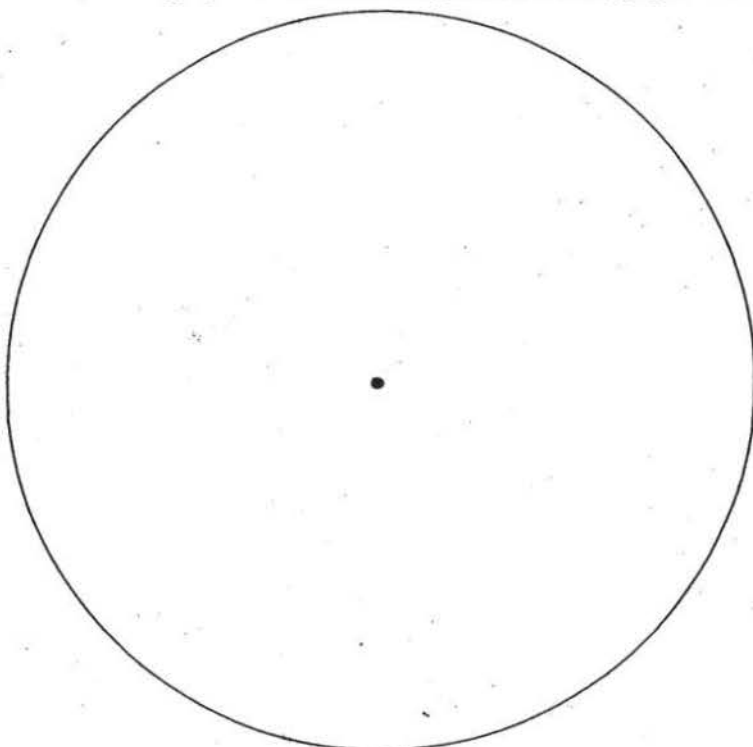
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSP</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



Observer: Kevin Holcomb Refuge Route: central / south Survey Date: 5/1/01 Run Number: 2

	Time	Temp (°F)	Wind Scale	Sky Code
Start	2038	68	0	0
Finish	2309	58	1	0

#779

780

Point Data

791

782

skipped

(#826

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Sky Code: 0 = Clear / few clouds.
5 = Drizzle / light rain

1 = Partly cloudy / variable.
7 = Snow

2 = Cloudy (broken) or overcast.

*8 = Showers (do not conduct survey)

4 = Fog / Smoke

Wind Scale: 0 = Smoke rises vertically.

1 = Light air movement, smoke drifts.

2 = Wind felt on face, leaves rustle.

3 = Gentle breeze, leaves and small

*4 = Small branches move, raises dust and loose paper.

*5 = Small trees in leaf begin to sway, crested wavelets.

*6 = Large branches in motion.

3 = Gentle breeze, leaves and small twigs in motion. * *Unacceptable wind strengths for survey.*

Refuge Route: SouthSurvey Date: 2787

	<u>783</u>		<u>784</u>		<u>785</u>		<u>786</u>		<u>787</u>	
	WIK ⁶ 247		WIK ⁷ 252		WIK ⁸ 250		WIK ⁹ 237		WIK ¹⁰ 235	
Start Time	2205		2215		2222		2241		2246	
Air Temperature (°F)	62		61		61		62		62	
Sky Code	0		0		0		0		0	
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3	3	3	3	3	3	3
PIFR		1								
AMTO			3	3	2	2	1	1		

Comments:

	<u>788</u>		<u>789</u>		13		14		15	
	WIK ¹¹ 233		WIK ¹² 234							
Start Time	2300		2309							
Air Temperature (°F)	60		58							
Sky Code	0		0							
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3						
GRFR	1	1								
AMTO	2	2								
GRAT			1	1						

Comments:

FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kenn Holcomb Refuge Route: Central Survey Date: 5/4/01 Run Number: 2
 Point Number: W/K228

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2038	68	0	0	N-1	

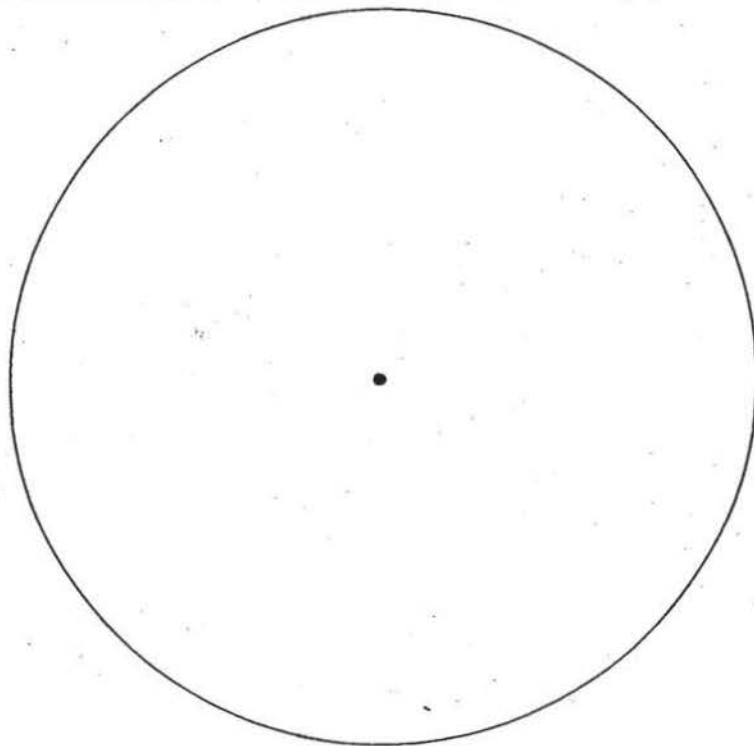
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kev & Hilcomb Refuge Route: Central Survey Date: 5/4/01 Run Number: 2
 Point Number: WIK 225

