

APPENDIX A

Field Data Forms

SWFL SURVEY AND DETECTION FORM

Study Area _____ Survey Site _____ Date _____

Observer(s) _____ UTM Zone _____

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

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 _____

SWFL SURVEY AND DETECTION FORM – Additional Waypoints

Study Area _____ Survey Site _____ Date _____

Observer(s) _____ UTM Zone _____

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 _____
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 _____
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 _____
UTM E 0 _____ N _____	UTM E 0 _____ N _____
UTM E 0 _____ N _____	UTM E 0 _____ N _____

Comments _____

SWFL SURVEY AND DETECTION FORM – Additional Detections

Study Area _____ Survey Site _____ Date _____

Observer(s) _____ UTM Zone _____

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 _____

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 _____

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 _____

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

STUDY AREA: _____ SITE: _____ BANDER: _____ DATE: _____ TIME: _____ TERR/NEST #: _____ NBN: _____ of _____ nestlings banded.

FEDERAL BAND #	COLOR COMBO		STATUS	SEX	S	C	B	AGE	FECAL SAMPLE? (Y or N)	GENETIC SAMPLE? (Y or N)	FEATHER SAMPLE? (Y or N)	WING CHORD (mm)	TAIL (mm)	CULMEN LENGTH (mm)	CULMEN WIDTH (mm)	F	MASS (g)
	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

Colorimeter sample: Yes or No (circle)
Tail older (more worn) than PPs and SSSs? Yes or No (Circle)

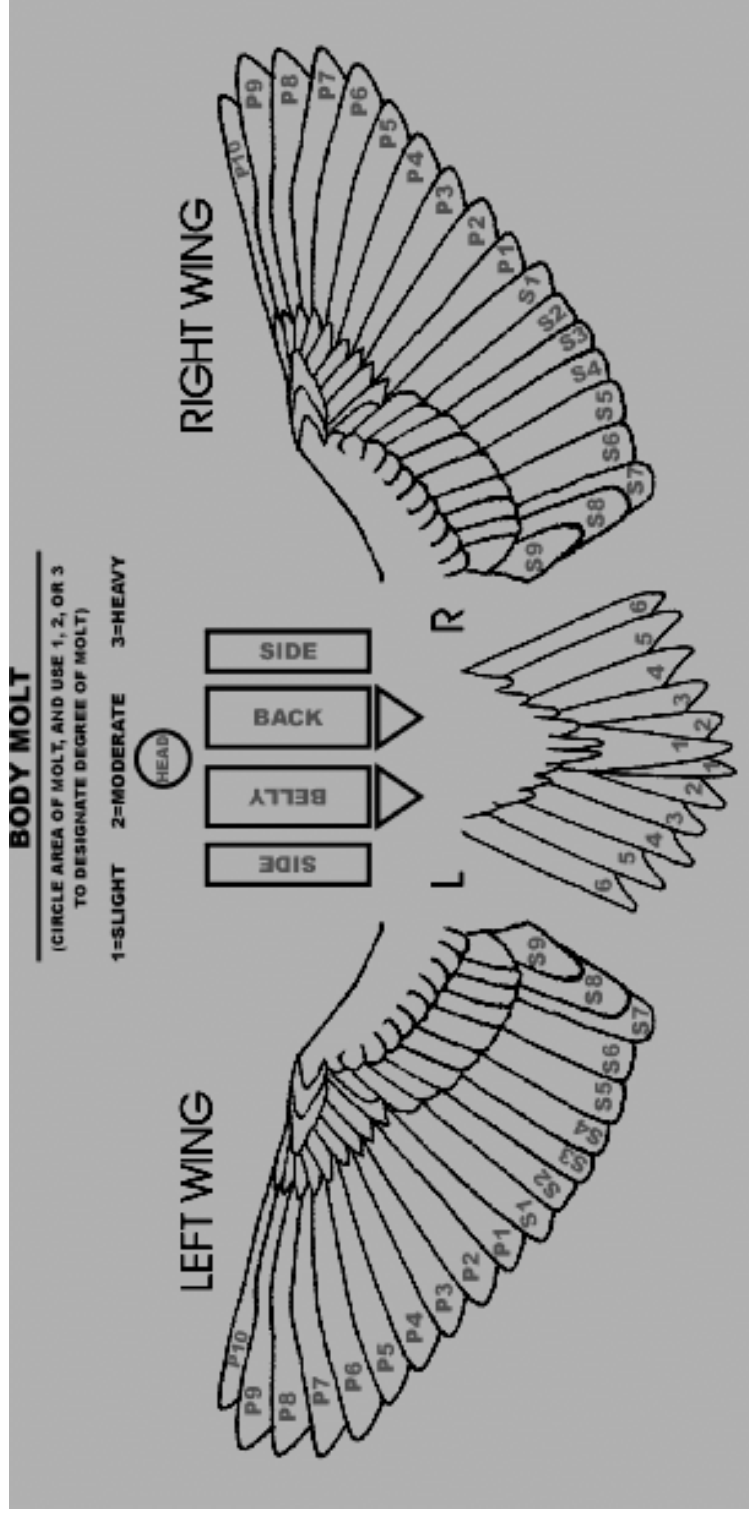
STATUS: NCP (new cap passive), NCT (new cap target), RCP (recap passive), RCT (recap target), NBN (nestling banded)

