APPENDIX A FIELD DATA FORMS

LCR SWFL SURVEY AND DETECTION FORM 2003

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LCR SWFL SURVEY AND DETECTION FORM 2003 – Additional Detections

Site Name (specific to patch)______ Date _____

		SWFL D	etection	ıs						
UTM	E	N	Pair?	Y	or	N	Nest Found?	Y	or	N
Comme	ents									
UTM	E	N	Pair?	Y	or	N	Nest Found?	Y	or	N
Comme	ents									
			D : 0				N F 10			
		N								
Comme	ents									
LITM	F	N	Pair?	v	or	N	Nest Found?	v	or	 N
Commi										
UTM	E	N	Pair?	Y	or	N	Nest Found?	Y	or	N
UTM	E	N	Pair?	Y	or	N	Nest Found?	Y	or	N
UTM	E	N	Pair?	Y	or	N	Nest Found?	Y	or	N
Comme	ents									
		N		Y	or	N	Nest Found?	Y	or	N
Comme	ents									
			D : 0				N. F. 10			
		N				N	Nest Found?	Y	or	N
Comme	ents									
I ITN#		N	Doiro	v	0*	N	Nect Founds	v	0*	N
		N						I	OI	1.1
Commit	CIII.3									
UTM		N	Pair?	Y	or	N	Nest Found?	Y	or	 N
				_	<i>5</i> 1	-,	rest round:	-	01	-,
	-									

LCR SWFL General Site Description (Complete 3 times during season: approx. mid-month in May, June, and July)

Site name:		Date (MN	M/DD/YY):	
Observer(s):	_			
Vegetation at site: >90% native	50-90% native	50	9-90% exotic	>90% exotic
Canopy closure: <25%	25-50%	50-70%	70-90%	>90%
Dominant overstory species:				
Overstory height (m):				
Dominant understory species:				
Understory height (m):				
Other vegetation types present (e	e.g., cattail)?	Yes N	No	
If yes, type of vegetation:				
type of vegetation: type of vegetation:				
% of site inundated: % of site with saturated soils:			e water:	
If not inundated, distance to stan	ding water or sa	iturated s	oil (m):	
Notes:				

BANDING DATA FORM

SITE: NOTES:				DATE:	ATE: TIME:					AND NE	EST #:						
FEDERAL BAND#		LOR MBO R	STATUS N or R	S E X	C P	B P	AGE AHY, SY, L, or HY	BLO SAMF CARD	_	FECAL SAMPLE?	FEATHER SAMPLE?	WING CHORD	TAIL	CULMEN LENGTH	CULMEN WIDTH	F A T	MASS

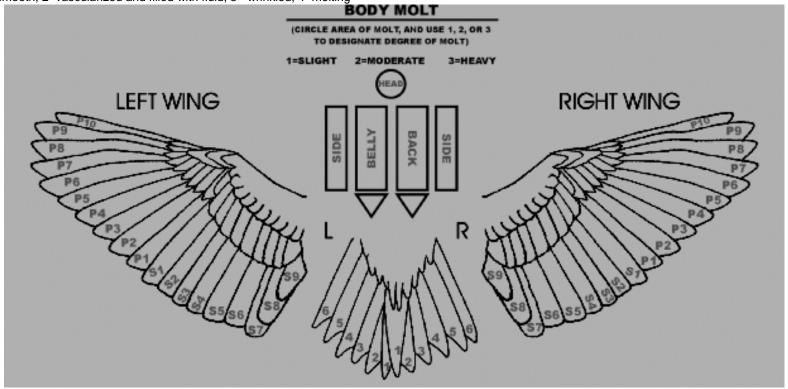
Retained Feathers Present: Yes or No (circle) – if Yes use diagram below