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2045	68	0	0	N-1	

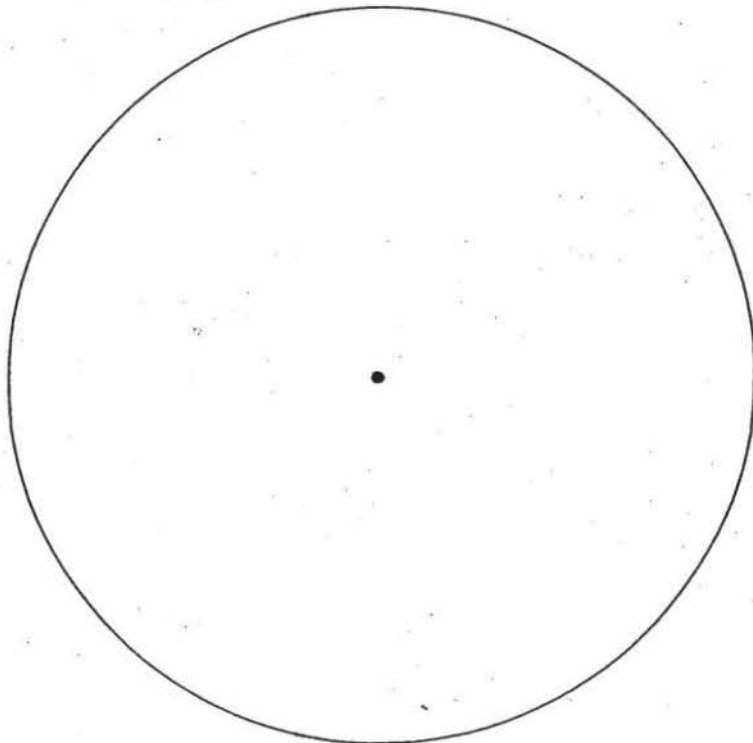
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: SATH Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK231

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2/10</u>	<u>62</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

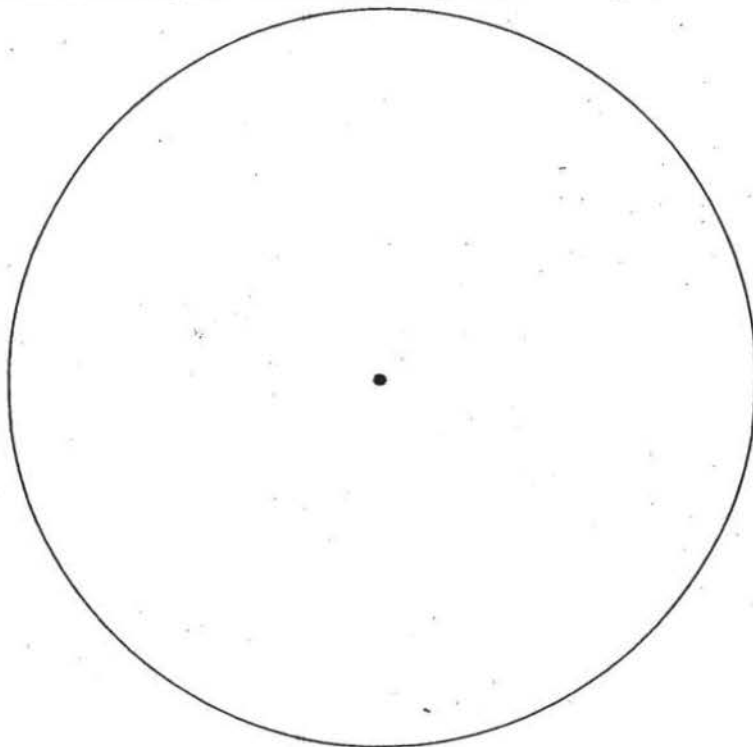
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>USPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kerry Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: W/K 232

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2:28</u>	<u>60</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

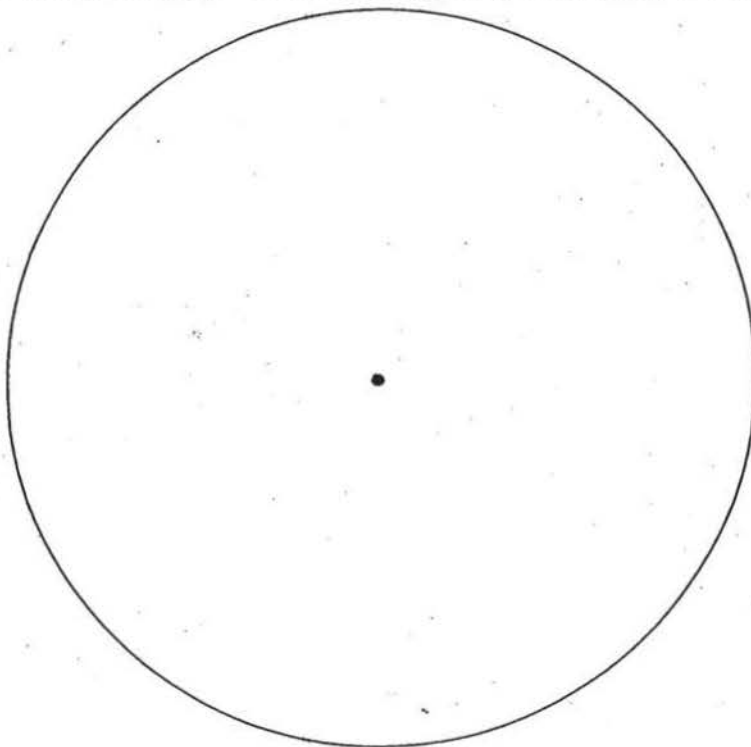
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: W1K254