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

FAT: 0 = no fat; 1 = trace of fat in furculum, deeply concave; scattered patches, less than 5 percent filled; 2 = thin layer of fat in furculum, less than a third filled, trace of thin layer of fat in abdomen; 3 = furculum is 1/2 filled or more. Small patches, not covering some areas, on abdomen; or 4 = furculum more than 2/3 filled, level with clavicles, slightly mounded on abdomen



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

Colorimetry Data Sheet

SITE: _____ DATE: _____

BANDER: _____ FED BAND NUMBER: _____

CROWN MEASUREMENTS

PAGE: _____

	L*	a*	b*
1			
2			
3			
4			
5			
6			
7			
8			
MAX			
MIN			
AVG			
SD			

BACK MEASUREMENTS

PAGE: _____

	L*	a*	b*
1			
2			
3			
4			
5			
6			
7			
8			
MAX			
MIN			
AVG			
SD			

NOTES:

OBS	STUDY AREA	TERR	NEST	COLOR COMBO		CONF LEVEL	ASSOC WITH A NEST?	CAPTURE?	# WIFLS PRESENT	SEX	NBN (__ of __)	OBSERVATIONS AND COMMENTS: discuss observations & activities.
				LEFT LEG (Top/ Bottom)	RIGHT LEG (Top/ Bottom)							
												Service Band Number =
												Service Band Number =
												Service Band Number =
												Service Band Number =
												Service Band Number =
												Service Band Number =
												Service Band Number =
												Service Band Number =
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												Service Band Number =
												Service Band Number =
												Service Band Number =

Willow Flycatcher Territory/Nest Record Form (2005)

Study Area: _____ Survey Site: _____ Territory/Nest no.: _____

Territory/Nest Location:
NAD: _____ Zone: _____

Nest Height: _____ m (approximate)

Territory UTM's:

Nest Substrate: _____ (e.g., TASP=tamarisk, SAGO=Goodding willow, POFR=cottonwood, SAEX = coyote willow, etc.)

Easting: _____

Distance to standing water or saturated soil when nest found: _____ (m)

Northing: _____

GPS Accuracy: _____ m

Depth of surface water at nest (please circle how wet you got when nest was found):

dry saturated soil toes (<5cm) ankles (5-15 cm)

Nest UTM's:

calves (15-40 cm) knees (40-60 cm) thighs (60-80 cm)

Easting: _____

waist (100 cm) too deep to wade (>100 cm)

Northing: _____

GPS Accuracy: _____ m

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					Eggs
						Nestlings					Nestlings
						Fledglings					Fledgling

Outcome (Record code & describe): _____ : _____

	<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>
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Brown-headed Cowbird Traps

Observer(s): _____ Start Time: _____ End Time: _____ Date: _____

Study Area: _____

Trap #

	M			F			J			M			F			J		
COWBIRDS																		
Decoys previously in trap ¹																		
Newly trapped																		
Added ²																		
Died in trap																		
Escaped																		
Transferred ³																		
Euthanized																		
Total left in trap⁴																		
NON-TARGET SPECIES⁵																		

Comments _____

LCR Southwestern Willow Flycatcher Project - Vegetation Datasheet

Study area:			Survey site:			Plot type:			ID#:			
Date:		Obs:			UTM: E			N		GPS Accuracy: m		
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										
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							
	Hits/Species						
Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp 1*	Otsp 2**
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 0, < 5, or > 5 or hits per meter interval.

* Other species 1 (write out full name) _____

** Other species 2 (write out full name) _____

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

Study area:		Survey site:				Plot type:				ID#:					
Date:		Obs.:													
Vertical Foliage Volume															
NORTH	Hits/Species							EAST	Hits/Species						
Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp 1*	Otsp 2**	Height (m)	Tasp	Sago	Saex	Pofr	Snag	Otsp 1**	Otsp 2**
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 1

* Other species 1 (write out full name) _____

** Other species 2 (write out full name) _____

SIDE 2

SOUTH	Tasp	Sago	Saex	Pofr	Snag	Otsp 1*	Otsp 2**	WEST	Tasp	Sago	Saex	Pofr	Snag	Otsp 1*	Otsp 2**
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 0, < 5, or > 5 hits per interval.