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

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

RESIGHT DATA FORM

				COLOR	COMBO						
OBS Use 3 initials	SITE 4 Letter Code	TERRI TORY	NEST	LEFT LEG (Top/ Bottom)	RIGHT 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 =
_	_	-	-		-	<u>-</u>					Service Band Number =
_	_	_	_		_	_					Service Band Number =
											Service Band Number =
-	_	-	-		-	-					Service Band Number =
-	_	-	_		-	-					Service Band Number =
-	_	-	-		-	-					Service Band Number =
-	-	-	-		-	-					
_	-	-	-		-	-					Service Band Number =
_	_	-	_		_	<u>-</u>					Service Band Number =
											Service Band Number =

Willow Flycatcher Nest Record Form (2003)

AGFD site (AZ Sites o				Si	te name:								Nest r	iO.:	
													Nest n Sites c		
Nest Locatio	n: N	NAD:			Nest Heigh	t:		m							
	2	Zone:			Nest Substr	ate:		(e	g. TASP=tamari	sk, SAG	O=Goodi	ng w	illow, PO	FR=cot	tonwood,
Quad/Topo l	Nam	e:		_	SAGE=Geyer UTM's: No										
					Ea	sting:									
Dind 1. Cala	L . a		Li					D	d Nivershows						Famala
									d Number:_						Female
Bird 2: Colo	r ba	nd com	binatio	n:				Ban	d Number:						Male
Wil	llow	Flycat	tcher		Wil	llow Flyc	atcher	-	Cowbird			_	Cowl	oird	
Trans dates	B D	(T/F)		No.	Presumed	Confirmed	d		Trans dates	B (7	Γ/F)		No.	Com	plete? (T/F)
	ı	Found					Eggs				First e				Eggs
		First e					Nestli	•			Hatch	_			Nestlings Fledgling
			comple	etion			Fledg	lings			Fledge	ed			rieugiiiig
		Hatchi	·	1.1											
		Fledge	ed or Fa	ilea											
Outcome (Red	cord co	de & 0	lescri	be):	.:									
Outcome code UN= unknown		= fledged	voung. wi	th at leas	st one young se	en leaving or i	in	Mayi	field Success						
the vicinity of if dependent fl	nest; ledgli	FP = fledg ng(s) nearl	ed young by; FU = s	, as deter	mined by parer I fledging of at	nts behaving as least one		(WIF	L) Period	# Exp	osure d	lays		Suc	ecess
young; FC = fl Nest partially	edgeo depre	d at least of dated with	ne host yo confirme	oung wit d fledgii	h cowbird parasing of at least on	sitism; FD = e young; PO =		Egg I	Laying						
probable preda	ation,	damage to	nest stru	cture; Po	st empty and in C= probable pre	dation by		Incub	ation						
egg(s) or youn	g; A	C= nest ab	andoned	due to co	eing laid; DE = cowbird; CO = fa	ilure due to		Nestling							
cowbird, host	attem	pted to rai	se cowbir	d young	No host young	were fledged									

from the nest; **WE**= failure due to weather; **HA**= failure due to human activities; **IN**= failure, entire clutch infertile; **OT**= failure due to other, or

unknown, causes.

 $\label{eq:mayfield success} \begin{array}{ll} \textbf{Mayfield success codes:} & \textbf{S}= \text{ successful;} & \textbf{D}= \text{ depredated;} & \textbf{U}= \text{ status } \\ \text{unknown/nest occupied- fate unknown;} & \textbf{M}= \text{ mortality other that predation;} \\ \textbf{A}= \text{ abandoned with host egg(s) or young;} & \textbf{Z}= \text{ abandoned, no (zero) eggs laid.} \\ \end{array}$

Willow Flycatcher Nest Record Form (continued)

AGFD	site no	.:			Site nar	ne:						Nest no.:
Date	Time	Obs	Mon Type	Stage	Adult pres.	# WF Egg	# CB Egg	# WF Nstl	# CB Nstl	#WF Fldg	Age Yng	Comments
	ı		1	l	l	I			1		1	•
	T	1		_	_			T		•		
	Т	1				1	1	ı		1		1
	T	ı				•	1	ı		1		
	ı	ı				1	1	T		T		
	T	ı		Т	Т	T.	1	Т		1		1
	ı	ı		_	_	1	1	ı		1		1
	T	T	1	1	1	I	1	ı	1	1	1	
	T	I		1	1	I	1			1	1	
	T	ı	ı	1	1	ı	1		ı	1	ı	
1												