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2135	59	1	0	N-1	

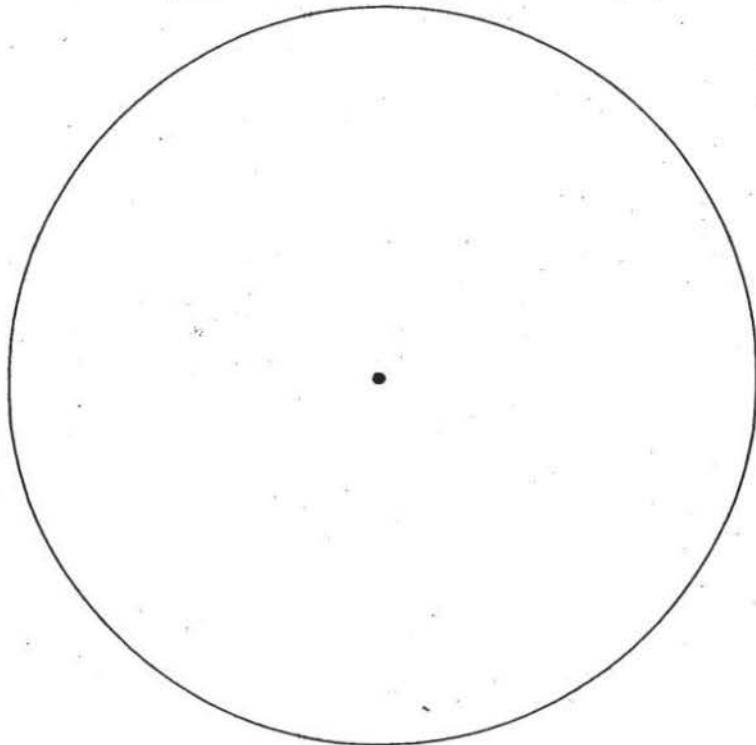
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
USPE	3	3									
AMTD	1	1									
GRAT	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin H. Lamb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: W1K247

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2205</u>	<u>62</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

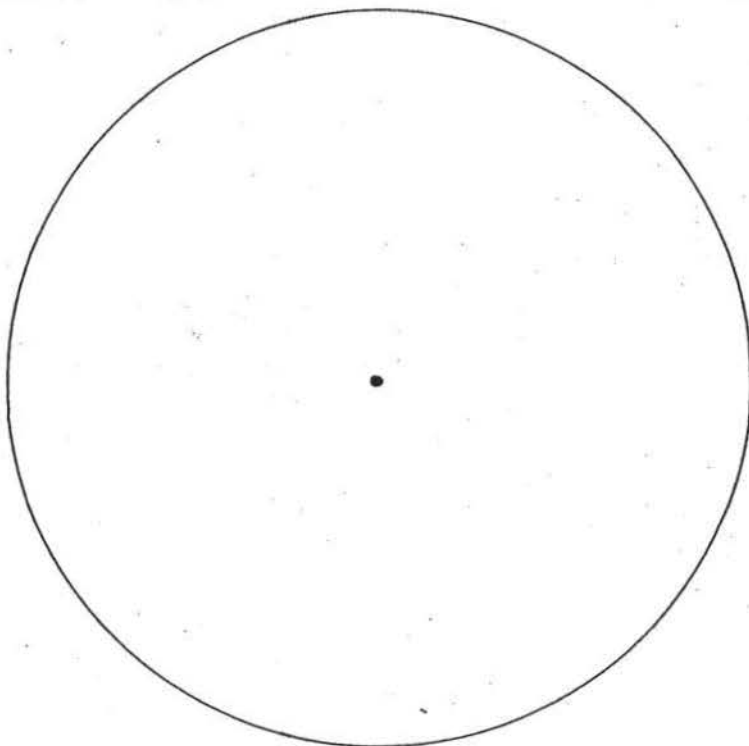
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>PIFR</u>		<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK252

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2215</u>	<u>61</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

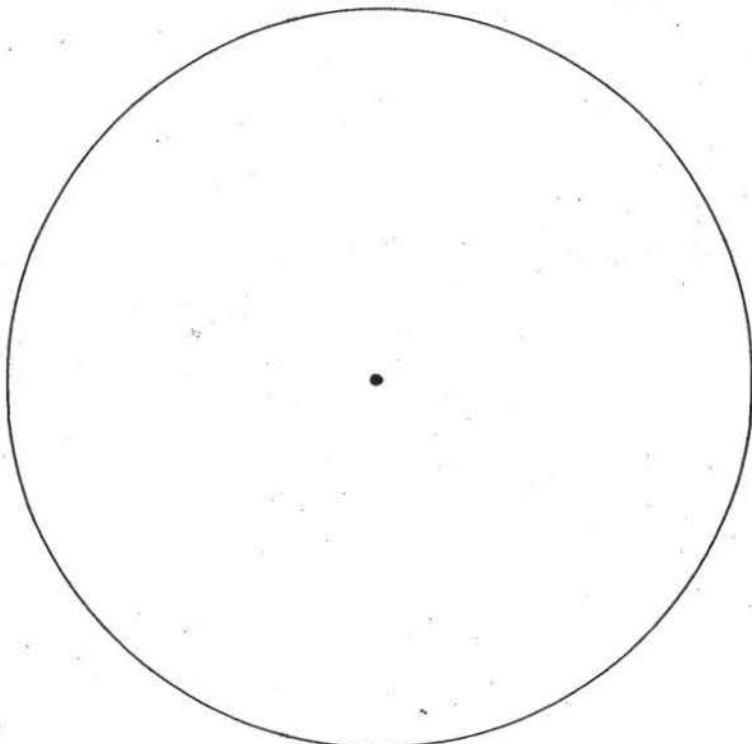
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>AMTO</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: W/K250

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2222</u>	<u>61</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