* Other species 1 (write out full name) _____

** Other species 2 (write out full name) _____

SWFL Microclimate at Life History Study Areas

Study Area _____ **Survey Site** _____ **LOCATION ID** _____ - _____ - _____
 (Study area) – (Location) – (Number)

UTM coordinates: Easting (x) 0 _____ **Northing (y)** _____ **Accuracy** _____ m

Dominant habitat within 10 m: Cottonwood/Willow Tamarisk Mixed Native/Exotic Other (specify: _____)

Estimated canopy cover at the logger: 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 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): _____

Logger 6-digit serial number (e.g., #630863): _____

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)

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 _____ % _____ mV

N: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV	S: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV
E: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV	W: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV

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 _____ % _____ mV

N: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV	S: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV
E: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV	W: 1.0 m _____ % _____ mV	2.0 m _____ % _____ mV

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

SWFL Microclimate at Life History Study Areas

Seasonal Variation Supplement

Study Area _____ Survey Site _____ LOCATION ID _____-_____-_____
 (Study area) – (Location) – (Number)

Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____% _____mV					
N: 1.0 m _____% _____mV		2.0 m _____% _____mV		S: 1.0 m _____% _____mV	
E: 1.0 m _____% _____mV		2.0 m _____% _____mV		W: 1.0 m _____% _____mV	
Distance to saturated/inundated soil: _____ m					

Microclimate at Sites South of Topock – T/RH

Study Area _____ **Survey Site** _____ **LOCATION ID** _____ – _____ – _____
 (Study area) – (Survey site) – (Number)

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

Temperature/Relative Humidity (T/RH)

<p>Set-up: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____</p> <p>Logger 6-digit serial number (e.g., #630863): _____ Was red LED checked at set-up? Y or N</p> <p>Logger location: Tree Shrub Est. overall height of tree or shrub? _____ m Est. height of logger _____ m</p>
<p>Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____</p> <p>Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N</p> <p>Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)? No Yes If yes, explain:</p>
<p>Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____</p> <p>Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N</p> <p>Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)? No Yes If yes, explain:</p>
<p>Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____</p> <p>Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N</p> <p>Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)? No Yes If yes, explain:</p>
<p>Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____</p> <p>Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N</p> <p>Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)? No Yes If yes, explain:</p>

Location ID codes: Study area codes – Topock Gorge = TG, Ehrenberg = EH, Cibola = CI, Imperial = IM, Mittry = MI, Yuma = YU.
 Survey site codes – Blankenship = BK, Havasu NE = HV, Three Fingers Lake = TF, Cibola Lake = CL, Walker Lake = WL, Paradise = PV, Hoge Ranch = HR, Rattlesnake = RS, Clear Lake = LK, Ferguson Lake = FL, Ferguson Wash = FW, Great Blue Heron = GB, Martinez Lake = ML, Mittry West = MW, Gila Confluence North = GC

Microclimate at Sites South of Topock – T/RH, continued

Study Area _____ **Survey Site** _____ **LOCATION ID** _____ - _____ - _____
 (Study area) – (Survey site) – (Number)

Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____

Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N

Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)?

No Yes If yes, explain:

Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____

Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N

Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)?

No Yes If yes, explain:

Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____

Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N

Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)?

No Yes If yes, explain:

Download: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____

Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N

Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)?

No Yes If yes, explain:

Takedown: Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____

Logger 6-digit serial number (e.g., #630863): _____ Did you check red LED? Y or N

Did any events occur that might have interfered with accuracy of data gathered by this logger (e.g., blown out of tree, etc.)?

No Yes If yes, explain:

Microclimate at Sites South of Topock – Soil Moisture 2005

Study Area _____ **Survey Site** _____ **LOCATION ID** _____ - _____ - _____
 (Study area) – (Survey site) – (Number)

Soil Moisture (SM)

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 _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			
Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____ 6-digit sensor serial number: _____ logger number: _____ SM readings: Plot center _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			
Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____ 6-digit sensor serial number: _____ logger number: _____ SM readings: Plot center _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			
Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____ 6-digit sensor serial number: _____ logger number: _____ SM readings: Plot center _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			
Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____ 6-digit sensor serial number: _____ logger number: _____ SM readings: Plot center _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			
Date (MM/DD/YY): _____ Time (military): _____ Crew member(s): _____ 6-digit sensor serial number: _____ logger number: _____ SM readings: Plot center _____ % _____ mV N: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV S: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV E: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV W: 1.0 m _____ % _____ mV 2.0 m _____ % _____ mV Distance to saturated/inundated soil: _____ m			

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Supplement

Study Area _____ Survey Site _____ LOCATION ID _____-_____-_____
 (Study area) – (Survey site) – (Number)

Additional SM readings

Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____ % _____ mV					
N: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		S: 1.0 m _____ % _____ mV	
E: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		W: 1.0 m _____ % _____ mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____ % _____ mV					
N: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		S: 1.0 m _____ % _____ mV	
E: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		W: 1.0 m _____ % _____ mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____ % _____ mV					
N: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		S: 1.0 m _____ % _____ mV	
E: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		W: 1.0 m _____ % _____ mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____ % _____ mV					
N: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		S: 1.0 m _____ % _____ mV	
E: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		W: 1.0 m _____ % _____ mV	
Distance to saturated/inundated soil: _____ m					
Date (MM/DD/YY): _____		Time (military): _____		Crew member(s): _____	
6-digit sensor serial number: _____		logger number: _____			
SM readings: Plot center _____ % _____ mV					
N: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		S: 1.0 m _____ % _____ mV	
E: 1.0 m _____ % _____ mV		2.0 m _____ % _____ mV		W: 1.0 m _____ % _____ mV	
Distance to saturated/inundated soil: _____ m					