COWBIRD TRAPPING DATA FORM

Name:				_								D	ate:					
												Star	t Time:					
Location:				_								End	Time:					
								Tra	р#									
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																		
	•										•							
Comments																		

LCR Southwestern Willow Flycatcher Project - Vegetation Datasheet 2003

Da	ate:			C)bs:		Site	e:	Plot type:		ID#:	U	TM:	Е		N
Nes	st sit	te o	nly	-	Substr.:			All plot co	enters			m	Woody Gro	und Cover	To	otal Canopy
Sub	str. [DВН	1 :	cm	Substr.	Ht.:	m	Dist canopy	gap: m	Dist	. Broadleaf:	m	N:	E:	N:	
Nes or	t Ht.:		%-	m	% X	m		Top Can.:	m %- %	X	m		S:	W:	S:	
	Spe			Т	ASP	SAG		SAEX	1		SNAG	0.	TSP1:	OTSP2:	Ч	OTSP3:
	<u> </u>		<1													
		Shi														
< or =	<u> </u>	rub/S	1-2.5													
or = 8 cm dbh	In 5m Plot	apling	2.6-5.5													
dbh	₽ '	Shrub/Sapling Count	5.6-8													
		₽.	Sum													
	Spe	cie	s	Т	ASP	SAG	0	SAEX	РОГ	R	SNAG	0	ΓSP1:	OTSP2:		OTSP3:
			8.1- 10.5													
v	_	Ţ	10.5- 15													
> 8 cm dbh	In 5m Plot	Tree Count	M.													
dbh	ot	unt	Measured Trees >15 cm dbh													
			Trees dbh													
	Spe	cie	s	Т	ASP	SAG	0	SAEX	. POF	R	SNAG	0	ΓSP1:	OTSP2:		OTSP3:
	Plot >8 cm dbh	5m to 11.3n	Tree Count													
	ž	1	₽.						NO'	ГES						
									110	0						

^{*} 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

		CENT	TER PI	LOT		
				pecies		
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						

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 (comme	on name)	
· · · Other species (comin	on name)	

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

Date:	Ol	bs.:			Site:		P	lot type	e:		ID#:		
NODTH	Į.		TT'4 /G			al Folia	age Volu EAST	me		TT'4 ./C	1 •		
NORTH			Hits/S								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 **	Otsp **
3 4 5 6 7 6 7 8 9 10 11 11 12 12 13 14 15 15 16 17 18 19	
4 5 6 6 7 7 8 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 19	
5 6 7 7 8 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 19	
6 7 8 8 9 10 11 11 12 12 13 13 14 14 15 16 17 17 18 19	
7 8 9 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 18 19 19	
8 9 10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 18 19 19	
9 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19	
10 10 11 11 12 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19	
11 12 13 13 14 14 15 15 16 16 17 17 18 18 19 19	
12 13 14 15 16 17 18 19	
13 14 15 15 16 16 17 17 18 18 19 19	
14 14 15 15 16 16 17 17 18 18 19 19	
15 15 16 16 17 17 18 18 19 19	
16 16 17 17 18 18 19 19	
17 17 18 18 19 19	
18 19 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 Study: Sensor Array Set-Up Sheet

(Circle choices; write neatly or die)

Study area: Mesquite West (M	(W) Mormon Mesa (MM) Pahra	anagat (PA) Topock Marsh (TM)			
Sensor array location: Nest Site (NS) Within Territory (WT) Suitable but Unoccupied (SU) Seasonal Variation Riparian (SVR) Seasonal Variation Desertscrub (SVD)					
Date (MM/DD/YY): Time (military): Crew member(s)					
UTM coordinates of sensor array: Easting (x) Northing (y)					
	ttonwood/Willow Tamarisk xed Native/Exotic Other (spec	Willow eify:			
Estimated canopy cover at the sensor array: Less than 25% 25%-75% More than 75%					