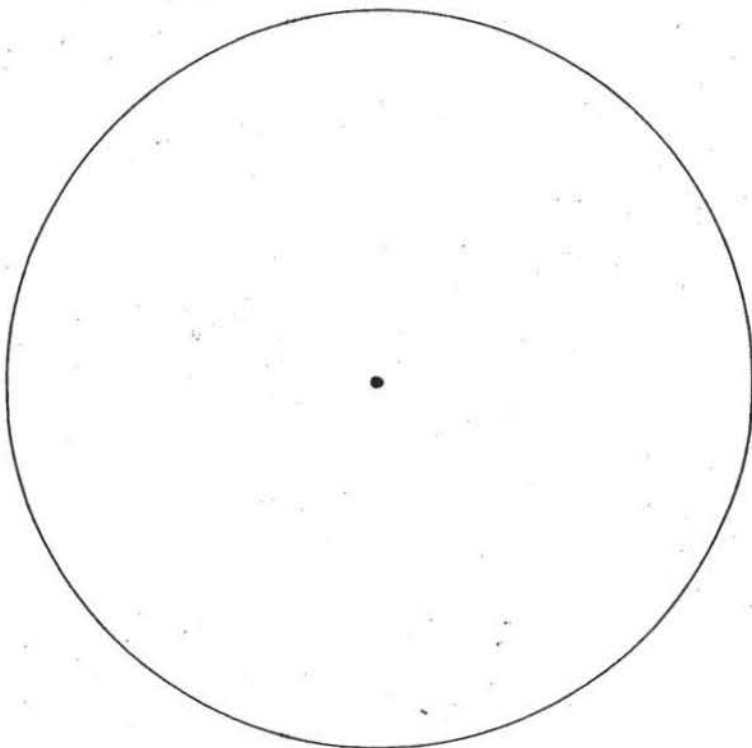
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>AMTO</u>	<u>2</u>	<u>2</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK237

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2241	62	1	0	N-1	

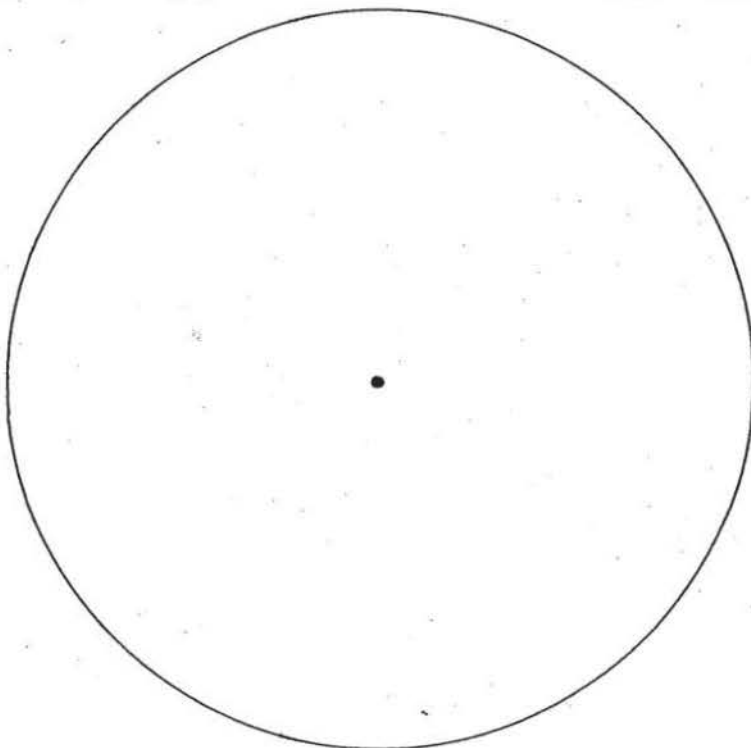
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
AMTD	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK235

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2246</u>	<u>62</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

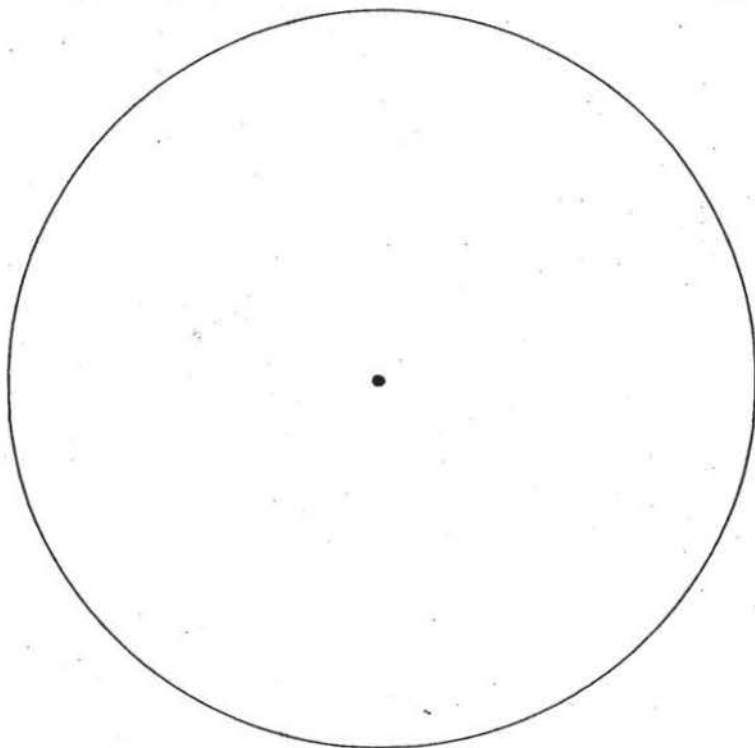
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin H. Lamb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK233

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2300	60	1	0	N-1	

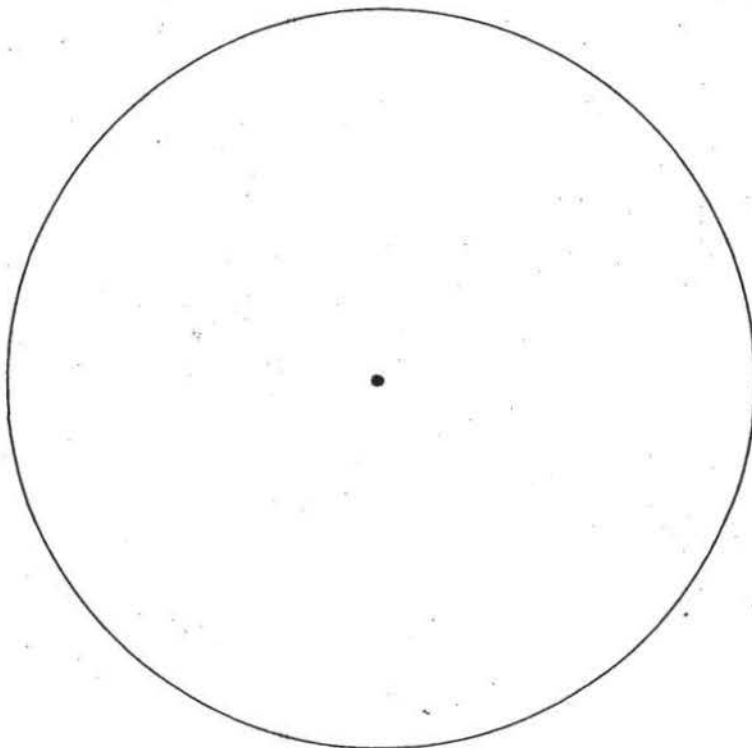
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									
GRFR	1	1									
AMTD	2	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Katy Holcomb Refuge Route: South Survey Date: 5/1/01 Run Number: 2
 Point Number: WIK234

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2309</u>	<u>58</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

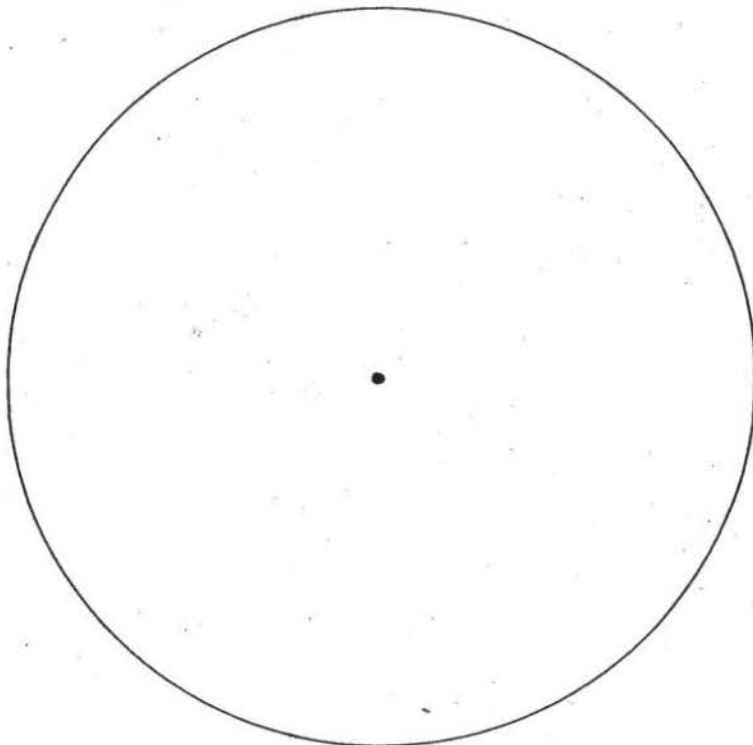
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>GRAT</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



✓ Entered
in cards

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2

Point Data

#767 ⁷⁶⁸Point Data 769 770 771

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Refuge Route:

North

Survey Date:

5/2/01

	772		773		774		775		776	
	WIK 6 216		WIK 7 214		WIK 8 213		WIK 9 229		WIK 10 212	
Start Time	2118		2133		2142		2150		2200	
Air Temperature (°F)	67		61		62		63		64	
Sky Code	0		0		0		0		0	
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3	3	3	3	3	3	3
GRAT	3	3	1	1						
GRFR	1	1								
AMTO			2	2			3	3	2	2
PIFR					1	1				

Comments:

	777		778		13		14		15	
	WIK 11 217		WIK 12 219							
Start Time	2218		2230							
Air Temperature (°F)	64		62							
Sky Code	0		0							
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
NSPE	3	3	3	3						
PIFR	1	1								
AMTO			1	1						

Comments:

FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK201

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2022	64	1	0	N-1	

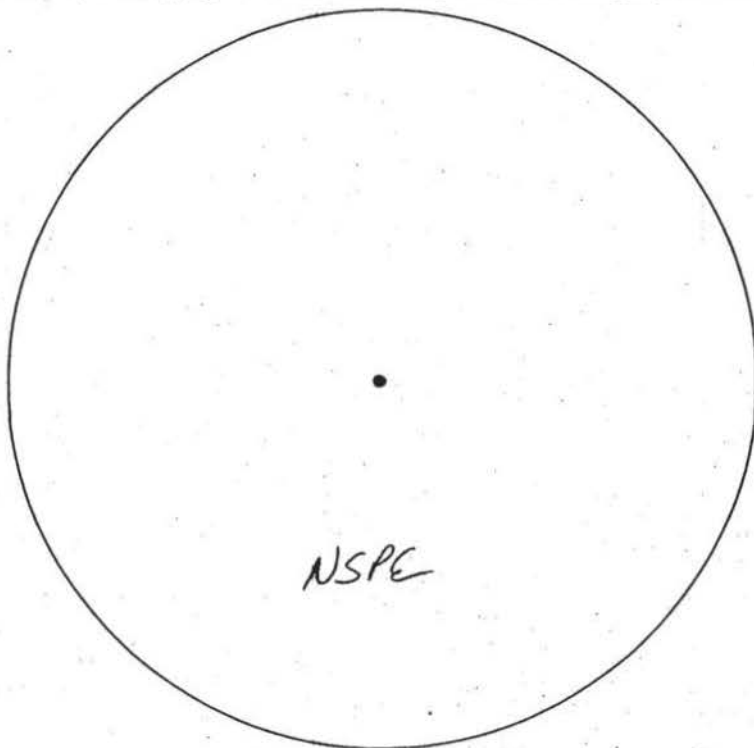
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin H. H. H. Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: W1K202

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2032</u>	<u>70</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

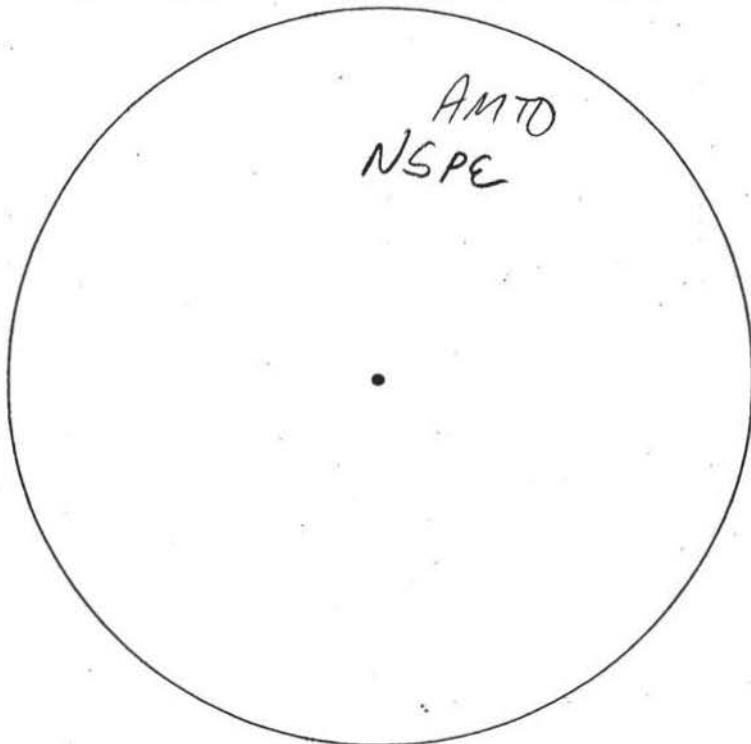
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>AMTO</u>	<u>2</u>	<u>2</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Hland Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK203

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2040	66	1	0	N-1	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
AMTO	3	3									
PIFR	1	1									
GRFR	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: W114207

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2052</u>	<u>64</u>	<u>2</u>	<u>0</u>	<u>N-1</u>	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>AMTO</u>	<u>3</u>	<u>3</u>									
<u>GRAT</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: W114 209

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>2100</u>	<u>66</u>	<u>1</u>	<u>0</u>	<u>N-1</u>	

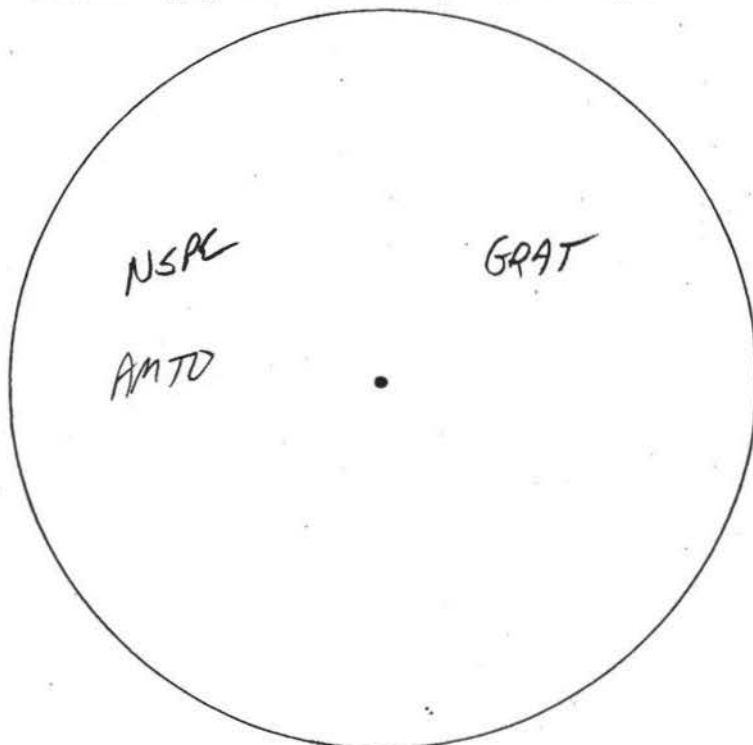
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>AMTD</u>	<u>3</u>	<u>3</u>									
<u>GRAT</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Heidi Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK 216

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
<u>21K</u>	<u>67</u>	<u>2</u>	<u>0</u>	<u>N-1</u>	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
<u>NSPE</u>	<u>3</u>	<u>3</u>									
<u>GRAT</u>	<u>3</u>	<u>3</u>									
<u>GAFR</u>	<u>1</u>	<u>1</u>									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kerry Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: W1K214

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2133	61	2	0		

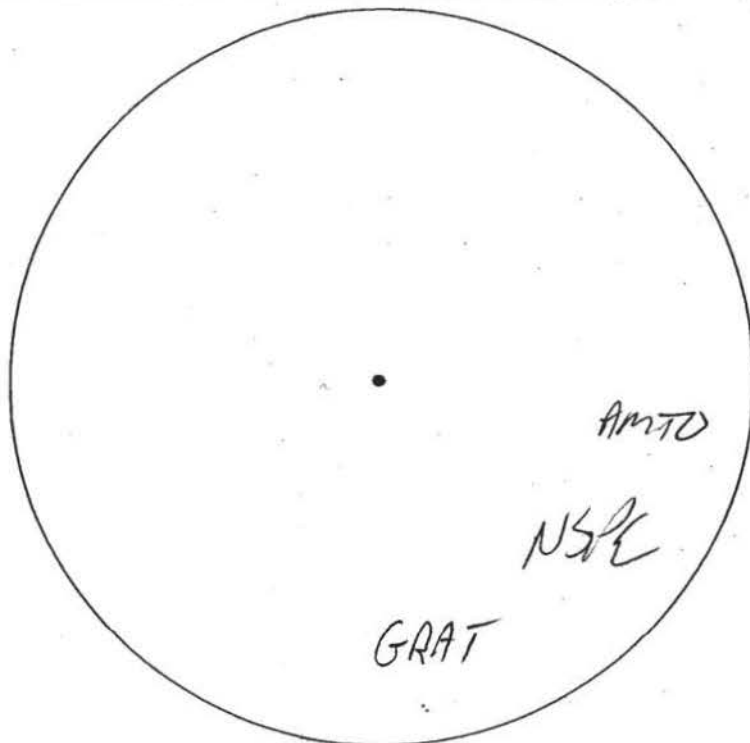
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									
GRAT	1	1									
AMTD	2	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK213

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2142	62	1	0	N-1	

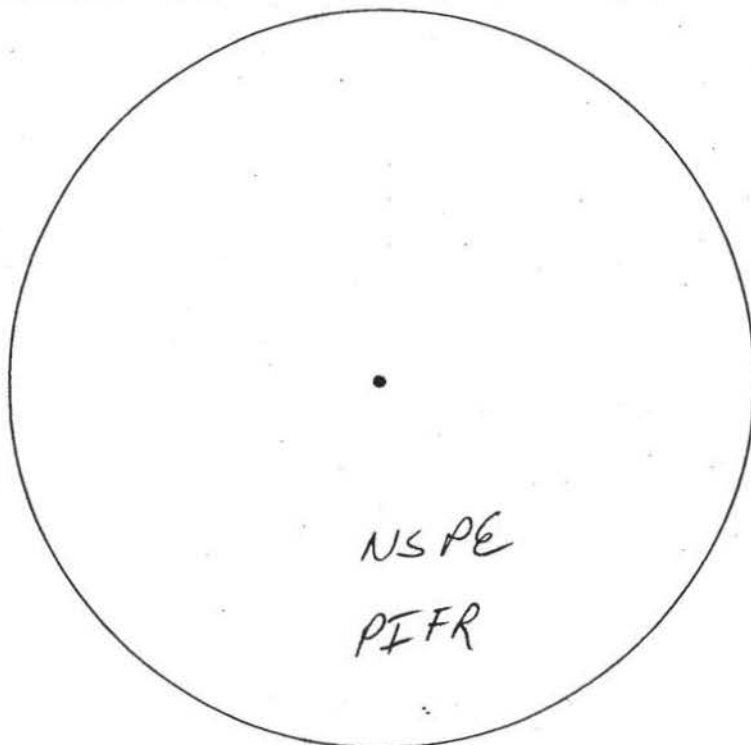
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
PIFR	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK29

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2150	63	1	0	N-1	

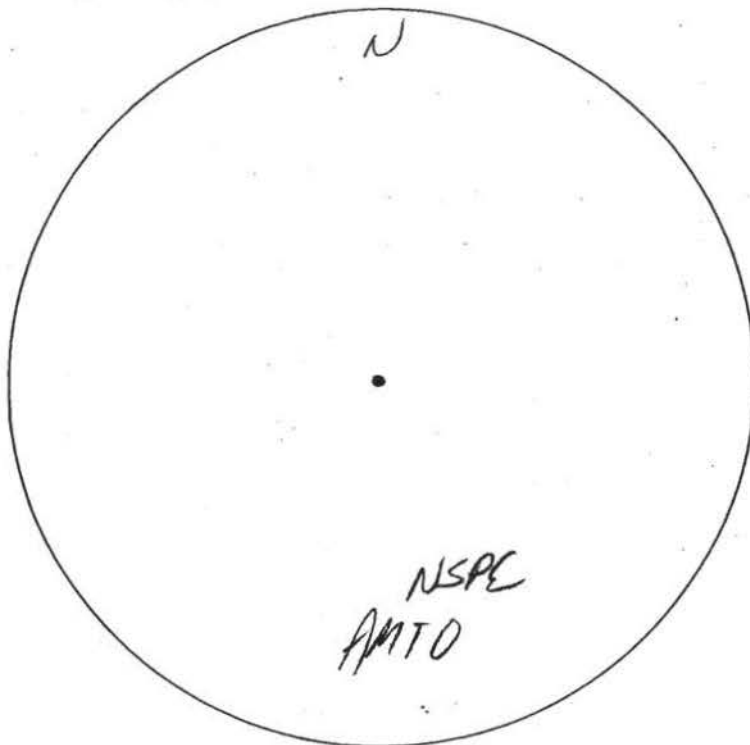
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
AMTO	3	3									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK 212

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2200	64	1	0		

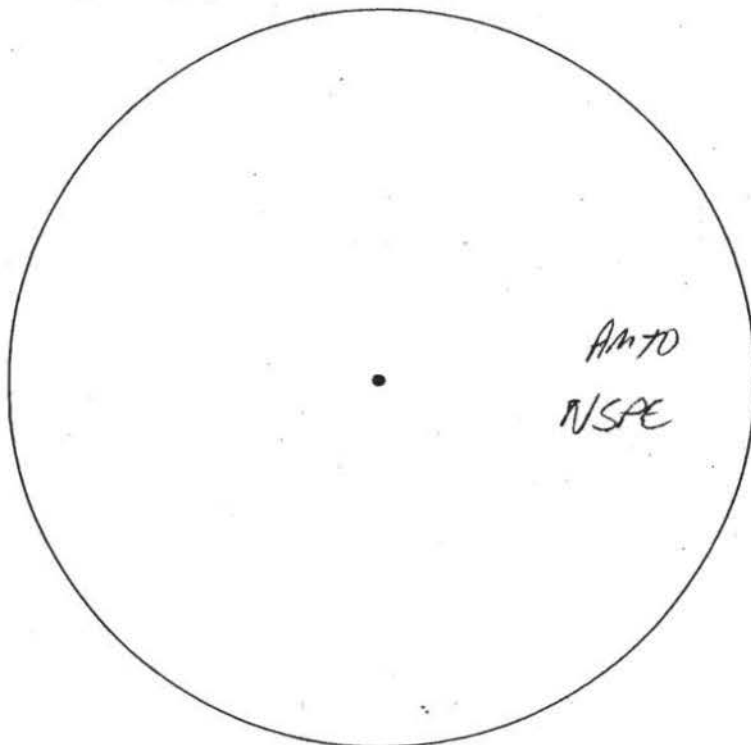
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
AMTD	2	2									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey Survey Point Field Map

Observer: Kevin Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
Point Number: W112 217

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2218	64	1	0	N-1	

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPC	3	3									
PIFR	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



FWS Anuran Call Count Survey

Survey Point Field Map

Observer: Karen Holcomb Refuge Route: North Survey Date: 5/2/01 Run Number: 2
 Point Number: WIK 219

Point Data

Start Time	Air Temp (°F)	Wind Scale	Sky Code	Noise? (✓ = yes)	Timeout taken? (✓ = yes)
2230	62	1	0		

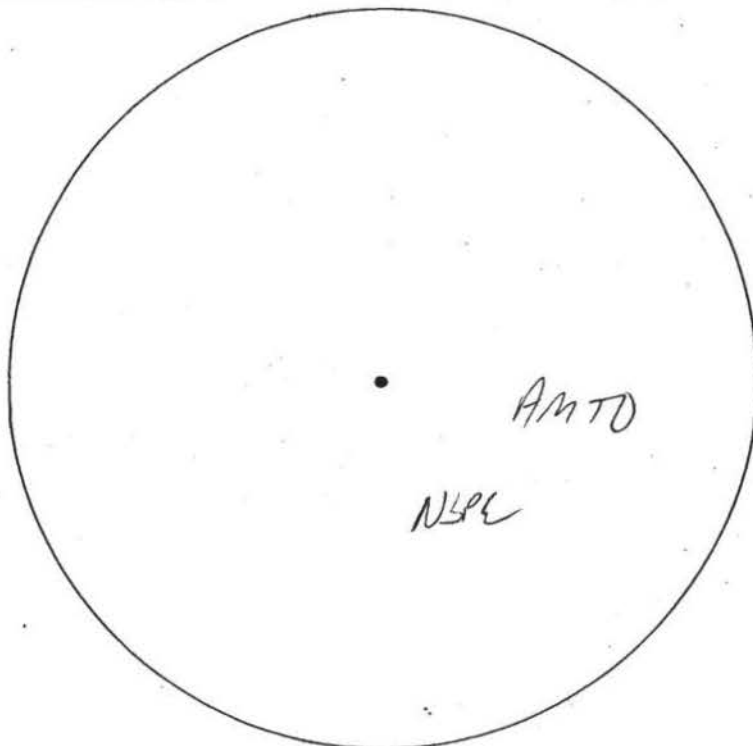
Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
 5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
 1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
 2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
 3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.	Species Heard:	3 min.	5 min.
NSPE	3	3									
AMTD	1	1									

Comments:

Call Index: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, continuous & overlapping.



Entered
Cons.

Observer: Kevin Holcomb Refuge Route: North Survey Date: 4/10/01 Run Number: 5

Survey Data

	Time	Temp (°F)	Wind Scale	Sky Code
Start	0904	68	1	1
Finish				

WIK⁴ 795

796
Point Data

797

798

799

[illegible]

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically.
1 = Light air movement, smoke drifts.
2 = Wind felt on face, leaves rustle.
3 = Gentle breeze, leaves and small twigs in motion.
*4 = Small branches move, raises dust and loose paper.
*5 = Small trees in leaf begin to sway, crested wavelets.
*6 = Large branches in motion.
* Unacceptable wind strengths for survey.

Survey Date: 2/9/01
804

Comments:

Comments:

Observer: Kevin Holcomb Refuge Route: Central Survey Date: 7/10/01 Run Number: 3

	Time	Temp (°F)	Wind Scale	Sky Code
Start	0915	74	1	0
Finish				

807 808 Point Data 809 810 811

Revised Feb. 2001

Refuge Route:

Central / South

812

813

814

815

Survey Date:

Date: 7/10/01

[illegible]

Comments:

[illegible]

Comments:

FWS Anuran Call Count Survey

Observer: Karin Halcomb Refuge Route: Central Survey Date: 7/12/01 Run Number: 3

Survey Data

	Time	Temp (°F)	Wind Scale	Sky Code
Start	0902	66	1	0
Finish				

819

820

Point Data

821

822

873

[illegible]

Comments:

Call Index Value: 1 = Calls can be counted, no overlapping. 2 = Calls can be distinguished, some overlapping. 3 = Full chorus, calls continuous and overlapping.

Sky Code: 0 = Clear / few clouds. 1 = Partly cloudy / variable. 2 = Cloudy (broken) or overcast. 4 = Fog / Smoke
5 = Drizzle / light rain 7 = Snow *8 = Showers (do not conduct survey)

Wind Scale: 0 = Smoke rises vertically. *4 = Small branches move, raises dust and loose paper.
1 = Light air movement, smoke drifts. *5 = Small trees in leaf begin to sway, crested wavelets.
2 = Wind felt on face, leaves rustle. *6 = Large branches in motion.
3 = Gentle breeze, leaves and small twigs in motion. * Unacceptable wind strengths for survey.

Refuge Route: Central

#828 #829

Survey Date: 7/2/01

	2544		2557		8		9		10	
Start Time	1030		1047							
Air Temperature (°F)	62		62							
Sky Code	0		0							
Was noise a factor? (✓ = yes)	N		N							
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.
	—	—	—	—						

Comments:

	11		12		13		14		15	
Start Time										
Air Temperature (°F)										
Sky Code										
Was noise a factor? (✓ = yes)										
Did you take a timeout? (✓ = yes)										
Species Heard:	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.	3 min.	5 min.

Comments: