# APPENDIX A

**Field Data Forms** 

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## SWFL SURVEY AND DETECTION FORM

Site Name (specific to	o patch)	Date						
Observer(s)		UTM Zone						
Timo	Start	Stop						
Time UTM E 0	 N	Time UTM E 0 N						
<u> </u>								
	Int	termediate Waypoints						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
UTM E <u>0</u>	N	UTM E <u>0</u> N						
		SWFL Detections						
		Banded? Y N U Pair? Y N Nest Found? Y N						
		Banded? Y N U Pair? Y N Nest Found? Y N						
Comments								
	N	Banded? Y N U Pair? Y N Nest Found? Y N						
T 1	" CNVIEL C. C.	Survey Summary						
-		Est. # Pairs Est. # Territories						
		eted? Y or N If Y, approx #						
Sign of Livestock?	Y or N If yes, explain							
Additional Comme	ents							
	J1143							
		· · · · · · · · · · · · · · · · · · ·						

## LCR SWFL SURVEY AND DETECTION FORM 2004 – Additional Detections

Site Name (specific to patch)\_\_\_\_\_\_ Date \_\_\_\_\_

	SWFL	Detections	
UTM E	N	Pair? Y or N	Nest Found? Y or N
Comments			
UTM E	_ N	Pair? Y or N	Nest Found? Y or N
Comments			
UTM E	_ N	Pair? Y or N	Nest Found? Y or N
Comments			
			<del></del>
UTM E	N	Pair? Y or N	Nest Found? Y or N
Comments			
			·
UTM E	_ N	Pair? Y or N	Nest Found? Y or N
Comments			
UTM E	_ N	Pair? Y or N	Nest Found? Y or N
Comments			
	N		
Comments			
LUTDA E		D:0 W	N . E 10 W N
_	_ N		Nest Found? Y or N
Comments			
LITM	N	Daire? W are N	Nast Faur 19 V av N
	_ N		
Comments			
LITM E	N	Dair? V or M	Nest Found? V or N
Comments			
HTM F	N	Pair? V or N	Nest Found? V or N
			restround: 1 of iv
Comments			

**SWFL General Site Description** (Complete at least 3 times during season: early (15–25 May), mid-season (10–25 June), and late season (10–25 July)

Site name:		Date (	MM/DD/YY): _		
Observer(s):		early_	mid	_ late _	other
<b>Vegetation at site:</b> >90% native	50-90% native		50-90% exotic		>90% exotic
<b>Canopy closure:</b> <25% 25-50%	50-70%	ó	70-90%	>90%	
<b>Dominant overstory species:</b> TASP	SAGO	SAEX	POFR	Other _	
Overstory height (m):				_	
<b>Dominant understory species:</b> TASP	SAGO	SAEX	PLSE	Other _	
U	nderstory heigh	nt (m): _			
Other vegetation types present (e.g., o	cattail)?	Yes	No		
If yes, type of vegetation: type of vegetation:			percentage of s	ite:	
% of site inundated:					
Depth of surface water: toes (<5cm) thighs (60-80 cm)			·	-	
% of site with saturated soils:		_			
If not inundated, distance to standing	water or satura	ated soi	l (m):		
Give a narrative description of the sit	e, including adj	acent h	abitats:		
Additional comments:					

SITE: NOTES:_	BAN	IDER:		DATE:	Т	IME:	TERR AI	ND NEST #:		NBN:	of	nestlings b	ande	d. 
FEDERAL	COLOR	STATUS	S	СВ	AGE	FECAL	BLOOD	FEATHER	WING	TAIL	CULMEN	CULMEN	F	MASS

TEDD AND NECT #

Colorimeter sample: Yes or No (circle)

Blood Samples: G=genetics, S=slide

BAND# COMBO AHY, SY, L, SAMPLE? SAMPLES? SAMPLE? CHORD LENGTH WIDTH Т or HY (Y or N) (G and/or S) (Y or N)

Retained Feathers Present: Yes or No (circle) – if Yes use diagram below

Active Molt: Yes or No (circle) - if Yes use diagram below

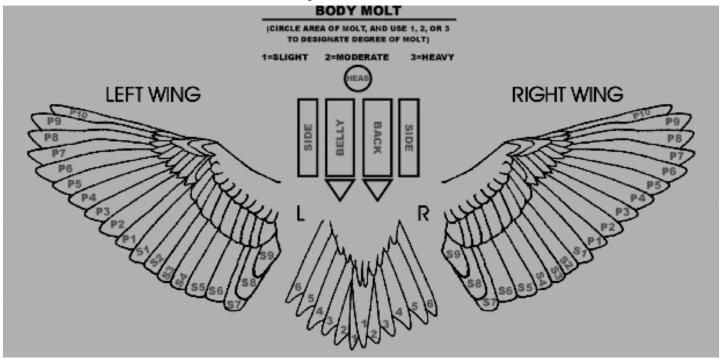
Tail older (more worn) than PPs and SSs? Yes or No (Circle)

STATUS: NCP (new cap passive), NCT (new cap target), RCP (recap passive), RCT (recap target). NBN (nestling banded)

**SEX:** U=unknown, F=female, M=male

**CP**: 0=non-breeding, S=partial breeding, M=full breeding

BP: 0= none, 1=smooth, 2=vascularized and filled with fluid, 3 =wrinkled, 4=molting



DETAIL ALL MOLTS AND RETAINED FEATHERS ONTO DIAGRAM AND DETAIL IN NOTES

## **COLORIMETER DATA FORM – 2004**

SITE (e.g.	. Gadsden Bend,	AZ):		DAT	E (e.g. 11 June 2	2004):					
OBSERV	ER (e.g. M.A. Mo	Leod):		FED BAND # :							
		<u>WN MEASUREME</u> E (e.g. P12):				K MEASUREMENT E (e.g. P13):					
	L *	a *	b *		L *	a *	b *				
MAX				MAX							
MIN				MIN							
AVG				AVG							
SD				SD							
NOTES:											

## RESIGHT DATA FORM

,				COLOR	COMBO						
OBS Use 3 initials	SITE 4 Letter Code	TERRI TORY	NEST	LEFT LEG (Top/ Bottom)		CONF LEVL A, B, C, N, P	ASSOC WITH A NEST?	CAPTURE?	# WIFLS PRESENT	(M/F/ U)	OBSERVATIONS AND COMMENTS: discuss observations & activities. Include % confidence of N resights, including when only one leg was observed – or if unsure what band was on what leg.
	-	-	-		-	-					Service Band Number =
	-	_	_		-	-					
-	-	-	-		-	-					Service Band Number =
-	-	_	_		-	<del>-</del>					Service Band Number =
-	-	_	_		-	<del>-</del>					Service Band Number =
	-	_	_		-						Service Band Number =
_	_	_	_		_						Service Band Number =
											Service Band Number =
-	-	-	_		-	<del>-</del>					Service Band Number =
-	-	-	-		-	-					Service Band Number =
-	-	-	-		-	-					Service Band Number =
-	-	_	_		-	-					
	1	l	l .	1	1	1	l				Service Band Number =

# Willow Flycatcher Nest Record Form (2004)

Site name: Patch						Name	Name: I					· <b>:</b>		
Nest Locatio	n: N2	AD:			Nest Height	t:		m (	approximate	)				
	Zo	one:			Nest Substr	ate:		(e.	g. TASP=tama	risk, SAC	GO=Goodin	g willow, F	'OFR=co	ottonwood,
LITM?					SAGE=Geyer	willow, etc.)								
UTM's: Easting:					Distance to	water whe	n nest f	ound: _		(	m)			
Northing:					Depth of su	ankle	es (5-15	5 cm), ca	how wet you alves (15-40 deep to wad	cm), kr	nees (40-6			
			]	PLE/	ASE DO N	OT FIL	L OU	T AN	YTHING	BELC	)W			
Bird 1: Colo	r ban	d comb	inatior	1:				_ Ban	d Number:_					Female
Bird 2: Colo	r ban	ıd comb	inatior	n:				_ Ban	d Number:_					Male
Willow F	lycat	cher			Willow I	Flycatche	r		Cowbird	i		Cow	bird	
Trans dates	B D	(T/F)		No.	Presumed	Confirme	d		Trans dates	B (	T/F)	No.	Com	nplete? (T/F)
		Found					Eggs				First eg	g		Eggs
		First eg	g				Nestli	ngs			Hatchin	g		Nestlings
		Clutch	comple	tion			Fledg	lings			Fledged	1		Fledgling
		Hatchir	1g								J -			
		Fledged		led										
Outoomo	Daa				) -									
Outcome (	Reco	ora coc	ie & a	escrii	oe):	_ <b>:</b>								
								1						
Outcome code		CI 1 1		1 . 1		1 .	.	Mayf	ield Success					
the vicinity of	nest; <b>F</b>	P= fledge	d young,	as deter	st one young sec	its behaving a		(WIF	L) Period	# Exp	posure da	ys	Suc	ccess
young; FC= fl	edged a	at least on	e host yo	ung wit	I fledging of at I h cowbird paras	itism; <b>FD</b> =		Egg I	Laying					
predation obse	rved; F	PE= proba	ble preda	ition, ne	ng of at least on st empty and in	tact; PD=	=	Incub	ation					
egg(s) being la	id; DE	= deserted	d with eg	g(s) or y	B= nest abandon young; PA= par	rasitized, host		Nestl	ing					
	ue to w	veather; A	<b>D</b> = failur	e, entire	g were fledged clutch addled/i			unknov	eld success con wn/nest occupie andoned with ho	d- fate u	nknown; M	l= mortalit	y other t	than predation

## Willow Flycatcher Nest Record Form (continued)

			S	Site nan	ne:						Pato	ch name: Nest no.:
Date	Time	Obs	Mon Type	Stage	Adult pres.	# WF Egg	# CB Egg	# WF Nstl	# CB Nstl	#WF Fldg	Age Yng	Comments
				T	1	T	ı	ı	ı			
1					T		ı	Т	ı			
1				Ī	ı	Ī	ı	ı	ı			T
					ı		T	ı	ı			
					ı		T	ı	ı			
					ı		T	ı	ı			
1			<u> </u>		I		I	Γ	I			Г

## **COWBIRD TRAPPING DATA FORM**

Name:				_								D	ate:					
													t Time:					
Location:				_								End	Time:					
				Trap#														
COWBIRDS	М	F	J	М	F	J	М	F	J	М	F	J	М	F	J	М	F	J
Newly Trapped																		
Previous Decoys																		
Removed																		
Added																		
Total left in Trap																		
Non-Target Species																		
					U.	U.		I	I					I				
Comments																		
																	-	

### LCR Southwestern Willow Flycatcher Project - Vegetation Datasheet 2004

Dat	e:		OI	bs:		Site:		Plot	Plot type:		ID#:		TM:	Е	N
Nes	t site o	nly	•	Substr.:			All plot c	enters		Dist	water:	m	Woody Gro	und Cover	Total Canopy
Sub	str. DB	H:	cm	Substr.	Ht.:	m	Dist cano	ру дар:	m	Dist.	Broadleaf:	m	N:	E:	N:
Nest or		%-	m	% X	m		Top Can. or	%-	m %- % X		m		S:	W:	S:
	Specie	es	T.	ASP	SAG	Ю	SAI	X	POFF	}	SNAG	0	TSP1:	OTSP2:	OTSP3:
	<b>10</b>	<1													
< or	Shrub/ Ir	1-2.5													
or = 8 cm dbh	b/Sapling ( In 5m Plot	2.6-5.5													
n dbh	Shrub/Sapling Count In 5m Plot	5.6-8													
	큐	Sum													
	Specie	es	T	ASP	SAG	0	SAI	ΣX	POFF	₹	SNAG	0	ΓSP1:	OTSP2:	OTSP3:
		8.1- 10.5													
v 8	ᄪᅻ	10.5- 15													
> 8 cm dbh	Tree Count In 5m Plot	Mea v.													
bh	요 킄	>15 cm dbh													
		h h													
	Specie		T.	ASP	SAG	0	SAI	ΕX	POFF	₹	SNAG	0	TSP1:	OTSP2:	OTSP3:
	5m to 11.3m Plot >8 cm dbh	free Count in													
									NOTE	S					

<sup>\*</sup> If, at ankle height or above, shrub/sapling/tree splits into multiple branches, count it as one stem and measure the biggest stem. If splits below ankle height, count all stems

<sup>\*\*</sup> If shrub/sapling/tree is not at least breast height, do not count

## Vertical Foliage Sampling (i.e. "Hits on the pole"): Microplot Vegetation

		CEN	ΓER PI	LOT		
Hits/Species						
Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp **
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
its on pole	( '.1 '	1.0	dius) no	1	1	to 8 m: a

Record number of decimeters with hits on pole (within 10 cm radius) per 1-m interval up to 8 m; above 8 m, estimate > or < 5 hits per meter interval.

Other species (common name)	** Other species	(common name)	
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# Vertical Foliage Sampling (i.e., "Hits on the pole") Data Form: Microplot Vegetation

Date:	Ol	bs.:			Site:		P	lot type	e:		ID#:		
Vertical Foliage Volume													
NORTH	Hits/Species					EAST	Hits/Species						
Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp **	Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp **
1							1						
2							2						
3							3						
4							4						
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						
11							11						
12							12						
13							13						
14							14						
15							15						
16							16						
17							17						
18							18						
19							19						
20							20						
21							21						
22							22						
23							23						
24							24						
25							25						

### SIDE 2

SOUTH	Tasp	Sago	Saex	Pofr	Snag	Otsp **	WEST	Tasp	Sago	Saex	Pofr	Snag	Otsp **
1							1						
2							2						
3							3						
4							4						
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						
11							11						
12							12						
13							13						
14							14						
15							15						
16							16						
17							17						
18							18						
19							19						
20							20						
21							21						
22							22						
23							23						
24							24						
25							25						

Record hits on pole (within 10 cm radius) per 0.1 m intervals up to 8 m; above 8 m, estimate > or < 5 hits per interval.

UTM coordinates: Easting (x) 0								
<b>Dominant habitat within 10 m:</b> Cottonw	vood/Willow Tamarisk Mixed N	Native/Exotic Other (specify: )						
Estimated canopy cover at the sensor ar	ray: Less than 25% 2.	5%-75% More than 75%						
Temperature/Relative Humidity (T/RH)								
Set-up: Date (MM/DD/YY):								
Logger 6-digit serial number (e.g., #63086 If NOT a nest site, what is the randomizati Column 1: Column 2:	on sequence used? Sequence #:	as red LED checked at set-up? Y or N 4: Column 5:						
If nest site, when was nest vacated (known	or estimated; MM/DD/YY)?							
Logger location: Tree Shrub Est. over	rall height of tree or shrub?	m Est. height of logger m						
Take-down: Date (MM/DD/YY):       Time (military):       Crew member(s):         Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., array blown out of tree, etc.)? No Yes If yes, explain:								
Soil	Moisture (SM) – Seasonal Vari	ation (SV)						
	Time	Crew						
Set-up: Date (MM/DD/YY):	(military):	member(s)						
6-digit sensor serial number:	6-digit logger serial number	er:						
Soil sample taken (at set-up only)? Yes								
1 1	1							
	Time	Crew						
		member(s):						
soil moisture data gathered by this sensor?	Yes No If yes, explain:	that might have influenced the accuracy of the						
Was site inundated/saturated at time when If yes, indicate depth of water: SAT								
Soil Moisture (SM) -	- Nest Site (NS), Within Territon	ry (WT), and Non-use (NU)						
Set-up: Date	Time	Crew						
(MM/DD/YY):	(military):	member(s)						
6-digit sensor serial number:	` • • • • • • • • • • • • • • • • • • •	:						
Soil sample taken (at set-up only)?  SM readings: Plot center		·						
North: 0.5 m 1.0 m	1.5 m	2.0 m						
East: 0.5 m 1.0 m	1.5 m							
<b>South:</b> 0.5 m 1.0 m	1.5 m	2.0 m						
West: 0.5 m 1.0 m	1.5 m	2.0 m						
Distance to saturated/inundated soil:	m							
Take-down: Date (MM/DD/YY):	Time (military):	Crew member(s):						
6-digit sensor serial number:	logger number:							
SM readings: Plot center								
North: 0.5 m 1.0 m								
East: 0.5 m 1.0 m								
South:       0.5 m       1.0 m         West:       0.5 m       1.0 m								
Distance to saturated/inundated soil:		2.0 III						

Location identifier format: Study area code (MW, MM, PA, TM) – Location code (NS, WT, SU, SVR, SVD) – Nest number (for NS, WT, SU locations) or Seasonal Variation number; e.g., TM-SU-9A or MM-SVD-2

**SAT decision rule:** A 1-cm-deep trench created with a stick fills with water or unstable mud in less than one minute.