

USFWS National Abnormal Amphibian Program SITE CHARACTERIZATION FORM

Collectors: Becky Rosamond
Hall Mitchell
Mark Williams
32 Weather: Scattered clouds
Elevation (+/- m):
Make of GPS unit: Garmin
Model of GPS unit : III+
and:
deep shallow drying dried up (> 3ft in some (< 3ft (between 3 (no water) areas) throughout) ft and dry)
Surrounding Land Use (Select from list):
North: Riparian/corridor
East:
South:
West:
2 SW comer looking E
(3) S boundary looking N
pond
Jog factor

*3				
		Phys.	*5	



areas)

througout)

and dry)

USFWS National Abnormal Amphibian Program

DATA COLLECTION FORM

Date: 6/12/08	Collectors: 3e	dry Rosawand	
Refuge: CWR		Hal Mitchell	
Site ID: Unit CWROI		Made Williams	
Air Temp Water Temp	Start time: \308_	# Egg Masses Present:	VA
Water level (select from the following):	End time: 1400	Egg Mass Water Depth (cm):/	VA
deep shallow drying dried up	Weather: Sc. Cloud 5	Egg Mass Species ID Code(s):	NA

Frog#	Species	Lengt	h (mm)	Gosner	Abnormal?	Preserved?	Abnormal	Comments
1106"	Code	SVL	TAL	Stage	(mark if Yes)	(mark if Yes)	Frog ID	Continents
l	BUNF	11	0	46				
2	BUNF	9	0	411				
3	BUWF	9	0	46			W3	missing foot on RR les
4	BUNF	12	0	46	1			
5	BUNF	12	0	46	\vee		W5	#4 digit shortered
6	BUNF	9	0	46				
77	BUNF	10		45				
7	BUWF	10	0	46				
	BUNF	9	0	46				
10	BUNF	12	0	46				
11	BUNF	10	0	44				#11 71
15	BUNF	9	0	46			WIZ	#4 digit shortered
13	BUNF	10	0	46				
14	BUNF	10	0	46				
15	BUNF	10	0	46				
16	BUNF	13	0	46				
17	BUNF		0	46				
18	BUWF	8	1	45			. () 2	
19	BUWF	10	0	46			W19	missing all digits on LR
20	BUWF		0	46				
2.1	BUNF	9	0	46				
22	BUWF	10	0	46				
23	BUNF	10	0	46				
24	BUNF	13	6	46				
25	BUNF	10	0	40				
26	BUNF	14	0	46				
27	BUNF.	9	0	40				

1. Frog #: Number frog	9 1,2,3,	for each	species
------------------------	----------	----------	---------

2. Process each frog.

3 digit Frog # from this collection.

Incidental Species Encountered:

BL - To of the cases to the point where the intered middless of the tail matthe your the body TAL - Front where the harved midden of the tail nameds pour the body to the tail of the tail.

Comments:

Example Abnormal Frog ID: R4-OVF02-060403-RASP-002 W: TAL-Post when the interaction of the tell matter joint the body to the in-of the tell Region 4, Overflow NWR, site 02, June 4, 2003, Rana splienocephala, frog #002

4. Fill out an Abnormal Prog Sheet for each abnormal frog found.

^{3.} If abnormal, assign a unique Abnormal Frog ID: Region Number (R4) - 5 character SiteID -6 digit collection date - Species Code -