Temperature/Relative Humidity (T/RH) Sensor Array

Site identifier (see codes):	Sensor 6-digit serial number (e.g., #630863):				
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)?					
Sensor array location: Tree Shrub Est. overall height of tree or shrub? meters					

Soil Moisture (SM) – Seasonal Variation (SV) Sensor Array and Probe Data

Site identifier (see codes): If SV sensor, 6-digit serial number:				
If SV sensor, dates sensor function was checked (approx. 10-day intervals):				
Soil sample taken (at set-up only)? Yes No If no, explain:				
For probe	e data, if site was inundated/satu	rated at time when temp./rel. hur	midity sensor array was set up,	
-		y or presence of saturated soil (S	5 5	
	1	t-up, that site was monitored. If	, , , , , , , , , , , , , , , , , , ,	
give SM 1	reading (%) from hand-held pro	be and serial number of probe.		
Date:	H_2O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H₂O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	$\mathbf{H_2O}$ depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H₂O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H₂O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H₂O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H₂O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	
Date:	H_2O depth: SAT <5cm 5-15	cm 15-50cm >50cm or SM readi	ing: and serial #	

Site identifier format: Study area code (MW, MM, PA, TM) – Location code (NS, WT, SU, SVR, SVD) – Type of sensor (T/RH, SM) – Nest number (for NS, WT, SU locations); e.g., TM-SU-T/RH-09 SAT decision rule: A 1-cm-deep trench created with a stick fills with water or unstable mud in less than one minute.

Notes:

SWFL Microclimate Study: Sensor Array Takedown Sheet

(Circle the appropriate response; write neatly or die)

Study area:	Mesquite West (M	W) Mormon Mesa (MM)	Pahranagat (PA) Topock Marsh (TM)		
Sensor array location: Nest Site (NS) Within Territory (WT) Suitable but Unoccupied (SU) Seasonal Variation Riparian (SVR) Seasonal Variation Desertscrub (SVD)					
Date (MM/DD/YY): Time		Time (military):	Crew member(s)		
UTM coordinates of sensor array: Easting (x)		Northing (y)			

Temperature/Relative Humidity (T/RH) Sensor Array

Site identifier (see codes):
Sensor 6-digit serial number (e.g. #630863):
If nest site, when was nest vacated (known or estimated; MM/DD/YY)?
When was sensor array set up? Date (MM/DD/YY): Time (military):
Number of full (midnight-to-midnight) days this sensor array has been in place?
Did any events occur that might have interfered with accuracy of data gathered by this sensor
array (e.g., array blown out of tree, etc.)? No Yes If yes, explain:

Soil	Moistur	e (SM) - S	Seasonal Va	riation (SV) Sensor Array	
Site identifier (see codes):					
6-digit serial number (e.	g., #6310)72):				
Did any event (e.g., unex	pected f	lood, dug	g up by anii	nal, vandali	sm) occur that	might have
influenced the accuracy	of the so	il moistu	re data gat	hered by thi	s sensor? No	Yes
If yes, explain:						
• •						
Was site inundated/saturated at time when soil moisture array was taken down? Yes No						
If yes, indicate depth of water at sensor array or presence of saturated soils (SAT; refer to						
decision rule).				15-50 cm	•	,
0.00.0000000000000000000000000000000000	2111	0 0111	0 10 0111	10 00 0111	00 0111	

Site identifier format: Study area code (MW, MM, PA, TM) – Location code (NS, WT, SU, SVR, SVD) – Type of sensor (T/RH, SM) – Nest number (for NS, WT, SU locations); e.g., TM-SU-T/RH-09 SAT decision rule: A 1-cm-deep trench created with a stick fills with water or unstable mud in less than one minute.

Notes: