

APPENDIX A
Field Data Forms

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SWFL SURVEY AND DETECTION FORM

Site Name (specific to patch) _____ Date _____

Observer(s) _____ UTM Zone _____

Start	Stop
Time _____	Time _____
UTM E 0 _____ N _____	UTM E 0 _____ N _____

Intermediate Waypoints			
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____
UTM E 0 _____	N _____	UTM E 0 _____	N _____

SWFL Detections				
UTM E 0 _____	N _____	Banded? Y N U	Pair? Y N	Nest Found? Y N
Comments _____				
UTM E 0 _____	N _____	Banded? Y N U	Pair? Y N	Nest Found? Y N
Comments _____				
UTM E 0 _____	N _____	Banded? Y N U	Pair? Y N	Nest Found? Y N
Comments _____				
UTM E 0 _____	N _____	Banded? Y N U	Pair? Y N	Nest Found? Y N
Comments _____				

Survey Summary				
Total survey hours _____	# SWFLS found _____	Est. # Pairs _____	Est. # Territories _____	
Playbacks used? Y or N	Cowbirds Detected? Y or N	If Y, approx # _____		
Sign of Livestock? Y or N	If yes, explain _____			

Additional Comments _____

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 _____

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 _____

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 _____

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 _____

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 _____

Vegetation at site: >90% native 50-90% native 50-90% exotic >90% exotic

Canopy closure: <25% 25-50% 50-70% 70-90% >90%

Dominant overstory species: TASP SAGO SAEX POFR Other _____

Overstory height (m): _____

Dominant understory species: TASP SAGO SAEX PLSE Other _____

Understory height (m): _____

Other vegetation types present (e.g., cattail)? Yes No

If yes, type of vegetation: _____ percentage of site: _____

type of vegetation: _____ percentage of site: _____

type of vegetation: _____ percentage of site: _____

% of site inundated: _____

Depth of surface water: toes (<5cm) ankles (5-15 cm) calves (15-40 cm) knees (40-60 cm)
thighs (60-80 cm) waist (100 cm) too deep to wade (>100 cm)

% of site with saturated soils: _____

If not inundated, distance to standing water or saturated soil (m): _____

Give a narrative description of the site, including adjacent habitats:

Additional comments: _____

SITE: _____ BANDER: _____ DATE: _____ TIME: _____ TERR AND NEST #: _____ NBN: _____ of _____ nestlings banded.

NOTES: _____

FEDERAL BAND #	COLOR COMBO		STATUS	SEX	CP	BP	AGE AHY, SY, L, or HY	FECAL SAMPLE? (Y or N)	BLOOD SAMPLES? (G and/or S)	FEATHER SAMPLE? (Y or N)	WING CHORD	TAIL	CULMEN LENGTH	CULMEN WIDTH	F A T	MASS
	L	R														

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)

Colorimeter sample: Yes or No (circle)