DATA COLLECTION FORM

	Species	Langt	h (mm)	Gosner	Abnormal?	Preserved?	Abnormal	
Frog#	Code	SVL	TAL	Stage	(mark if Yes)	(mark if Yes)	Frog ID	Comments
29	BUNF	9	0	46	(and a start of	(minute 1 only	1105.22	
30	AUWF	10	0	46				
31	BUNF	9	0	46				
32	BUWF	10	0	46				
33	BUNI	9	0	46				
34	KUNF	10	1	45			1.121	13 1 45.7
	BUNF	9					W34	ditit #4 on natil rea
36	BUNF	9	0	46				
	BUNF	9	10					
317		9	0	4/0				
38	BUNF		10	46				
10	BUNF	9	0	46				
40	BUNF	9	()	46				
211	BUNE	10	0	46				
42	BUNF	10	0	46				
43	PUWF-	8	0	46				
14	BUNF	a	0	46			457	
45	BUWF	9	0	46				
46	BUNF	8	0	26				
47	BUNT	9	0	46				
48	BUNF	10	0	46				
49	BUNF	9	0	46				
50	BUNF	10	0	46				
51	BUNF	7		45				
52.	BUWF	9	0	46				
53	BUNF	12.	0	46				
24	BUNF	8	0	46				
55.	BUNF	a	0	46				
54	BUNF	17	0	46				
57	RAPA	24	6	43				
58	RASP	26	4	44				
59	R ASP	29	0	46				
40	PASP	29	0	46				
le l	RASP	27	2	45				
100	RASP	31	0	40				
177	RASP	29	0	46				
60	RASP				V			
04	MADE	28	0	46				

Sheet	1	of	6
DILCCL		- vi _	



Refuge: CWR Date: 6/12

Collectors: B. Rosamond, H. M. Hobell, M. W. Hoursite/Location: CWRDI - Pond W

Abnormal Frog ID Number R4-CWR01-061208-BF0W-003

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

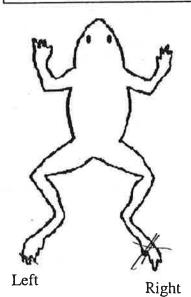
Left	Right	
Lon	- Kight	Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
V		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
	1	Extra digits (describe)
	V	Foot missing (tarsal bones)
		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
	1	atrophied)
		Portion of thigh (femur) missing,
la		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
	1	Extra Limbs- how many, location (describe)
		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS			
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

COMMENTS:



found on diagram with dorsal side up (frog lying on its stomach)

abnormalities

Draw



U.S. Fish and Wildlife Service - National Malformed Amphibian Initiative fuge:

Date: 6/12/08

Date: 6/12/08

Site/Location: CWROI - Pond W

Abnormal Frog ID Number R4-CWR 01 - 061208-BFOW - 005

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

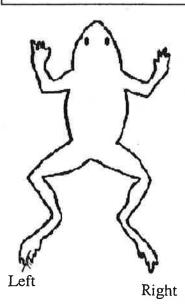
Left	LIMBS Right	
		Entire limb present, unusual angle
		(twisted, rotated, etcdescribe)
	1	Entire limb present, abnormal size
		(atrophied or enlarged)
		Digits missing from foot (specify
		digits)
		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

OTHER ABNORMALITIES		
Left	Right	
		SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
		(describe)
		Other (describe)

FRONT LIMBS			
Left	Right		
		Partial limb (describe)	
12110423		Foot missing	
		Digits missing, fused or clubbed (describe)	
		Complete calf present, abnormal musculature (enlarged or atrophied)	
		Other (describe)	

JAWS		*
Left	Right	
		Lower jaw shortened
		Upper jaw shortened
		Other (describe)

COMMENTS:





Refuge: CWR Date: 6/12/08
Collectors: Blogamond, H. M. talell, M. William Site/Location: CWR-01

Abnormal Frog ID Number R4-GWR01-061208-BEOW-017

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

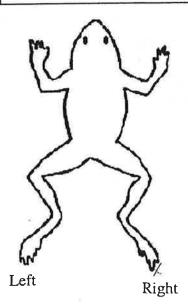
HIND	LIMBS	
Left	Right	
		Entire limb present, unusual angle
		(twisted, rotated, etcdescribe)
		Entire limb present, abnormal size
		(atrophied or enlarged)
		Digits missing from foot (specify
		digits)
V		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present,
		abnormal musculature (enlarged or
		atrophied)
	107-1-1	Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
la .		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

OTHE		RMALITIES
Left	Right	
		SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
	1	(describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
540		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS		ATOM	
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

COMMENTS:





Refuge: CWR Collectors: B. Rosamand H. M. Holell, Date: 6/12/08
Site/Location: CWE 01 - Unit W

Abnormal Frog ID Number R4-CWR01 - 861208-BFOW-019

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
	â .	Extra eye(s) (describe)
		Other (describe)

	LIMBS	
Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
all		Digits missing from foot (specify digits)
		Digits shortened, fused or clubbed
		Digits in abnormal location (describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present abnormal musculature (enlarged or atrophied)
		Portion of calf missing (estimate length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
		Extra Limbs- how many, location (describe)
		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRON	T LIMBS	¥
Left	Right	
Υ		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
9		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS		27	
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

CO	MMI	ENTS
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Refuge: CWR

Collectors: B. Rosamond, H. Mitchell, M. Williams Site/Location:

Abnormal Frog ID Number R4-CWROL-061208-BFOW-034

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		WE
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
	V	Digits shortened, fused or clubbed
		Digits in abnormal location (describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)
		Portion of calf missing (estimate length of calf present)
	7	Entire calf (tibiofibula) missing
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing, (estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
LCII	Right	
		SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
		(describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
(%		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS Left Right Lower jaw shortened Upper jaw shortened Other (describe)

COMMENTS:	i es	- F 1 1 1	
missing	complete	right	front
limb. =	No. 4th	n digit o	in right
Mar	many &	ge short	ened



Sheet	6	of	6	
DILCCE		UL_	740	



Refuge: CWR Date: 6/12/08

Collectors: 6. Rosemson, H. M. Holell, M. Site/Location: CWRO) - Unit W

Abnormal Frog ID Number R4-CWR01-06/208-RASP-063

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

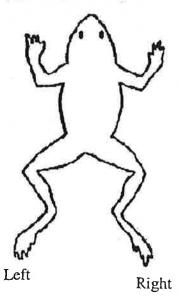
Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
		Digits shortened, fused or clubbed
		Digits in abnormal location (describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)
\checkmark		Portion of calf missing (estimate length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing, (estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
		Extra Limbs- how many, location (describe)
		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS		
Left	Right	
		Lower jaw shortened
		Upper jaw shortened
		Other (describe)

COMMENTS:
Bone Present, but lacks all tissue past "Knee" joint.





Refuge:

USFWS National Abnormal Amphibian Program

SITE CHARACTERIZATION FORM

Coldwater River NWR Collectors: Becky Rosamond

Date :	6/12/2008	Hal Mitchell
Site ID :	CWR0	Mark Williams
Start Time :	14:31 Air (°C)	: 32 Weather : Scattered clouds
End Time :	14:31 Air (°C) 14:57 H ₂ O (°C)	
Datum:	WGS 84 decimal degrees (hddd.dddddo')	Elevation (+/- m) :
Latitude :	N34005 702	Make of GPS unit: Garmin
Longitude :	N 90° 07. 978	Model of GPS unit : III+
Describe where at collection site	coordinates were taken in relation to wet	
Area (m ²): % Canopy Cover: Habitat type (S	Water level (select from) 0 elect from list): Man-made pond	: deep shallow drying dried up (> 3ft in some (< 3ft (between 3 (no water) areas) throughout) ft and dry)
Contaminants of	of Concern (Select from list):	Surrounding Land Use (Select from list):
None suspected		North: Waterbody/riparian corridor
		East:
		South:
-		West:
OSF come	, p	3 NF CHINA LOCKING WEW
Comments:	100king 30W	
	bang (noger)	60-7 (Mozer)
	Jerres Jerres	· plush 2
gravel resol	Company of the second of the s	Phylogod Capter Capter
	/e rec	(1):22

para

	4 C- 1 3 N	



USFWS National Abnormal Amphibian Program

DATA COLLECTION FORM

Date:	6/12	108		Collectors:	Bedey	Rosamond	
Refuge:	CW	R			119/	mitchell	
Site ID:	\Diamond	LWR	2		Mai	rk Williams	
Air Temp		Water Temp		Start time: 14/3		# Egg Masses Present:	NA
011	level (selec	t from the follo	wing):	End time: 1457		Egg Mass Water Depth (cm):	MA
deep	shallow	drying	dried up	Weather: Satered Clo	465	Egg Mass Species ID Code(s):	NA
(> 3ft in some areas)	(< 3ft througout)	(between 3 ft and dry)	(no water)		.007		

	2	IHEL	165					
Frog#	Species Code	Length SVL	TAL	Gosner Stage	Abnormal? (mark if Yes)	Preserved? (mark if Yes)	Abnormal Frog ID	Comments
1	BUUF	11	1	46	(Mark II 100)	(main it 100)		
2	Buwf	10		46				
3	BUWF	10		46				
Ч	BUWF	11		46				
9	BUWF	12		46				
6	BUWF	11		46				
7	BUWF	11		46				
8	BUWF	11		46				
9	BUNF			46				
ŧβ	BUWF	12		46				
11	BYWF			46				
12	BUWF	ĬI.		46				
13	BUNF	Ì		46				
14	Buwf	11		46				
15	BUWF	1)		46				
16	Buwt	10		46				
17	RUWE			46				
8	RUWF	10		46				
9	BUWF			46				
0	BUWF	11		46				
21	Buye			46				
22	BULLE	10		46				
23	RULL			46				
14	RUWF	14		416				
15	Bunt	10		46				
6	BUWF	10		46				
27	BINWE	11		46				
LB .	BAWE	11		46				

1	Frog #: Number	from	122	For	each c	mania
1.	Prog #: Number	mogs	1,2,3,	IOI	each s	pecie

2. Process each frog.

Incidental Species Encountered:

H. = Body Length TAL = Tail Length SVI. = Score-Vent Length TL = Total Length
H. - Tip of the most to the point where the derivit ninker of the tail numbe poss to body
TAL - Point where the lateral million of the tail numbe joins the body to the tip of the tail.

Comments:

Example Abnormal Frog ID: R4-OVF02-060403-RASP-002 W TAL-Post where the latest widthe of the tall must be just the body to the tap of the tall

Region 4, Overflow NWR, site 02, June 4, 2003, Rana sphenocephala, frog #002

4. Fill out an Abnormal Frog Sheet for each abnormal frog found.

^{3.} If abnormal, assign a unique Abnormal Frog ID: Region Number (R4) - 5 character SiteID -6 digit collection date - Species Code -3 digit Frog # from this collection.



USFWS National Abnormal Amphibian Program

DATA COLLECTION FORM

	Species	Length	(mm)	Gosner	Abnormal?	Preserved?	Abnormal	
Frog#	Code	SVL	TAL	Stage	(mark if Yes)	(mark if Yes)	Frog ID	Comments
29	But	115-		46	Communication of the Communica	(
30	BUNF	117	†	46				
31	BUWF	11		46				
32	BUWF	111		46				
33	BYWF	H	-	46				
34	BYWF			46				
35		17		46				
36	BUWF	111						
37	BUNF	10	-	46				
38	BUWF BUWF	11		46				
39		(1		46				
40	RUWF	1/		46				
41	Buwf	14,		46				
	BHUF	11	-	46				
42	BUNF			46				
43	Bunk	11	-	46				
44	BUNF	10		46				
45	BuWF	16		46				
46	Buwk	11		46				
47	BUWF	1/		46				
48	BUWF	10		46				
49	BUWF	11		46				
50	BULL			46				
51	BULLE	11		46				
52	BUWF	11		46				
53	BUWF	14		46				
54	BUNF	11		46				
55	BUWF	11		46				
56	BuwF	11		46				
57	BHWF	11		46				
58	BUWF	13		46	V		Q-58	
59	BYWF	11		46				
60	BUNF	II		46				

	TANKE TANKE	AVI	OUT.	114
	1		1	1
V	<i>8</i> 2	•	A	IJ
٦	>	€	8	1

Sheet of	Sheet		_ of		<u></u>
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U.S. Fish and Wildlife Service - National Malformed Amphibian Initiative

Refuge: CWR Date: 6/12/08

Collectors: B. Rosarano, H. Michael, M. Wiles Site/Location: R4-CWR02 fond Q

Abnormal Frog ID Number R4-CWR02-D6/208-BFDW-0058

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
25-1		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

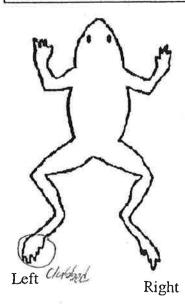
Left	Right	
		Entire limb present, unusual angle
		(twisted, rotated, etcdescribe)
		Entire limb present, abnormal size
		(atrophied or enlarged)
		Digits missing from foot (specify
		digits)
/		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
	XX = XXXIIIX	SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
		(describe)
	1	Other (describe)

FRON	T LIMBS	
Left	Right	
-		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS		
Left	Right	
		Lower jaw shortened
		Upper jaw shortened
		Other (describe)

COMMENTS:



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		,	
27			



USFWS National Abnormal Amphibian Program

SITE CHARACTERIZATION FORM

Refuge :	Coldwater River NWR	follectors : Mark Williams	
Date:	6/24/2008	Hal Mitchell	
Site ID:	CWR01	10	
Start Time :	10:03 Air (°C):	31 Weather: Clear	
End Time:	10:52 H ₂ O (°C):		
Datum :	NAD27 decimal degrees (hddd.ddddd°)	Elevation (+/- m) :	
Latitude:	N 34° 05.299'	Make of GPS unit: Garmin	
Longitude:	W 90° 08.123'	Model of GPS unit:	
	re coordinates were taken in relation to wetla (water control structure)	1:	
Area (m ²): % Canopy Cover:	Water level (select from):	deepshallowdrying3ft in some(< 3ft(between 3 areas)areas)throughout)ft and dry)	dried up (no water)
Habitat type (Select from list): Man-made pond		
Contaminants	of Concern (Select from list):	Surrounding Land Use	(Select from list):
None suspecte	d	North: Riparian/corridor	
		East:	
		South:	
		West:	
	enames (SiteID-direction facing-DATE):	CUPAL F AC1808	
CWR01-NE-0		CWR01-E-061808	
CWR01-SE-06	51808	CWR01-N-061808	
Comments:			



USFWS National Abnormal Amphibian Program

DATA COLLECTION FORM

Date: 6/24/08	Collector	s: Hal Mitchell	
Refuge: WR		Mark Williams	
Site ID: W 2nd	dection		
Air Temp (2°) 88° F	Start time: 1003	# Egg Masses Present:	NA
Water Temp (C°)	End time: 1052	Egg Mass Water Depth (cm):	NA
Avg Water Depth (cm)	Weather: Clear	Egg Mass Species ID Code(s):	NA

Frog#	Species	Lengt	th (mm)	Gosner	Abnormal?	Preserved?	Abnormal	Comments
1106/	Code	SVL	TAL	Stage	(mark if Yes)	(mark if Yes)	Frog ID	Comments
	BFOW	12		46				
2		1/		46				
3		17		46	4			
4		11		46				
5		9		46				
6		11		46				
7		11		46				
8		11		46				
9		15		4.6				
0		11		4.6				
1/		10		46				
2		10		46				
13		10		46				
14		9		46				
5		11		46				
6		10		46.				
7		11		46				
Y		11		46				
7		71		46				
0		11		46				
1		10		46				
2		11		46				
3		12		46				
4		12		46				
S		11		46				
6		11		46				
7		10		416				Je
8		11		46				
9		12		46				
0		11		46				

1 Frog #: Number frogs 1,2,3 for each species.

2. Process each frog.

3 If abnormal, assign a unique Abnormal Frog ID: Region Number (R4) - 5 character SiteID -6 digit collection date - Species Code -

Key Measurements of Tadpoles/Metamorphs

 Σ_{i} = 5.81 γ Length. TAL = Tail Length. SVL = Smoot (New Length. Th. = Total Length. Σ L. = Σ p of the initial to the point where the lateral medium of the last month; count the body. TAL = Prest where the lateral medium of the tail month; point the body to the up of the tail.

Comments:

Incidental Species Encountered:

3 digit Frog # from this collection Example Abnormal Frog ID: R4-OVF02-060403-RASP-002 would correspond to Region 4. Overflow NWR, site 02, June 4, 2003, Rana sphenocephala, frog #002

4 Fill out an Abnormal Frog Sheet for each abnormal frog found

Frog#	Species		h (mm)	Gosner	Abnormal?	Preserved?	Abnormal	Comments
	Code	SVL	TAL	Stage	(mark if Yes)	(mark if Yes)	- Frog ID	Comments
-31	BFOW	1		46				
3.7		11		46				
33		12		46				
34	-	11		46				
35		10		46				
36 -		14		46		1		
37		11		46				
38		9		46				
39		9		46				
40		13		46				
41		13		46				
42		14		46				
43		14		46				
44		13		46				
45		14		46				
46		14		46				
u+		15		46				
48		14		4.6				
49		15		46				
50		15		46				
	ļ. —	15		46				
5/	7	14		46				
53		17		46				
54		16		46			***	
55	7-1	17		46				
C/		15		46				
57	-	17		46				
58	1	18		46				
20		10		-170				
							TO THE PARTY OF TH	
							79-79-	

Malformed Frog Surveys at Coldwater River NWR - 2008

Beginning in May 2008, staff monitored multiple ponds at Coldwater River NWR for the presence of tadpoles to monitor development. Very few tadpoles were observed. The ponds range in size from 14 – 20 acres and tadpoles are not likely to be concentrated until the ponds begin drying. Additionally, during drying periods, the ponds are heavily used by wading birds for foraging. During a visit on June 12, numerous metamorph Fowler's toads were observed on two of the drying units. A collection was made at each of those units. Additionally, at site CWR01, metamorph southern leopard frogs were observed. However, many of these were beyond the maximum size allowed by the sampling protocol. Additionally, the pond margins were heavily vegetated and it was difficult to catch individuals in the vegetation.

A second collection was made at site CWR01 on June 24. Based on the size of the metamorphs and the time between captures, it was assumed that these were different individuals than were sampled the first time. Several more visits were made the units through July, but no other samples were collected.

Based on the presence of leopard frog metamorphs, it appears that monitoring began too late to collect leopard frogs. Monitoring in 2009 should begin earlier to attempt collecting a sample of this species. Additionally, the refuge supports a large population of green treefrogs and numerous young of the year are seen during the summer. However, they are usually seen some distance from the breeding sites and exceed the maximum size for this survey. Based on anecdotal information, sampling for this species may need to occur at night.

Photos:

CWR01-NE-061808



CWR01-SE-061808



CWR01-E-061808



CWR01-N-061808



CWR02-NW-061808



CWR02-SSW-061808



CWR02-WSW-061808



Sheet	_ of _	1
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1	PINT A VICELITY
	V
1	
	Y,

Refuge:___ Collectors: B. Rosanard, H. Mitchell, M. Williams Site/Location: R4-CWR.02 Pond Q

Abnormal Frog ID Number R4-CWR02-D6/208-BFDW-0058

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
	1	Extra eye(s) (describe)
		Other (describe)

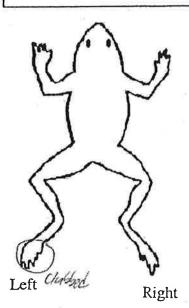
Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
~		Digits shortened, fused or clubbed
		Digits in abnormal location (describe)
-		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)
		Portion of calf missing (estimate length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right
		(describe)
337-11		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
		(describe)
		Other (describe)

FRONT LIMBS				
Left	Right			
7		Partial limb (describe)		
		Foot missing		
		Digits missing, fused or clubbed (describe)		
		Complete calf present, abnormal musculature (enlarged or atrophied)		
		Other (describe)		

JAWS			
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

COMMENT	S:
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U.S. Fish and Wildlife Service - National Malformed Amphibian Initiative Refuge: Owk Date: 6/12/08

Refuge: CWR Date: 4/12/08
Collectors: B.Rosamand, H.M. Hobell, M. W. Hand Site/Location: CWRO1 - Pond W

Abnormal Frog ID Number R4-CWE01-061208-BF0W-003

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		The state of the s
Left	Right	
		Smaller than normal
Ta .		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
·V		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
	1	Extra digits (describe)
	1	Foot missing (tarsal bones)
E P. U.P.		Complete calf (tibiofibula) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
	,	Extra Limbs- how many, location (describe)
		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
590		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS		
Left	Right	
		Lower jaw shortened
		Upper jaw shortened
		Other (describe)

COMMENTS:



Right



Refuge: CWR Date: 6/12/08
Collectors: B. Rosamond, H. M. Refugl, M. Williams Site/Location: CWROI - Pond W

Abnormal Frog ID Number R4-CWR 01 - 061208-BFOW - 005

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

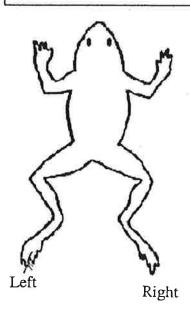
EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
	9	Other (describe)

Left	LIMBS	T
Lett	Right	
		Entire limb present, unusual angle
		(twisted, rotated, etcdescribe)
	1	Entire limb present, abnormal size
		(atrophied or enlarged)
		Digits missing from foot (specify
/	1	digits)
		Digits shortened, fused or clubbed
		Digits in abnormal location
		(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

OTHE	R ABNO	RMALITIES
Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
VIVI HERE		Extra Limbs- how many, location (describe)
		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS			
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	



Sheet 5 of 6	t 3 of 6	
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U.S. Fish and Wildlife Service - National Malformed Amphibian Initiative

Refuge: WR Date: 6/12/08

Collectors: 6 losawad, H. M. tolell, M. William Site/Location: CWL-01

R4-CWR01-06/208-BFOW-012 Abnormal Frog ID Number_

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

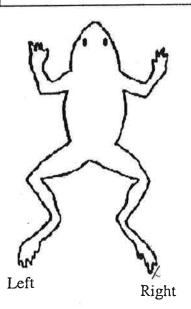
Left	Right	
		Entire limb present, unusual angle (twisted, rotated, etcdescribe)
		Entire limb present, abnormal size (atrophied or enlarged)
		Digits missing from foot (specify digits)
V		Digits shortened, fused or clubbed
		Digits in abnormal location (describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
7		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)
		Portion of calf missing (estimate length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)
		Portion of thigh (femur) missing, (estimate length of thigh present)
		Entire limb missing
		Other (describe)

OTHE	R ABNO	RMALITIES
Left	Right	
		SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
	T	Fresh Bleeding or Injuries
		(describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS			
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

COMMENTS:





Refuge: CWR Date: 6/12/08
Collectors: B. Rosamand H. Mitchell, M. Site/Location: CWK 01 - Unit W

Abnormal Frog ID Number RY-CWR01 - 861208 - BFOW-019

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		**
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

	LIMBS	
Left	Right	
		Entire limb present, unusual angle
	1	(twisted, rotated, etcdescribe)
		Entire limb present, abnormal size
		(atrophied or enlarged)
all		Digits missing from foot (specify
911		digits)
		Digits shortened, fused or clubbed
		Digits in abnormal location
	1	(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

Left	Right	
		SPINE - curved to left or right (describe)
		WEBBING - fusion between thigh and calf (describe)
		Extra Limbs- how many, location (describe)
1		Fresh Bleeding or Injuries (describe)
		Other (describe)

FRONT LIMBS				
Left	Right			
		Partial limb (describe)		
		Foot missing		
	· · ·	Digits missing, fused or clubbed (describe)		
(*)		Complete calf present, abnormal musculature (enlarged or atrophied)		
		Other (describe)		

JAWS			7.5
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	JES

COMMENTS:





Abnormal Frog ID Number R4-CWR01 - 061208 - BFOW - 034

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES				
Left	Right			
		Smaller than normal		
		Pupil abnormally shaped		
		Unusual position (describe)		
		Extra eye(s) (describe)		
		Other (describe)		

	LIMBS	
Left	Right	10
		Entire limb present, unusual angle
		(twisted, rotated, etcdescribe)
	2	Entire limb present, abnormal size
		(atrophied or enlarged)
7		Digits missing from foot (specify
		digits)
	V	Digits shortened, fused or clubbed
,		Digits in abnormal location
		(describe)
		Extra digits (describe)
		Foot missing (tarsal bones)
		Complete calf (tibiofibula) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of calf missing (estimate
		length of calf present)
		Entire calf (tibiofibula) missing
		Complete thigh (femur) present,
		abnormal musculature (enlarged or
		atrophied)
		Portion of thigh (femur) missing,
-		(estimate length of thigh present)
		Entire limb missing
		Other (describe)

OTHE	THER ABNORMALITIES		
Left	Right		
		SPINE - curved to left or right (describe)	
		WEBBING - fusion between thigh and calf (describe)	
		Extra Limbs- how many, location (describe)	
		Fresh Bleeding or Injuries (describe)	
		Other (describe)	

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
Sacr		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal
	1 ,	musculature (enlarged or atrophied)
		Other (describe)
	1	h a

JAWS		
Left	Right	
		Lower jaw shortened
		Upper jaw shortened
		Other (describe)

I	COMMENTS:
I	missing complete right front
l	limb No. 4th digit an right
l	is a sign of the
ı	near many be shootened
l	. 4



CI4	6	c	1.
Sheet	0	of	6



Refuge: CUR Date: 6/12/08

Collectors: 6. Rosamond, H. M. felell, M. Site/Location: CWEO) - unit W

Abnormal Frog ID Number R4-CWR01-061208-RASP-063

Check boxes that best describe the abnormalities. Note descriptions should be with dorsal side up

EYES		
Left	Right	
		Smaller than normal
		Pupil abnormally shaped
		Unusual position (describe)
		Extra eye(s) (describe)
		Other (describe)

Left	Right		
98		Entire limb present, unusual angle (twisted, rotated, etcdescribe)	
		Entire limb present, abnormal size (atrophied or enlarged)	
	=	Digits missing from foot (specify digits)	
		Digits shortened, fused or clubbed	
		Digits in abnormal location (describe)	
		Extra digits (describe)	
		Foot missing (tarsal bones)	
,		Complete calf (tibiofibula) present, abnormal musculature (enlarged or atrophied)	
\checkmark		Portion of calf missing (estimate length of calf present)	
		Entire calf (tibiofibula) missing	
		Complete thigh (femur) present, abnormal musculature (enlarged or atrophied)	
		Portion of thigh (femur) missing, (estimate length of thigh present)	
		Entire limb missing	
		Other (describe)	

Left	Right	
LCL	Kigiit	
		SPINE - curved to left or right
		(describe)
		WEBBING - fusion between thigh
		and calf (describe)
		Extra Limbs- how many, location
		(describe)
		Fresh Bleeding or Injuries
		(describe)
		Other (describe)

FRON	T LIMBS	
Left	Right	
		Partial limb (describe)
		Foot missing
		Digits missing, fused or clubbed (describe)
		Complete calf present, abnormal musculature (enlarged or atrophied)
		Other (describe)

JAWS			
Left	Right		
		Lower jaw shortened	
		Upper jaw shortened	
		Other (describe)	

COMMENTS:

Bone Present, but lacks all tissue past "Knee" joint.



Draw abnormalities found on diagram with dorsal side up (frog lying on its stomach)

Left

Right