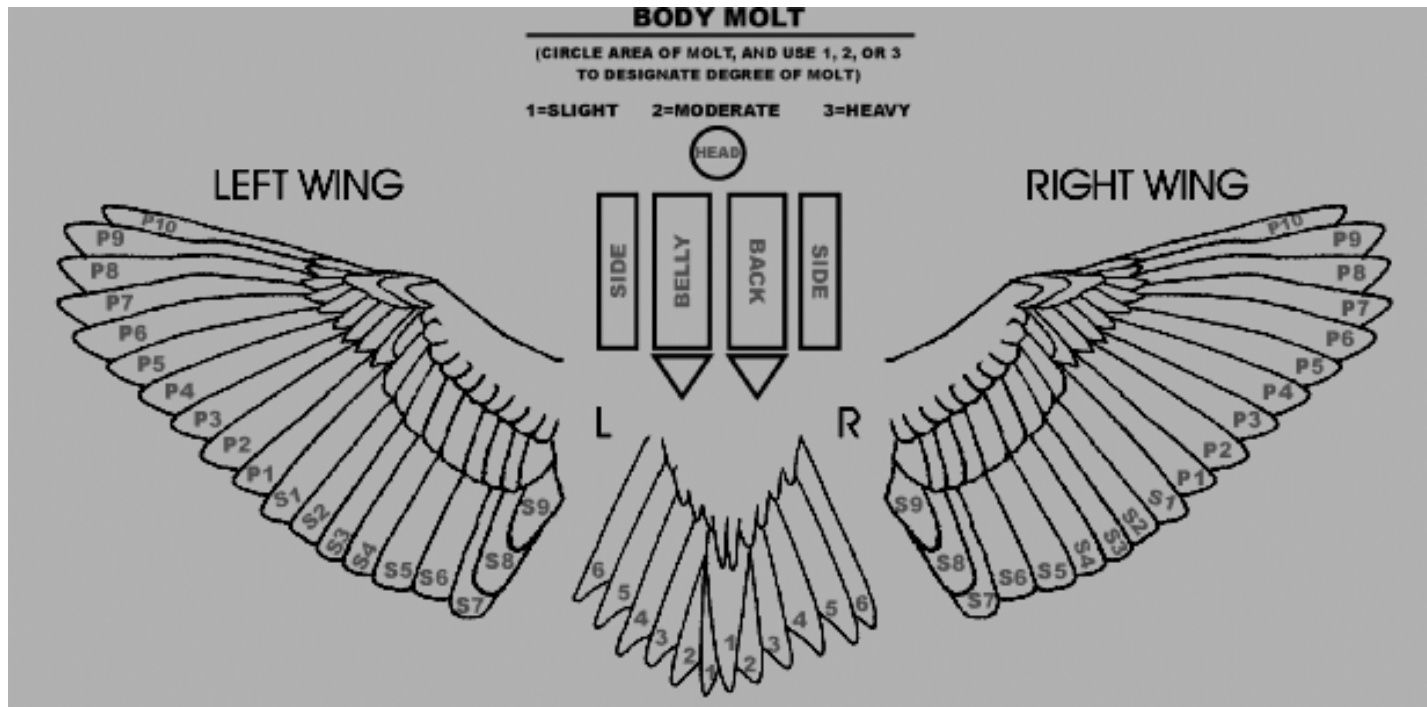
Blood Samples: G=genetics, S=slide

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): _____

DATE (e.g. 11 June 2004): _____

OBSERVER (e.g. M.A. McLeod): _____

FED BAND # : _____

CROWN MEASUREMENTS

PAGE (e.g. P12): _____

BACK MEASUREMENTS

PAGE (e.g. P13): _____

	L *	a *	b *
MAX			
MIN			
AVG			
SD			

	L *	a *	b *
MAX			
MIN			
AVG			
SD			

NOTES: _____

Willow Flycatcher Nest Record Form (2004)

Site name: _____ Patch Name: _____ Nest no.: _____

Nest Location: NAD: _____ Nest Height: _____ m (approximate)
 Zone: _____ Nest Substrate: _____ (e.g. TASP=tamarisk, SAGO=Gooding willow, POFR=cottonwood, SAGE=Geyer willow, etc.)

UTM's:
 Easting: _____ Distance to water when nest found: _____ (m)
 Northing: _____ Depth of surface water (please circle how wet you got when nest was found): toes (<5cm), ankles (5-15 cm), calves (15-40 cm), knees (40-60 cm), thighs (60-80 cm), waist (100 cm), too deep to wade (>100 cm)

PLEASE DO NOT FILL OUT ANYTHING BELOW

Bird 1: Color band combination: _____ **Band Number:** _____ Female

Bird 2: Color band combination: _____ **Band Number:** _____ Male

Willow Flycatcher			Willow Flycatcher			Cowbird			Cowbird		
Trans dates	B D	(T/F)	No.	Presumed	Confirmed	Trans dates	B D	(T/F)	No.	Complete? (T/F)	
											Eggs
											Nestlings
											Fledglings

Outcome (Record code & describe): _____ : _____

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="height: 20px;"></td> <td style="width: 30%;"></td> <td style="width: 30%;"></td> <td style="width: 20%;"></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> <td></td> </tr> </table> <p>Mayfield success codes: S= successful; D= depredated; U= status unknown/nest occupied- fate unknown; M= mortality other than predation; A= abandoned with host egg(s) or young; Z= abandoned, no (zero) eggs laid.</p>																				

COWBIRD TRAPPING DATA FORM

Name: _____

Date: _____

Start Time: _____

Location: _____

End Time: _____

Trap

	M	F	J	M	F	J	M	F	J	M	F	J	M	F	J	
COWBIRDS																
Newly Trapped																
Previous Decoys																
Removed																
Added																
Total left in Trap																
Non-Target Species																

Comments

LCR Southwestern Willow Flycatcher Project - Vegetation Datasheet 2004

Date:		Obs:		Site:		Plot type:		ID#:		UTM: E N	
Nest site only		Substr.:		All plot centers			Dist water: m				Total Canopy
Substr. DBH: cm		Substr. Ht.: m		Dist canopy gap: m			Dist. Broadleaf: m		N:	E:	N:
Nest Ht.: m		or %- % X m		Top Can.: m			or %- % X m		S:	W:	S:
Species		TASP	SAGO	SAEX	POFR	SNAG	OTSP1:_____	OTSP2:_____	OTSP3:_____		
Shrub/Sapling Count In 5m Plot < or = 8 cm dbh		<1									
		1-2.5									
		2.6-5.5									
		5.6-8									
		Sum									
Species		TASP	SAGO	SAEX	POFR	SNAG	OTSP1:_____	OTSP2:_____	OTSP3:_____		
Tree Count In 5m Plot > 8 cm dbh		8.1-10.5									
		10.5-15									
		Measured Trees >15 cm dbh									
Species		TASP	SAGO	SAEX	POFR	SNAG	OTSP1:_____	OTSP2:_____	OTSP3:_____		
Tree Count in 5m to 11.3m Plot >8 cm dbh											

NOTES

* 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

** If shrub/sapling/tree is not at least breast height, do not count

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

CENTER PLOT						
Height (m)	Hits/Species					
	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						

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)** _____

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

Date:		Obs.:		Site:		Plot type:		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.

** Other species (common name) _____

SWFL Microclimate Data Sheet

LOCATION IDENTIFIER _____ - _____ - _____

UTM coordinates: Easting (x) 0 _____ **Northing (y)** _____
Dominant habitat within 10 m: Cottonwood/Willow Tamarisk Mixed Native/Exotic Other (specify: _____)
Estimated canopy cover at the sensor array: Less than 25% 25%-75% More than 75%

Temperature/Relative Humidity (T/RH)

Set-up: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s) _____
 Logger 6-digit serial number (e.g., #630863): _____ Was red LED checked at set-up? Y or N
 If NOT a nest site, what is the randomization sequence used? Sequence #: _____
 Column 1: _____ Column 2: _____ Column 3: _____ Column 4: _____ Column 5: _____
 If nest site, when was nest vacated (known or estimated; MM/DD/YY)? _____
 Logger location: Tree Shrub Est. overall 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 Variation (SV)

Set-up: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s) _____
 6-digit sensor serial number: _____ 6-digit logger serial number: _____
 Soil sample taken (at set-up only)? Yes No If no, explain: _____

Dates sensor function was checked (approx. 10-day intervals): _____

Take-down: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____
 Did any event (e.g., unexpected flood, dug up by animal, vandalism) occur that might have influenced the accuracy of the soil moisture data gathered by this sensor? Yes No If yes, explain: _____

Was site inundated/saturated at time when soil moisture array was taken down? Yes No
 If yes, indicate depth of water: SAT <5 cm 5-15 cm 15-50 cm >50 cm

Soil Moisture (SM) – Nest Site (NS), Within Territory (WT), and Non-use (NU)

Set-up: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s) _____
 6-digit sensor serial number: _____ logger number: _____
 Soil sample taken (at set-up only)? Yes No If no, explain: _____

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 _____ 2.0 m _____
South: 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 _____ 1.5 m _____ 2.0 m _____
East: 0.5 m _____ 1.0 m _____ 1.5 m _____ 2.0 m _____
South: 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

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.