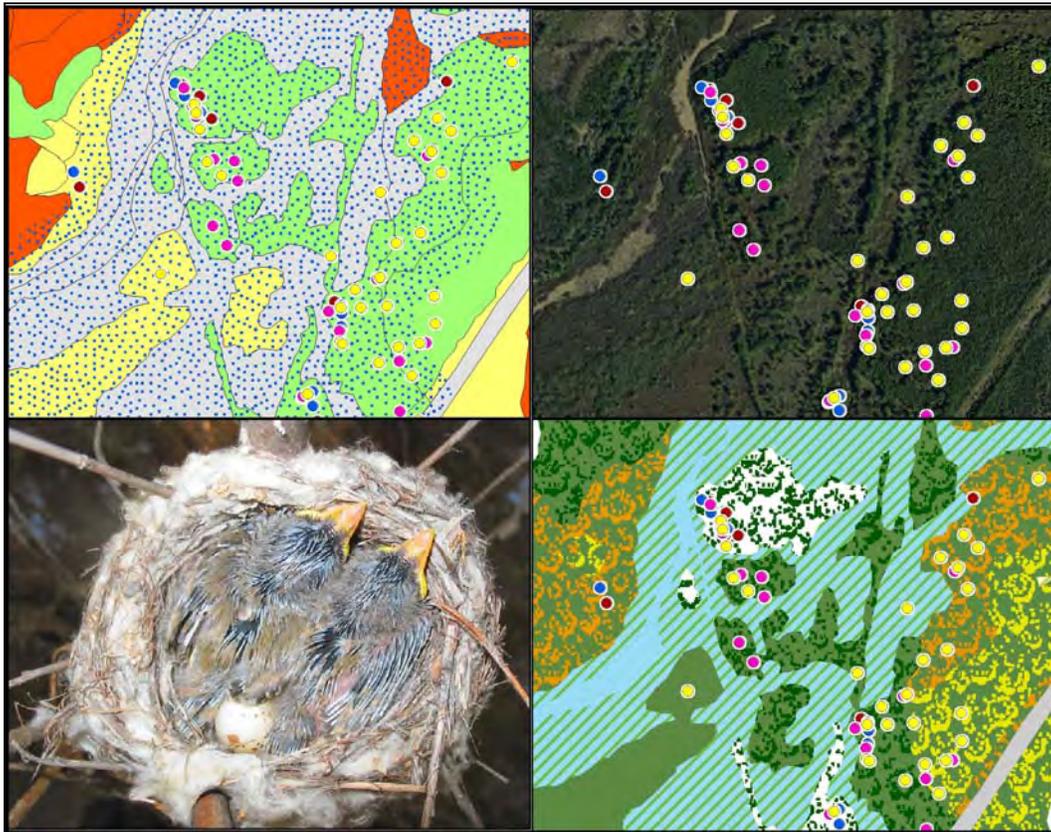


RECLAMATION

Managing Water in the West

Southwestern Willow Flycatcher Habitat Suitability 2008

Highway 60 Downstream to Elephant Butte Reservoir, NM



U.S. Department of the Interior
Bureau of Reclamation
Technical Service Center
Fisheries and Wildlife Resources Group
Denver, Colorado

June 2010

Mission Statements

The mission of the Department of the Interior is to protect and provide access to our Nation's natural and cultural heritage and honor our trust responsibilities to Indian Tribes and our commitments to island communities.

The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.

Southwestern Willow Flycatcher Habitat Suitability 2008

Highway 60 Downstream to Elephant Butte Reservoir, NM

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Contents

INTRODUCTION / BACKGROUND	1
METHODS	2
Fieldwork/Groundtruthing	2
Habitat Modeling	7
RESULTS AND DISCUSSION	9
RECOMMENDATIONS.....	12
REFERENCES.....	14

Appendices

Appendix A— Southwestern Willow Flycatcher Habitat Suitability and Major Plant Communities Maps and Associated Tables

Tables

<i>Tables</i>	<i>Page</i>
1 Plant species codes used in the Hink and Ohmart vegetation classification.....	4
2 Codes used for non-woody vegetation and land types in the Modified Hink and Ohmart vegetation classification.....	4
3 Vegetation types classified within suitable, moderately suitable, unsuitable, and non- habitat for Southwestern Willow Flycatchers	10

Figures

<i>Figures</i>	<i>Page</i>
1 Data form used for the Modified Hink and Ohmart vegetation classification and mapping.....	3
2 The number of acres of suitable and moderately suitable SWFL habitat by river reach along the Middle Rio Grande, New Mexico	13
3 The number of SWFL territories detected by river reach along the Middle Rio Grande, New Mexico	13

INTRODUCTION / BACKGROUND

In 2008, the Bureau of Reclamation (Reclamation) conducted a Geographic Information Systems (GIS) -based inventory and mapping project that included riparian areas along the Rio Grande from Highway 60 to Elephant Butte Dam in New Mexico. This mapping effort was based on 2007 photography. Mapping methods employed a classification system created by the Middle Rio Grande Biological Survey (Hink and Ohmart 1984) with minor modifications. Hink and Ohmart conducted an exhaustive biological analysis of the Rio Grande that included a classification of vegetation community and structure in the riparian zone of the river (levee to levee). In addition, bird and mammal abundance were correlated with vegetation types, making this system useful for determining the wildlife value of vegetation in the area.

The objectives for mapping in 2008 were twofold. One goal was to capture trends in the development of vegetation within the study area. Another, and more important, goal was to use the data to identify vegetation types that provided suitable habitat for endangered Southwestern Willow Flycatchers (*Empidonax traillii extimus* - SWFL), which have established territories within this reach of the Rio Grande. These data could then be used for making sound management decisions in areas that were either occupied or likely to be occupied by SWFLs. Data would also help to evaluate if habitat conditions for the species were improving or deteriorating at specific sites. Evaluation of habitat conditions is an ongoing process carried out through comparisons of past and present mapping efforts. Data could also aid in identifying factors that may cause these trends such as vegetation density and structure.

Two previous mapping projects were conducted by Reclamation within the same reach, with the initial project carried out from 2002-2004 and another completed in 2005. Data from the previous mapping efforts were applied in 2008. These initial studies established the basis for the 2008 suitability study.

From 2002 to 2004, mapping was conducted to collect baseline data on riparian vegetation for the ESA Collaborative Program and the Upper Rio Grande Basin Water Operations Review Environmental Impact Statement (Callahan and White 2004). The study area included the Chama River in New Mexico from El Vado Dam to the confluence with the Rio Grande and continuing south along the Rio Grande to the full pool elevation of Elephant Butte Reservoir. Mapping methods were developed by GIS analysts and biologists representing Army Corps of Engineers, Reclamation, and New Mexico Interstate Stream Commission. The goal for the vegetation mapping effort from 2002-2004 was to replicate (as accurately as possible) the original Hink and Ohmart methods, so that the two data sets could be compared.

In 2005, Reclamation mapped an area from the full pool elevation of Elephant Butte Reservoir (4407 ft) to Monticello Bay using the same methodology as the 2002-2004 mapping effort. The area included in the 2005 maps incorporated all of the new

vegetation that had developed since the earlier mapping project as reservoir levels dropped.

METHODS

There were essentially two stages involved in this mapping project: fieldwork/groundtruthing and habitat modeling. During the fieldwork and groundtruthing phase, biologists were on the ground collecting information pertaining to characteristics of the vegetation within the mapping area. Aerial photos were used to delineate different vegetation types as data were gathered. These data were then used to assign a classification to each vegetation community type. In the next phase, data were converted to GIS and vegetation maps were created using the recently delineated aerial photos and the GIS files produced during the previous mapping efforts. The SWFL detections from 2006 to 2009 were overlaid onto the vegetation maps to create the SWFL habitat suitability model.

Fieldwork/Groundtruthing

Fieldwork was conducted between May and September 2008 to update vegetation classifications along the Middle Rio Grande. Aerial photographs were used as base maps for fieldwork. These aerial photographs were natural color, flown in October 2007 at 1:24,000 (1" = 2000'). Coverage of the photos spanned from approximately 10 miles north of Highway 60 to 1 mile south of the Elephant Butte Reservoir Dam. Total coverage consisted of approximately 115 river miles.

Biologists navigated the banks of the river and evaluated the surrounding vegetation. An aerial photograph field map that was created using the polygons and classification codes from the 2002-2004 data collection (except in the Elephant Butte stretch where 2005 data were used) served as a guide. If groundtruthing proved that vegetation had changed since previous mapping, polygons were revised on the map and the extent of similar vegetation was estimated. The earlier data sets were also used as a guide when the aerial photos did not show obvious changes between community-structure types. The previous maps were then used to distinguish polygon boundaries and helped to identify areas where groundtruthing was potentially important. When it was not possible to access an area on foot due to restricted access, private property, lack of time, or elevated water levels, the area on the map was marked as a place to photo interpret later.

Polygons or habitat clumps larger than 2 acres were mapped. A GPS unit was used to aid in navigation and to mark locations that best represented the polygon (typically in the center of the polygon). A photograph was taken at the waypoint to represent the vegetation community and structure of each polygon.

Biologists completed data sheets for most polygons (Figure 1), which essentially led them through the Modified Hink and Ohmart vegetation classification process. The classification method included categorizing vegetation polygons into community types

H&O Classification Form									
Date									
Recorder, Phone #									
Polygon ID			Photo Number						
UTM NAD 83 Coordinates	X								
	Y								
Waypoint #			Time						
Riparian Woody Vegetation									
Species Codes ATX = Fourwing Saltbush B = Baccharis (Seep Willow) C = Cottonwood CAT = Cattail CR = Creosote CW = Coyote Willow HMS = Honey Mesquite NMO = New Mexico Olive RO = Russian Olive SBM = Screwbean Mesquite SC = Salt cedar TW = Tree Willow	C	a	Height and Cover						
			Canopy Cover	> 40 ft.	1-25%	25-50%	50-75%	75-100%	
				15-40 ft.	1-25%	25-50%	50-75%	75-100%	
			% Dead		1-25%	25-50%	50-75%	75-100%	
			Species (Relative foliage cover) - Circle one for each species present						
					1-25%	25-50%	50-75%	75-100%	
					1-25%	25-50%	50-75%	75-100%	
	U	n	d	Height and Cover					
				Height	5-15 ft.	1-25%	25-50%	50-75%	75-100%
					<5 ft.	1-25%	25-50%	50-75%	75-100%
				% Dead		1-25%	25-50%	50-75%	75-100%
				Species (Relative foliage cover) - Circle one for each species present					
						1-25%	25-50%	50-75%	75-100%
						1-25%	25-50%	50-75%	75-100%
Wetland									
Cattail marsh			Grass Meadow						
Other									
Open Area		Ag-Agriculture		Road					
Impacts									
Burned recently			Mechanical clearing		Manual clearing - stumps/piles				
Understory Clearing			Jetty Jack Removal						
Notes									

Figure 1.—Data form used for the Modified Hink and Ohmart vegetation classification and mapping.

and structure classes using an alphanumeric descriptive code (referred to as the Modified Hink and Ohmart code). Each woody riparian plant species was assigned a letter code (i.e. the species code, see Table 1). Codes were also assigned for non-woody vegetation and non-vegetated land types (Table 2). The Modified Hink and Ohmart code consisted of species codes for the canopy layer, species codes for the understory layer, and a community type number signifying the height of the canopy and density of the understory.

Table 1.—Plant species codes.

Species code	Common name	Scientific name
ATX	Fourwing saltbush	<i>Atriplex canescens</i>
B	Seep willow	<i>Baccharis salicifolia</i>
C	Cottonwood	<i>Populus</i> spp
CAT	Cattail	<i>Typha</i> spp
CR	Creosote	<i>Larrea tridentata</i>
CW	Coyote willow	<i>Salix exigua</i>
HMS	Honey mesquite	<i>Prosopis glandulosa</i>
NMO	New Mexico olive	<i>Forestiera pubescens</i>
RO	Russian olive	<i>Elaeagnus angustifolia</i>
SBM	Screwbean mesquite	<i>Prosopis pubescens</i>
SC	Saltcedar	<i>Tamarix</i> spp
TW	Tree willow	<i>Salix gooddingii</i>

Table 2. —Codes used for non-woody vegetation and land types.

Code	Non-woody vegetation or land type
CAT	Cattail (CAT5,CAT5d,CAT6,CAT6d are equivalent to MH)
MS	Meadow
MH	Marsh with sedge, rush, or other permanent marsh vegetation
OP	Open area (vegetation <25% aerial coverage)
OW	Open water
LFCC	Low Flow Conveyance Channel
AG	Agricultural
RD	Road
RR	Railroad

Community type numbers are described below:

Overstory Communities



Type 1 – Tall/mature trees with well-developed understory.
Tall or mature-aged trees (>40ft) with canopy covering >25% of the area of the community (polygon) *and* understory layer (0-15ft) covering >25% of the area of the community (polygon). Substantial foliage in canopy and understory.

Type 1d – Type 1 with >50% total aerial vegetation cover

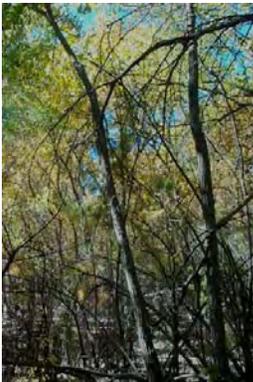


Type 2 – Tall/mature trees with little or no understory.
Tall or mature-aged trees (>40ft) with canopy covering >25% of the area of the community (polygon) *and* understory layer (0-15ft) covering <25% of the area of the community (polygon). Majority of foliage over 40 ft and/or very mature canopy.



Type 3 – Intermediate-sized trees with understory.
Intermediate sized trees (15-40ft) with canopy covering >25% of the area of the community (polygon) *and* understory layer (0-15ft) covering >25% of the area of the community (polygon). Majority of foliage between 0-30 ft.

Type 3d– Type 3 with >50% total aerial vegetation cover



Type 4 – Intermediate-sized trees with little or no understory.
Intermediate-sized trees (15-40ft) with canopy covering > 25% of the area of the community (polygon) *and* understory layer (0-15ft) covering < 25% of the area of the community (polygon). Majority of foliage between 15-40 ft.



Type 5 - Stands with dense shrubby growth.

Understory layer only (5-15 ft) covering >25% of the area of the community (polygon). Stands where there is a significant amount of foliage between 5-15 ft (this distinguishes a Type 5 from a Type 6).

Type 5d – Type 5 >50% total aerial vegetation cover



Type 6 – Very young and low growth.

Young understory layer (0-5 ft) covering >25% of the area of the community (polygon). Majority of foliage between 0-5 ft. If there is <25% of area covered, the Type is OP (see below).

Plant species were recorded based on relative percentage of cover within each layer, with the most dominant species listed first. Species within the same layer were separated by a hyphen (-). Canopy and understory layers were separated by a back-slash (/). Typically, one or two species were recorded for each layer, but as many as 4 species could qualify. A species had to cover at least 25 percent of the polygon to be included in the Modified Hink and Ohmart classification code. Plant cover, along with tree and shrub height, was determined by visual estimates.

The Modified Hink and Ohmart code was written in the following format:

When a canopy and understory layer were present:

Canopy Layer / Understory Layer + Type (1-4)

Example: C-TW/SC3

When a canopy layer was present but no understory:

Canopy Layer + Type (2 or 4)

Example: C2

When a canopy layer was not present:

Shrub or Young Growth Layer + Type (5-6)

Example: SC-B5

As mentioned, the Hink and Ohmart methodology was modified to meet the needs of this particular mapping effort. The following were either exceptions or revisions to the original Hink and Ohmart study.

- a) All polygons were intended to be more than 2 acres in size. The only exceptions were polygons in which there was an abundant native seed base or exceptionally suitable SWFL habitat.
- b) For all “non-woody” vegetation classes, no community type number was attached to the code. “MH” was defined to mean “marsh” or an area that was inundated with water for most of the survey season.
- c) In areas where the canopy was mostly dead (e.g. from fire or stress), the canopy trees were not included in the classification. In other words, the Modified Hink and Ohmart classification pertained solely to green, growing woody vegetation. Stands composed of dead or decadent trees were noted.
- d) Digital photos were sometimes incorporated into the GIS coverage(s). GPS units varied in accuracy for the points collected. Most field technicians used a civilian-grade GPS unit, which (in good reception) have an error of up to 40 feet (US). GPS coordinates were reported in Universe Transverse Mercator (UTM) values, with the conversion from latitude/longitude to UTM occurring in the GPS unit itself.
- e) If a polygon had either two canopy or two understory components that were greater than 25 percent in cover, the community type fell under the height/age class of the layer with the highest cover. For example, if an overstory layer that was over 40’ in height had a canopy cover of 25-50 percent and an overstory layer that was 15-40’ in height had a canopy cover of 51-75 percent, then the polygon was classified as a ‘Type 3 or 4’ depending on whether or not the understory was over 25 percent in cover.
- f) A “d” qualifier was added to the Modified Hink and Ohmart code following type number if total aerial vegetative cover was greater than 50 percent. The “d” signified “dense” and was meant to be an indicator for potential SWFL habitat.

Habitat Modeling

GPS coordinates were downloaded and converted to a spatial coverage in ArcMap. The 2002-2004 polygon shapefile was modified to contain the current attributes from 2008. The 2008 shapefile contained metadata records describing attributes (e.g. vegetation height, species, and density), the projection, survey techniques, SWFL habitat classification systems, and contact information.

Digitizing was done entirely with ArcMap software. Using the digital aerial photos as a backdrop, polygon boundaries were revised if necessary based on the current field maps. This part of the process involved photo-interpretation. In many places, the polygon boundary was clearly delineated on the aerial photo by an obvious change in vegetation. In areas where the boundary was not distinct, the location of the line was estimated based either on mapping notes and drawings or photo interpretation by biologists that had recently conducted field work in the area.

Vegetation maps were produced incorporating the updated information with each polygon assigned a classification code. Vegetation maps were then used to determine SWFL habitat suitability of the vegetation types that were classified in the study area. Habitat suitability was evaluated by examining the distribution and habitat use of 1047 SWFL territories detected in surveys from 2006 through 2009. Although SWFL surveys began in 1995, only territories that were detected from 2006 to 2009 were used in creating the habitat suitability model. Reclamation determined that two breeding seasons prior and two breeding seasons following the date aerial photos were taken (i.e. October 2007) would be the extent that data would still be representative since riparian habitat can change rather rapidly depending on hydrologic conditions.

Some vegetation types that were occupied by SWFLs were not considered to be suitable habitat, although this situation rarely occurred. Conversely, some types in which no SWFL detections occurred were not necessarily considered unsuitable. Factors other than the location of territories were sometimes used to identify habitat suitability of vegetation types. Nest success was an important factor in determining suitability of habitat. For example, a site in which habitat deteriorated over time may have continued to attract SWFLs due to site fidelity, but the ability to successfully fledge young decreased based on site conditions. In general, however, the areas determined to provide the most suitable habitat were logically those that were the most heavily occupied by SWFLs. Four habitat suitability classes were identified and categorized as suitable, moderately suitable, unsuitable, and non-habitat.

GIS maps were also used to calculate the number of acres by vegetation type and SWFL suitability class within each river reach and survey site. Within the suitability classes, the number of acres of habitat within 50 m of surface water was also calculated. Surface water was defined as standing or flowing water present during a portion of the breeding season in 2008, when the vegetation mapping was conducted from May through July. Included were the Rio Grande and a portion of the Rio Puerco where backwater was present. Backwater ponds, marshes and areas where overbank flooding occurred during the 2008 season were defined as surface water with regards to suitable SWFL habitat as well. Channelized drains were not included except in places where they discharge into the Rio Grande (e.g. San Juan Drain). Washes or intermittent streams (e.g. Rio Salado) were also not considered surface water. SWFLs are most likely to nest above or near water, therefore acreages within 50 m of water provided estimates of the highest quality habitat in the suitable and moderately suitable classes available within the study area.

Since 2004, over 1400 nests have been monitored; 97 percent have been found within 100 m of surface water, and 94 percent have been found within 50 m (Moore and Ahlers 2010). Based on this information, the 50 m hydrologic layer was used for this habitat suitability analysis in lieu of the 100 m layer used in previous efforts. While the 100 m layer would incorporate a few additional SWFL territories (i.e. 3 percent), the actual surface area included in the analysis would more than double. Therefore, the 50 m layer seemed the most appropriate distance by capturing the vast majority of territories, within the smallest possible area. This is not meant to imply that only vegetation of suitable structure and density within 50 meters of surface water is suitable habitat. Vegetation structure and density are the key components defining SWFL habitat suitability. However, those patches of structurally suitable habitat within 50 meters of water

(including areas that are flooded) are preferred by the vast majority of breeding SWFLs. This is likely due to slightly greater vegetation density, higher relative humidity, cooler overall temperatures, and perhaps greater insect abundance.

RESULTS AND DISCUSSION

Results of the 2008 mapping effort are provided in Appendix A. This information is organized by river reach and by SWFL survey site. Data include the number of acres of each habitat suitability type; the number of acres of each dominant vegetation type; the number of SWFL territories; and vegetation and SWFL habitat suitability maps.

Using the vegetation maps and the SWFL territories detected from 2006 to 2009, guidelines for categorizing each vegetation type into habitat suitability classes were established based on structure and density of vegetation. Factors used in making these determinations are explained below.

Suitable—Suitable habitat included vegetation in which a high percentage of SWFL territories were detected. Areas with a significant structural component - primarily community types 3, 4, and 5 - were also considered suitable if a high percentage of territories occurred within the vegetation type. Other qualifying vegetation types were those that included a combination of important plant species, especially TW, CW (particularly in the canopy layer), RO, and SC (however not monotypic SC) and also vegetation classes with a “d” qualifier, which indicated > 50 percent aerial vegetation cover. There were 69 vegetation classifications considered to be suitable SWFL habitat (Table 3).

Moderately Suitable—Moderately suitable habitat included vegetation in which a fairly high percentage of territories occurred from 2006 to 2009. Areas that provided a good structural component (primarily community types 3, 4, and 5 and occasionally community type 1) could also be considered moderately suitable. This category required an adequate combination of vegetation species with at least 50 percent of the species composition made up of the more desirable plant species (those listed under “Suitable” habitat). There were 123 vegetation classifications considered to be moderately suitable SWFL habitat (Table 3).

Unsuitable—Unsuitable habitat included vegetation in community types 2, 6 and frequently in community type 1. These were habitats in which vegetation was either too sparse or too mature or the majority of the polygon consisted of the lower priority plant species. If ATX, HMS, SBM, CR, or NMO was a component of the classification, then the vegetation type was determined to be unsuitable. There were 241 vegetation classifications considered to be unsuitable for the SWFL (Table 3).

Table 3.—Vegetation types classified within suitable, moderately suitable, unsuitable, and non- habitat for Southwestern Willow Flycatchers.

	GENERAL DESCRIPTION OF VEGETATION	MODIFIED HINK AND OMART CODES
SUITABLE (69 classifications)	Coyote willow dominant overstory	CW-C/CW-B3d
	Russian olive dominant overstory	RO/CW3d, RO/CW3, RO/SC3d, RO4
	Saltcedar dominant overstory	SC-CW5, SC-CW5d, SC-RO/SC-RO-CW3d, SC-TW/SC-TW3d
	Tree willow dominant overstory	TW4d
	Tree willow dominant overstory/ cattail dominant understory	TW/CAT3d, TW/CAT-CW3, TW/CAT-SC3d, TW/CAT-TW-SC3, TW/CAT-TW-SC3d
	Tree willow dominant overstory/ coyote willow dominant understory	TW/CW3, TW/CW3d, TW/CW-CAT3d, TW/CW-SC3d, TW/CW-SC3, TW/CW-TW3
	Tree willow dominant overstory/ saltcedar dominant understory	TW/SC3, TW/SC3d, TW/SC-C3, TW/SC-CAT3d, TW/SC-CAT3, TW/SC-CAT-TW3d, TW/SC-CW3d, TW/SC-CW3, TW/SC-TW3d, TW/SC-TW3
	Tree willow dominant overstory/ tree willow dominant understory	TW/TW3, TW/TW3d, TW/TW-C3, TW/TW-CAT3, TW/TW-CAT3d, TW/TW-CAT-CW3, TW/TW-CW3d, TW/TW-CW3, TW/TW-SC3d, TW/TW-SC3, TW/TW-SC-C3, TW/TW-SC-CAT3d, TW/TW-SC-CAT3, TW/TW-SC-CW3d, TW/TW-SC-CW3
	Tree willow-cottonwood dominant overstory	TW-C/CW3, TW-C/SC3d, TW-C/SC3, TW-C/SC-CW3d, TW-C/SC-TW3d, TW-C/TW3d, TW-C/TW3, TW-C/TW-CW3, TW-C/TW-SC3, TW-C/TW-SC3d, TW-C4d, TW-C-RO/CW3, C-TW/SC3d
	Tree willow-coyote willow dominant overstory	TW-CW/CW3d, TW-CW/CW3
	Tree willow-Russian olive dominant overstory	TW-RO/CW3d
Tree willow-saltcedar dominant overstory	TW-SC/TW-SC3d	
MODERATELY SUITABLE (123 classifications)	Seepwillow dominant	B-CW-SC5d, B-SC-CW5d, B-SC-RO5d, B-TW5
	Cottonwood dominant overstory	C/C-TW-SC3, C/CW-RO-SC3, C/CW-SC-RO3d, C/RO-SC-CW3, C/SC-CW3d, C/SC-TW-CW3, C/TW-SC1d, C/TW-SC-CW3d
	Cattail dominant	CAT-CW5, CAT-CW5d, CAT-TW5d, CAT-TW-SC5d
	Cottonwood-coyote willow dominant	C-CW5d
	Cottonwood-Russian olive dominant	C-RO/CW3, C-RO/CW-RO-SC3, C-RO/CW-SC3d, C-RO/CW-SC3, C-RO/CW-TW3d, C-RO/RO-CW3d, C-RO/SC3d, C-RO/SC-CW3d, C-RO/SC-CW-RO3d, C-RO/SC-RO3, C-RO/TW3d, C-RO4, C-RO4d, C-RO-CW5d, C-RO-CW-SC/C-RO-CW-SC3d, C-RO-SC-CW/C-RO-CW-SC3d, C-RO-TW5d
	Cottonwood-saltcedar dominant overstory	C-SC/CW-B-C3d
	Cottonwood-tree willow dominant	C-TW/CW3, C-TW/CW-SC3d, C-TW/SC3, C-TW/SC-B3d, C-TW/SC-C3d, C-TW/SC-CW3d, C-TW/SC-TW3, C-TW/SC-TW-CW3d, C-TW/TW3, C-TW/TW-B-SC3, C-TW/TW-CW3, C-TW4d, C-TW-CW5d
	Coyote willow dominant	CW5d, CW-B-RO-C5d, CW-B-SC5d, CW-C-RO5d, CW-C-RO-SC/CW-C-RO-SC3d, CW-C-SC5, CW-RO5d, CW-RO-SC5d, CW-SC5d, CW-SC-B5d, CW-SC-C5d, CW-TW5d, CW-TW5, CW-TW-CAT5d, CW-TW-SC5d
	Russian olive dominant	RO/CW-B3, RO/CW-SC3d, RO/SC3, RO/SC-CW3, RO/SC-CW3d, RO-C/CW3, RO-C/CW3d, RO-C/CW-SC3d, RO-C/SC3d, RO-C/SC-TW3d, RO-C5d, RO-C-TW/CW3, RO-SC/CW-SC3d, RO-SC/SC3, RO-SC5d, RO-SC-B5d, RO-SC-C5d, RO-SC-CW5
	Saltcedar dominant	SC/SC-CW3d, SC/SC-CW-C3, SC-C/SC-B3d, SC-CW/SC-CW-B3d, SC-CW-RO/SC-CW-RO3d, SC-RO/B-SC3, SC-RO/SC3, SC-RO/SC3d, SC-RO4d, SC-RO5d, SC-RO-CW5d, SC-TW/SC3d, SC-TW-RO-C5d
	Tree willow dominant	TW/B3, TW/B-SC3, TW/CAT3, TW/SC-B3, TW/SC-B3d, TW/TW-B3, TW4, TW5d, TW5, TW-CAT5, TW-CAT5d, TW-CAT-CW5d
	Tree willow-cottonwood dominant	TW-C/B-TW3, TW-C/C-SC3, TW-C/CW-B3d, TW-C/SC-B3d, TW-C/TW1, TW-C/TW-C3d, TW-C/TW-C-SC3, TW-C4, TW-C5, TW-C-CW5
	Tree willow-coyote willow dominant	TW-CW5d, TW-CW5, TW-CW-C5
Tree willow-saltcedar dominant	TW-SC4, TW-SC5, TW-SC5d, TW-SC-CW5	
UNSUITABLE (241 classifications)	4-wing saltbush dominant	ATX6d
	Seep willow dominant	B5d, B5, B6, B6d, B-C5d, B-CAT5d, B-C-CW5d, B-C-RO5d, B-C-RO6, B-C-SC5, B-CW5, B-CW5d, B-CW-C5d, B-CW-RO-C5, B-SC5, B-SC5d, B-SC6d, B-SC6, B-SC-C5, B-TW-C5
	Cottonwood dominant	C2, C2d, C4d, C4, C5, C-SBM-SC/SC-SBM3d
	Cottonwood dominant overstory/ Cottonwood dominant overstory/	C/B3, C/B-CW-SC3d, C/B-SC1d, C/B-SC3, C/B-SC3d

Table 3.—Vegetation types classified within suitable, moderately suitable, unsuitable, and non- habitat for Southwestern Willow Flycatchers.

	GENERAL DESCRIPTION OF VEGETATION	MODIFIED HINK AND OMART CODES
UNSUITABLE (continued)	seep willow dominant understory	
	Cottonwood dominant overstory/ cottonwood dominant understory	C/C3, C/C-B3, C/C-CW-SC3, C/C-SC1, C/C-SC1d, C/C-TW-SC1
	Cottonwood dominant overstory/ coyote willow dominant understory	C/CW3, C/CW3d, C/CW-C3d, C/CW-SC3d
	Cottonwood dominant overstory/ New Mexico olive dominant understory	C/NMO-B1d, C/NMO-CW-SC1, C/NMO-SC-HME3d
	Cottonwood dominant overstory/ Russian olive dominant understory	C/RO1, C/RO3d, C/RO-B-A3d, C/RO-SC1d, C/RO-SC1, C/RO-SC-NMO3, C/RO-TW-C3d
	Cottonwood dominant overstory/ saltcedar dominant understory	C/SC1d, C/SC1, C/SC3, C/SC3d, C/SC-ATX3, C/SC-B1, C/SC-B1d, C/SC-B3, C/SC-B3d, C/SC-B-A3d, C/SC-B-C3d, C/SC-B-RO3d, C/SC-B-SBM3, C/SC-C1, C/SC-C1d, C/SC-CAT1, C/SC-C-CW1d, C/SC-C-CW3d, C/SC-CW3, C/SC-CW-C3, C/SC-HMS3, C/SC-HMS3d, C/SC-NMO1d, C/SC-NMO1, C/SC-NMO3d, C/SC-NMO-B3d, C/SC-RO1, C/SC-RO1d, C/SC-RO3, C/SC-RO-B3d, C/SC-SBM3, C/SC-TW1d, C/SC-TW-C1
	Cottonwood dominant overstory/ tree willow dominant understory	C/TW-B3, C/TW-SC-B1
	Cattail dominant	CAT-CW-TW5d
	Cottonwood-seep willow dominant	C-B5, C-B5d, C-B-CW4d, C-B-CW6, C-B-RO6, C-B-SC5
	Cottonwood-coyote willow dominant	C-CW4, C-CW5, C-CW6, C-CW-B5d, C-CW-B6, C-CW-RO5, C-CW-RO5d, C-CW-RO-B5, C-CW-RO-SC/C-RO-CW-SC3d, C-CW-SC/C-CW-SC-B3d, C-CW-TW5d
	Cottonwood-Russian olive dominant	C-RO/C-B3d, C-RO/C-TW-SC3d, C-RO/CW-B3d, C-RO/CW-C-B3d, C-RO/RO-B1d, C-RO/SBM3d, C-RO/SBM-SC-B3, C-RO/SC1d, C-RO/SC3, C-RO/SC-B-TW3d, C-RO/SC-C-B3, C-RO/SC-CW3, C-RO/SC-RO1d, C-RO2, C-RO5, C-RO-SBM-SC5d, C-RO-SC-B5
	Cottonwood-saltcedar dominant	C-SC/SC3, C-SC/SC3d, C-SC/SC-C3d, C-SC4, C-SC5, C-SC5d, C-SC-B6, C-SC-RO5d
	Cottonwood-tree willow dominant	C-TW/B-SC3, C-TW/CAT-CW1d, C-TW/SC1d, C-TW/SC1, C-TW/SC-B3, C-TW/SC-C3, C-TW/SC-CW1d, C-TW/SC-CW3, C-TW5, C-TW-CW6d
	Coyote willow dominant	CW5, CW6, CW6d, CW-B5d, CW-B5, CW-B6, CW-B-C5d, CW-B-C6, CW-B-SC5, CW-C5, CW-C5d, CW-C6d, CW-C6, CW-CAT5, CW-C-B5d, CW-C-B6, CW-C-CAT5d, CW-C-RO6, CW-RO5, CW-SC5, CW-SC6, CW-SC-C5, CW-SC-C6
	Mesquite dominant	HME-CR5d, SBM5, SBM-C5, SBM-SC5, SBM-SC5d
	Russian olive dominant	RO/CW-B-SBM3d, RO/CW-C3, RO/SC5, RO-C/B-SC-RO3d, RO-C/CW-SC3, RO-C/RO-C3d, RO-C/SC3, RO-C/SC-B-C3d, RO-C/SC-C3d, RO-C5, RO-CW-B5d, RO-SBM-SC6, RO-SC4, RO-SC6, RO-SC-C6, RO-SC-SBM5d
	Saltcedar dominant	SC/SC3, SC/SC3d, SC4, SC4d, SC5d, SC5, SC6, SC6d, SC-ATX5, SC-ATX6, SC-CAT5, SC-CAT5d, SC-NMO5d
	Saltcedar-seep willow dominant	SC-B5, SC-B5d, SC-B6d, SC-B6, SC-B-C5, SC-B-CAT5d, SC-B-C-RO5d, SC-B-CW5d, SC-B-CW6, SC-B-TW5, SC-B-TW5d
	Saltcedar-cottonwood dominant	SC-C/HMS-SC3d, SC-C/SC3d, SC-C/SC-RO-CW1d, SC-C3d, SC-C5, SC-C5d, SC-C-B5, SC-C-B5d, SC-C-CW5, SC-C-CW5d, SC-C-CW6, SC-C-TW5
	Saltcedar-coyote willow dominant	SC-CW6d, SC-CW6, SC-CW-B3d, SC-CW-B5, SC-CW-C5, SC-CW-C-RO5
	Saltcedar-mesquite dominant	SC-HM5, SC-HM-CW5, SC-HMS5, SC-MES5, SC-SBM5
Saltcedar-Russian olive dominant	SC-RO/SC-B3, SC-RO4, SC-RO5, SC-RO6, SC-RO-B5, SC-RO-C5	
Saltcedar-tree willow dominant	SC-TW5, SC-TW5d, SC-TW-B5d, SC-TW-C/SC-TW-NMO3, SC-TW-CAT5, SC-TW-CAT5d	
Tree willow dominant	TW/CAT1, TW-C/SC1d	
NON-HABITAT (5 classifications)	No woody overstory; not vegetated	OP, OW, RR, RD, MH(=CAT5d)

Non-Habitat—Non-habitat for SWFLs included 5 classifications which were open areas with no woody overstory (e.g. open water or marsh) and human developments (e.g. roads and railroads).

Results indicated that tree willow was the most important plant species for providing SWFL habitat. Over 20 percent of SWFL territories from 2006-2009 were found in two habitat classifications: TW/TW-CW3 (tree willow overstory with a relatively dense understory comprised of tree willow and coyote willow) and TW/CW-SC3 (tree willow overstory with a relatively dense understory comprised of coyote willow and saltcedar). Seventy-eight percent of the vegetation types surrounding territories had a tree willow component.

Although saltcedar and Russian olive are invasive and often considered undesirable plant species, they do provide suitable habitat for SWFLs in the study area. Forty-three percent of all territories had a saltcedar component and saltcedar was the dominant species within 6 percent of the vegetation types in which territories were found. Russian olive was a component in 9 percent of SWFL territories and dominated vegetation types in 5 percent of the territories.

Cottonwood was a component in 11 percent of the vegetation types that included SWFL territories and was the dominant species in 6 percent of these vegetation types. Cottonwood and saltcedar were the dominant species in an equal percentage of the vegetation in which SWFL territories were detected.

The vast majority of suitable habitat and SWFL territories were found within the San Marcial Reach of the Rio Grande (Figures 2 and 3). San Marcial was the southernmost of all reaches included in mapping, located immediately upstream of Elephant Butte Reservoir. There were 4,208 acres of suitable and moderately suitable SWFL habitat mapped within this reach, far beyond any of the other reaches. Sevilleta/La Joya Reach provided the next highest amount of suitable and moderately suitable habitat at 796 acres. The development of such high quality habitat in the San Marcial reach can be attributed to a decline in the reservoir levels, which exposed soils and provided moist sites for willow to establish. The suitability of this habitat for SWFLs was substantiated by the occurrence of 893 territories documented from 2006 to 2009, again far more than in any of the other reaches in the study area. The Sevilleta/La Joya Reach had 97 SWFL territories from 2006 to 2009, which was second in territory numbers.

RECOMMENDATIONS

Over the past 10 year period, portions of the Middle Rio Grande riparian corridor have been photographed, delineated and categorized as SWFL habitat. Some areas have experienced significant changes in structure, density, and species compositions while other areas have been far more static, experiencing little or no change. In general, due to the SWFLs ability to occupy young age classes (3-5 years) of developing riparian vegetation and the short-lived nature of high quality habitat, the habitat suitability model output has a limited application of 3 to 5 years.

Periodic photography and mapping of SWFL habitat should be conducted at a 5 year minimum, based on the availability of funding. Riparian areas subject to dynamic

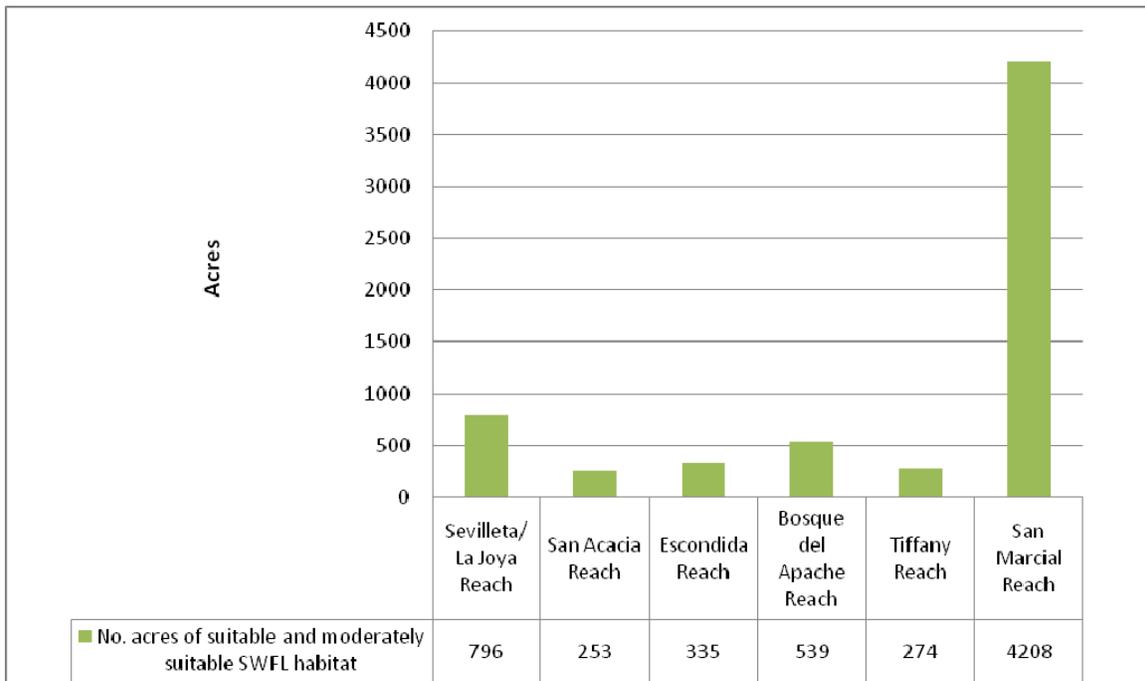


Figure 2.—The number of acres of suitable and moderately suitable SWFL habitat by river reach along the Middle Rio Grande, New Mexico.

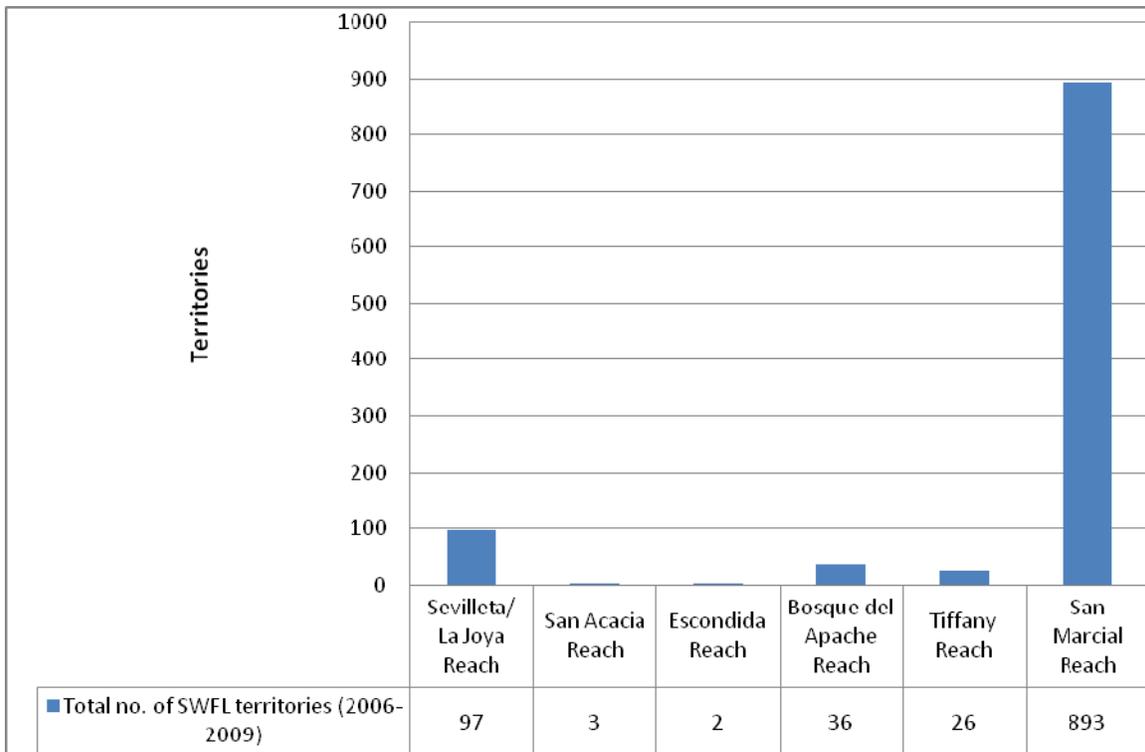


Figure 3.—The number of SWFL territories detected by river reach along the Middle Rio Grande, New Mexico.

changes, such as those found within the conservation pool of Elephant Butte Reservoir or those within aggraded river reaches such as the Bosque del Apache NWR, should be considered as priority areas for future photography, mapping, and modeling efforts.

If funding is available in FY2011, aerial photography for the entire reach from Elephant Butte Reservoir to the Pueblo of Isleta reach should be obtained during the summer or early-fall. Further refinement of the suitability model should continue as a better understanding of the SWFL's habitat associations and life requisites are understood.

REFERENCES

- Callahan, D., and L. White. 2004. Vegetation Mapping of the Rio Grande Floodplain 2002-2004. U. S. Department of the Interior, Bureau of Reclamation, Technical Services Center, Denver, CO.
- Hink, V. C., and R. D. Ohmart. 1984. Middle Rio Grande biological survey. Army Corps of Engineers Contract No. DACW47-81-C-0015. Albuquerque, NM
- Moore, D. and D. Ahlers. 2010. 2009 Southwestern Willow Flycatcher Study Results: Selected sites along the Rio Grande from Velarde to Elephant Butte Reservoir, NM. U.S. Bureau of Reclamation, Technical Service Center, Denver, CO.

Appendix A

Southwestern Willow Flycatcher Habitat Suitability and Major Plant Communities
Maps and Associated Tables

Contents

Sevilleta/La Joya Reach	A-1
San Acacia Reach	A-35
Escondida Reach.....	A-49
Bosque del Apache Reach	A-79
Tiffany Reach.....	A-107
San Marcial Reach	A-129

Sevilleta/La Joya Reach*

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	213	7%	71	2%
Moderately Suitable	583	19%	262	8%
Unsuitable	2303	74%	488	16%
Total Area	3099	100%	821	26%

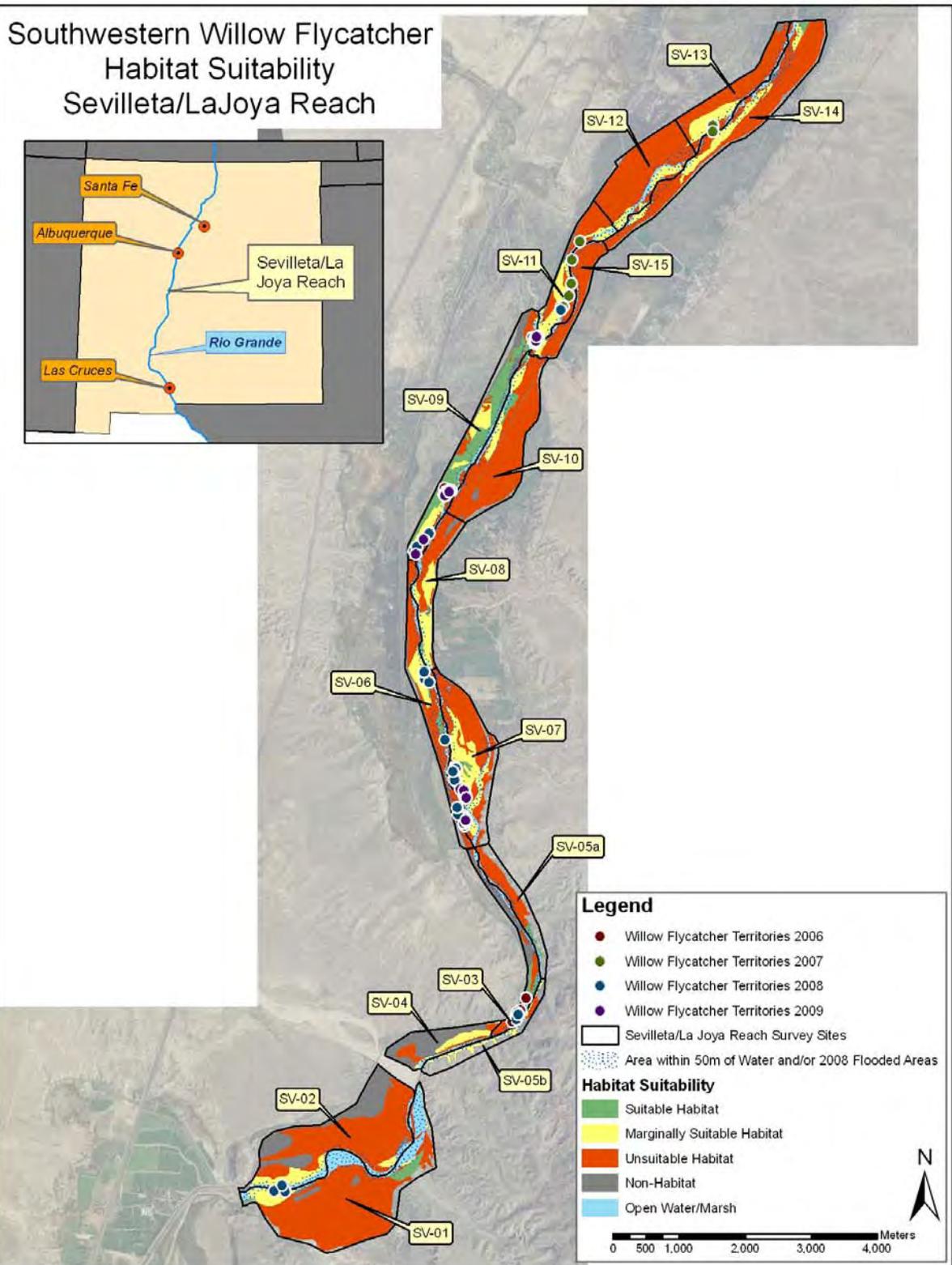
Dominant Plant Communities within Reach

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-C/CW3	2	0%
Native Canopy/Mixed Understory	SC-C/SC-RO-CW1d	9	0%
Native Canopy/Exotic Understory	C/RO1, C/SC-RO3, C/RO-SC1, C/SC1d, C/SC3d, C/SC3, C/SC-RO1	69	2%
Mixed Canopy/Native Understory	RO-C/CW3, TW-C-RO/CW3, C-RO/CW3, RO-C-TW/CW3	95	3%
Mixed Canopy/Mixed Understory	C-RO/RO-CW3d, C-RO/CW-SC3, C-RO/CW-SC3d, SC-CW/SC-CW-B3d, RO-C/CW-SC3d	88	3%
Mixed Canopy/Exotic Understory	C-RO/SC3, RO-C/SC3, SC-CW-RO/SC-CW-RO3d, C-SC/SC3, C-RO/SC-RO3, RO-C/SC3d	268	9%
Exotic Canopy/Native Understory	RO/CW-C3, RO/CW3, RO/CW3d	48	2%
Exotic Canopy/Mixed Understory	SC-RO/SC-RO-CW3d, RO/SC-CW3	21	1%
Exotic Canopy/Exotic Understory	RO-SC/SC3, SC/SC3d, RO/SC3d, RO/SC3	397	13%
Native Canopy	C2d, C2, C4	72	2%
Mixed Canopy	C-RO2, C-RO4, C-RO4d	78	3%
Exotic Canopy	RO4, SC4, SC-RO4d, RO-SC4	81	3%
Native Understory	CW6, CW5, C-CW-TW5d, CW-C5, TW-C5, CW5d, CW-TW5, TW-CW5, TW-CW5d, C/SC3, CW-C5d, C-CW5d, C-CW5, C-TW-CW5d, TW-CW-C5	253	8%
Mixed Understory	SC-CW6, C-CW-RO5, CW-RO-SC5d, SC-CW6d, SC-RO-CW5d, SC-SBM5, RO-SC-CW5, CW-RO5, RO-C5, RO-SBM-SC6, SC-RO-C5, CW-SC5d, RO-SC-C5d, SBM-SC5, CW-RO5d	199	6%
Exotic Understory	RO/SC5, SC5, SC6, RO-SC6, SC-RO5, SC5d	1418	46%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	7	15	22
2007	13	9	22
2008	13	19	32
2009	3	18	21

*Also includes Sites SV-11 to SV-15 from the Belen Reach



Survey Site: SV-01

Habitat Acreage

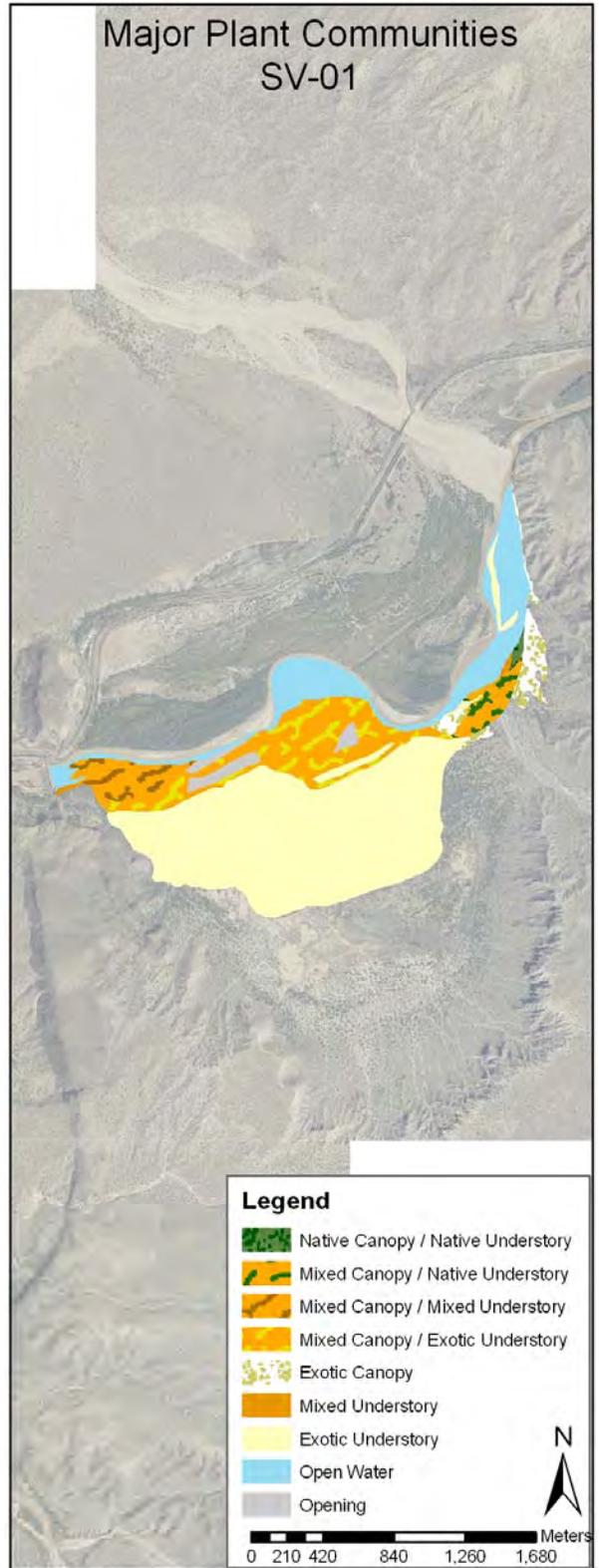
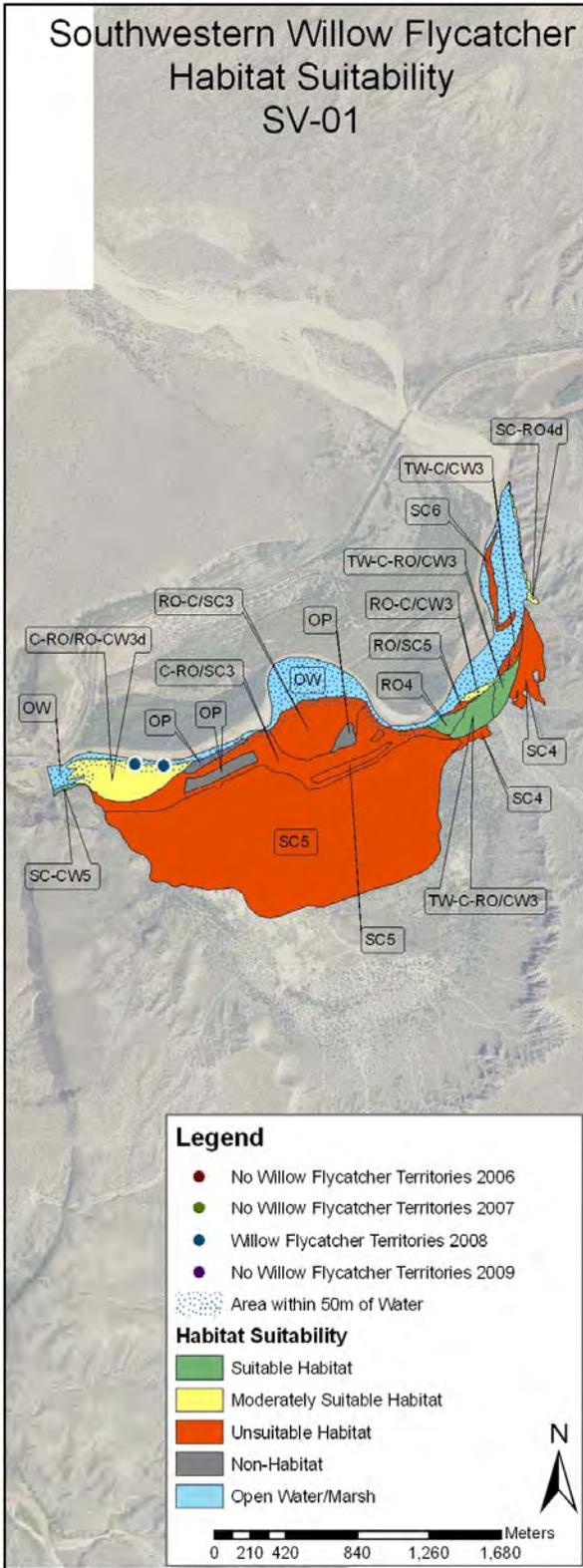
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	21	4%	5	1%
Moderately Suitable	33	7%	15	3%
Unsuitable	436	89%	29	6%
Total Area	490	100%	49	10%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-C/CW3	2	0%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	RO-C/CW3, TW-C-RO/CW3	18	4%
Mixed Canopy/Mixed Understory	C-RO/RO-CW3d	29	6%
Mixed Canopy/Exotic Understory	C-RO/SC3, RO-C/SC3	93	19%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	RO4, SC4, SC-RO4d	25	5%
Native Understory	-	-	-
Mixed Understory	SC-CW5, SC-CW6	2	0%
Exotic Understory	RO/SC5, SC5, SC6	321	66%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	2	0	2
2009	0	0	0



Survey Site: SV-02

Habitat Acreage

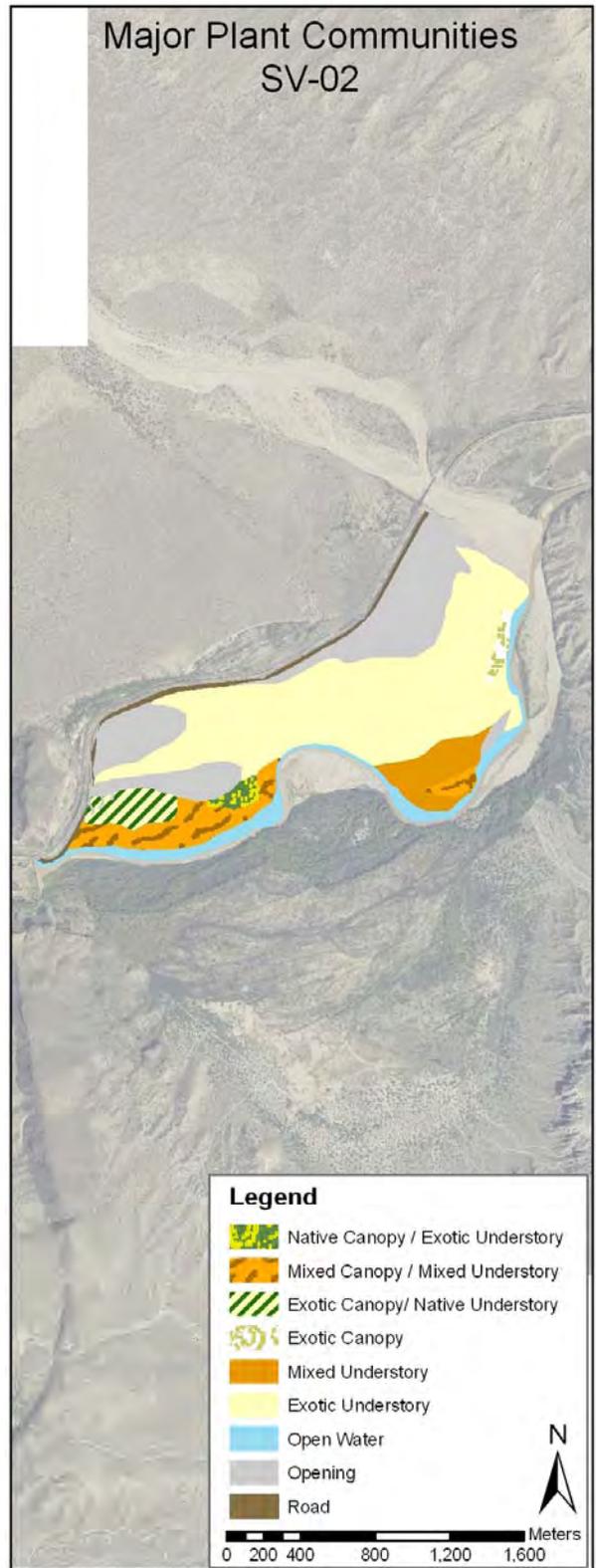
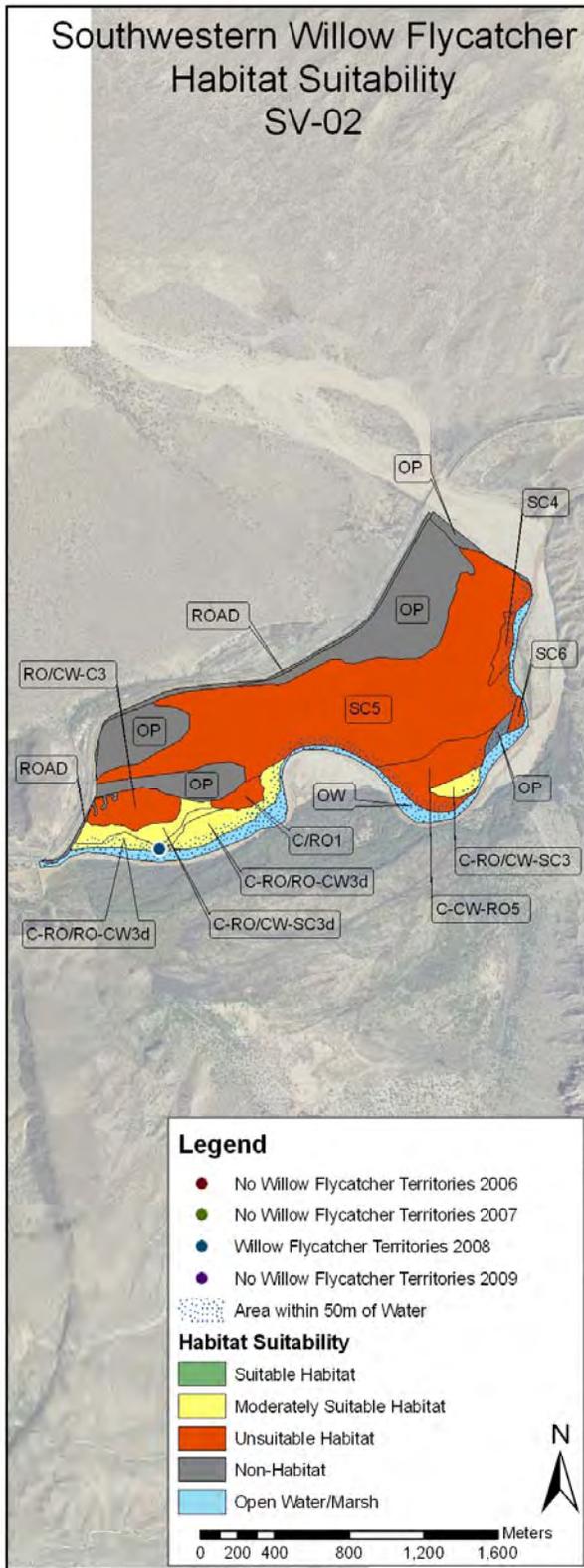
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	47	13%	19	5%
Unsuitable	319	87%	27	7%
Total Area	366	100%	46	12%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/RO1	7	1%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/CW-SC3, C-RO/CW-SC3d, C-RO/RO-CW3d	47	13%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	RO/CW-C3	20	5%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	6	1%
Native Understory	-	-	-
Mixed Understory	C-CW-RO5	30	8%
Exotic Understory	SC5, SC6	256	70%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	1	1
2009	0	0	0



Survey Site: SV-03

Habitat Acreage

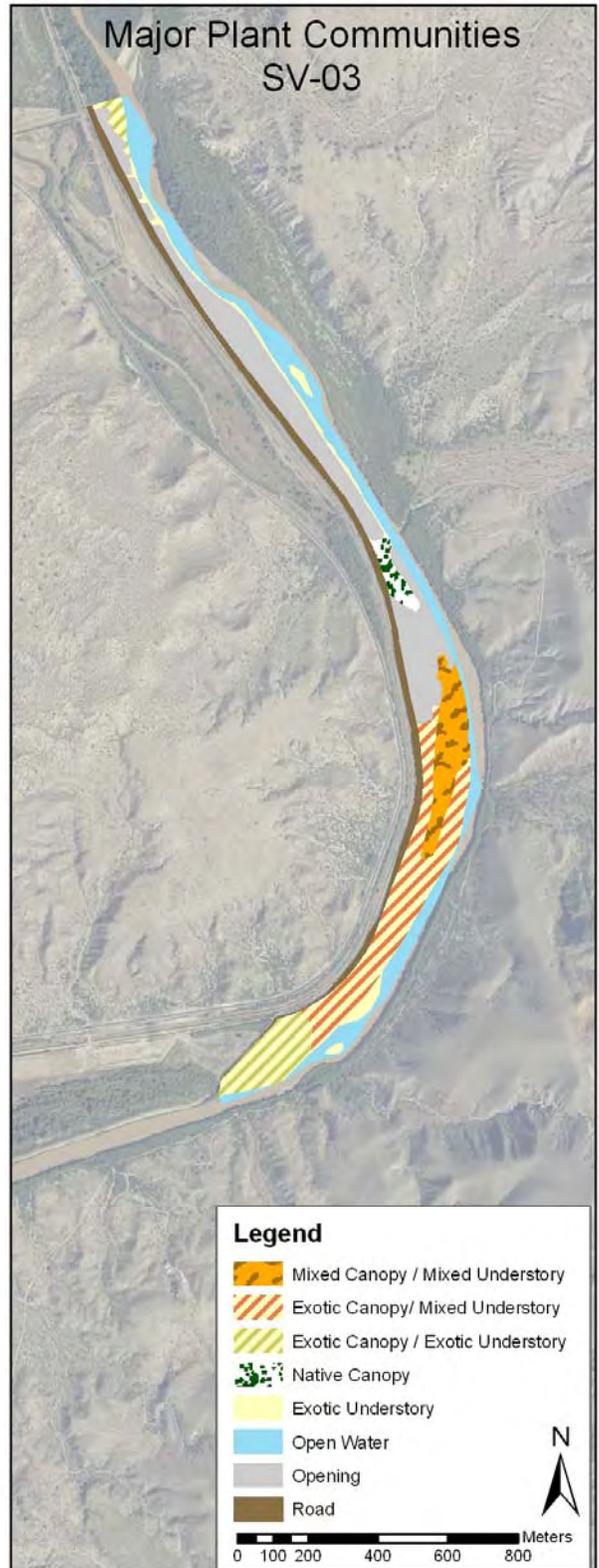
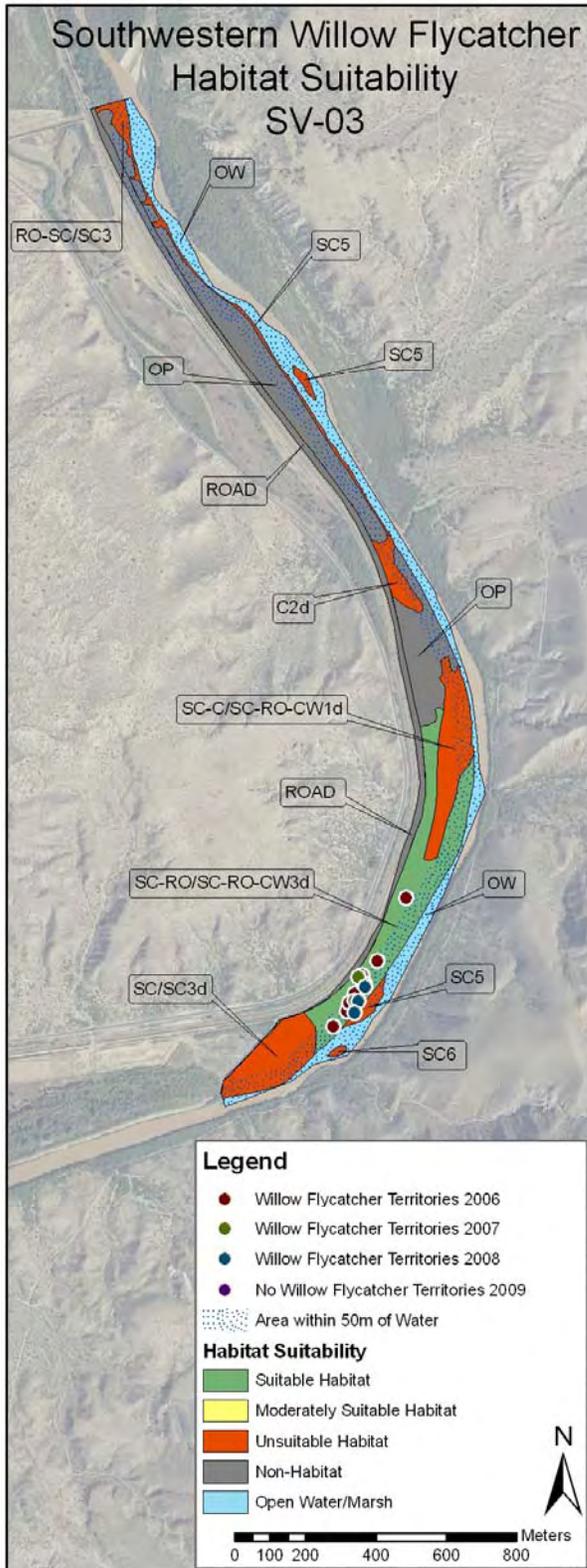
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	21	46%	10	21%
Moderately Suitable	0	0%	0	0%
Unsuitable	25	54%	15	33%
Total Area	46	100%	25	54%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-C/SC-RO-CW1d	9	20%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC-RO/SC-RO-CW3d	20	43%
Exotic Canopy/Exotic Understory	RO-SC/SC3, SC/SC3d	10	22%
Native Canopy	C2d	3	6%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5	4	9%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	6	8
2007	0	2	2
2008	1	2	3
2009	0	0	0



Survey Site: SV-04

Habitat Acreage

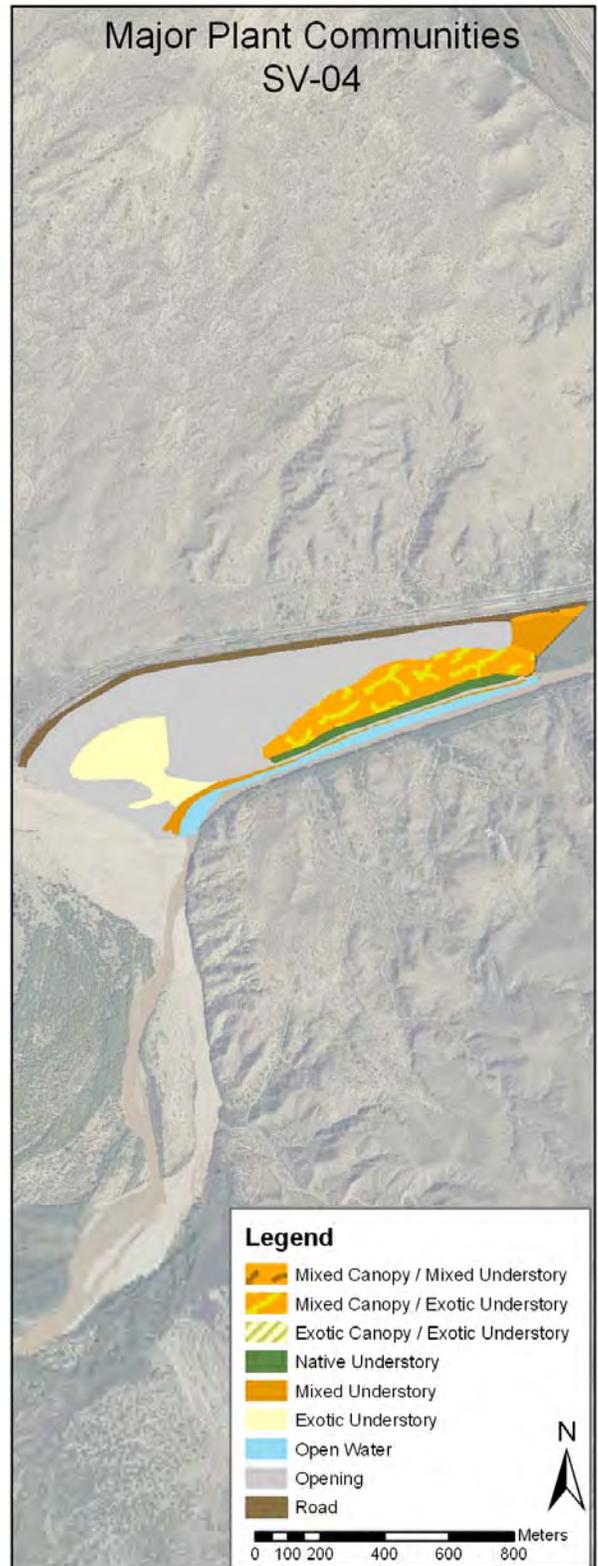
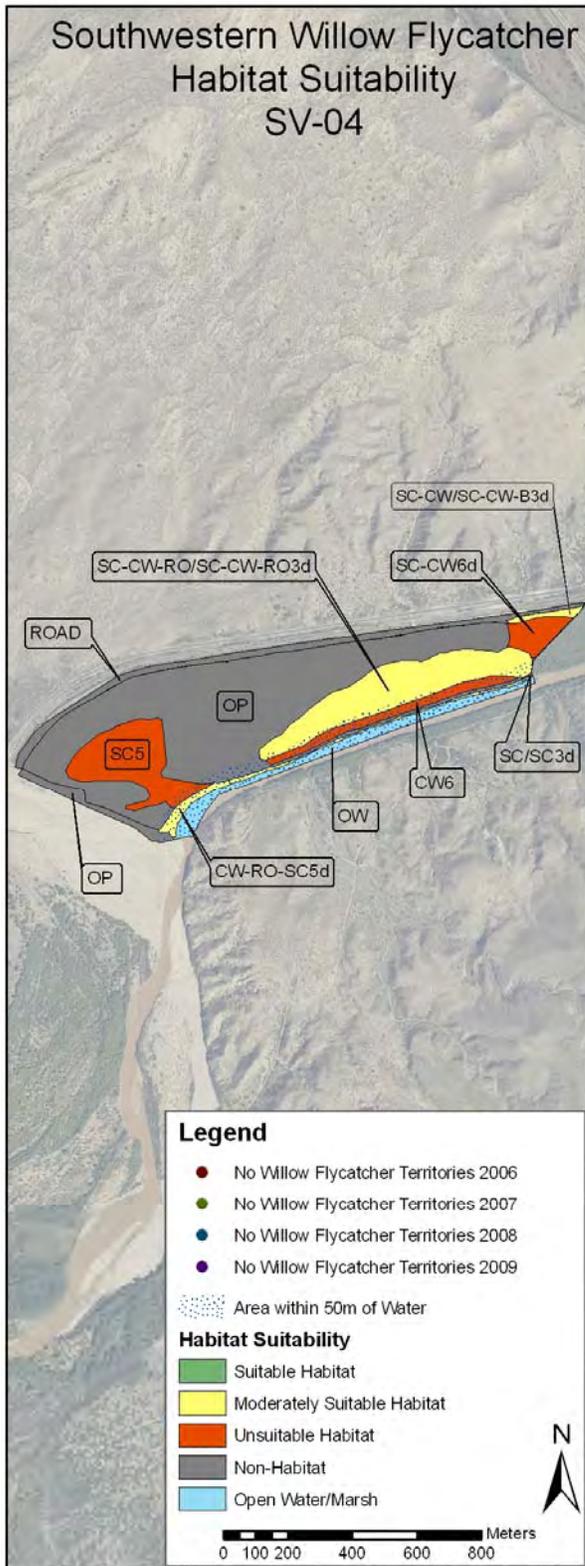
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	26	52%	6	12%
Unsuitable	24	48%	6	12%
Total Area	50	100%	12	24%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-CW/SC-CW-B3d	1	2%
Mixed Canopy/Exotic Understory	SC-CW-RO/SC-CW-RO3d	22	44%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW6	5	10%
Mixed Understory	CW-RO-SC5d, SC-CW6d, SC-RO-CW5d	7	14%
Exotic Understory	SC5	15	30%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: SV-05A

Habitat Acreage

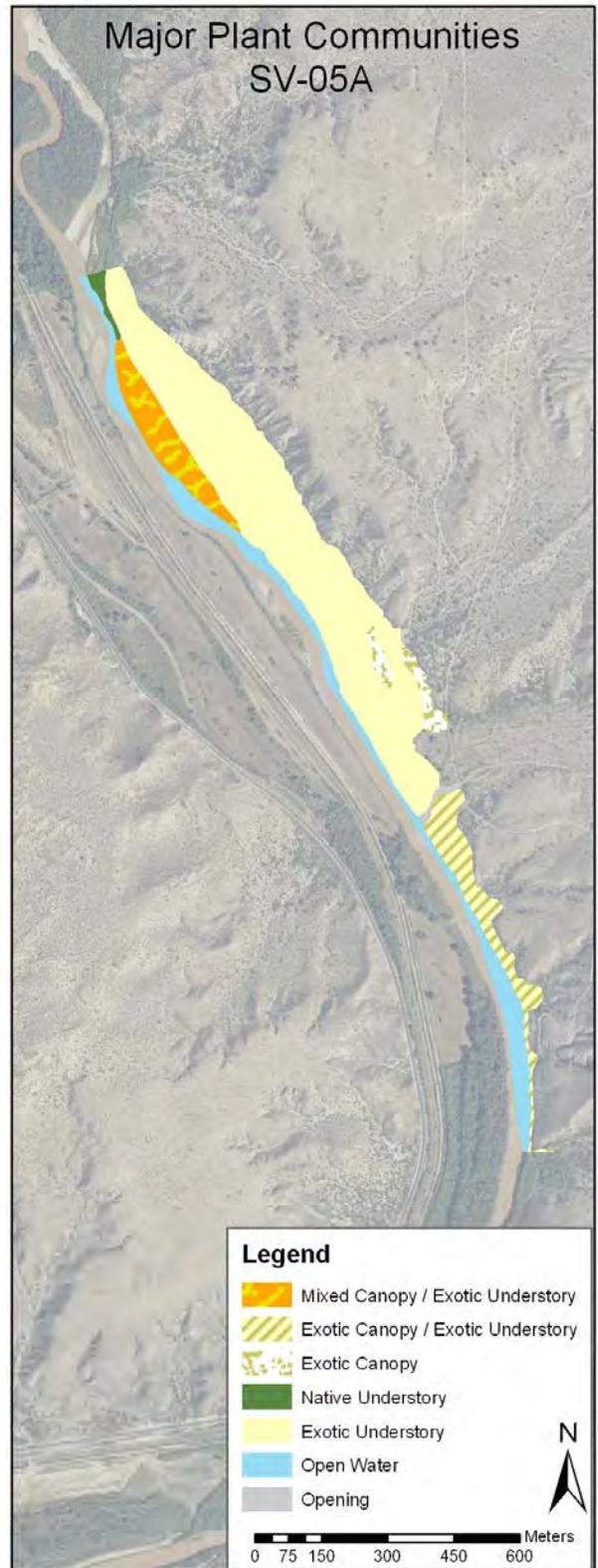
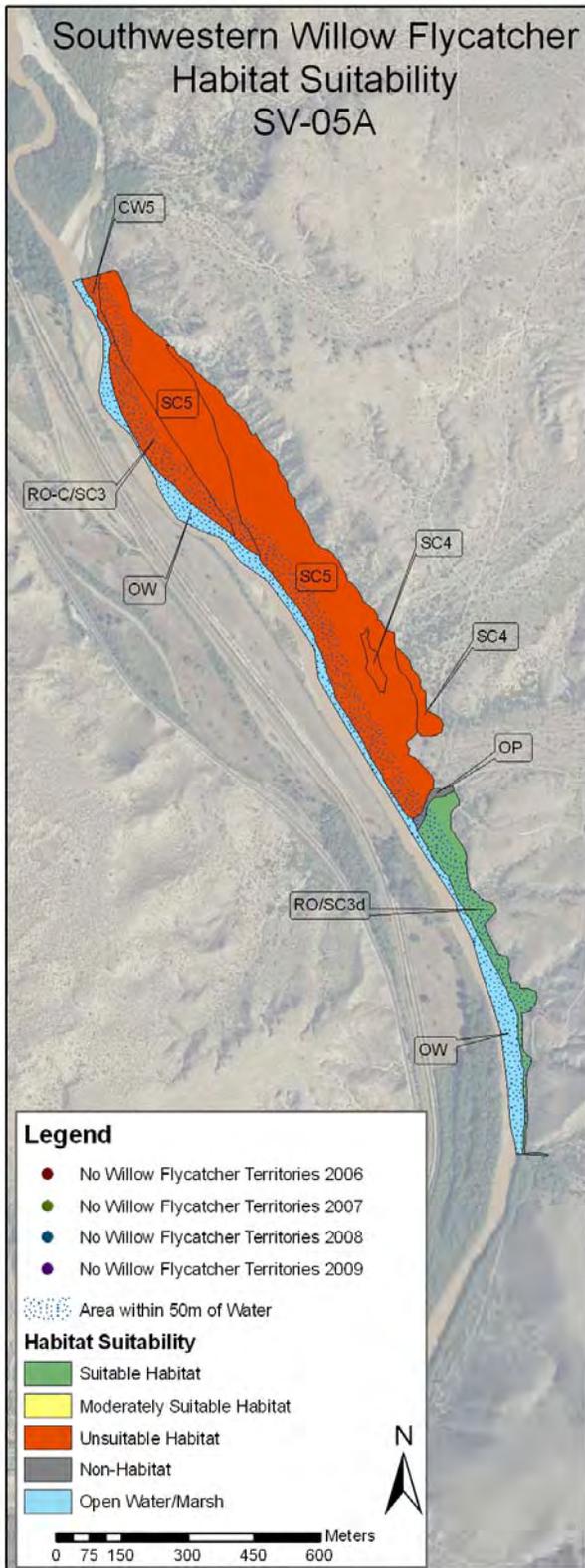
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	7	11%	6	10%
Moderately Suitable	0	0%	0	0%
Unsuitable	54	89%	18	29%
Total Area	61	100%	24	39%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	RO-C/SC3	7	11%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3d	7	11%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	2	3%
Native Understory	CW5	1	2%
Mixed Understory	-	-	-
Exotic Understory	SC5	44	72%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: SV-05B

Habitat Acreage

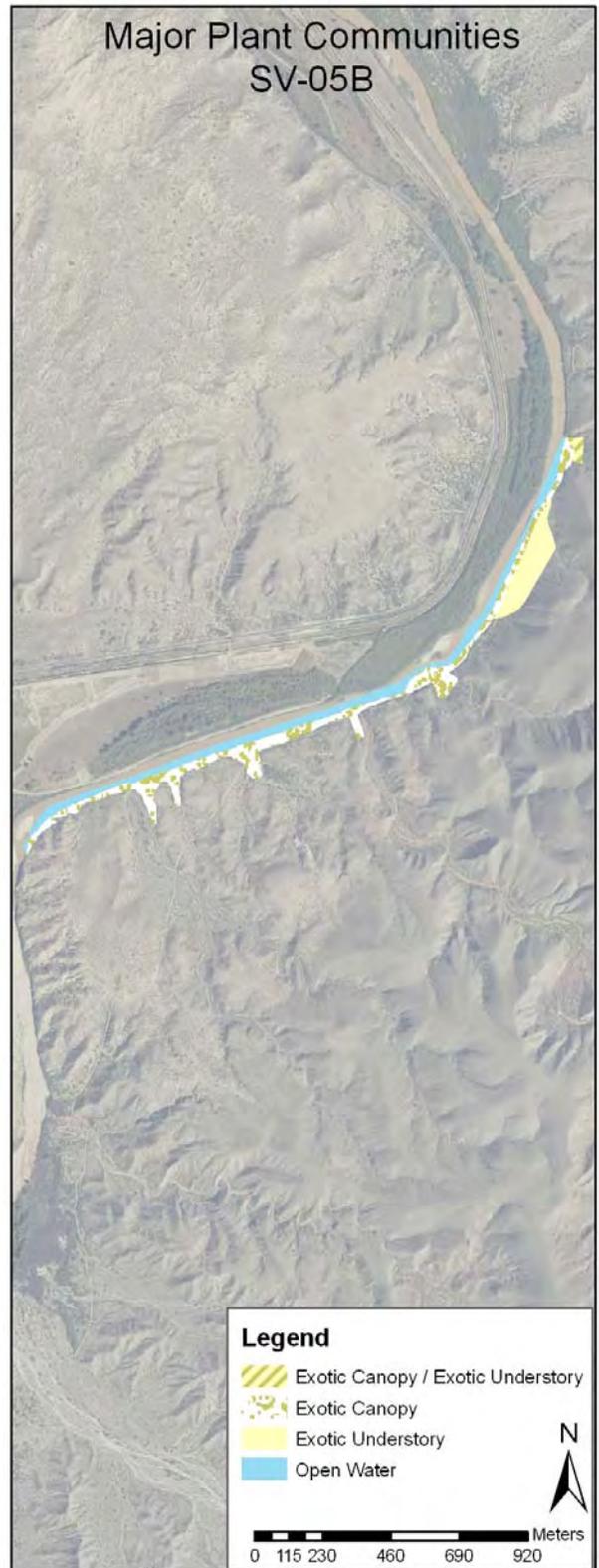
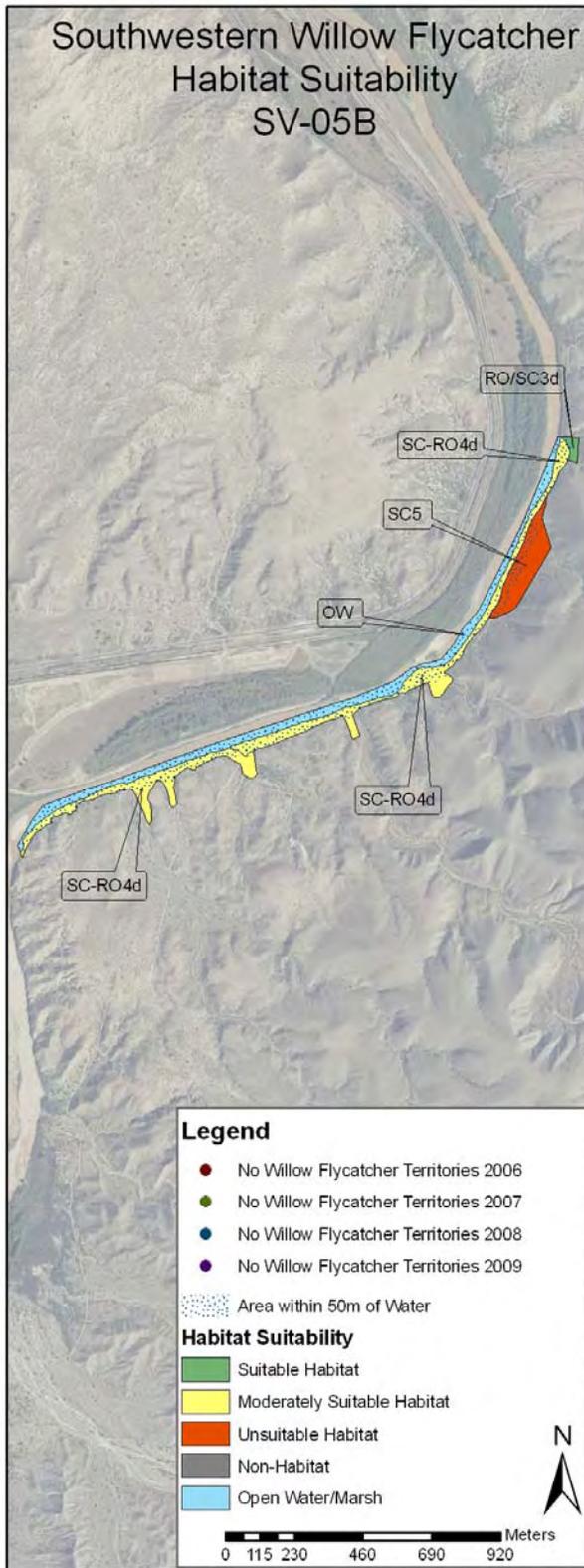
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	1	4%	0	0%
Moderately Suitable	19	70%	15	56%
Unsuitable	7	26%	3	11%
Total Area	27	100%	18	67%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3d	1	4%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC-RO4d	19	70%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5	7	26%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: SV-06

Habitat Acreage

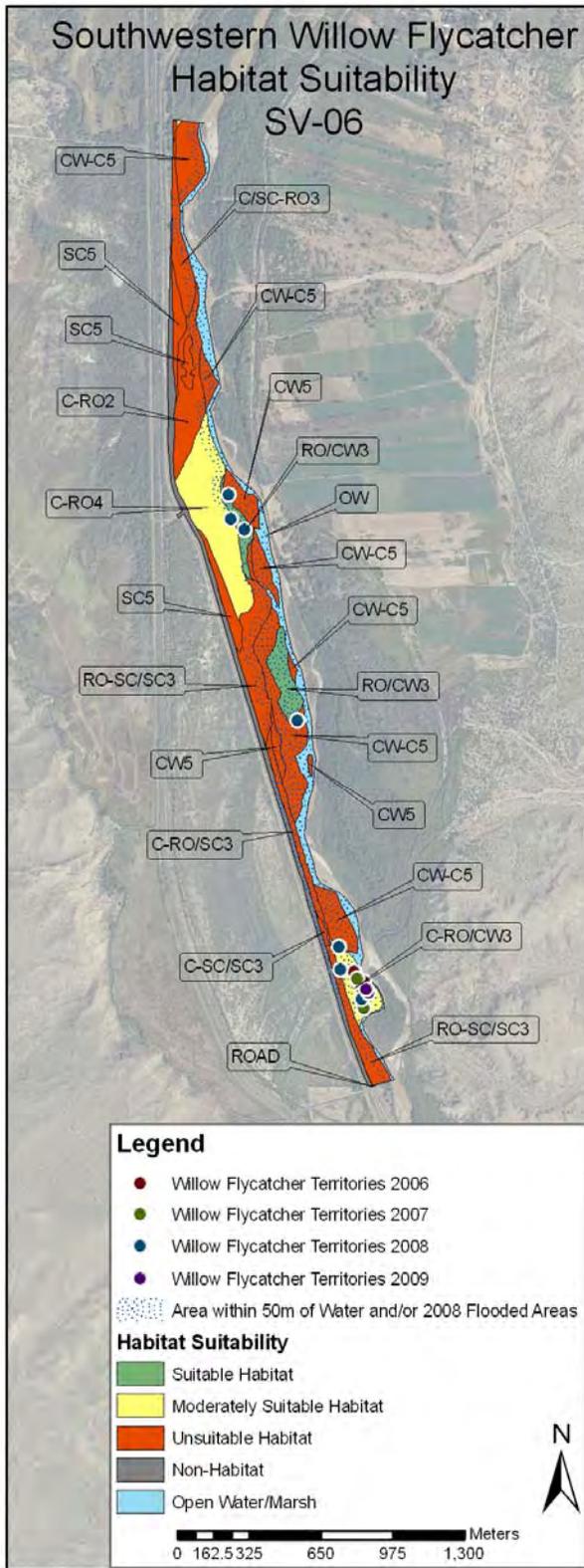
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	12	7%	12	7%
Moderately Suitable	38	23%	14	9%
Unsuitable	113	70%	76	47%
Total Area	163	100%	102	63%

Dominant Plant Communities within Sites

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC-RO3	9	6%
Mixed Canopy/Native Understory	C-RO/CW3	9	6%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-RO/SC3, C-SC/SC3	7	4%
Exotic Canopy/Native Understory	RO/CW3	12	7%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO-SC/SC3	21	13%
Native Canopy	-	-	-
Mixed Canopy	C-RO2, C-RO4	45	28%
Exotic Canopy	-	-	-
Native Understory	C-CW-TW5d, CW5, CW-C5	49	30%
Mixed Understory	-	-	-
Exotic Understory	SC5	10	6%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	1	3
2007	2	1	3
2008	4	3	7
2009	1	1	2



Survey Site: SV-07

Habitat Acreage

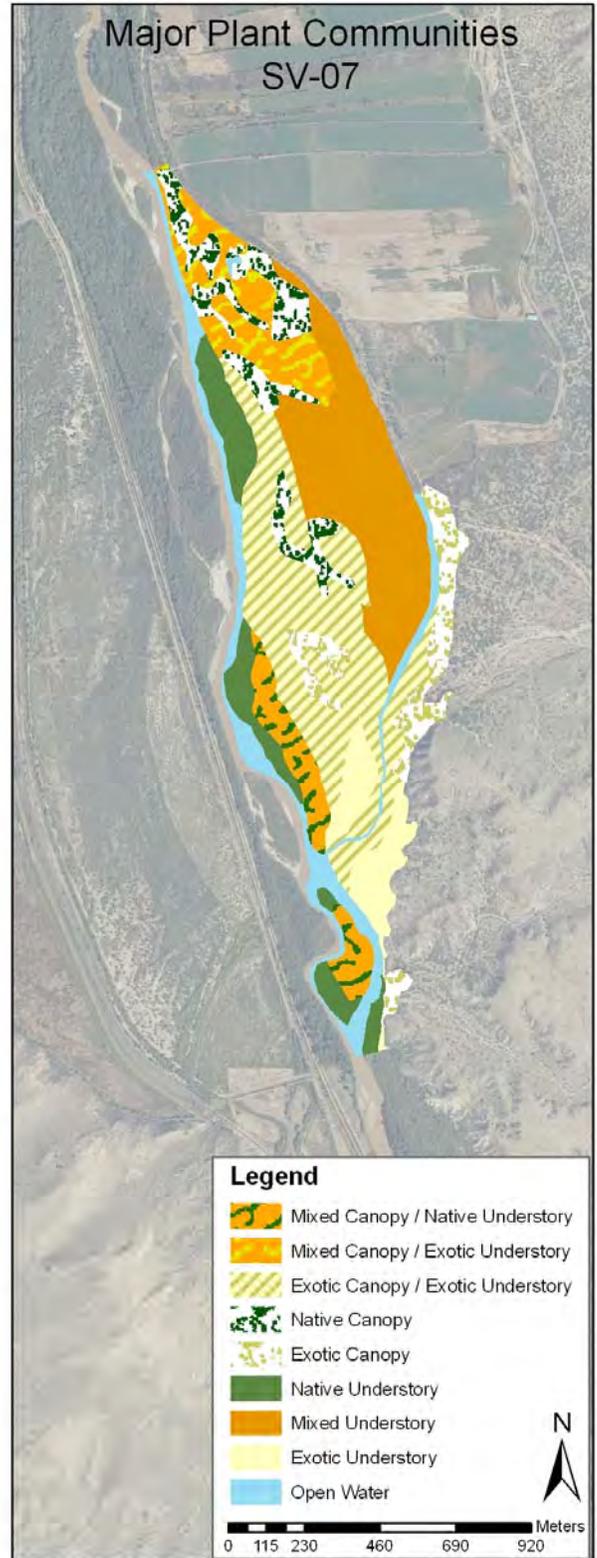
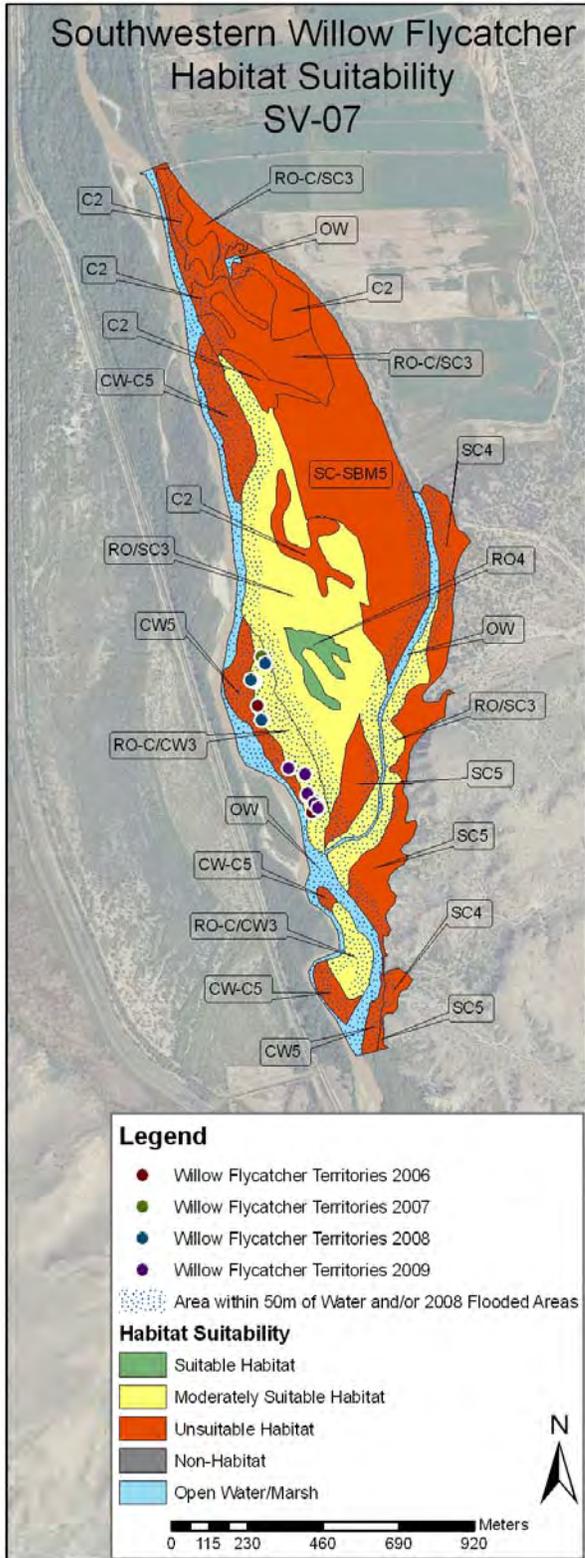
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	5	2%	0	0%
Moderately Suitable	91	35%	49	19%
Unsuitable	161	63%	55	21%
Total Area	257	100%	104	40%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	RO-C/CW3	17	7%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	RO-C/SC3	24	9%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3	74	29%
Native Canopy	C2	25	10%
Mixed Canopy	-	-	-
Exotic Canopy	RO4, SC4	21	8%
Native Understory	CW5, CW-C5	22	8%
Mixed Understory	SC-SBM5	57	22%
Exotic Understory	SC5	17	7%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	3	3
2007	2	1	3
2008	1	4	5
2009	0	5	5



Survey Site: SV-08

Habitat Acreage

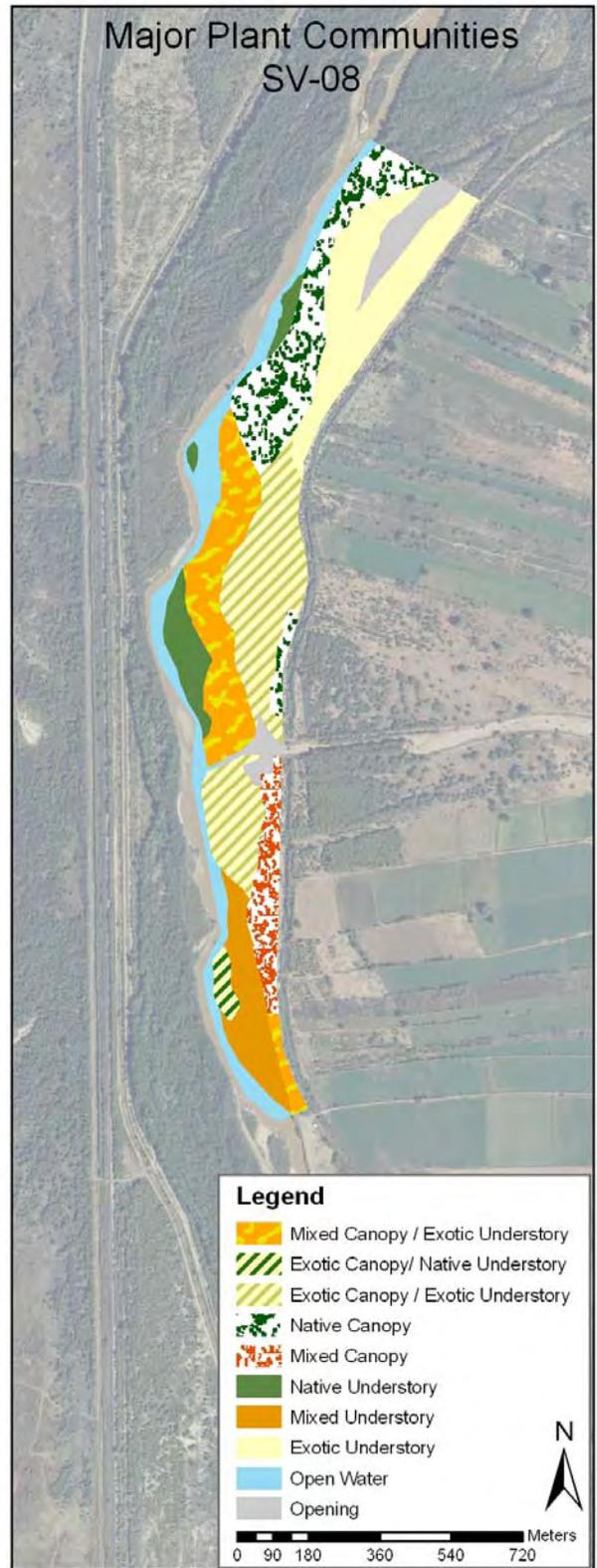
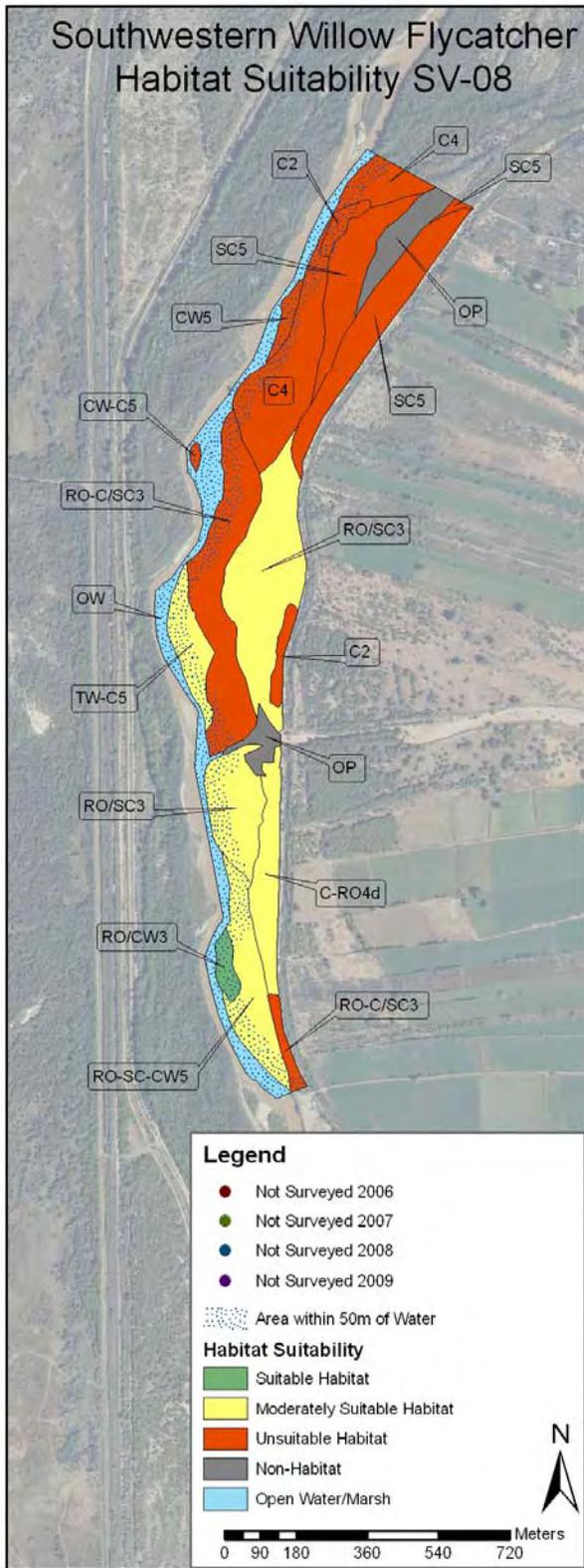
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	2	2%	2	2%
Moderately Suitable	51	43%	14	12%
Unsuitable	65	55%	17	14%
Total Area	118	100%	33	28%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	RO-C/SC3	20	17%
Exotic Canopy/Native Understory	RO/CW3	2	2%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3	29	25%
Native Canopy	C2, C4	22	19%
Mixed Canopy	C/RO4d	8	6%
Exotic Canopy	-	-	-
Native Understory	CW5, TW-C5	7	6%
Mixed Understory	RO-SC-CW5	10	7%
Exotic Understory	SC5	21	18%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	N/A	N/A	Not Surveyed
2007	N/A	N/A	Not Surveyed
2008	N/A	N/A	Not Surveyed
2009	N/A	N/A	Not Surveyed



Survey Site: SV-09

Habitat Acreage

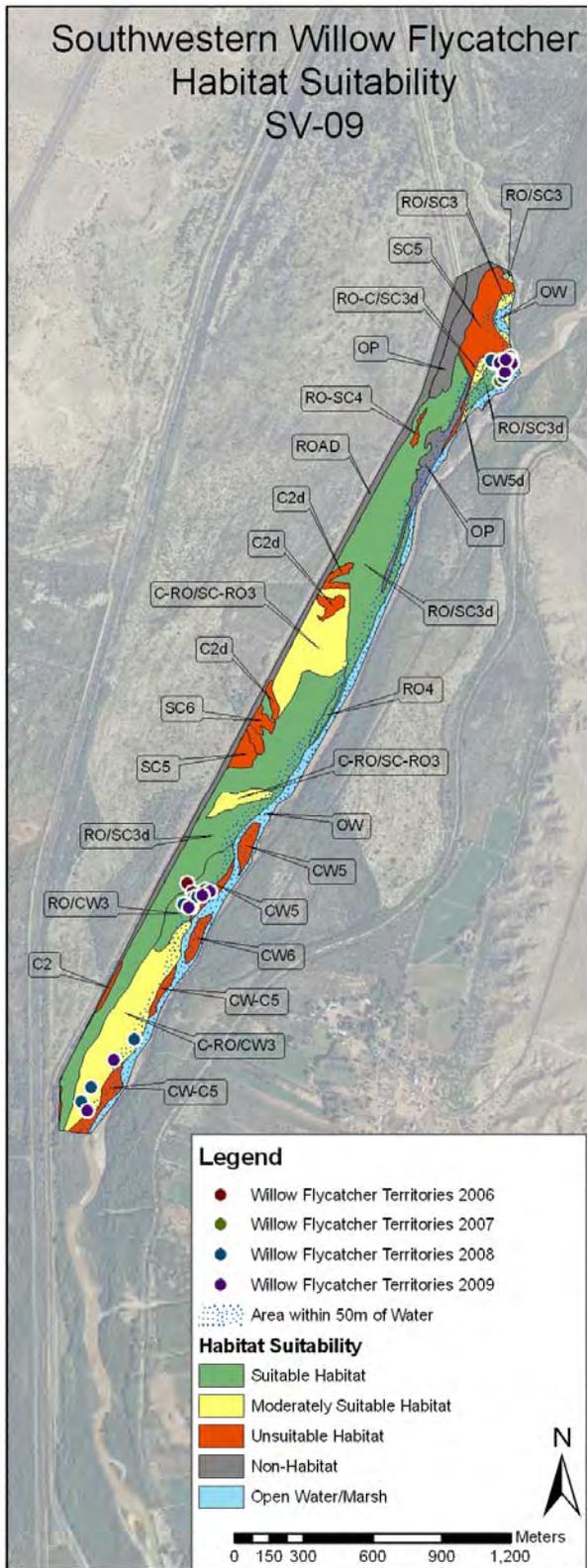
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	128	56%	28	12%
Moderately Suitable	59	26%	13	6%
Unsuitable	40	18%	18	8%
Total Area	227	100%	59	26%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	C-RO/CW3	30	13%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-RO/SC-RO3, RO-C/SC3d	27	12%
Exotic Canopy/Native Understory	RO/CW3, RO/CW3d	11	5%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3, RO/SC3d	117	52%
Native Canopy	C2, C2d	7	3%
Mixed Canopy	-	-	-
Exotic Canopy	RO4, RO-SC4	2	1%
Native Understory	CW5, CW5d, CW6, CW-C5	14	6%
Mixed Understory	-	-	-
Exotic Understory	SC5, SC6	19	8%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	5	7
2007	2	4	6
2008	5	8	13
2009	2	9	11



Survey Site: SV-10

Habitat Acreage

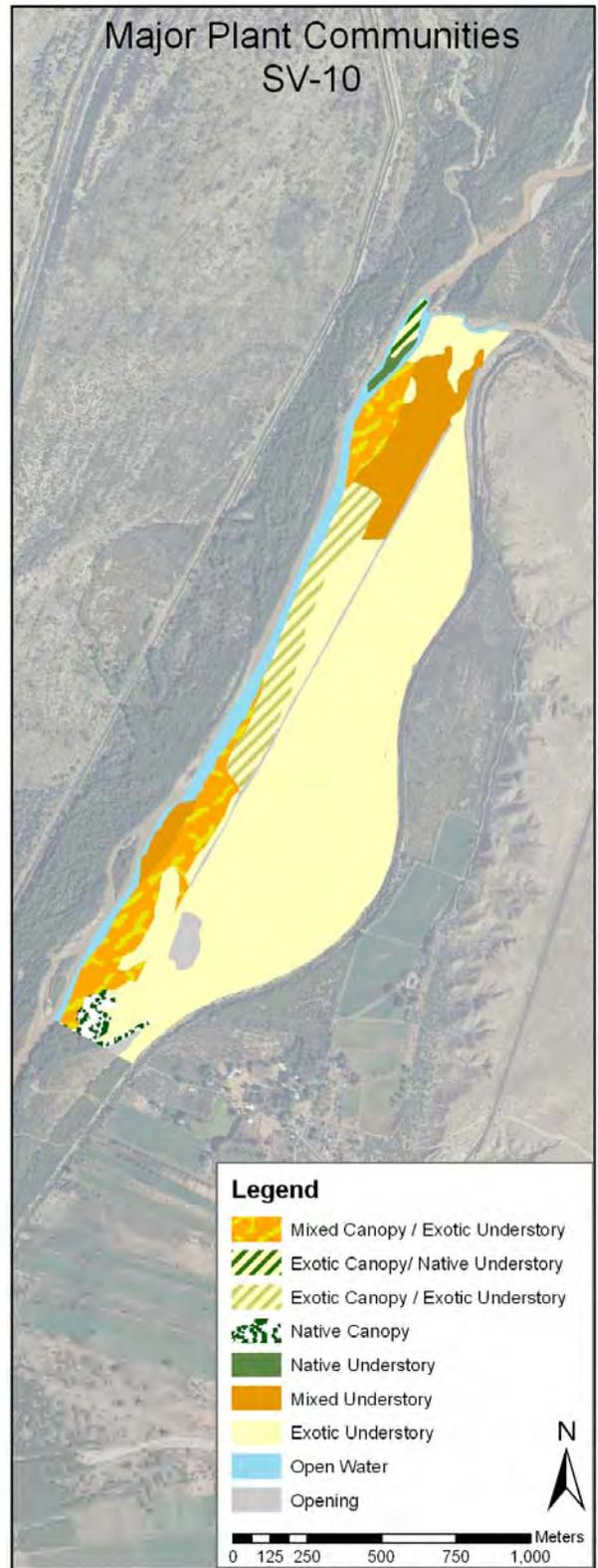
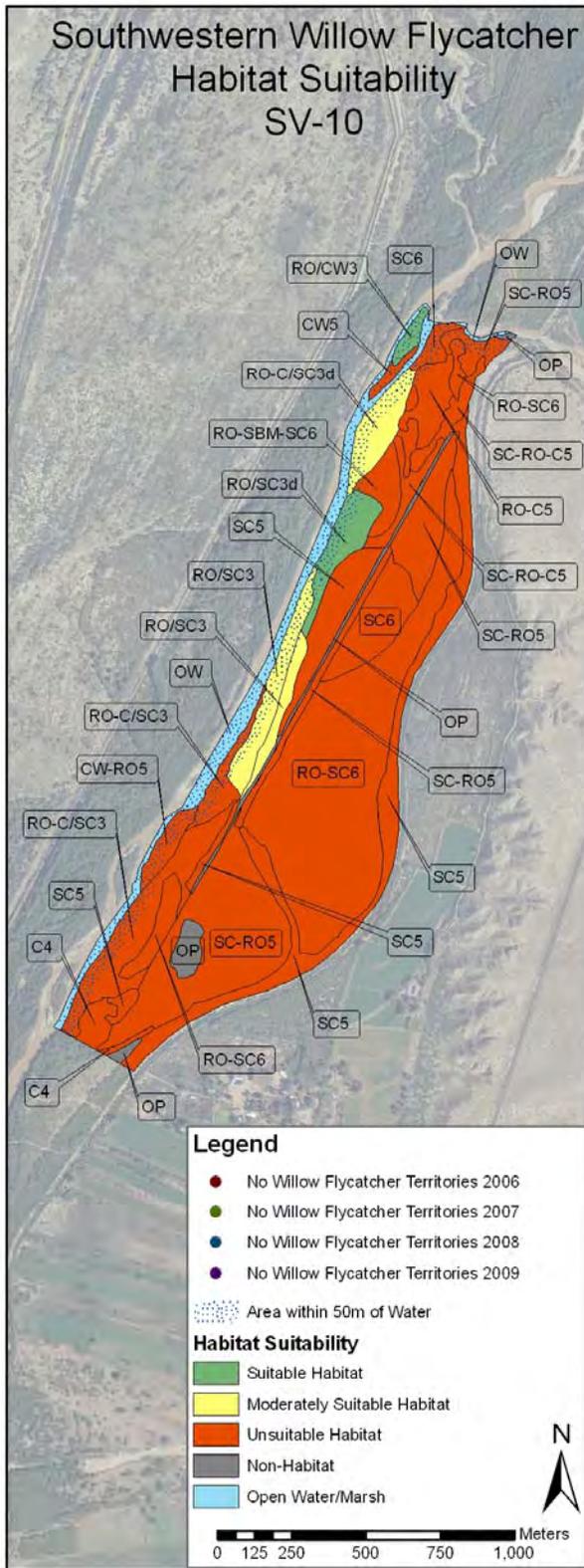
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	11	3%	6	2%
Moderately Suitable	24	8%	13	4%
Unsuitable	285	89%	21	7%
Total Area	320	100%	40	13%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	RO-C/SC3, RO-C/SC3d	35	11%
Exotic Canopy/Native Understory	RO/CW3	2	1%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3, RO/SC3d	24	8%
Native Canopy	C4	5	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	2	1%
Mixed Understory	CW-RO5, RO-C5, RO-SBM-SC6, RO-SC-C6, SC-RO-C5	28	9%
Exotic Understory	RO-SC6, SC5, SC6, SC-RO5	225	70%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: SV-11

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	62	46%	31	23%
Unsuitable	73	54%	21	16%
Total Area	135	100%	52	39%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	RO/SC-CW3	1	1%
Exotic Canopy/Exotic Understory	RO/SC3, RO-SC/SC3	61	45%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5, CW6, CW-TW5	20	15%
Mixed Understory	CW-SC5d	6	4%
Exotic Understory	SC5	47	35%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	4	1	5
2008	0	1	1
2009	0	3	3

Survey Site: SV-12

Habitat Acreage

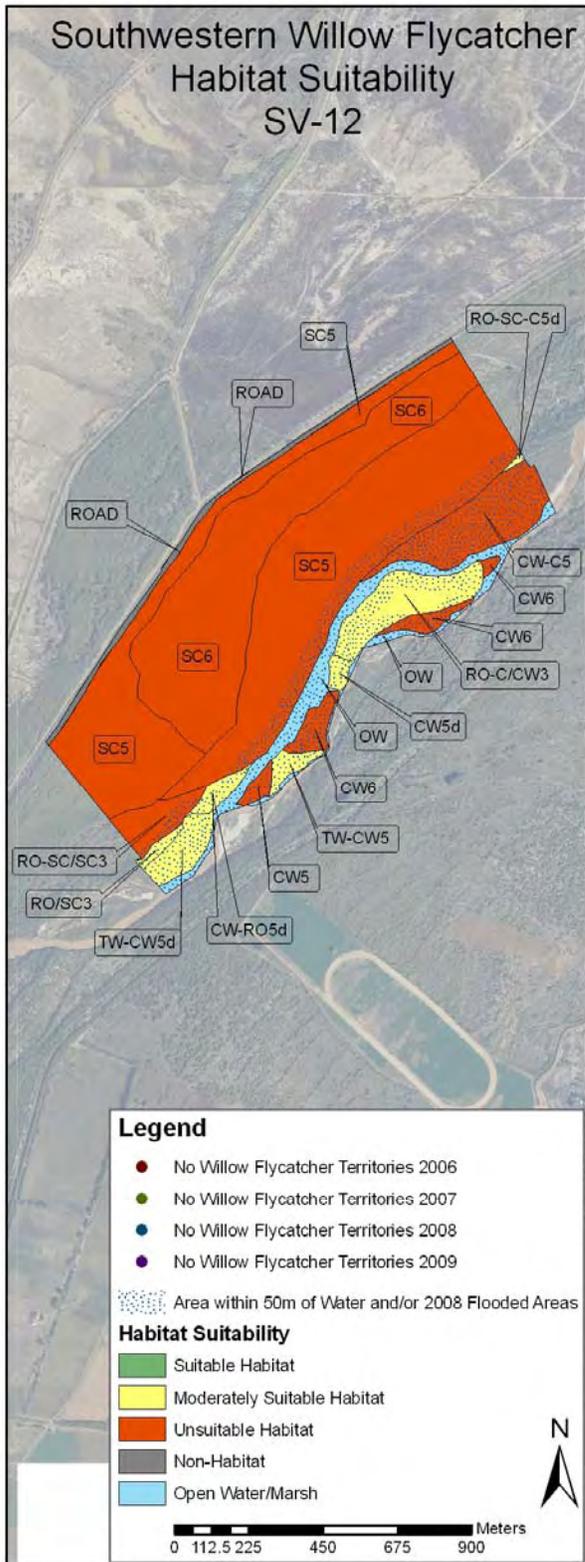
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	27	10%	23	9%
Unsuitable	231	90%	44	17%
Total Area	258	100%	67	26%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	RO-C/CW3	13	5%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	R)/SC3, RO-SC/SC3	8	3%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5, CW5d, CW6, CW-C5, TW-CW5	36	14%
Mixed Understory	CW-RO5d	3	1%
Exotic Understory	SC5, SC6	198	77%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: SV-13

Habitat Acreage

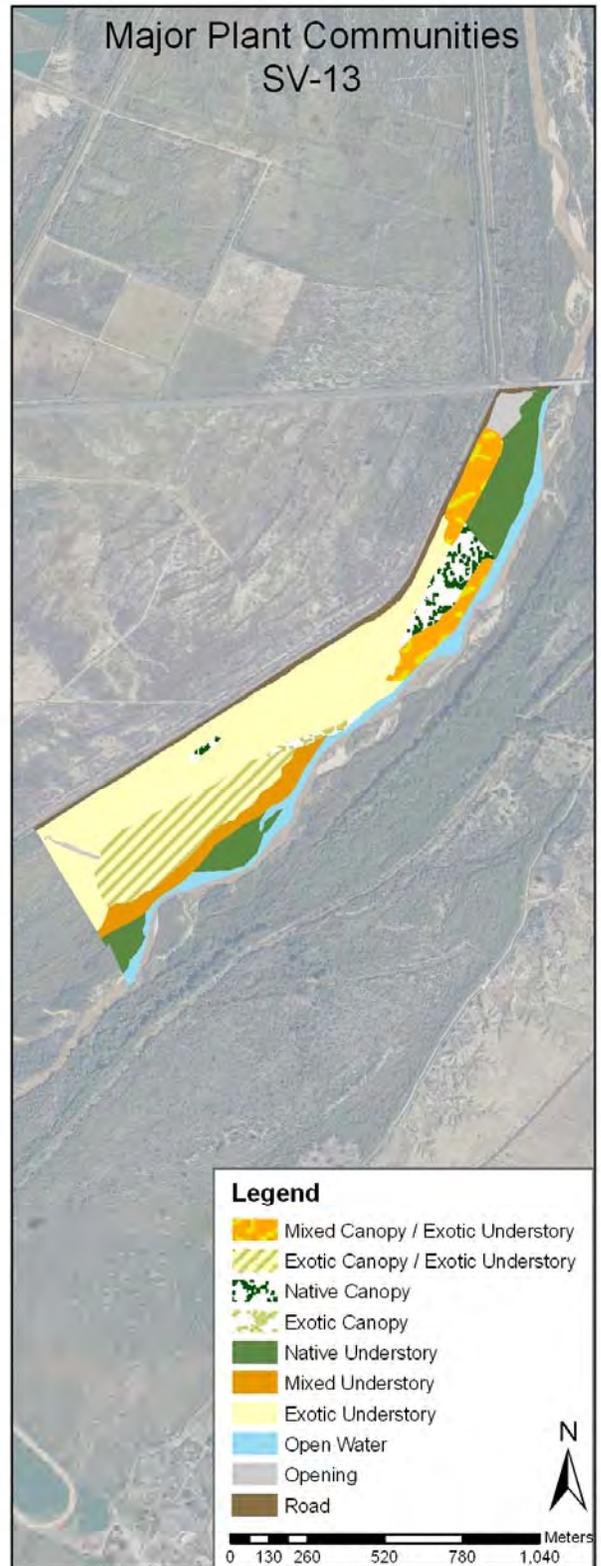
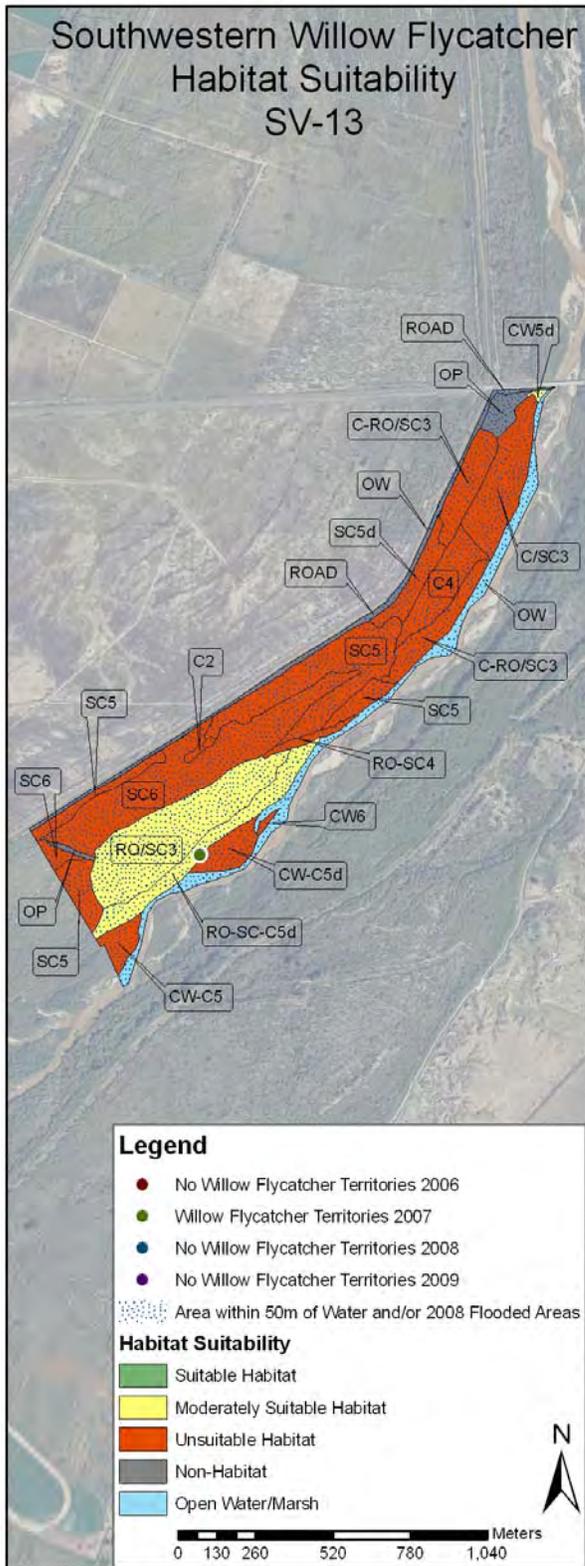
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	42	25%	12	7%
Unsuitable	126	75%	26	15%
Total Area	168	100%	38	22%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-RO/SC3	15	9%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3	30	18%
Native Canopy	C2, C4	10	6%
Mixed Canopy	-	-	-
Exotic Canopy	RO-SC4	2	1%
Native Understory	C/SC3, CW-C5, CW-C5d	24	14%
Mixed Understory	RO-SC-C5d	12	7%
Exotic Understory	SC5, SC5d, SC6	75	45%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: SV-14

Habitat Acreage

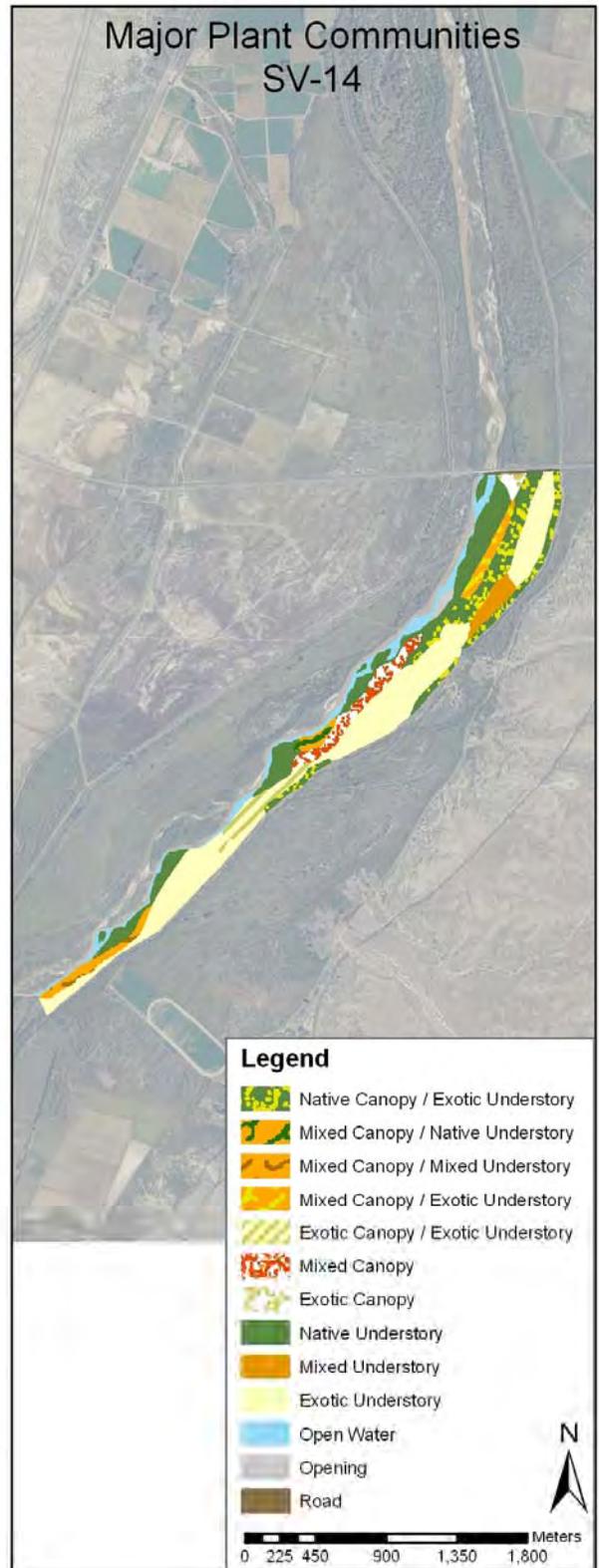
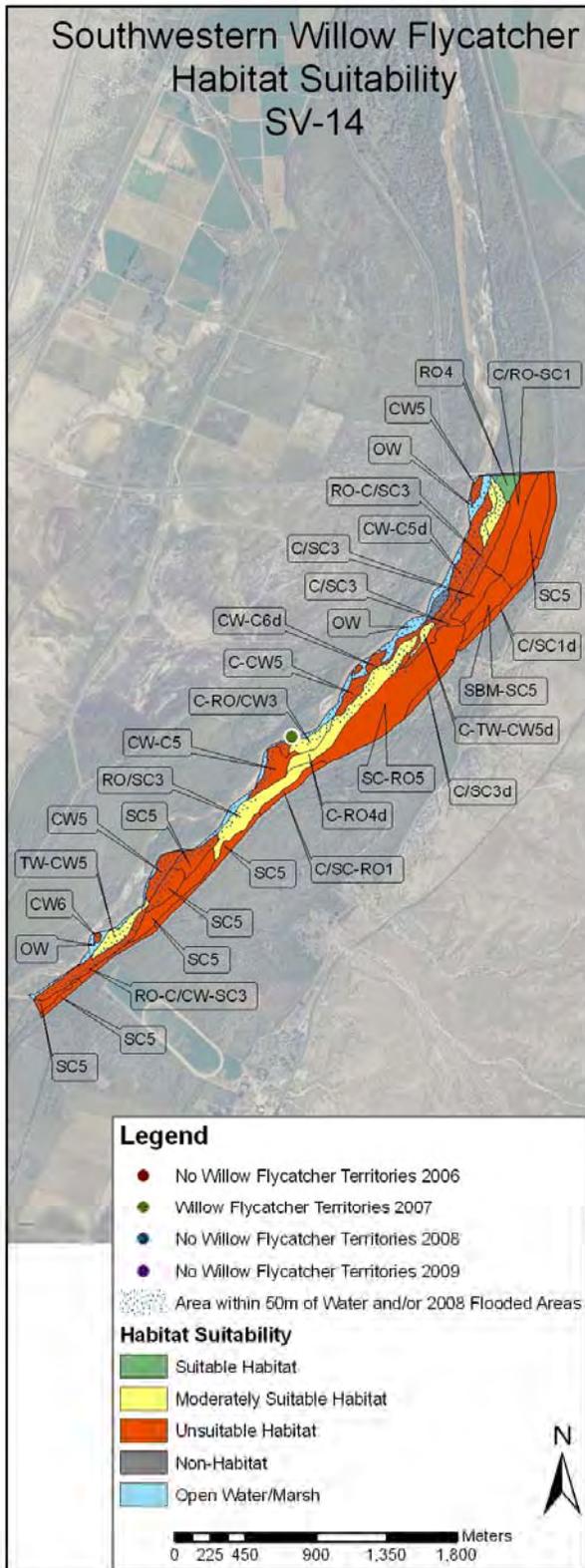
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	4	1%	1	1%
Moderately Suitable	59	19%	34	11%
Unsuitable	253	80%	73	23%
Total Area	316	100%	108	34%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/RO-SC1, C/SC1d, C/SC1d, C/SC3, C/SC3d, C/SC-RO1	53	17%
Mixed Canopy/Native Understory	C-RO/CW3	6	2%
Mixed Canopy/Mixed Understory	RO-C/CW-SC3	11	3%
Mixed Canopy/Exotic Understory	RO-C/SC3	9	3%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3	16	5%
Native Canopy	-	-	-
Mixed Canopy	C-RO4d	21	7%
Exotic Canopy	RO4	4	1%
Native Understory	C-CW5, C-CW5d, C-TW-CW5d, CW5, CW6, CW-C5, CW-C5d, CW-C6, CW-C6d, TW-CW5, TW-CW-C5	63	20%
Mixed Understory	SBM-SC5	10	3%
Exotic Understory	SC5, SC-RO5	123	39%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: SV-15

Habitat Acreage

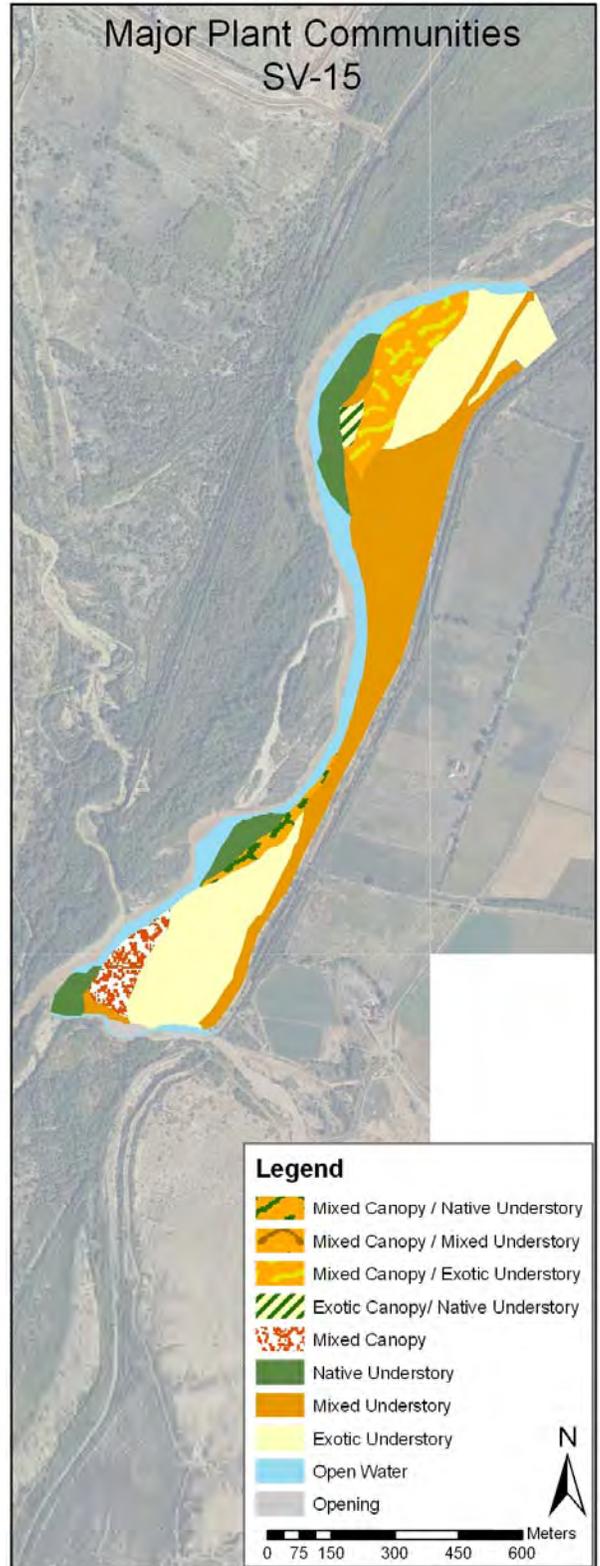
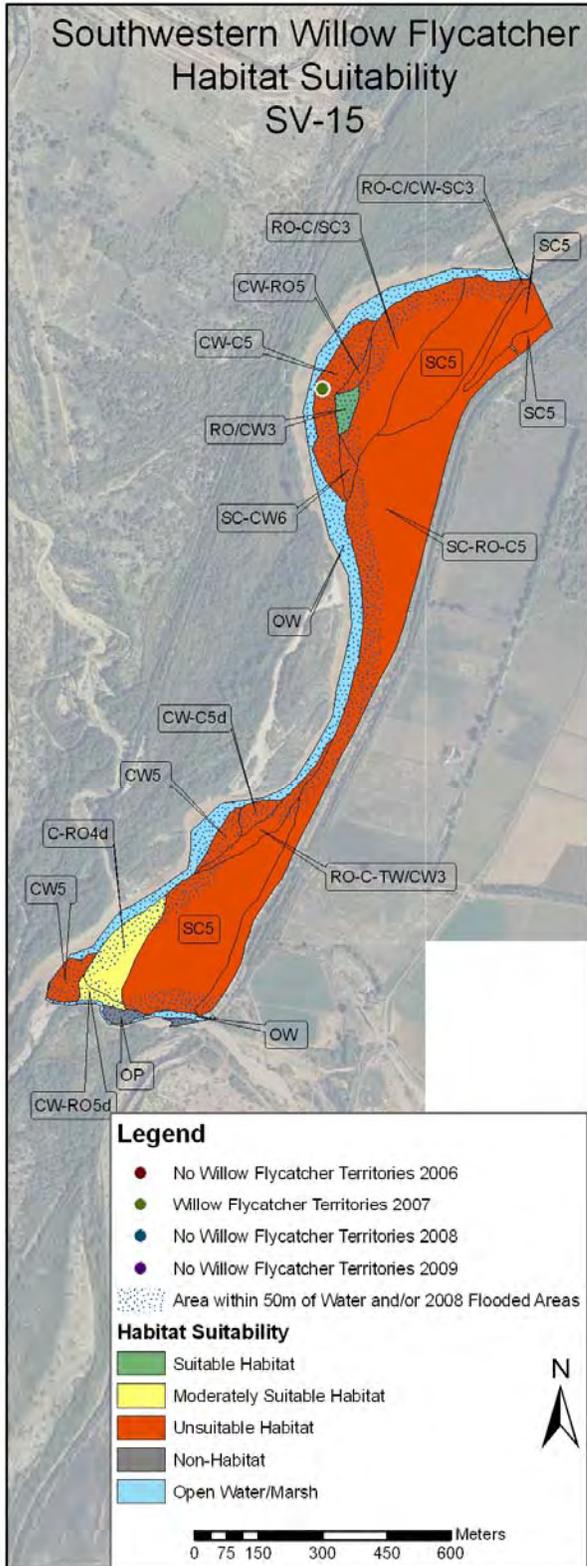
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	1	1%	1	1%
Moderately Suitable	5	5%	4	4%
Unsuitable	91	94%	33	34%
Total Area	97	100%	38	39%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	RO-C-TW/CW3	2	2%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	RO-C/SC3	10	10%
Exotic Canopy/Native Understory	RO/CW3	1	1%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	C-RO4d	5	5%
Exotic Canopy	-	-	-
Native Understory	CW5, CW-C5, CW-C5d	10	10%
Mixed Understory	CW-RO5, CW-RO5d, SC-CW6, SC-RO-C5	35	36%
Exotic Understory	SC5	34	35%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



San Acacia Reach

Habitat Acreage

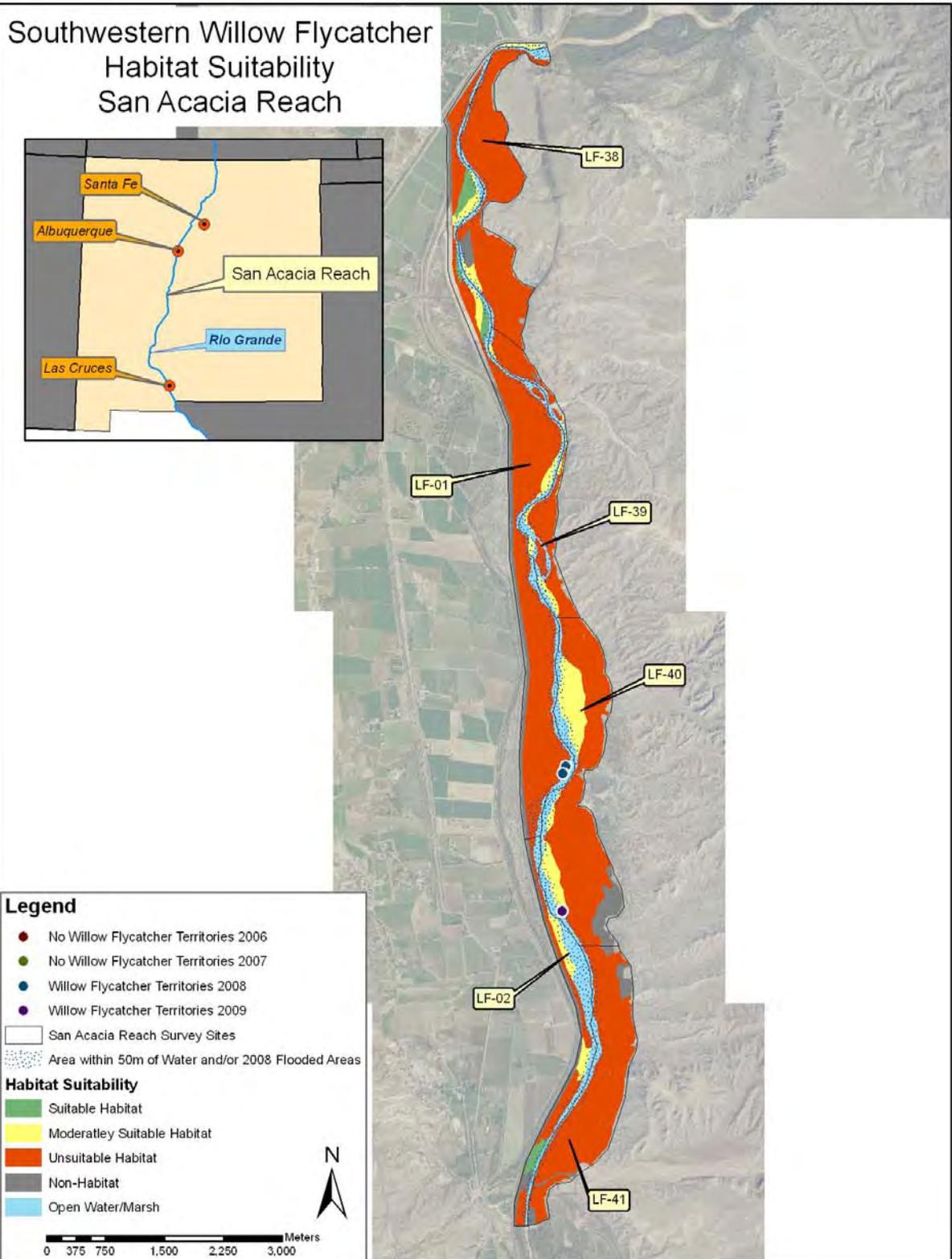
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	45	2%	19	1%
Moderately Suitable	208	9%	98	4%
Unsuitable	1959	89%	319	14%
Total Area	2212	100%	436	19%

Dominant Plant Communities within Reach

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW-C3, C/SC-NMO3d, C-TW/SC-B3d, C/NMO-SC-HME3d, C/SC-ATX3, C/SC-NMO-B3d, C/CW-SC-RO3d, C/SC-HMS3, C/RO-TW-C3d, C/SC-NMO1	228	10%
Native Canopy/Exotic Understory	C/SC1, C/SC3, C/SC3d, C-TW/SC3d, C/SC3, C/SC1d	213	10%
Mixed Canopy/Native Understory	C-RO/CW3, C-RO/CW-B3d, C-RO/CW-TW3d, C-RO/SBM3d, TW-RO/CW3d, C-RO/TW3d, RO-C/CW3d, C-RO/C-B3d, C-RO/C-TW-SC3d	169	8%
Mixed Canopy/Mixed Understory	C-RO/CW-SC3, RO-C/CW-SC3, RO-C/CW-SC3, RO-C/SC-TW3d, C-RO/CW-RO-SC3, C-RO/SC-CW3d, RO-C/CW-SC3d	189	9%
Mixed Canopy/Exotic Understory	C-RO/SC-RO1d, SC-TW-C/SC-TW-NMO3, C-SC/SC3	60	3%
Exotic Canopy/Native Understory	RO/CW-B3, RO/CW-B-SBM3d	26	1%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d, SC/SC3	40	2%
Native Canopy	C2, C2d, C4d, C4	135	6%
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d, SC-RO4	57	3%
Native Understory	ATX6d, C5, CW-C5, CW-C-CAT5d, C-CW5d, CW5d, SBM-C5	177	8%
Mixed Understory	C-SC-B6, CW-SC5d, SC-B5, SC-CW5, SC-NMO5d, SC-ATX6, SC-RO-B5, SC-CW-C5, SC-TW-RO-C5d, C-RO-SBM-SC5d, HME-CR5d, RO-C5d, RO-CW-B5d	208	9%
Exotic Understory	SC5d, SC5, SC6, SC-RO6, SC6d	710	32%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	2	0	2
2009	1	0	1



Survey Site: LF-01

Habitat Acreage

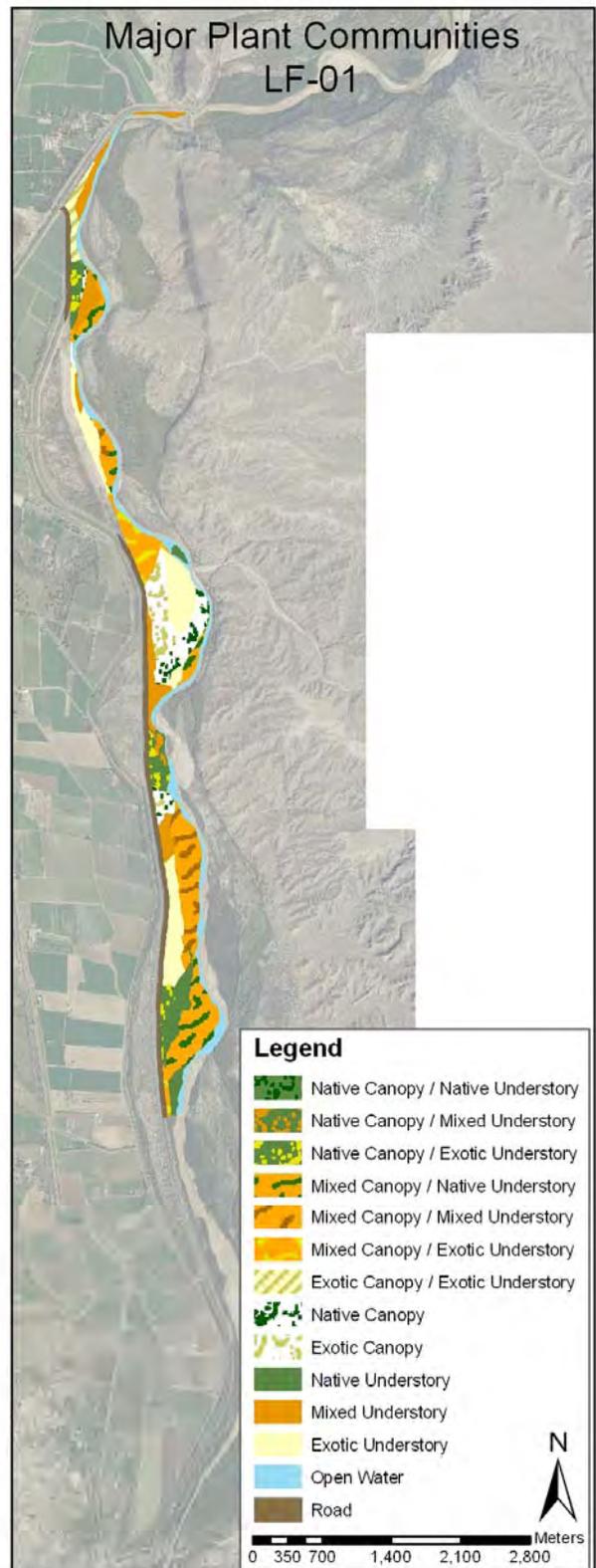
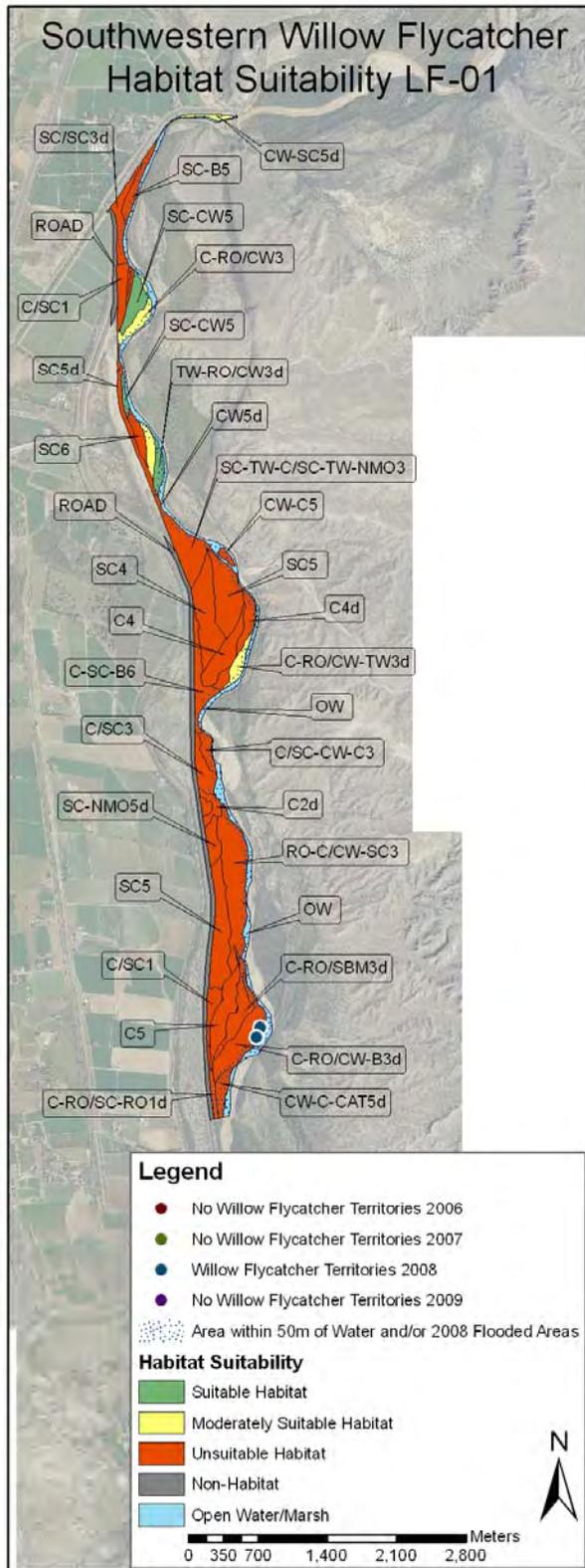
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	32	5%	13	2%
Moderately Suitable	40	6%	24	4%
Unsuitable	585	89%	121	18%
Total Area	657	100%	158	24%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW-C3	9	1%
Native Canopy/Exotic Understory	C-RO/SC-RO1d, SC-TW-C/SC-TW-NMO3	44	7%
Mixed Canopy/Native Understory	C-RO/CW3, C-RO/CW-B3d, C-RO/CW-TW3d, C-RO/SBM3d, TW-RO/CW3d	102	16%
Mixed Canopy/Mixed Understory	C-RO/CW-SC3, RO-C/CW-SC3	84	13%
Mixed Canopy/Exotic Understory	C/SC1, C/SC3	45	7%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	18	3%
Native Canopy	C2, C2d, C4, C4d	52	8%
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d	55	8%
Native Understory	ATX6d, C5, CW-C5, CW-C-CAT5d	48	7%
Mixed Understory	C-SC-B6, CW-SC5d, SC-B5, SC-CW5, SC-NMO5d	78	12%
Exotic Understory	SC5, SC5d, SC6	122	19%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	2	0	2
2009	0	0	0



Survey Site: LF-02

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	13	11%	6	5%
Moderately Suitable	30	25%	17	14%
Unsuitable	75	64%	38	32%
Total Area	118	100%	61	51%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-NMO3d, C-TW/SC-B3d	18	15%
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC3d	37	31%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-RO/SC-RO1d, C-SC/SC3	17	14%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2, C2d	17	14%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5d, CW-C-CAT5d	19	16%
Mixed Understory	-	-	-
Exotic Understory	SC5d	10	8%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0

Survey Site: LF-38

Habitat Acreage

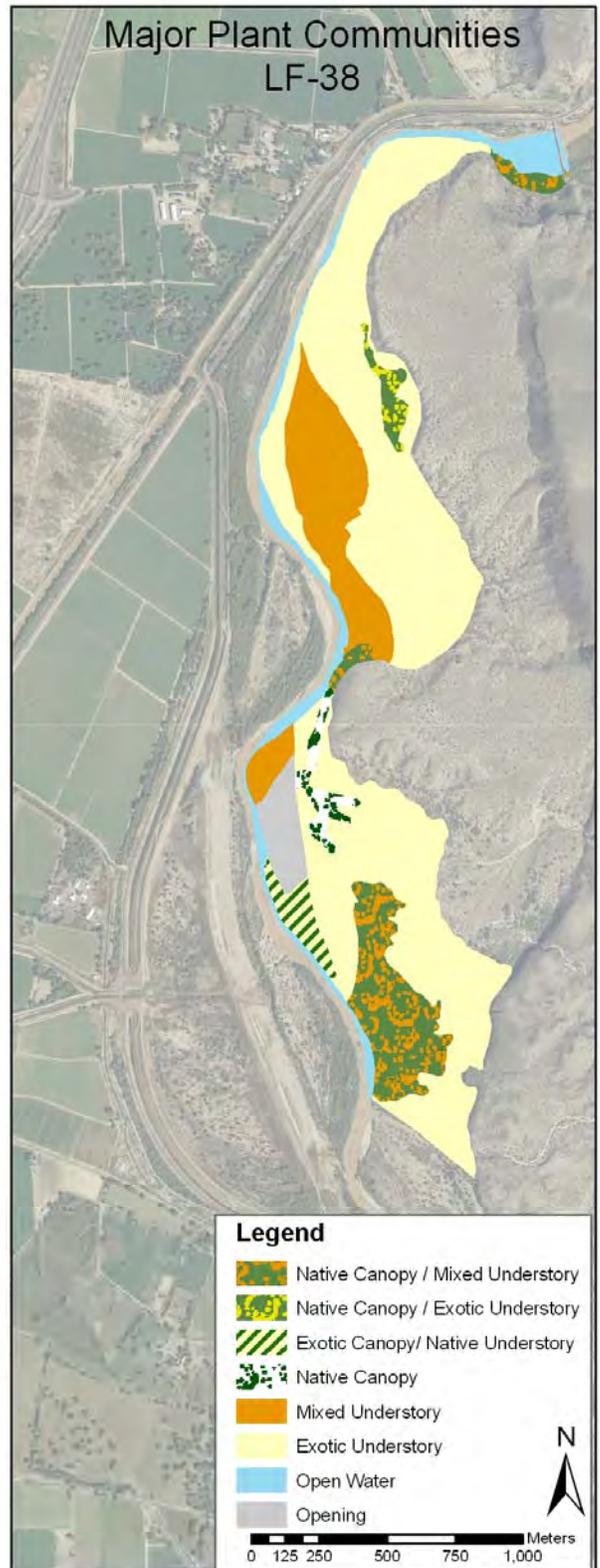
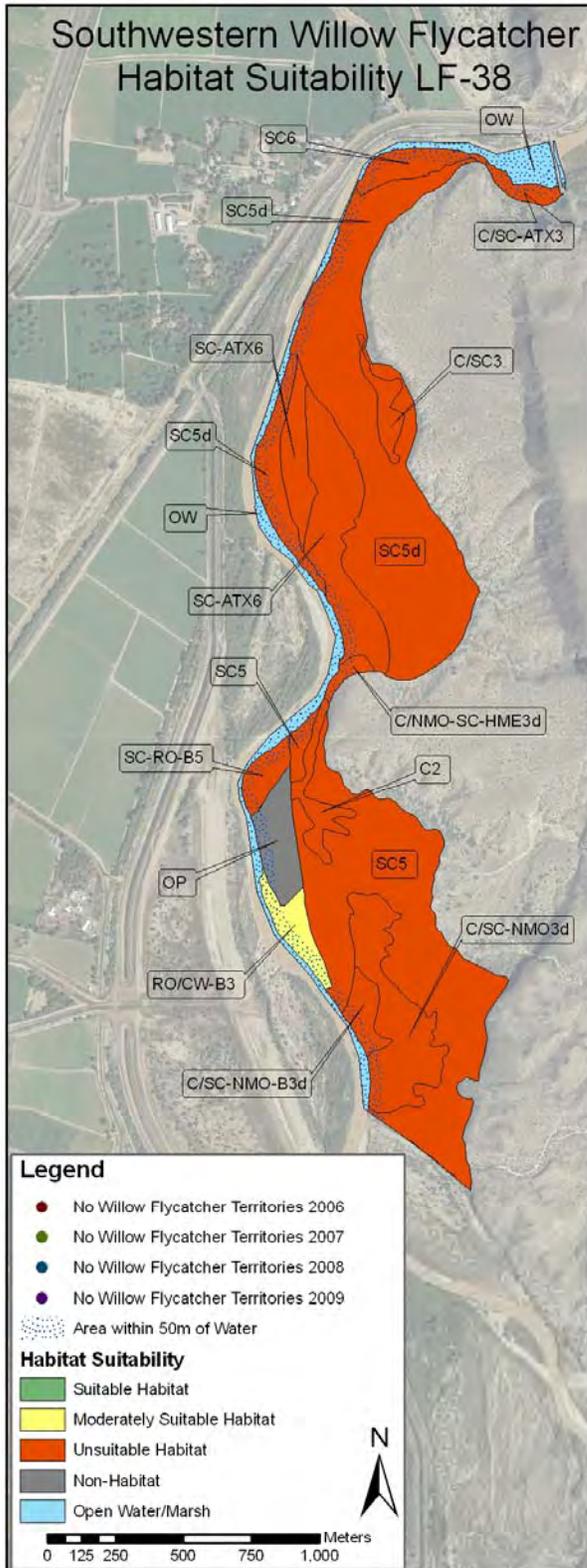
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	9	2%	5	1%
Unsuitable	372	98%	48	13%
Total Area	381	100%	53	14%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/NMO-SC-HME3d, C/SC-ATX3, C/SC-NMO3d, C/SC-NMO-B3d	47	12%
Native Canopy/Exotic Understory	C/SC3	6	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	RO/CW-B3	9	2%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2	9	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-ATX6, SC-RO-B5	55	14%
Exotic Understory	SC5, SC5d, SC6	255	67%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-39

Habitat Acreage

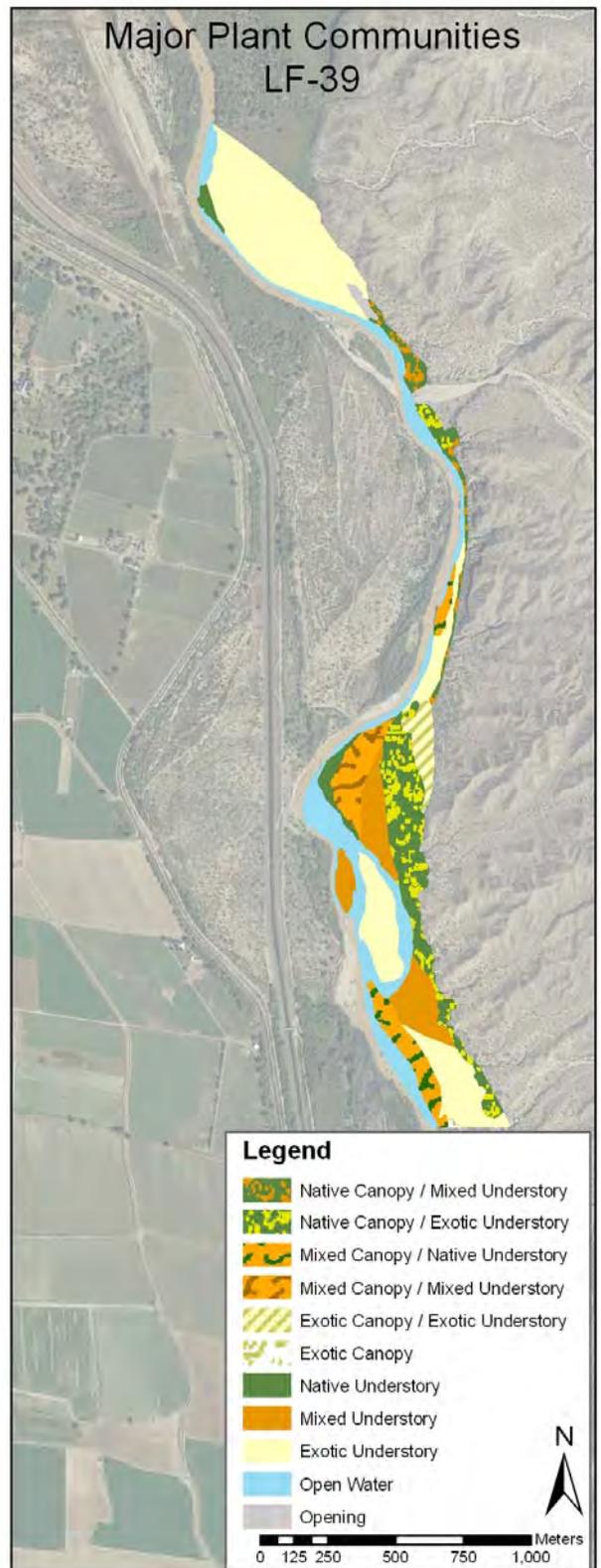
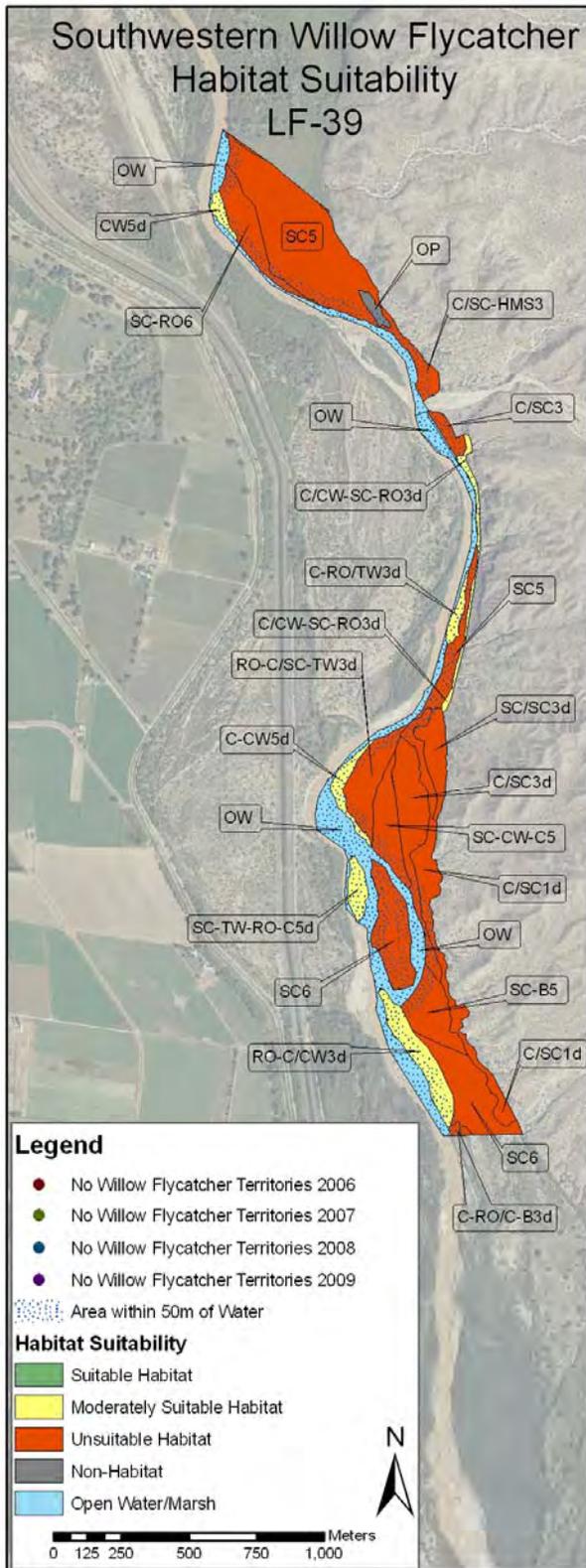
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	21	13%	18	11%
Unsuitable	143	87%	46	28%
Total Area	164	100%	64	39%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/CW-SC-RO3d, C/SC-HMS3	7	4%
Native Canopy/Exotic Understory	C/SC1d, C/SC3, C/SC3d	31	19%
Mixed Canopy/Native Understory	C-RO/TW3d, RO-C/CW3d	10	6%
Mixed Canopy/Mixed Understory	RO-C/SC-TW3d	10	6%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	6	4%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5d, CW5d	5	3%
Mixed Understory	SC-B5, SC-CW-C5, SC-TW-RO-C5d	20	12%
Exotic Understory	SC5, SC6, SC-RO6	76	46%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-40

Habitat Acreage

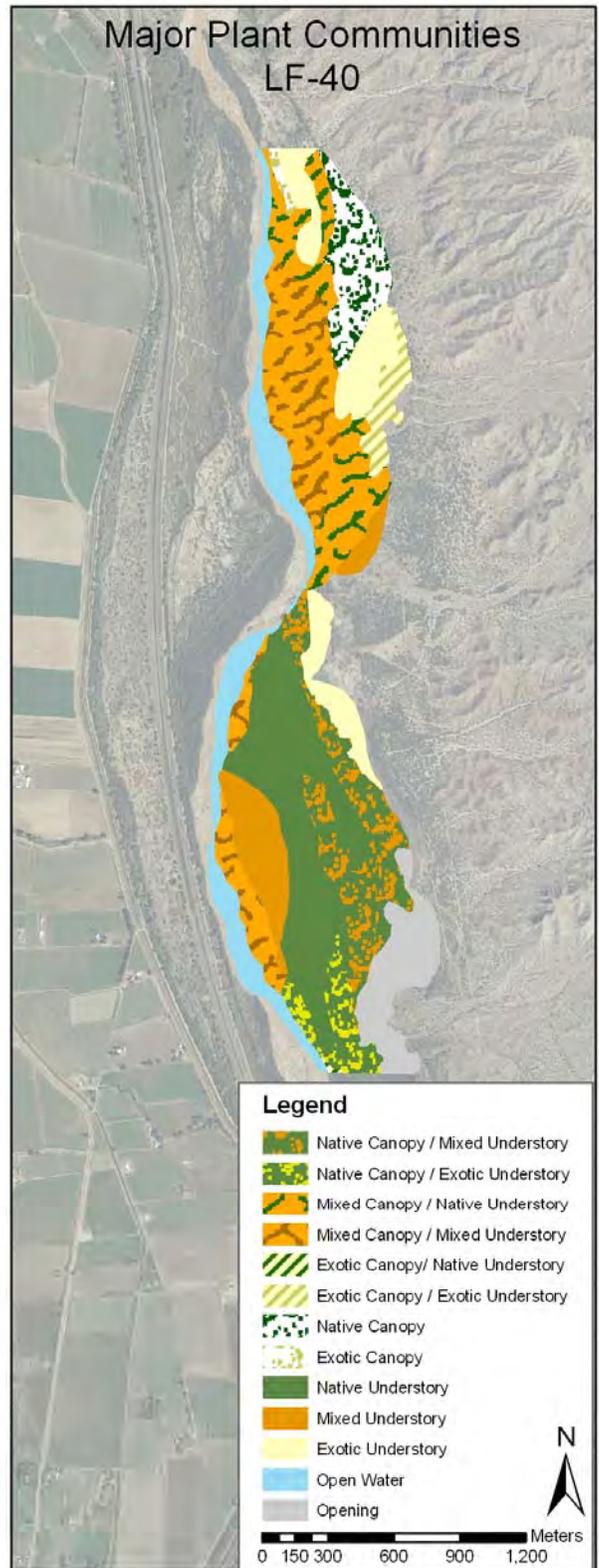
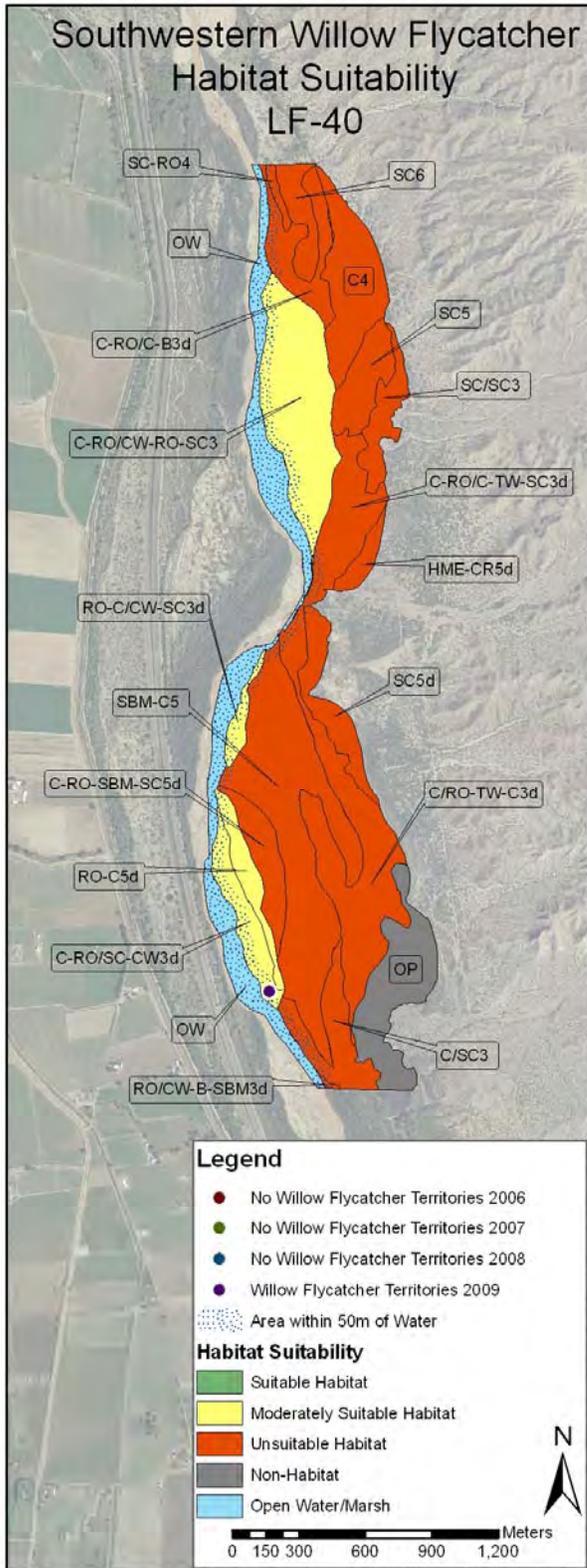
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	108	21%	34	7%
Unsuitable	400	79%	22	4%
Total Area	509	100%	56	11%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/RO-TW-C3d	73	14%
Native Canopy/Exotic Understory	C/SC3	25	5%
Mixed Canopy/Native Understory	C-RO/C-B3d, C-RO/C-TW-SC3d	56	11%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	RO/CW-B-SBM3d	1	0%
Exotic Canopy/Mixed Understory	C-RO/CW-RO-SC3, C-RO/SC-CW3d, RO-C/CW-SC3d	95	19%
Exotic Canopy/Exotic Understory	SC/SC3	16	3%
Native Canopy	C4	40	8%
Mixed Canopy	-	-	-
Exotic Canopy	SC-RO4	3	1%
Native Understory	SBM-C5	105	21%
Mixed Understory	C-RO-SBM-SC5d, HMS-CR5d, RO-C5d	39	8%
Exotic Understory	SC5, SC5d, SC6	55	11%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	0	1



Survey Site: LF-41

Habitat Acreage

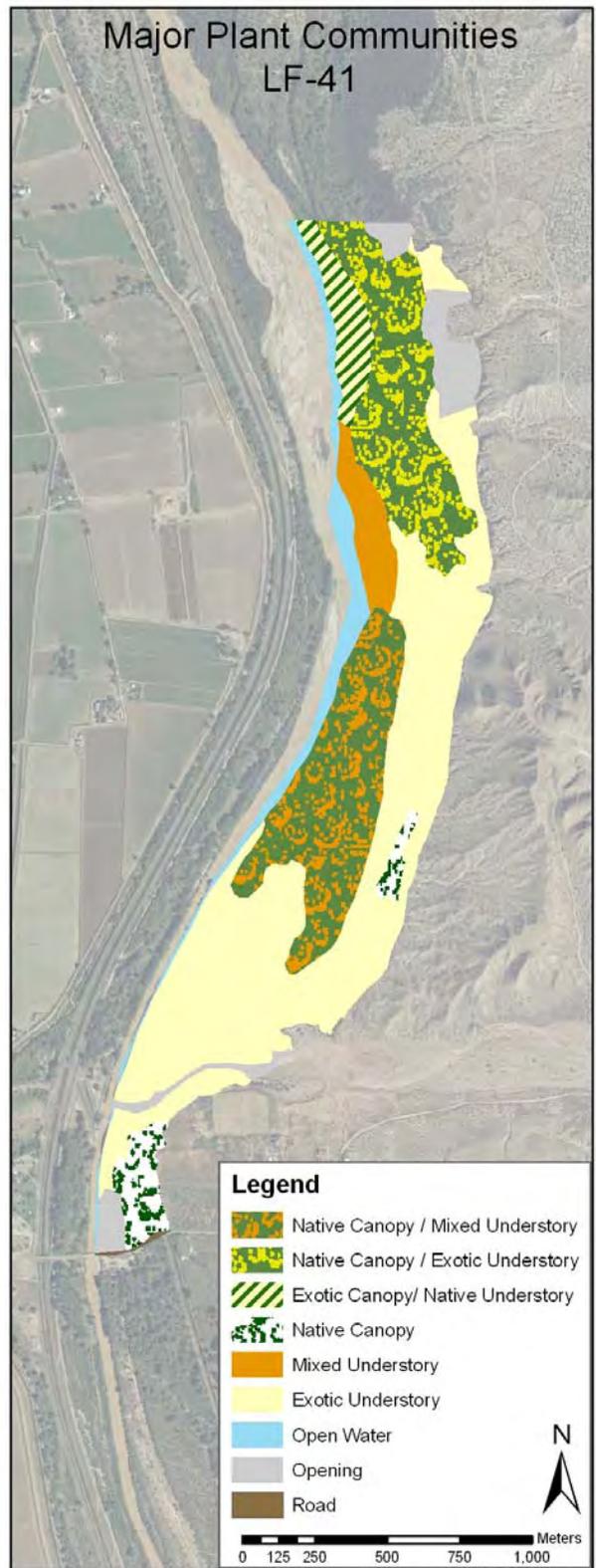
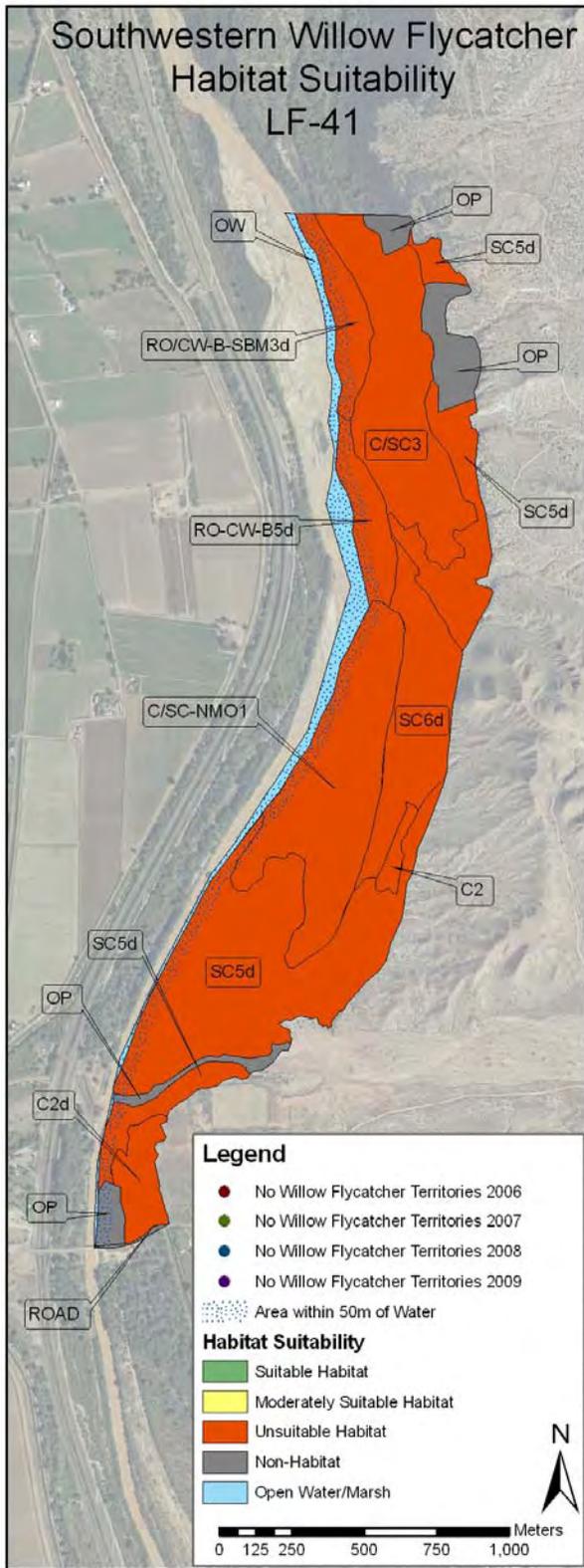
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	384	100%	44	11%
Total Area	384	100%	44	11%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-NMO1	74	19%
Native Canopy/Exotic Understory	C/SC3	68	18%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	RO/CW-B-SBM3d	17	4%
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2, C2d	17	4%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	RO-CW-B5d	16	4%
Exotic Understory	SC5d, SC6d	192	50%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Escondida Reach

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	11	0%	10	0%
Moderately Suitable	324	7%	209	5%
Unsuitable	4296	93%	1621	35%
Total Area	4631	100%	1840	40%

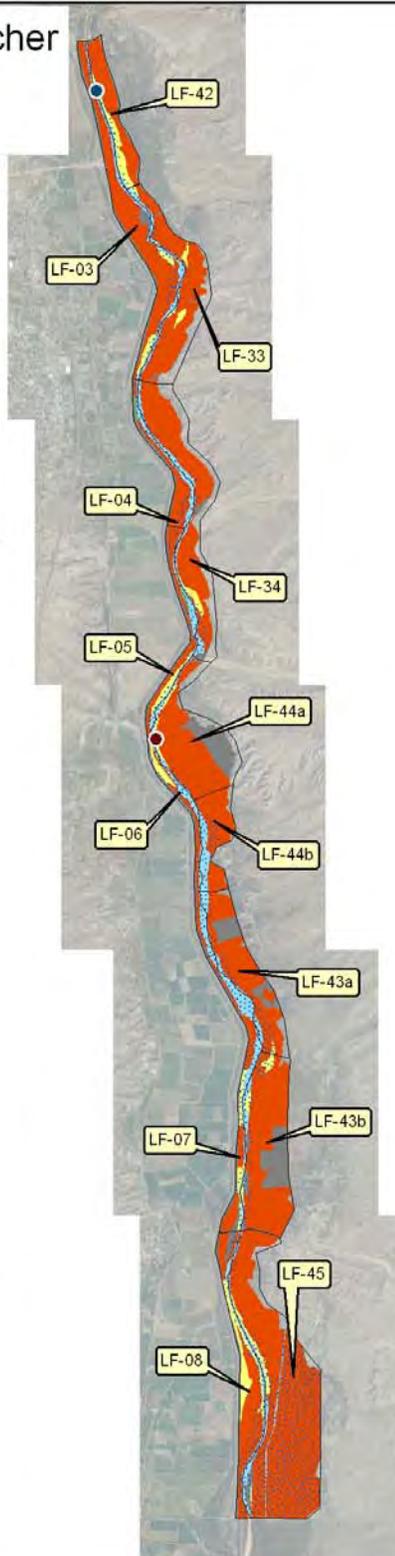
Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/NMO-B1d	26	1%
Native Canopy/Mixed Understory	C/NMO-CW-SC1, C/RO-B-A3d, C/SC-B3d, C/SC-B3, C/SC-NMO1d, C/RO-SC-NMO3, C/SC-NMO1d, C/SC-B1, C/SC-B-RO3d, C/SC-RO-B3d, C/B-SC3, C/RO-SC-CW3, C/SC-B1d, C/B-CW-SC3d, C/SC-B-SBM3, C/SC-NMO3d, C/SC-HMS3d, C/SC-SBM3	460	10%
Native Canopy/Exotic Understory	C/SC-RO1d, C/SC1d, C/SC1, C/SC3d, C-TW/SC1d, C/RO1, C/SC3	297	6%
Mixed Canopy/Native Understory	C-RO/CW-C-B3d, C-RO/CW-B3d, CW-C-RO-SC/CW-C-RO-SC3d	111	2%
Mixed Canopy/Mixed Understory	C-RO/SC-C-B3, C-RO/SC-CW-RO3d, SC-CW-B3d, C-RO/RO-CW3d, C-RO/SC-B-TW3d, RO-C/RO-C3d, RO-C/SC-CWd, C-RO/SBM-SC-B3, RO-C/B-SC-RO3d	169	4%
Mixed Canopy/Exotic Understory	C-SC/SC3d, C-RO/SC3d, SC-C/SC3d, C-SC/SC3, SC-TW/SC3d	84	2%
Exotic Canopy/Native Understory	RO/CW-B3	9	0%
Exotic Canopy/Mixed Understory	RO/SC-CW3d, RO-SC/CW-SC3d, RO/CW-SC3d, SC-RO/B-SC3	49	1%
Exotic Canopy/Exotic Understory	SC/SC3, SC-RO/SC3d, SC/SC3d, SC-RO/SC3	438	9%
Native Canopy	C2d, C4, C2	128	3%
Mixed Canopy	C-SC4	48	1%
Exotic Canopy	SC4	355	8%
Native Understory	B-CW5, C-CW5d, CW-C6, C-CW-B5d, CW-B-C5d, CW-C-B5d, B-CW-C5d, SBM5, B-CW5d, CW6d, CW-B-C6, B-C-CW5d, CW5d	157	3%
Mixed Understory	C-CW-RO5d, C-RO-CW5d, CW-SC6, SC-ATX5, SC-B5, SC-C-CW5, SC-C-CW5d, SC-C-CW6, SC-CW5d, CW-SC-C6, B-C-SC5, C-RO5d, C-RO-SC-B5, C-SC-RO5d, SC-B-CW5d, SC-C-B5SC-CW-B5, SC-RO-CW5d, B-C-RO6, B-CW-SC5d, B-SC5d, C-RO5, C-RO-TW5d, CW-C-RO6, SC-B-TW5d, SC-TW5d, B-SC5d, B-SC5, RO-SC-B5d, SC-C-B5d, B-CW-SC5d, CW-SC5d, SC-B5d, B-CW-RO-C5, CW-B-RO-C5d, CW-RO5d, RO-SC-SBM5d, RO-C5, SBM-SC5d	711	15%
Exotic Understory	SC5, SC5d, SC6, RO-SC5d, SC-RO5	1587	34%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	1	0	1
2009	0	0	0

Southwestern Willow Flycatcher Habitat Suitability Escondida Reach



Legend

- Willow Flycatcher Territories 2006
- No Willow Flycatcher Territories 2007
- Willow Flycatcher Territories 2008
- No Willow Flycatcher Territories 2009
- Escondida Reach Survey Sites
- ▨ Area within 50m of Water and/or 2008 Flooded Areas

Habitat Suitability

- Suitable Habitat
- Moderately Suitable Habitat
- Unsuitable Habitat
- Non-Habitat
- Open Water/Marsh

0 625 1,250 2,500 3,750 5,000 Meters

Survey Site: LF-03

Habitat Acreage

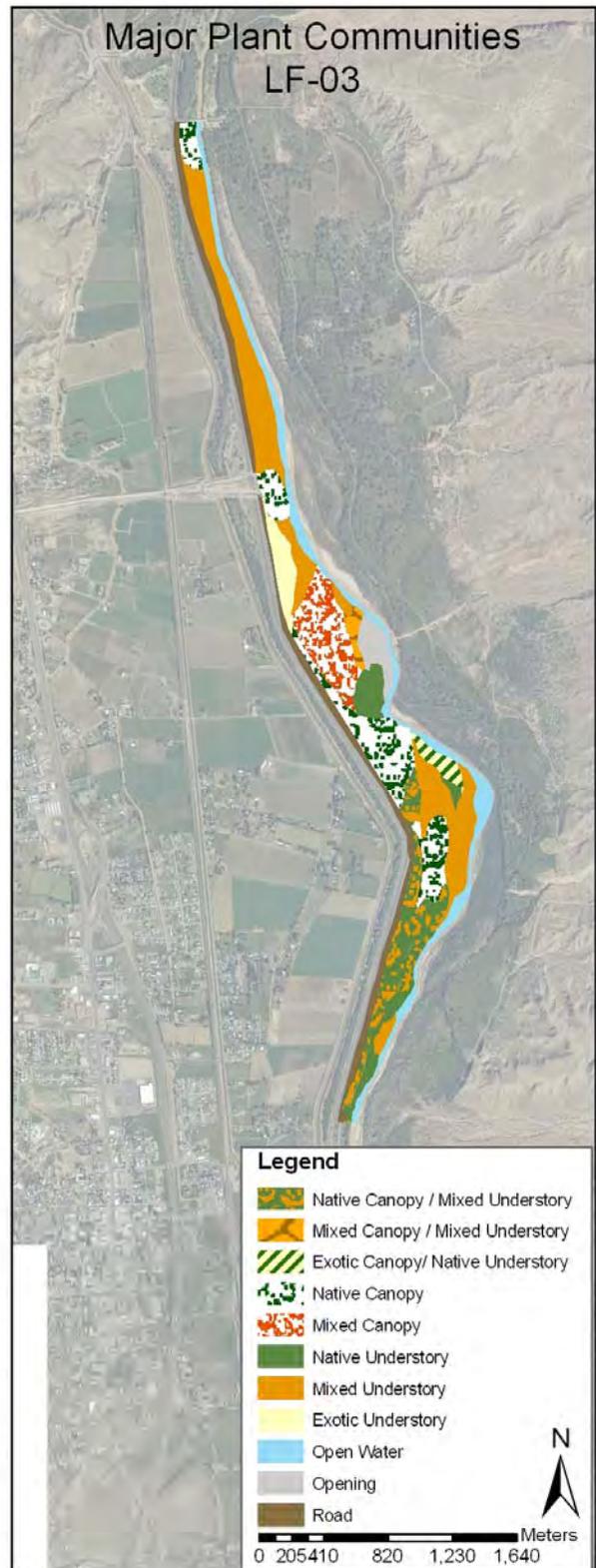
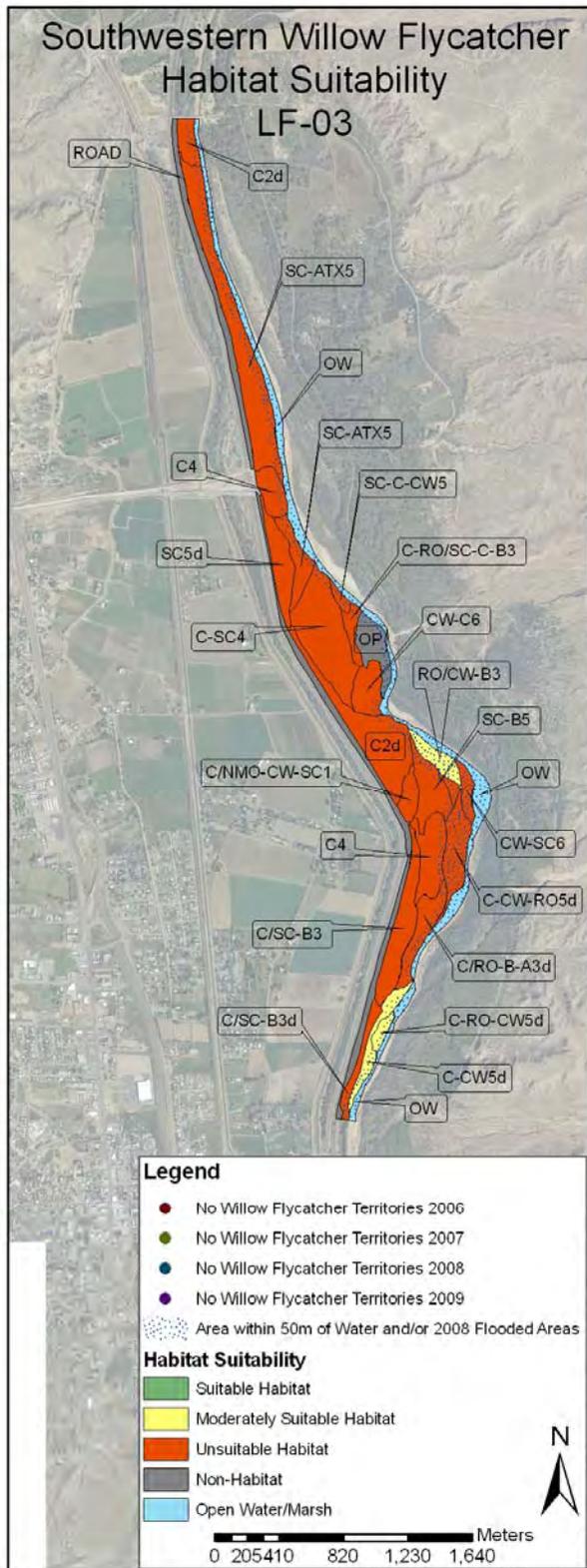
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	24	6%	19	5%
Unsuitable	352	94%	98	26%
Total Area	376	100%	117	31%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/NMO-CW-SC1, C/RO-B-A3d, C/SC-B3d	60	16%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	RO/CW-B3	9	2%
Exotic Canopy/Mixed Understory	C-RO/SC-C-B3	6	2%
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2d, C4	82	22%
Mixed Canopy	C-SC4	48	13%
Exotic Canopy	-	-	-
Native Understory	B-CW5, C-CW5d, CW-C6	27	7%
Mixed Understory	C-CW-RO5d, C-RO-CW5d, CW-SC6, SC-ATX5, SC-B5, SC-C-CW5	126	34%
Exotic Understory	SC5d	18	5%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-04

Habitat Acreage

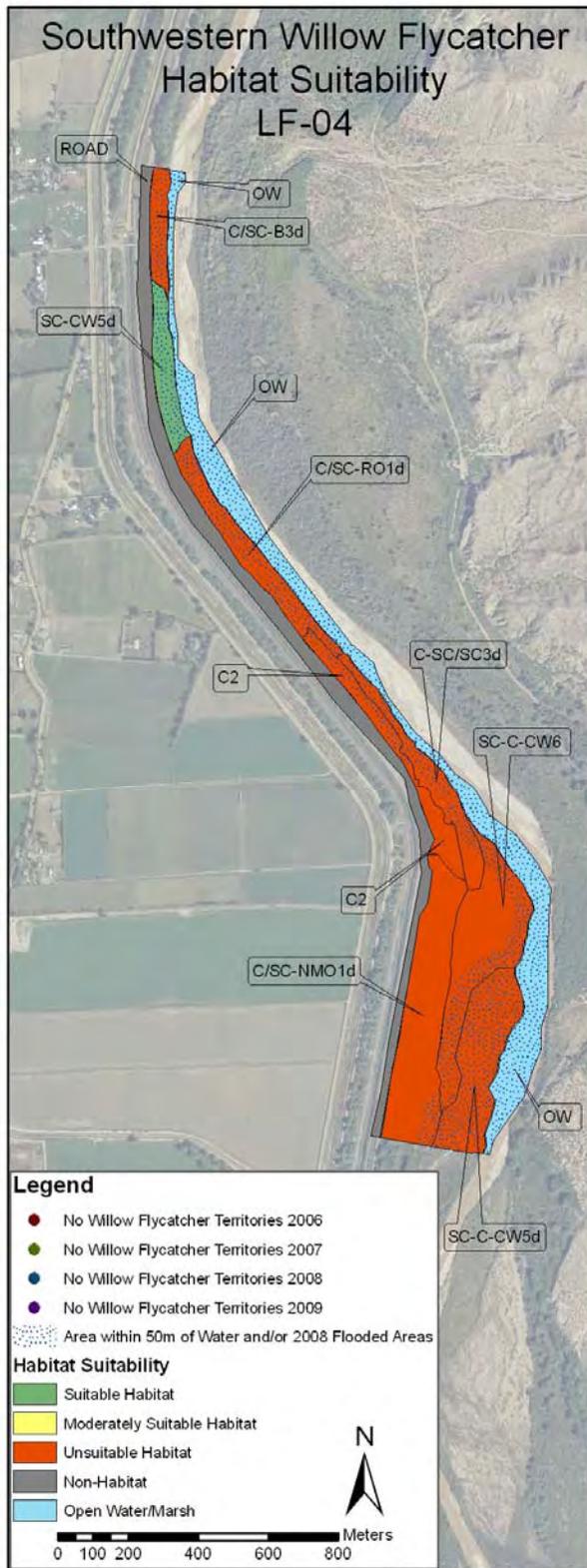
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	6	6%	5	5%
Moderately Suitable	0	0%	0	0%
Unsuitable	90	94%	51	53%
Total Area	96	100%	56	58%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B3d, C/SC-NMO1d	28	29%
Native Canopy/Exotic Understory	C-SC-RO1d	10	10%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-SC/SC3d	8	8%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2	8	8%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-C-CW5d, SC-C-CW6, SC-CW5d	42	44%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-05

Habitat Acreage

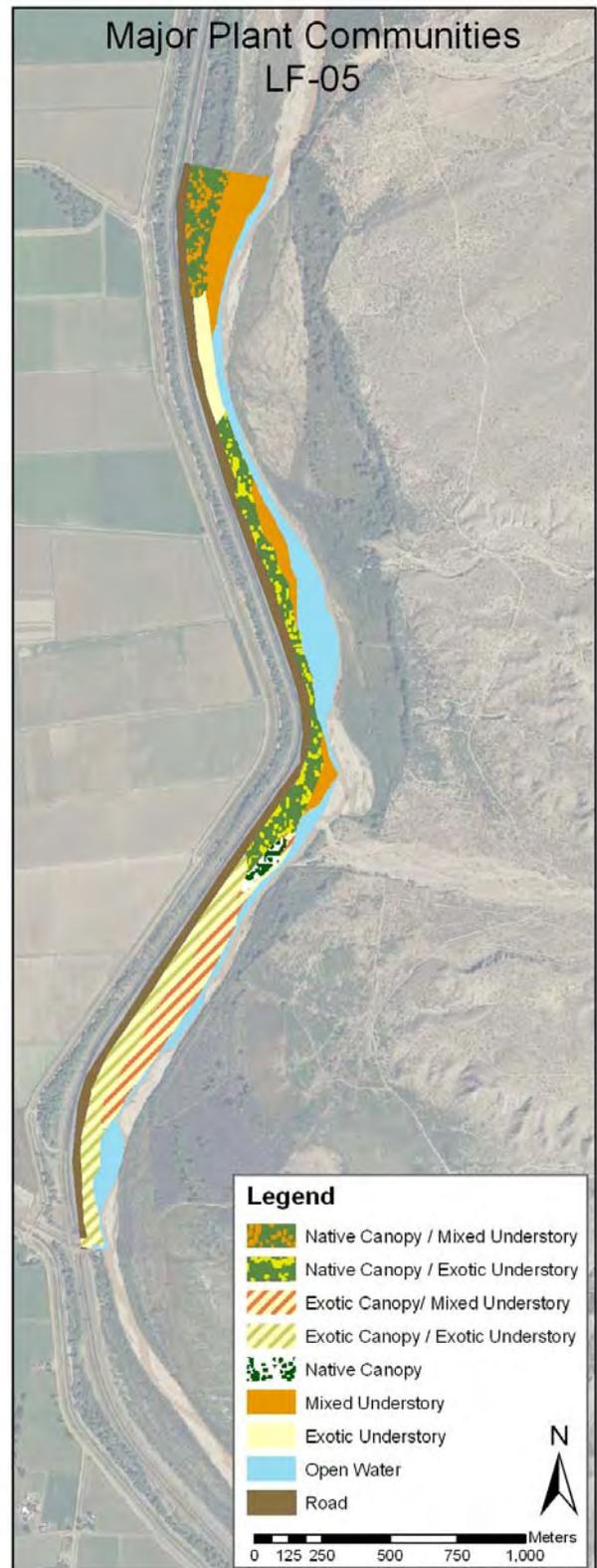
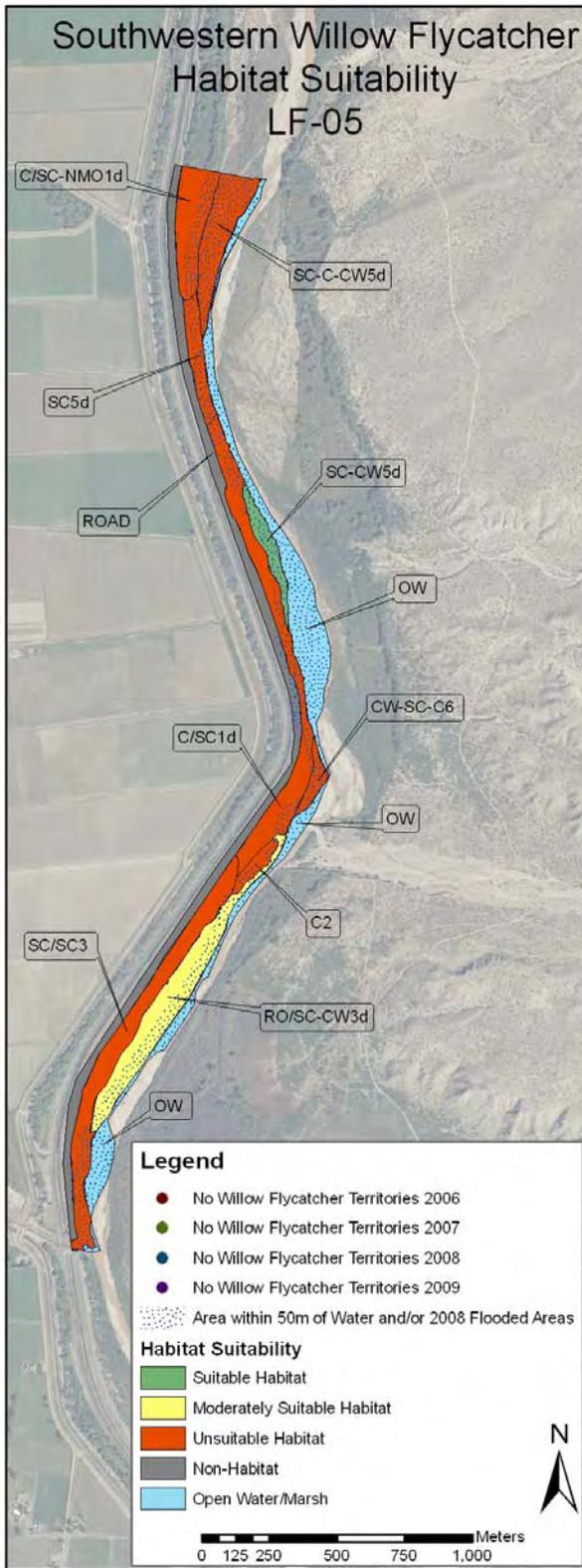
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	5	5%	5	5%
Moderately Suitable	20	18%	13	12%
Unsuitable	84	77%	46	42%
Total Area	109	100%	64	59%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-NMO1d	12	11%
Native Canopy/Exotic Understory	C/SC1d	24	22%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	RO/SC-CW3d	20	18%
Exotic Canopy/Exotic Understory	SC-SC3	24	22%
Native Canopy	C2	3	3%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	CW-SC-C6, SC-C-CW5d, SC-CW5d	20	18%
Exotic Understory	SC5d	6	6%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-06

Habitat Acreage

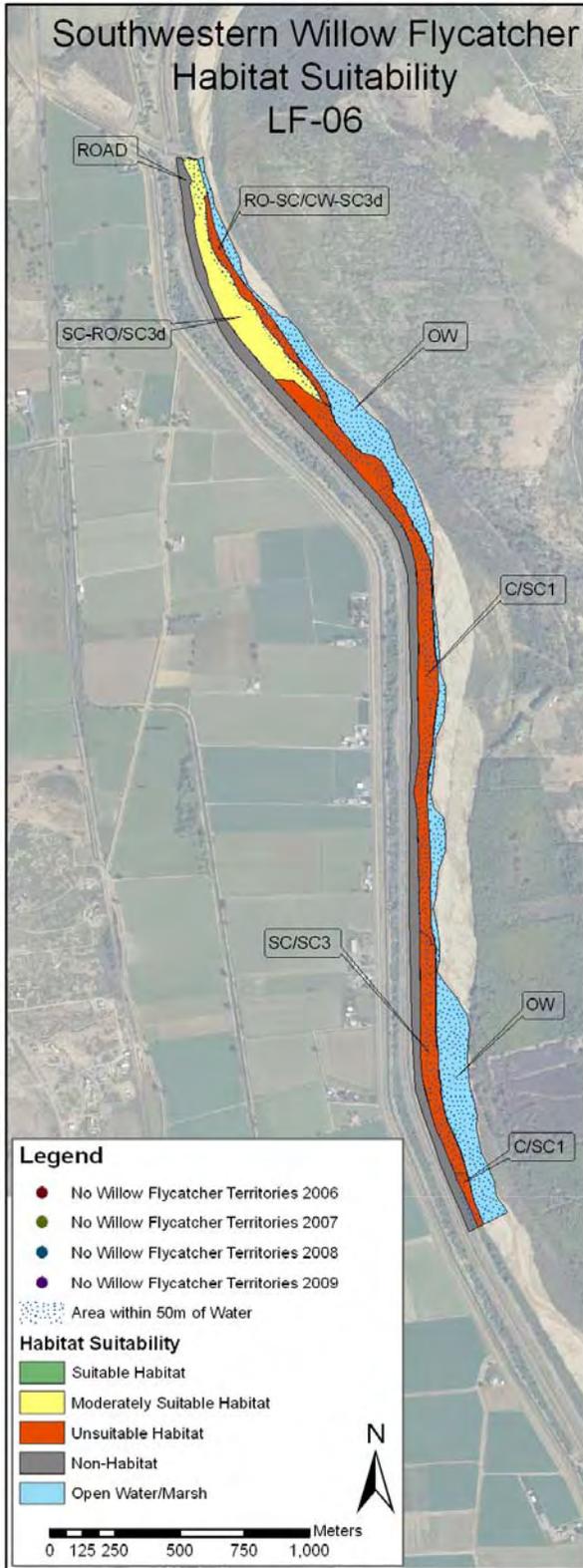
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	20	27%	7	9%
Unsuitable	55	73%	46	61%
Total Area	75	100%	53	70%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	35	47%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	RO-SC/CW-SC3d	7	9%
Exotic Canopy/Exotic Understory	SC/SC3, SC-RO/SC3d	33	44%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-07

Habitat Acreage

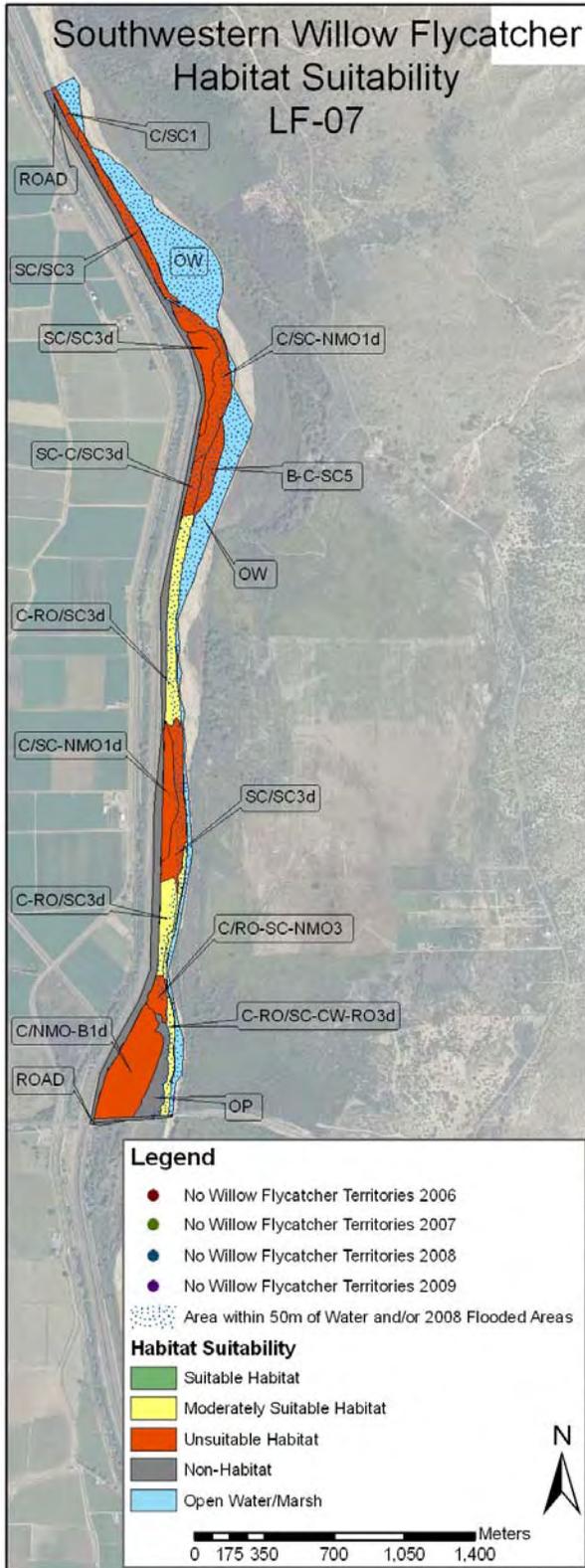
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	29	23%	24	19%
Unsuitable	96	77%	45	36%
Total Area	125	100%	69	55%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/NMO-B1d	26	21%
Native Canopy/Mixed Understory	C/RO-SC-NMO3, C/SC-NMO1d	28	22%
Native Canopy/Exotic Understory	C/SC1	2	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/SC-CW-RO3d	4	3%
Mixed Canopy/Exotic Understory	C-RO/SC3d, SC-C/SC3d	25	20%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	RO/CW-SC3d	3	2%
Exotic Canopy/Exotic Understory	SC/SC3, SC/SC3d	30	24%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	B-C-SC5	7	6%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-08

Habitat Acreage

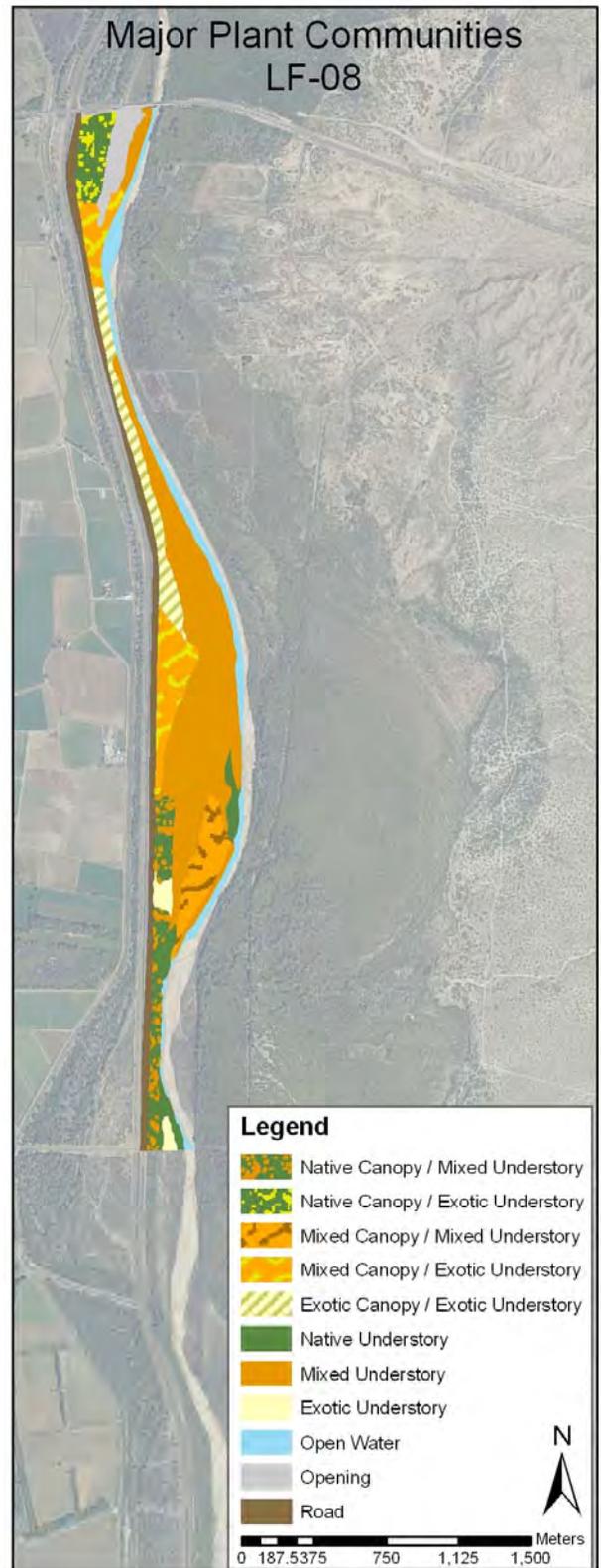
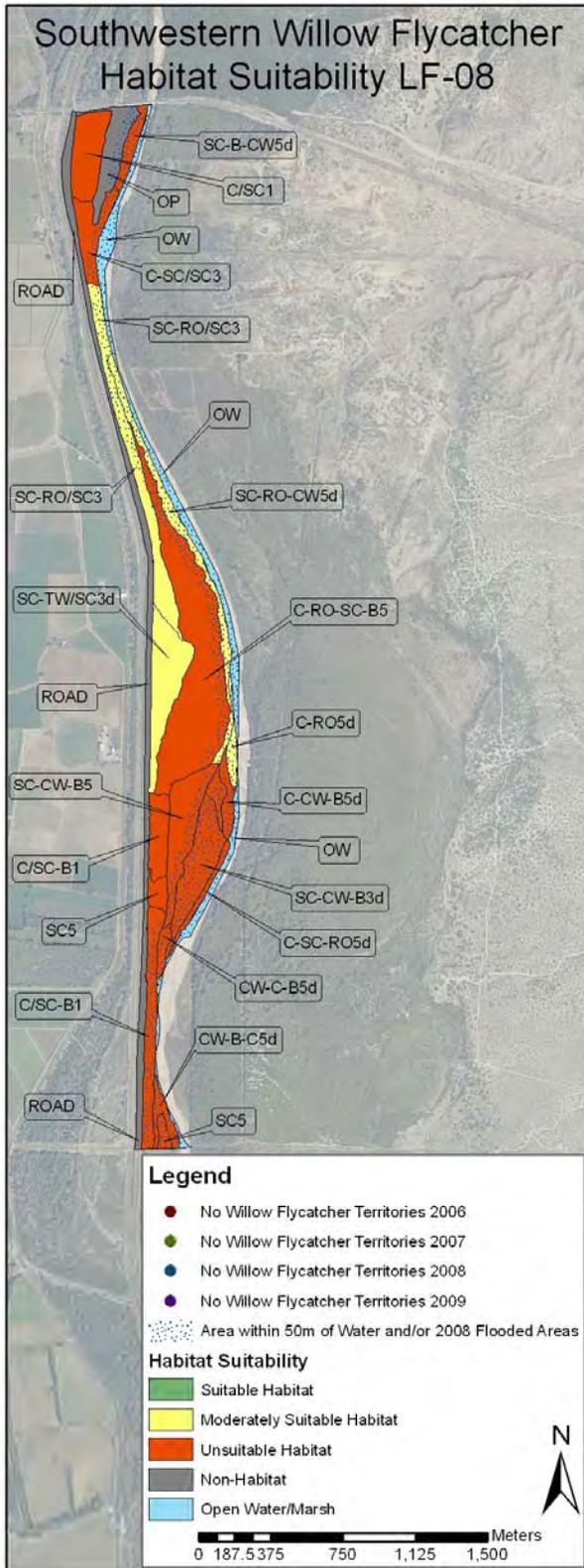
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	73	26%	33	11%
Unsuitable	213	74%	105	37%
Total Area	286	100%	138	48%

Dominant Plant Communities

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B1	30	10%
Native Canopy/Exotic Understory	C/SC1	17	6%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-CW-B3d	21	7%
Mixed Canopy/Exotic Understory	C-SC/SC3, SC-TW/SC3d	38	13%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC-RO/SC3	26	9%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW-B5d, CW-B-C5d, CW-C-B5d	13	5%
Mixed Understory	C-RO5d, C-RO-SC-B5, C-SC-RO5d, SC-B-CW5d, SC-C-B5, SC-CW-B5, SC-RO-CW5d	135	47%
Exotic Understory	SC5	6	2%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-33

Habitat Acreage

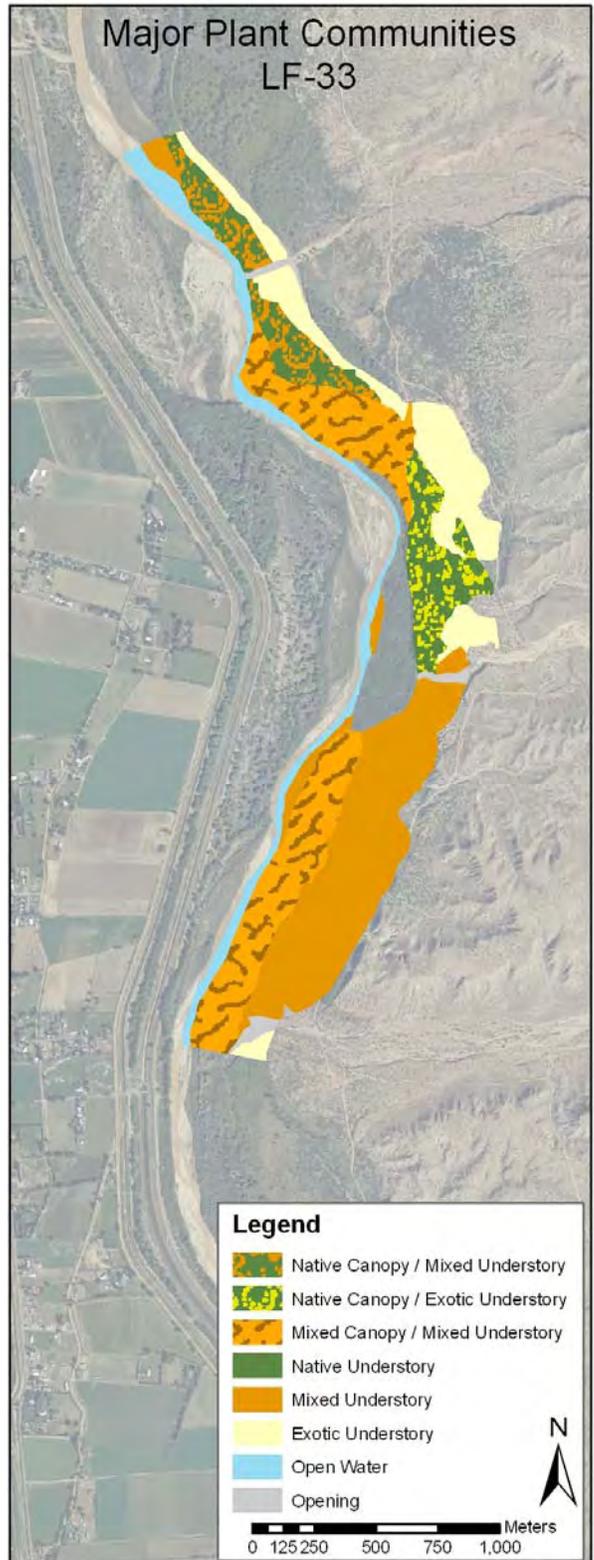
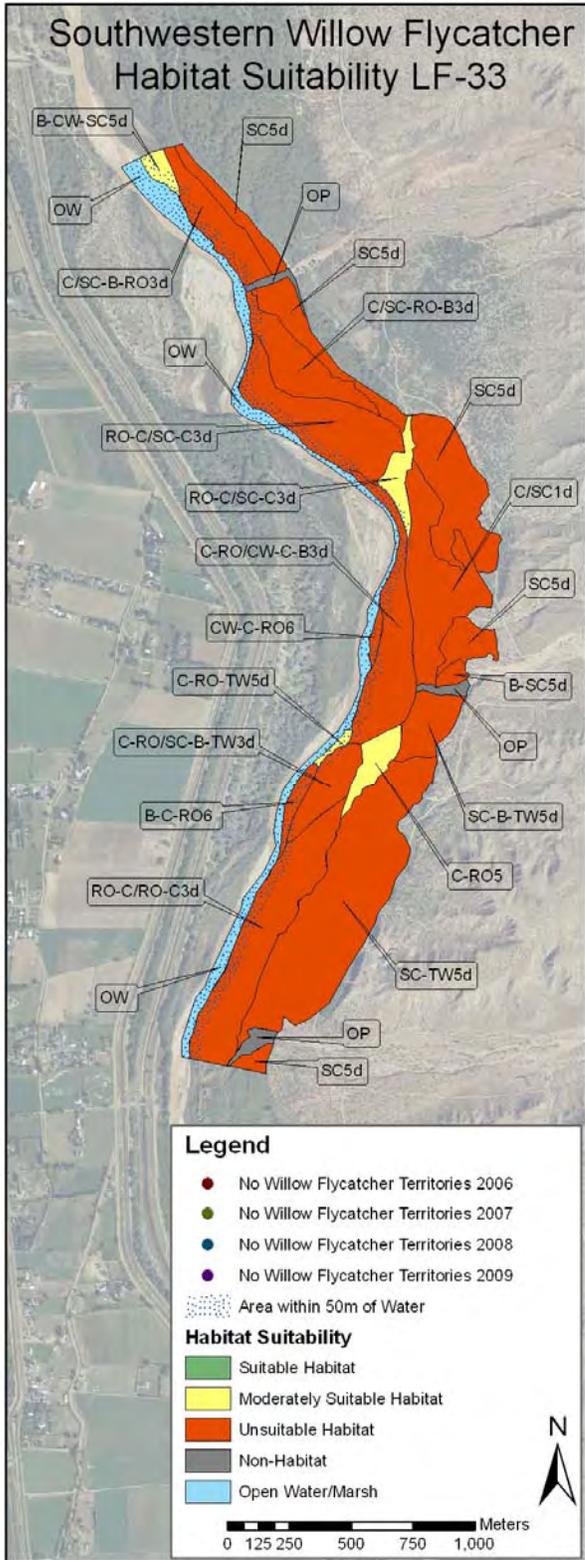
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	19	5%	4	1%
Unsuitable	359	95%	49	13%
Total Area	378	100%	53	14%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B-RO3d, C/SC-RO-B3d	37	10%
Native Canopy/Exotic Understory	C/SC1d	36	10%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/RO-CW3d, C-RO/SC-B-TW3d, RO-C/RO-C3d, RO-C/SC-C3d, C-RO/CW-C-B3d	129	34%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	B-C-RO6, B-CW-SC5d, B-SC5d, C-RO5, C-RO-TW5d, CW-C-RO6, SC-B-TW5d, SC-TW5d	114	30%
Exotic Understory	SC5d	62	16%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-34

Habitat Acreage

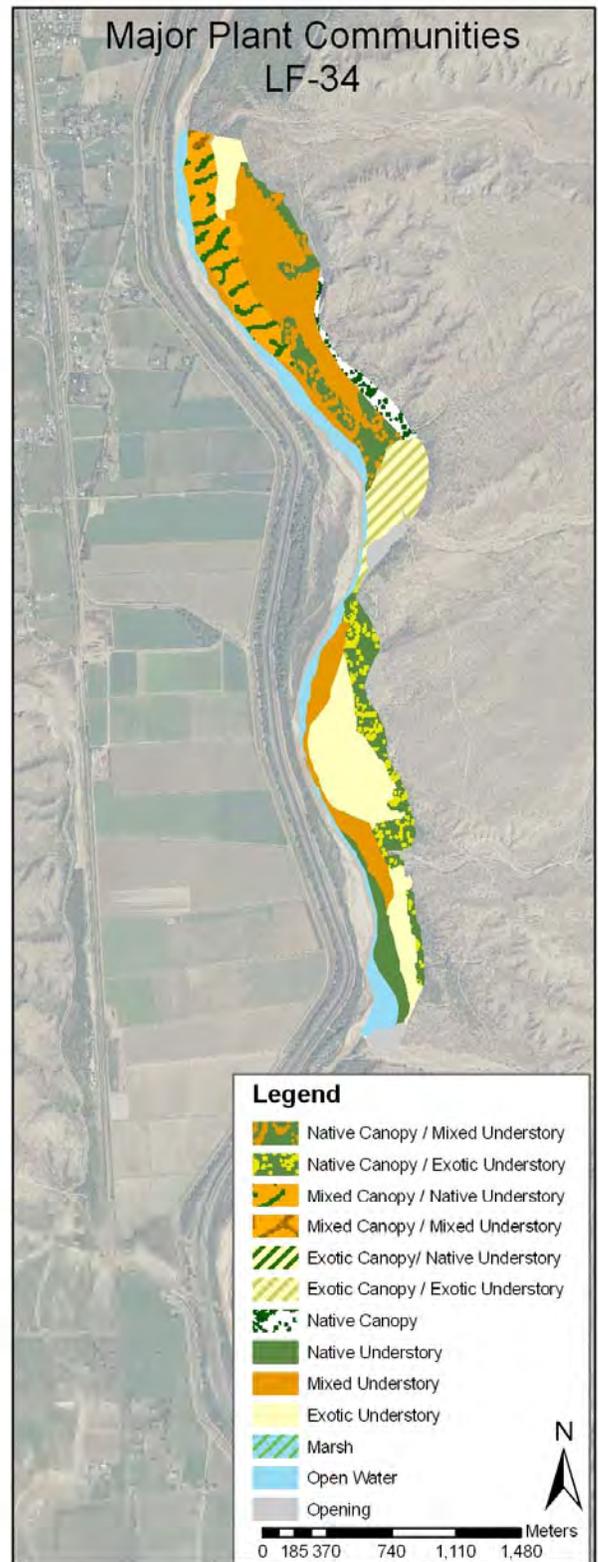
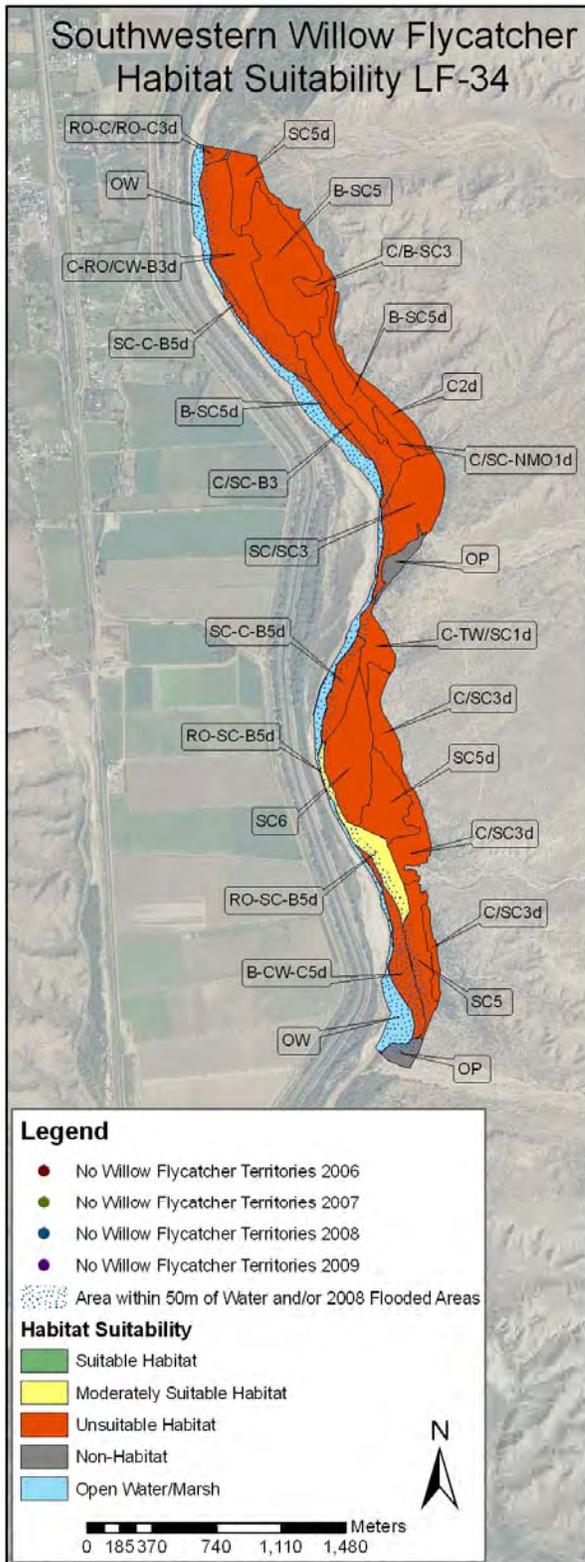
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	18	4%	11	3%
Unsuitable	420	96%	76	17%
Total Area	438	100%	87	20%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/B-SC3, C/SC-B3, C/SC-NMO1d	48	11%
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC1d	51	12%
Mixed Canopy/Native Understory	C-RO/CW-B3d	55	13%
Mixed Canopy/Mixed Understory	RO-C/RO-C3d	3	1%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	37	8%
Native Canopy	C2d	15	3%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-CW-C5d	19	4%
Mixed Understory	B-SC5, B-SC5d, RO-SC-B5d, SC-C-B5d	114	26%
Exotic Understory	SC5, SC5d, SC6	96	22%
Marsh	-	-	-
Open Water	OW	59	13%
Opening	OP	13	3%
Road	-	-	-
Railroad	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-42

Habitat Acreage

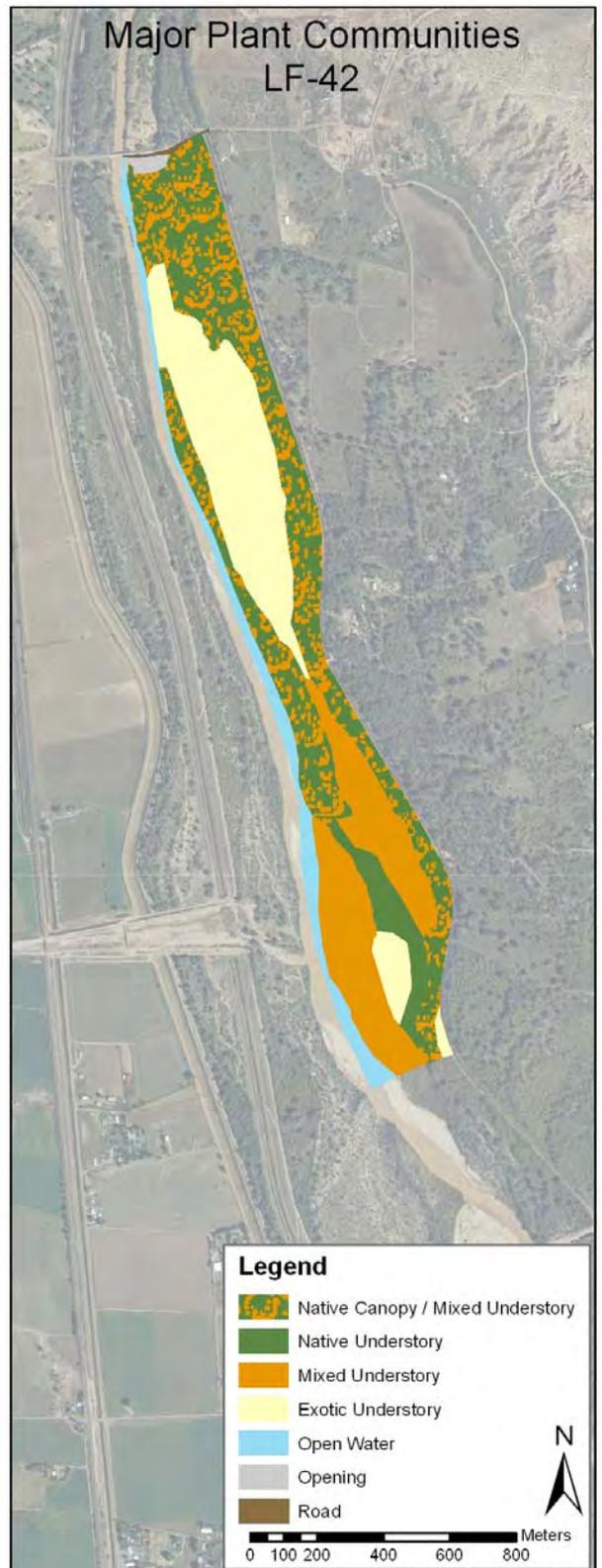
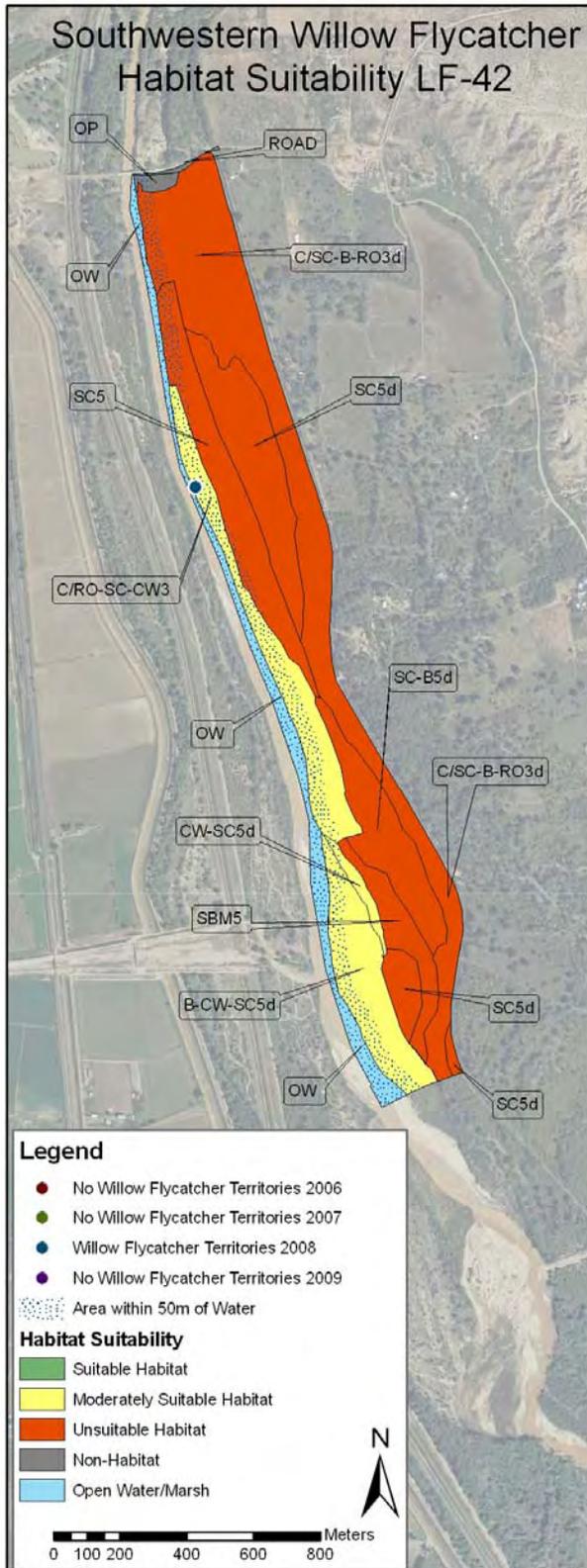
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	48	23%	26	12%
Unsuitable	158	77%	10	5%
Total Area	206	100%	36	17%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/RO-SC-CW3, C/SC-B-RO3d	95	46%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	SBM5	10	5%
Mixed Understory	B-CW-SC5d, CW-SC5d, SC-B5d	44	22%
Exotic Understory	SC5, SC5d	56	27%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	1	0	1
2009	0	0	0



Survey Site: LF-43A

Habitat Acreage

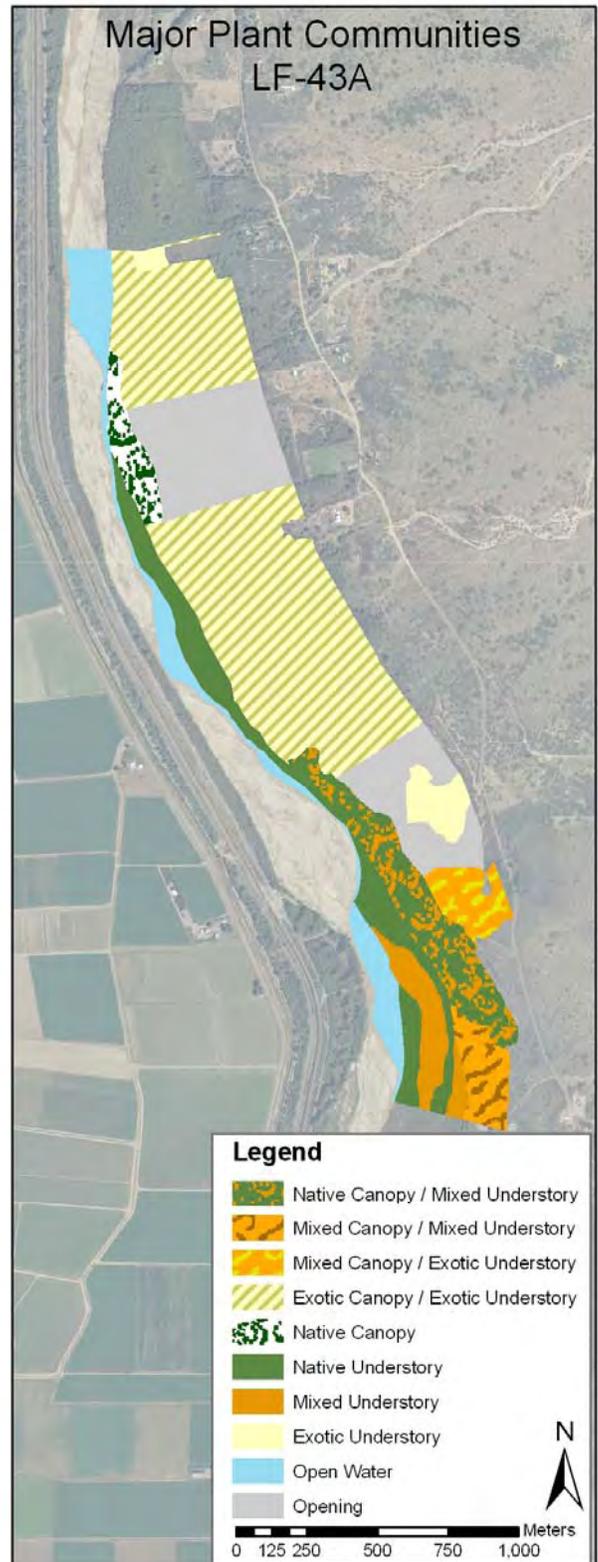
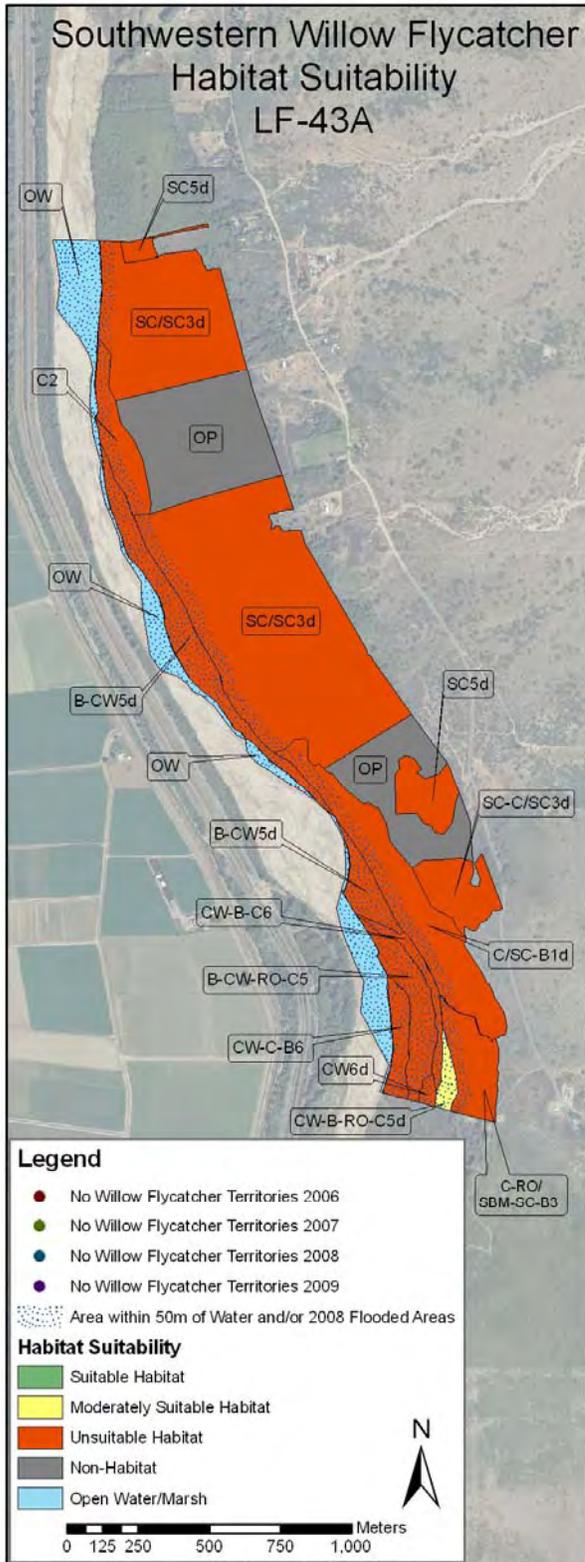
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	3	1%	3	1%
Unsuitable	318	99%	96	30%
Total Area	321	100%	99	31%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B1d	38	12%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/SBM-SC-B3	14	4%
Mixed Canopy/Exotic Understory	SC-C/SC3d	13	4%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	175	55%
Native Canopy	C2	12	4%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-CW5d, CW6d, CW-B-C6, CW-C-B6	41	13%
Mixed Understory	B-CW-RO-C5, CW-B-RO-C5d	16	5%
Exotic Understory	SC5d	12	4%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-43B

Habitat Acreage

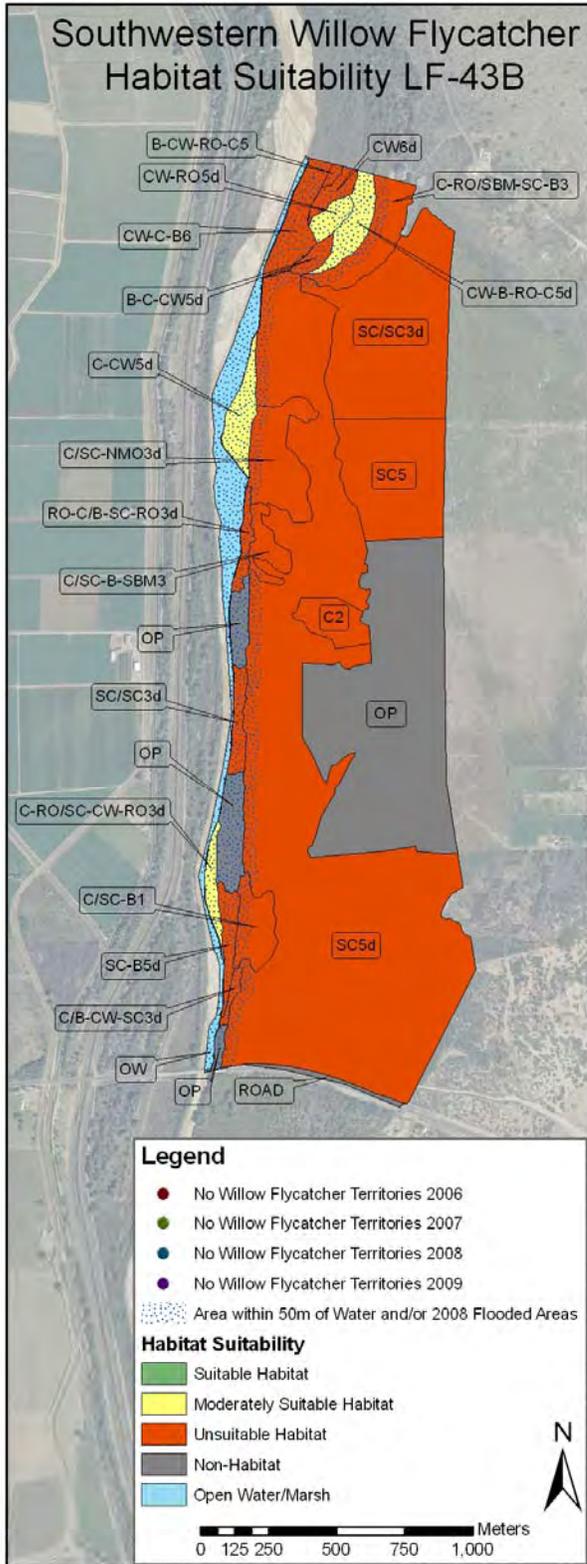
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	23	5%	23	4%
Unsuitable	487	95%	75	15%
Total Area	510	100%	98	19%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/B-CW-SC3d, C/SC-B1, C/SC-B-SBM3, C/SC-NMO3d	36	7%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/SBM-SC-B3, C-RO/SC-CW-RO3d, RO-C/B-SC-RO3d	21	4%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	73	14%
Native Canopy	C2	9	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-C-CW5d, C-CW5d, CW6d, CW-C-B6	25	5%
Mixed Understory	B-CW-RO-C5, CW-B-RO-C5d, CW-RO5d, SC-B5d	17	3%
Exotic Understory	SC5, SC5d	329	65%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-44A

Habitat Acreage

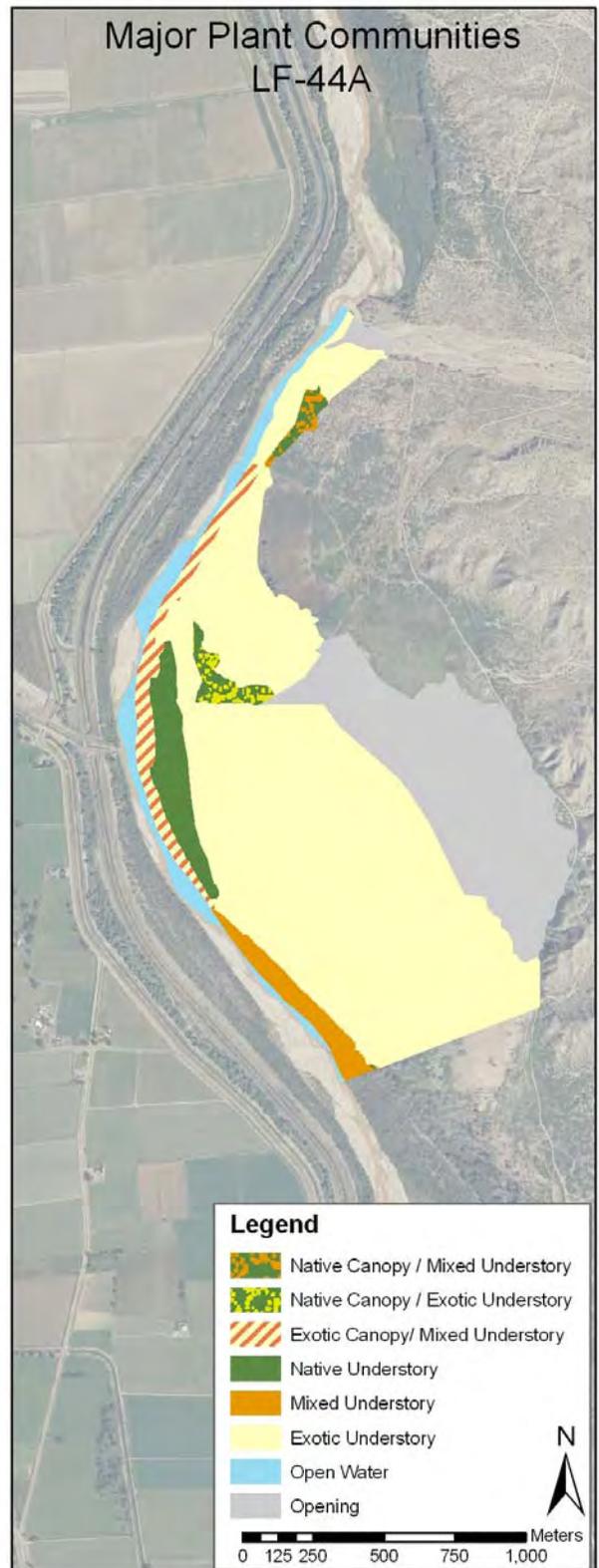
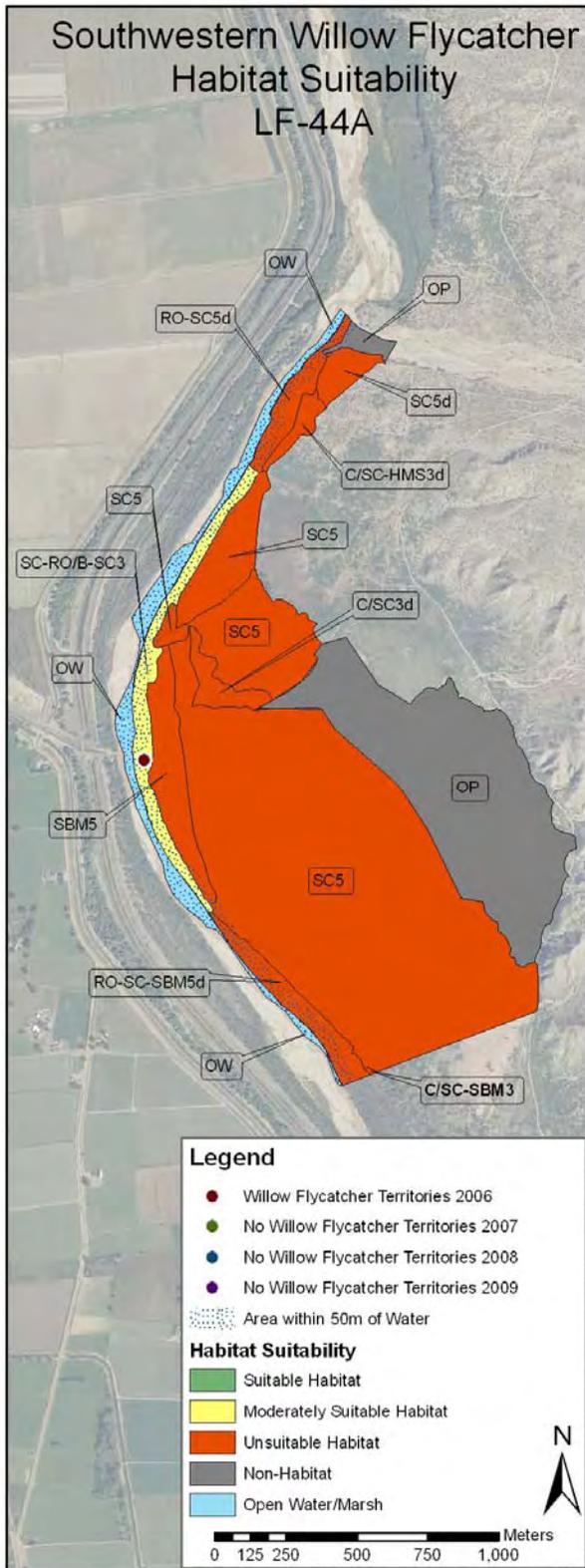
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	19	5%	18	5%
Unsuitable	345	95%	21	6%
Total Area	364	100%	39	11%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-HMS3d	4	1%
Native Canopy/Exotic Understory	C/SC3d	7	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC-RO/B-SC3	19	5%
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	SBM5	20	5%
Mixed Understory	RO-SC-SBM5d	13	4%
Exotic Understory	RO-SC5d, SC5, SC5d	301	83%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-44B

Habitat Acreage

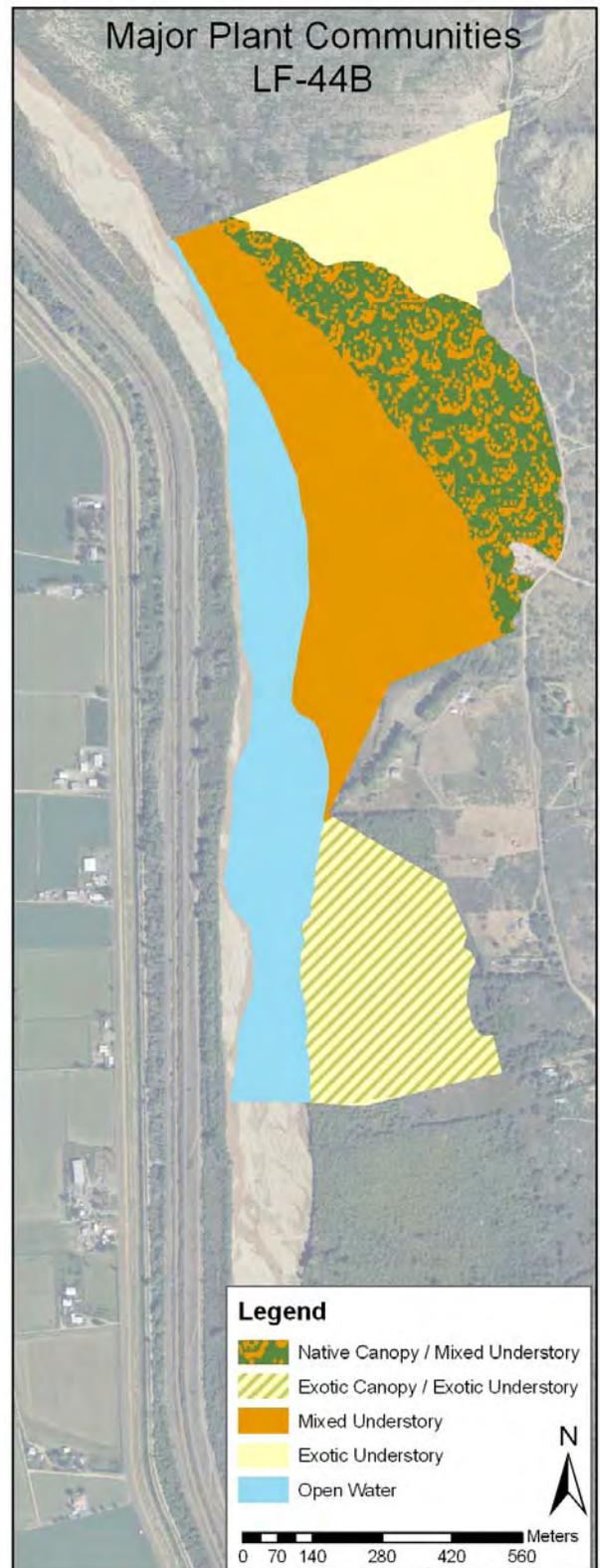
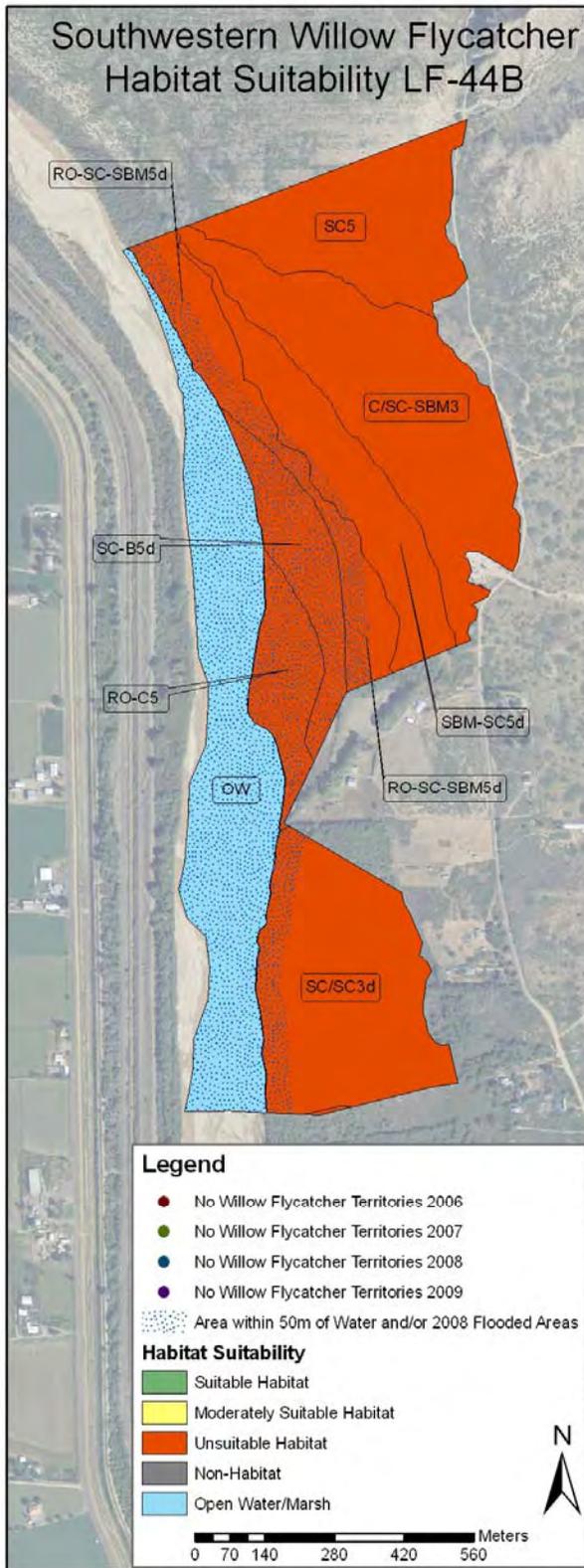
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	177	100%	44	25%
Total Area	177	100%	44	25%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-SBM3	46	26%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	40	23%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	RO-C5, RO-SC-SBM5d, SBM-SC5d, SC-B5d	64	36%
Exotic Understory	SC5	27	15%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-45

Habitat Acreage

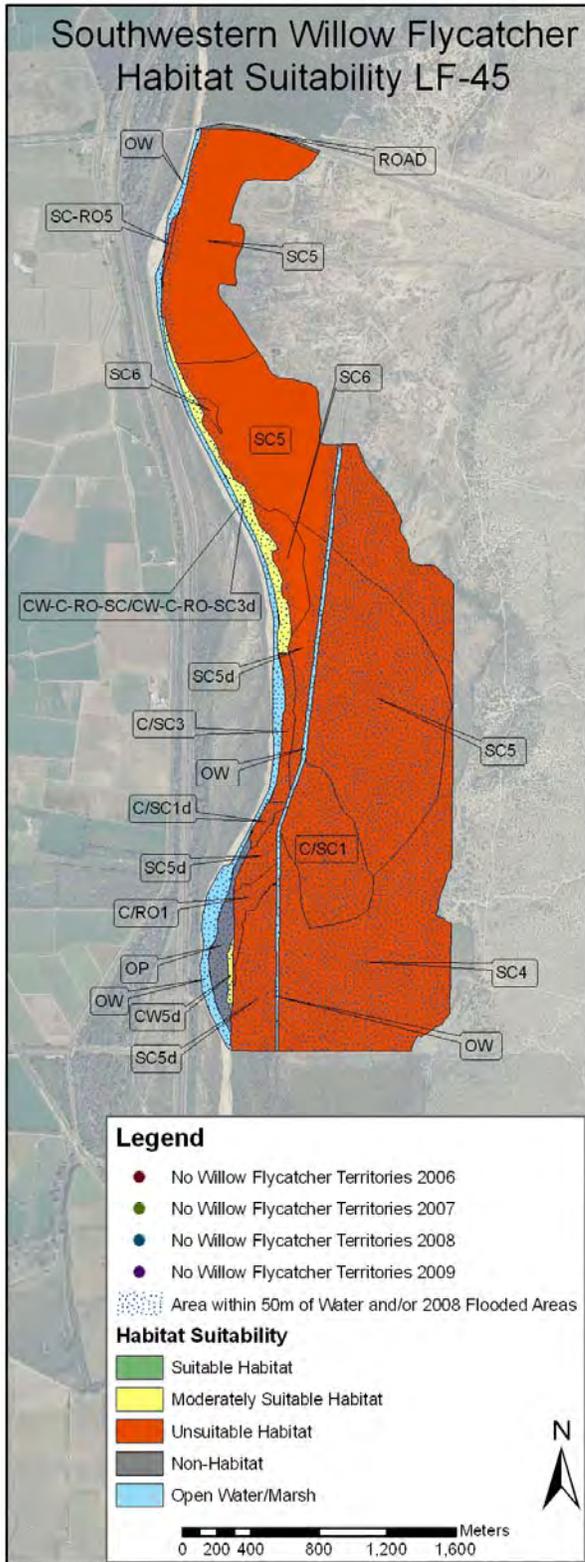
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	28	2%	28	2%
Unsuitable	1142	98%	859	74%
Total Area	1170	100%	887	76%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/RO1, C/SC1, C/SC1d, C/SC3	114	10%
Mixed Canopy/Native Understory	CW-C-RO-SC/CW-C-RO-SC3d	26	2%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	355	30%
Native Understory	CW5d	3	0%
Mixed Understory	-	-	-
Exotic Understory	SC5, SC5d, SC6, SC-RO5	672	57%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Bosque del Apache Reach

Habitat Acreage

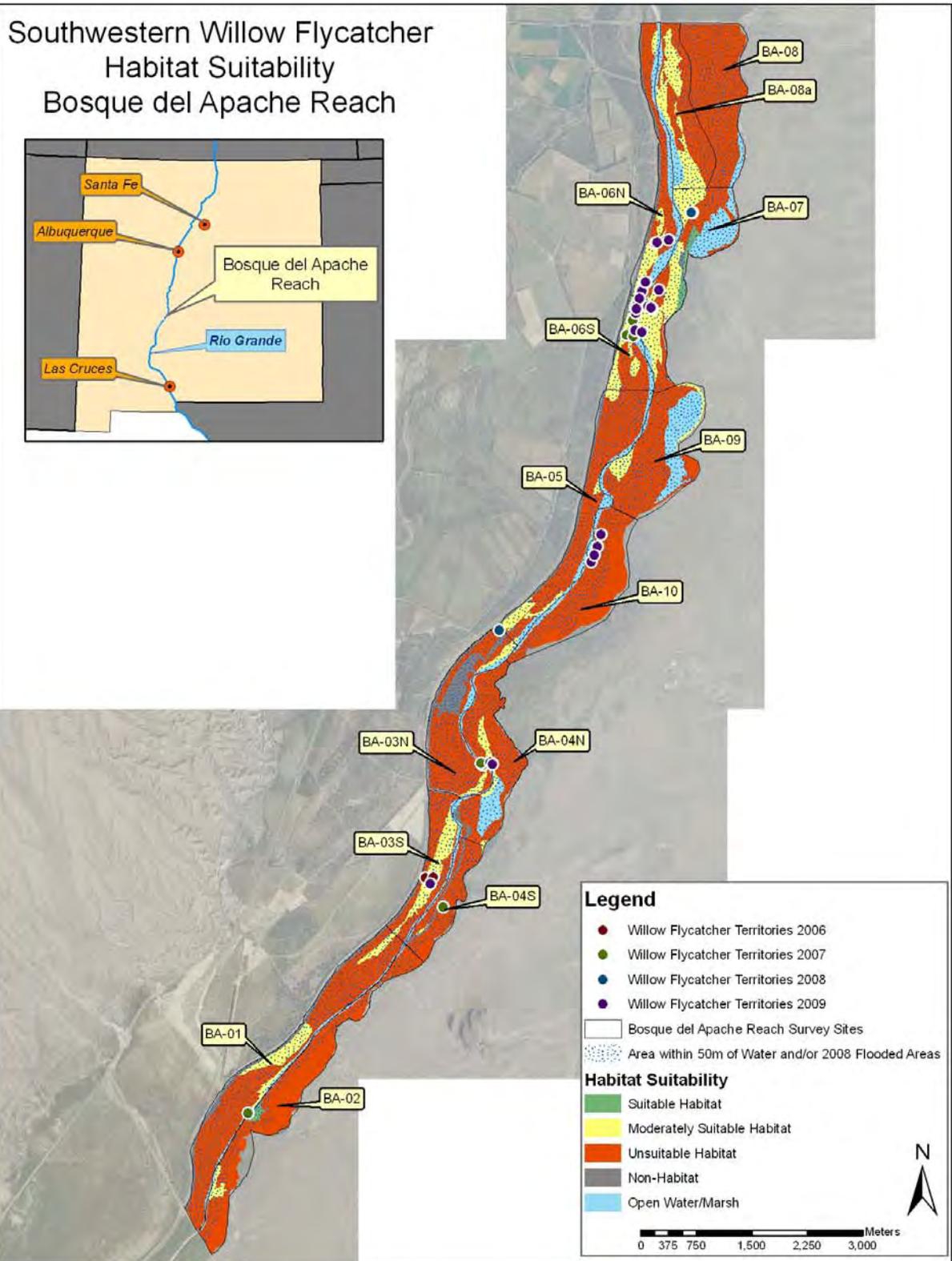
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	26	1%	26	1%
Moderately Suitable	513	16%	513	16%
Unsuitable	2708	83%	2446	75%
Total Area	3247	100%	2985	92%

Dominant Plant Communities within Reach

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/CW-SC3d, C/SC-B3d, C-TW/SC-CW3d, C/C-SC1d, C/SC-B3d, C/SC-CW3d, C/SC-CW3d, C/C-SC1, C/CW-RO-SC3, C/SC-C1d, C/SC-C1, C/C-CW-SC3, C/C-SC1, C-TW/SC-B3d, C/SC-B-A3d, C/SC-B-C3d, C/B-SC1d, C/SC-B-C3d	310	10%
Native Canopy/Exotic Understory	C/SC1d, C/SC-RO1d, C/SC3d, C/SC3, C/RO3d, C-TW/SC3d, C/CW-SC3d	460	14%
Mixed Canopy/Native Understory	C-SC/CW-B-C3d, C-CW-SC/C-CW-SC-B3d, C-RO/CW-B3d, C-RO-CW-SC/C-RO-CW-SC3d, C-CW-RO-SC/C-RO-CW-SC3d	80	2%
Mixed Canopy/Mixed Understory	C-SC/SC-C3d, SC-C3d, C-RO-SC-CW/C-RO-CW-SC3d, C-RO/RO-B1d, C-RO/CW-SC3d, C-RO/SC-CW3, SC-C/SC-B3d, C-RO/RO-B1d, C-RO/RO/CW3d, RO-C/SC-B-C3d	111	3%
Mixed Canopy/Exotic Understory	C-SC/SC3d, SC-TW/SC3d, C-SBM-SC/SC-SBM3d, C-RO-TW/SC3d, C-RO/SC1d	172	5%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC/SC-CW3d, SC-RO/SC-B3, SC/SC-CW-C3	60	2%
Exotic Canopy/Exotic Understory	SC/SC3, SC/SC3d, RO/SC3d,	325	10%
Native Canopy	C4d, C-B-CW4d, C-CW4, C2d	44	1%
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d	32	1%
Native Understory	C-CW5, CW5d, CW-C6d, C-CW-B5, CW-C5, B-C5d, CW-B5, CW-B5d, C5, CW6, CW-B-C5d, C-CW5d, C-CW-B6, C-B5d, C-B-CW6	313	10%
Mixed Understory	CW-SC5d, SC-C-CW5d, B-SC-C5, B-SC6d, CW-SC-C5, B-CW-SC5d, B-SC5d, SC-B6, SC-C5, B-SC-CW5d, CW-SC-C5d, SC-B5d, SC-B-C-RO5d, B-C-RO5d, B-SC-RO5d, CW-B-SC5d, CW-B-SC5, CW-SC-B5d, SC-C5d, C-B-RO6, CW-C-RO5d, SC-B5d, C-SC5d, SC-CW-C-RO5	628	19%
Exotic Understory	SC5d, SC6d, SC6, SC-RO5d, SC5, SC-RO5	712	22%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	3	1	4
2007	1	6	7
2008	2	3	5
2009	4	16	20



Survey Site: BA-01

Habitat Acreage

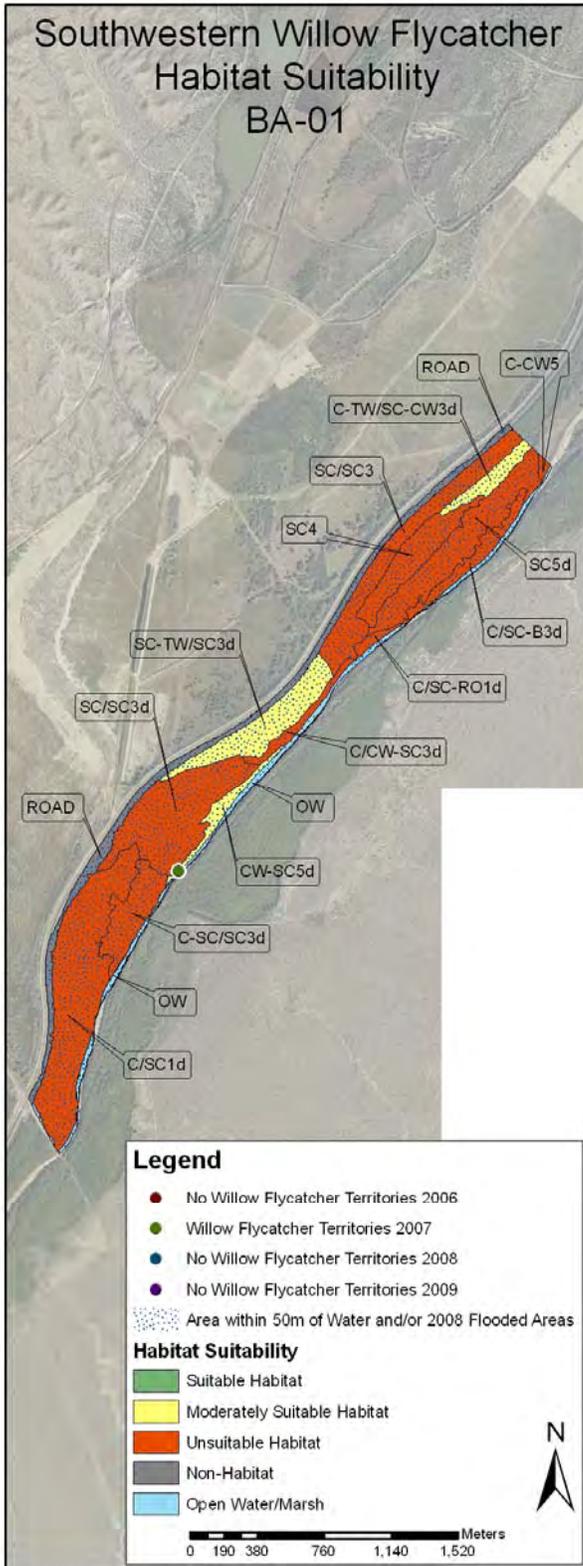
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	56	14%	56	14%
Unsuitable	337	86%	337	86%
Total Area	393	100%	393	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/CW-SC3d, C/SC-B3d, C-TW/SC-CW3d	34	9%
Native Canopy/Exotic Understory	C/SC1d, C/SC-RO1d	101	26%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-SC/SC3d, SC-TW/SC3d	61	16%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3, SC/SC3d	110	28%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	28	7%
Native Understory	C-CW5	1	0%
Mixed Understory	CW-SC5d	9	2%
Exotic Understory	SC5d	48	12%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	1
2008	0	0	0
2009	0	0	0



Survey Site: BA-02

Habitat Acreage

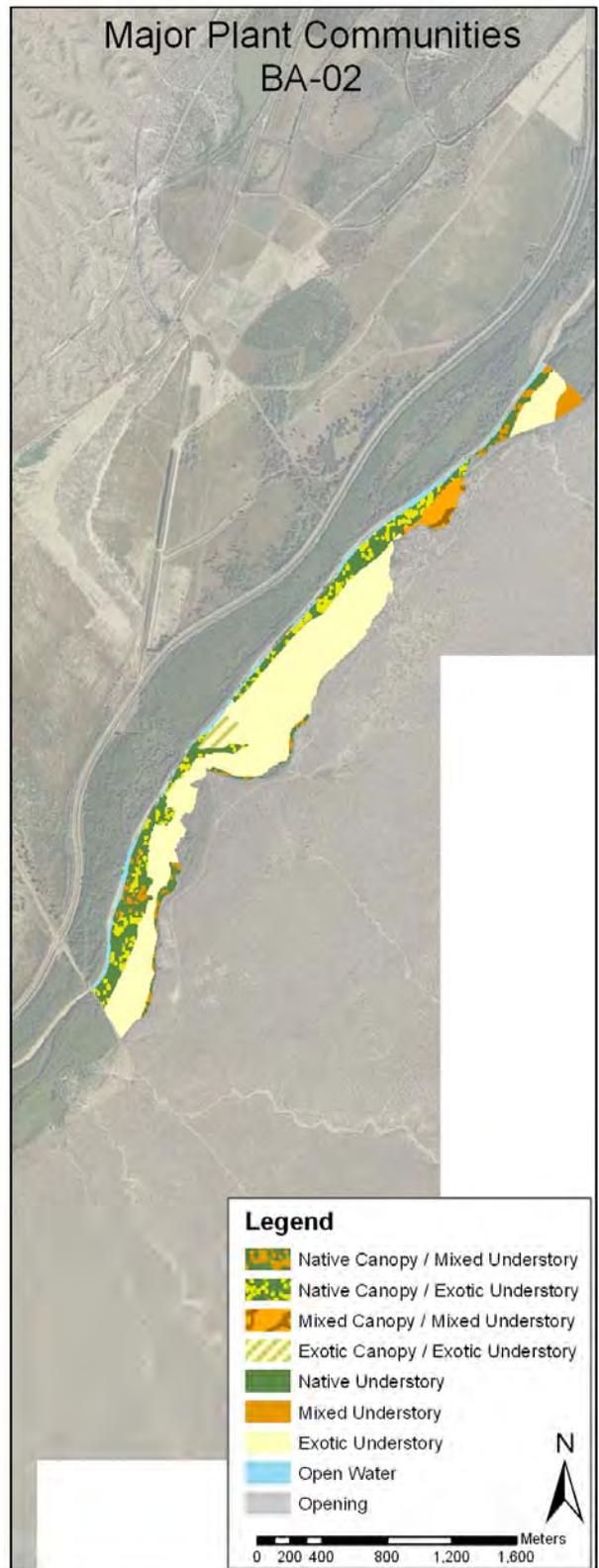
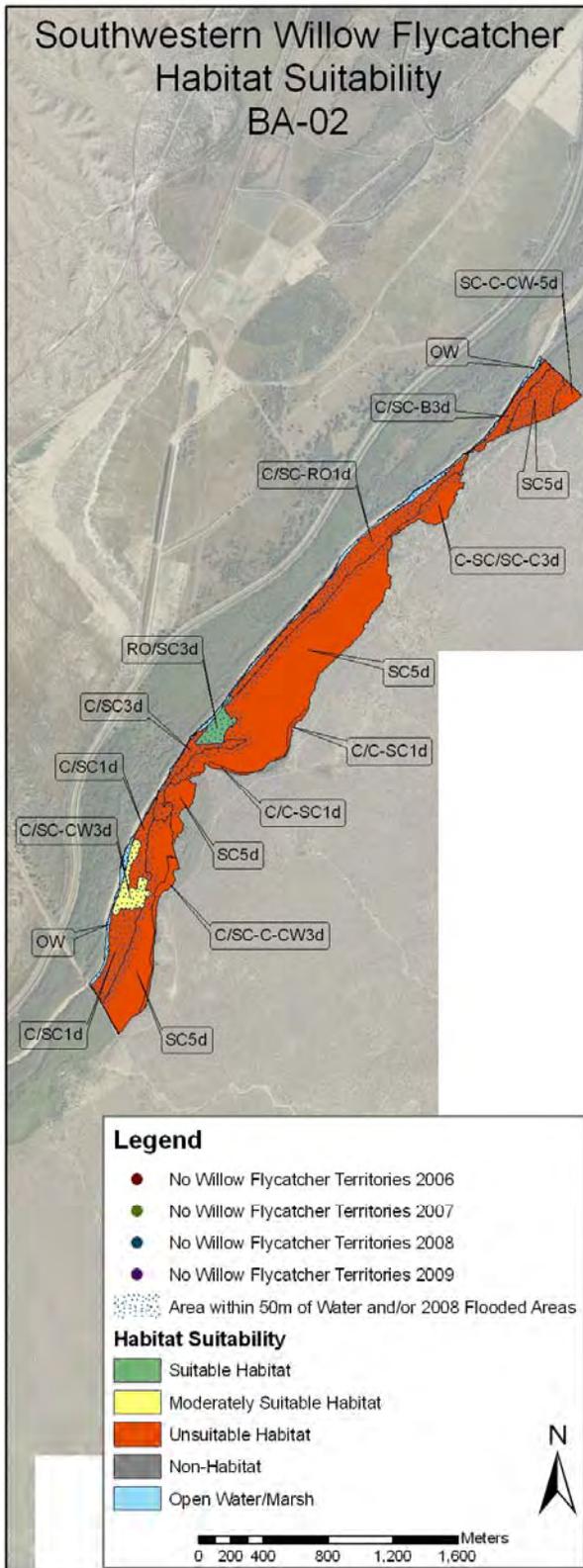
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	7	2%	7	2%
Moderately Suitable	10	3%	10	3%
Unsuitable	307	95%	154	48%
Total Area	324	100%	171	53%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/C-SC1d, C/SC-B3d, C/SC-C-CW3d, C/SC-CW3d	29	9%
Native Canopy/Exotic Understory	C/SC1d, C/SC-RO1d, C/SC3d	70	22%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-SC/SC-C3d	12	4%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	RO/SC3d	7	2%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-C-CW5d	5	1%
Exotic Understory	SC5d	201	62%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: BA-03N

Habitat Acreage

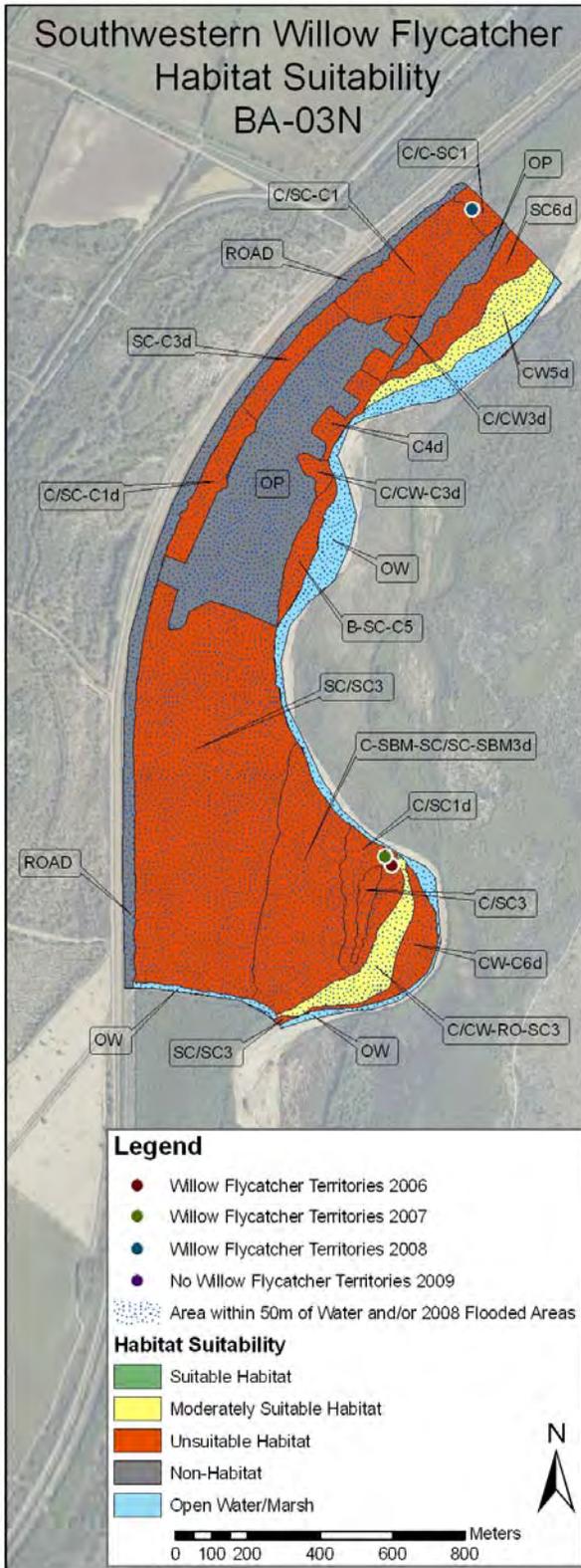
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	18	8%	18	8%
Unsuitable	202	92%	202	92%
Total Area	220	100%	220	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/CW3d, C/CW-C3d	5	2%
Native Canopy/Mixed Understory	C/C-SC1, C/CW-RO-SC3, C/SC-C1, C/SC-C1d	33	15%
Native Canopy/Exotic Understory	C/SC1d, C/SC3	11	5%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-C3d	6	3%
Mixed Canopy/Exotic Understory	C-SBM-SC/SC-SBM3d	32	15%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	99	45%
Native Canopy	C4d	4	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5d, CW-C6d	17	8%
Mixed Understory	B-SC-C5	5	2%
Exotic Understory	SC6d	9	4%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	1	1
2007	0	1	1
2008	1	0	1
2009	0	0	0



Survey Site: BA-03S

Habitat Acreage

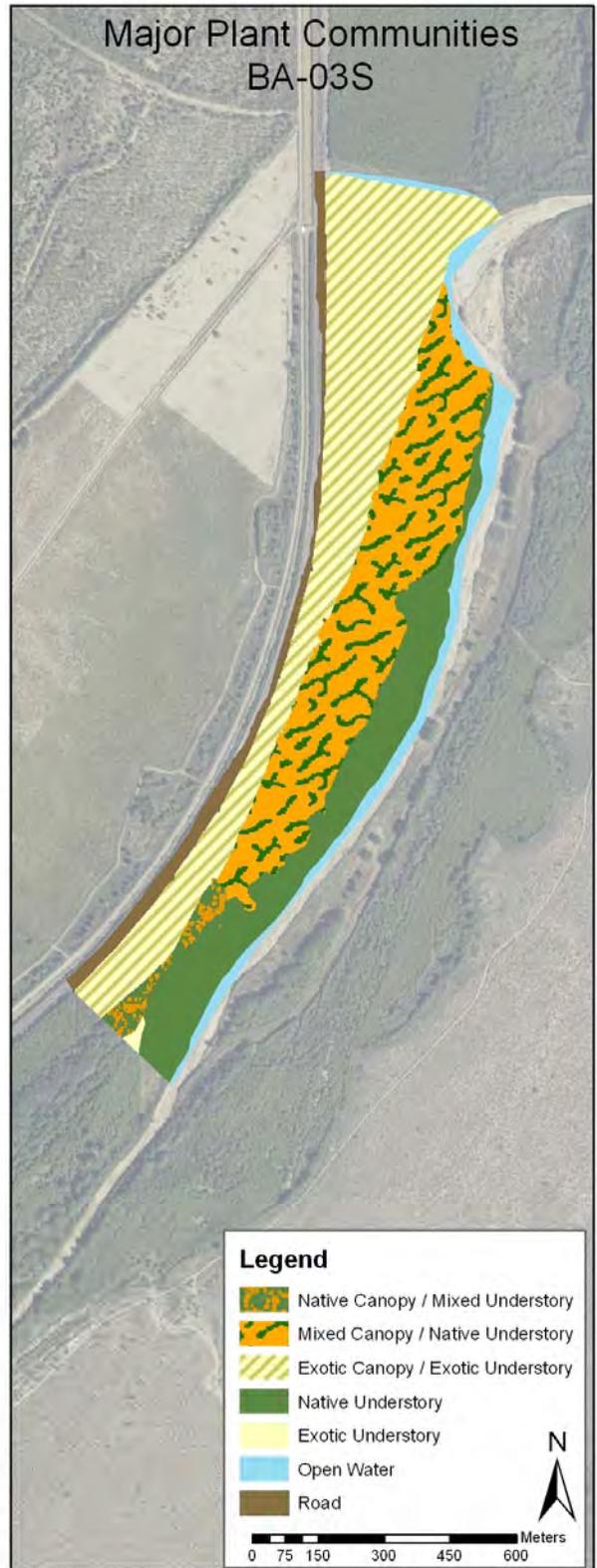
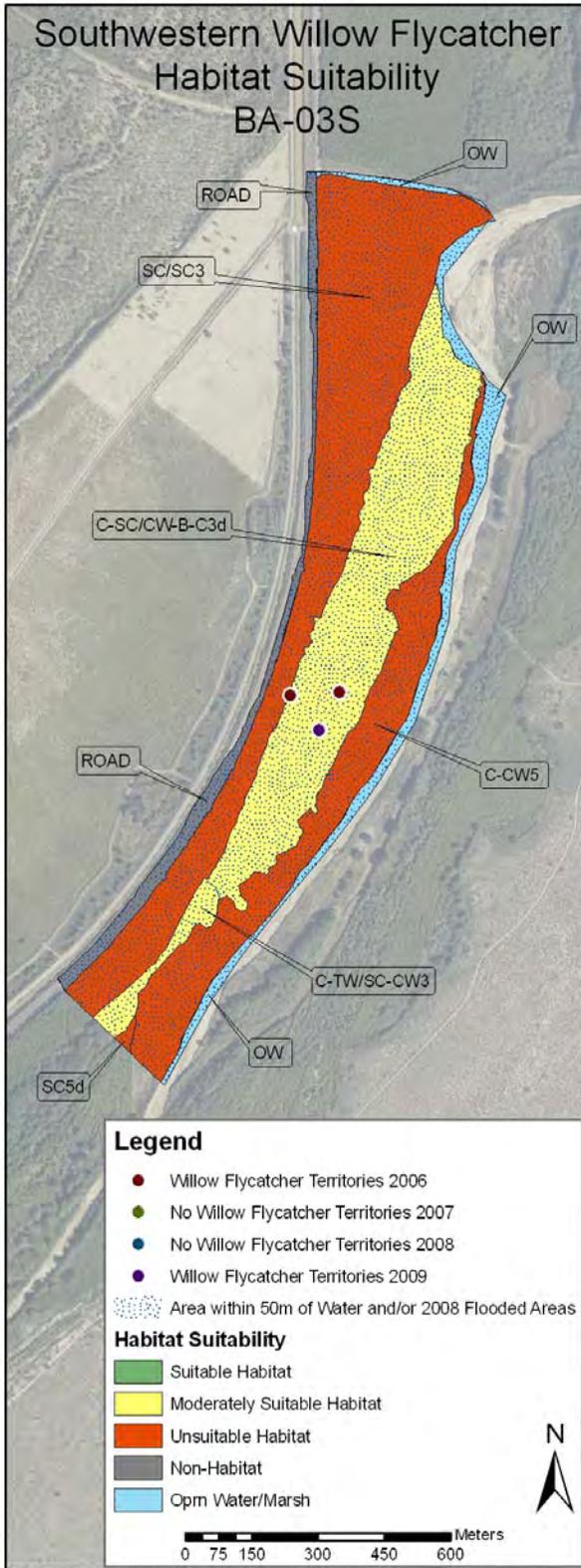
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	58	37%	58	37%
Unsuitable	97	63%	97	63%
Total Area	155	100%	155	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C-TW/SC-CW3d	4	3%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	C-SC/CW-B-C3d	54	35%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	65	42%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5	32	21%
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	0	2
2007	0	0	0
2008	0	0	0
2009	0	1	1



Survey Site: BA-04N

Habitat Acreage

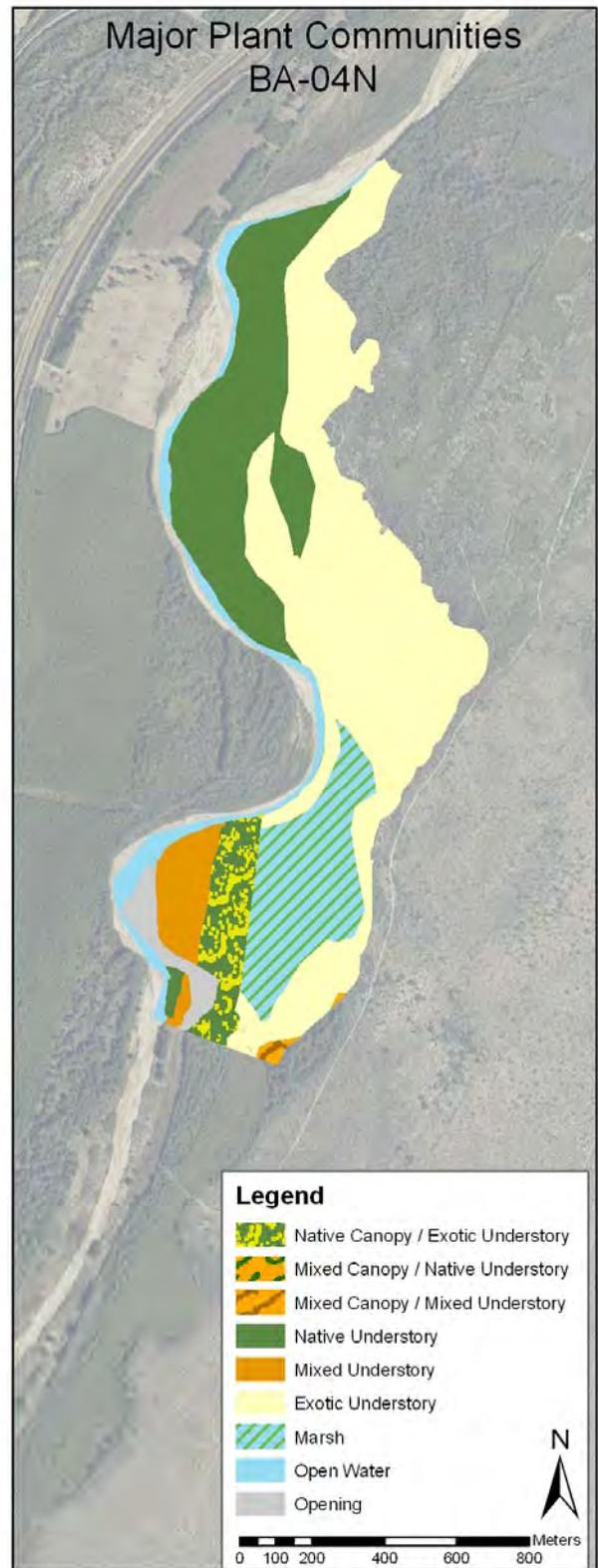
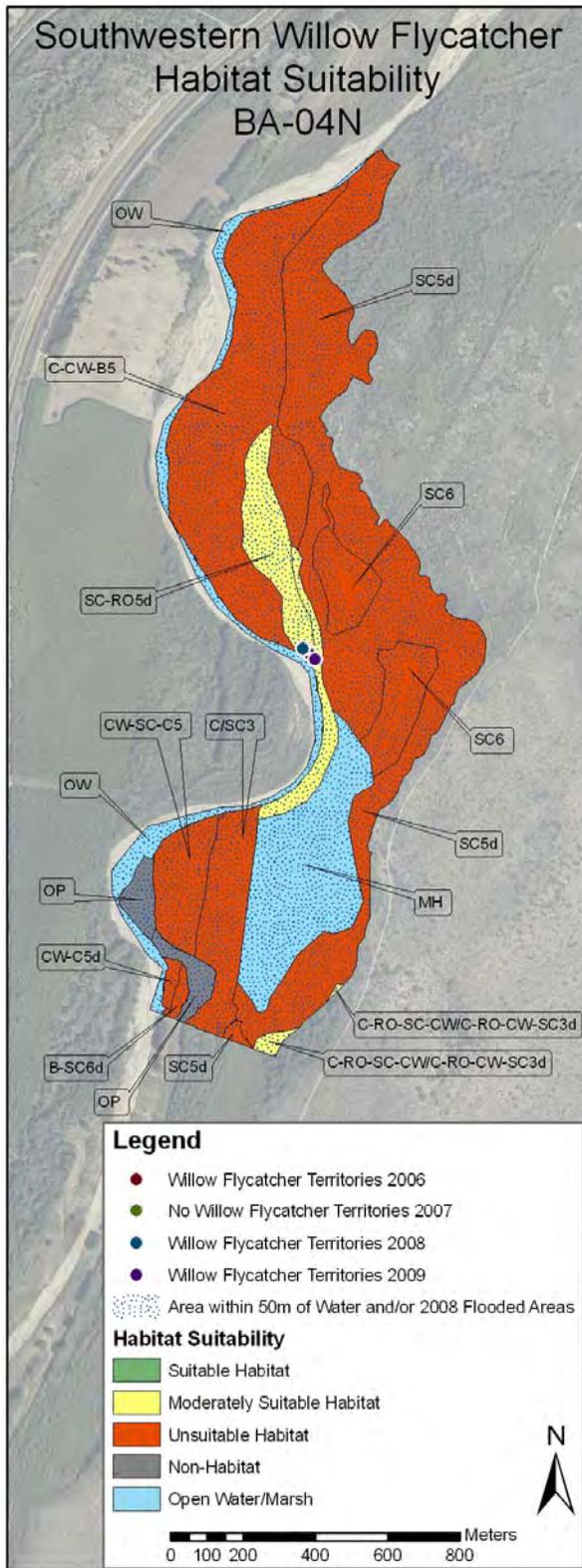
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	20	9%	20	9%
Unsuitable	205	91%	204	91%
Total Area	225	100%	224	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC3	17	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO-SC-CW/C-RO-CW-SC3d	1	0%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW-B5, CW-C5d	63	28%
Mixed Understory	B-SC6d, CW-SC-C5	12	5%
Exotic Understory	SC5d, SC6, SC-RO5d	132	59%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	1	0	1
2009	1	0	1



Survey Site: BA-04S

Habitat Acreage

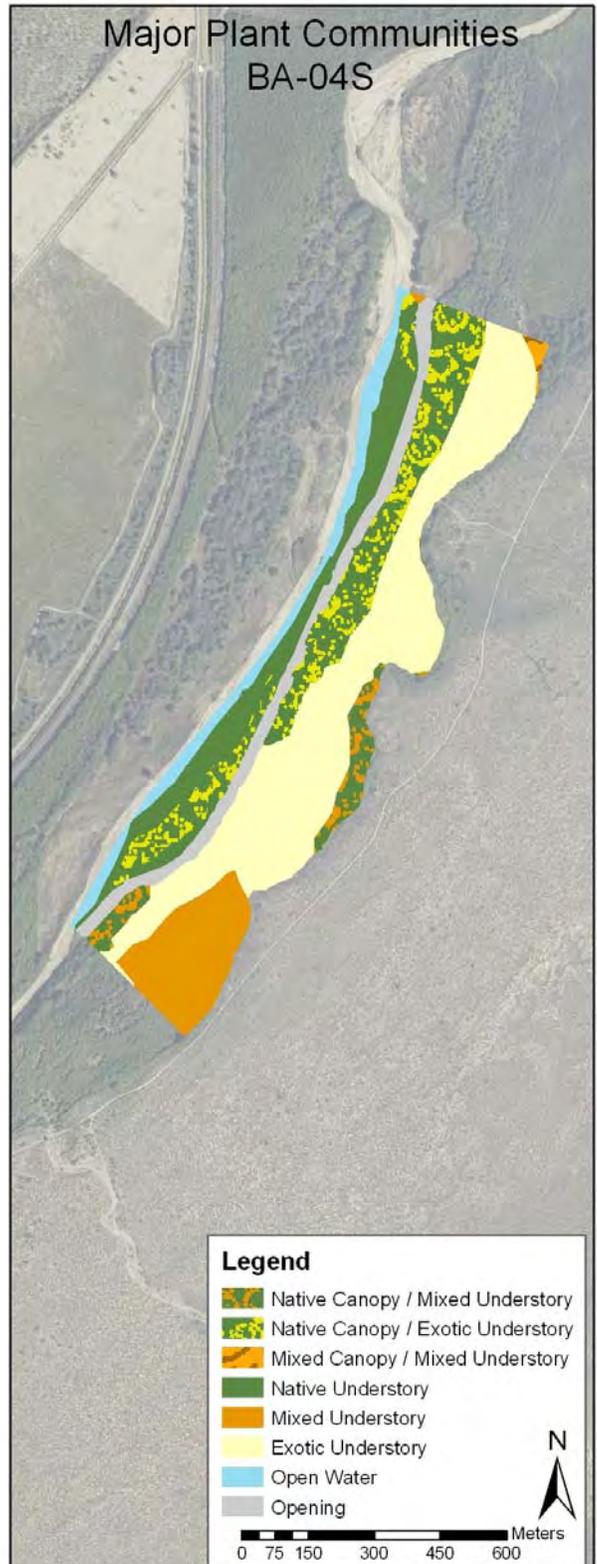
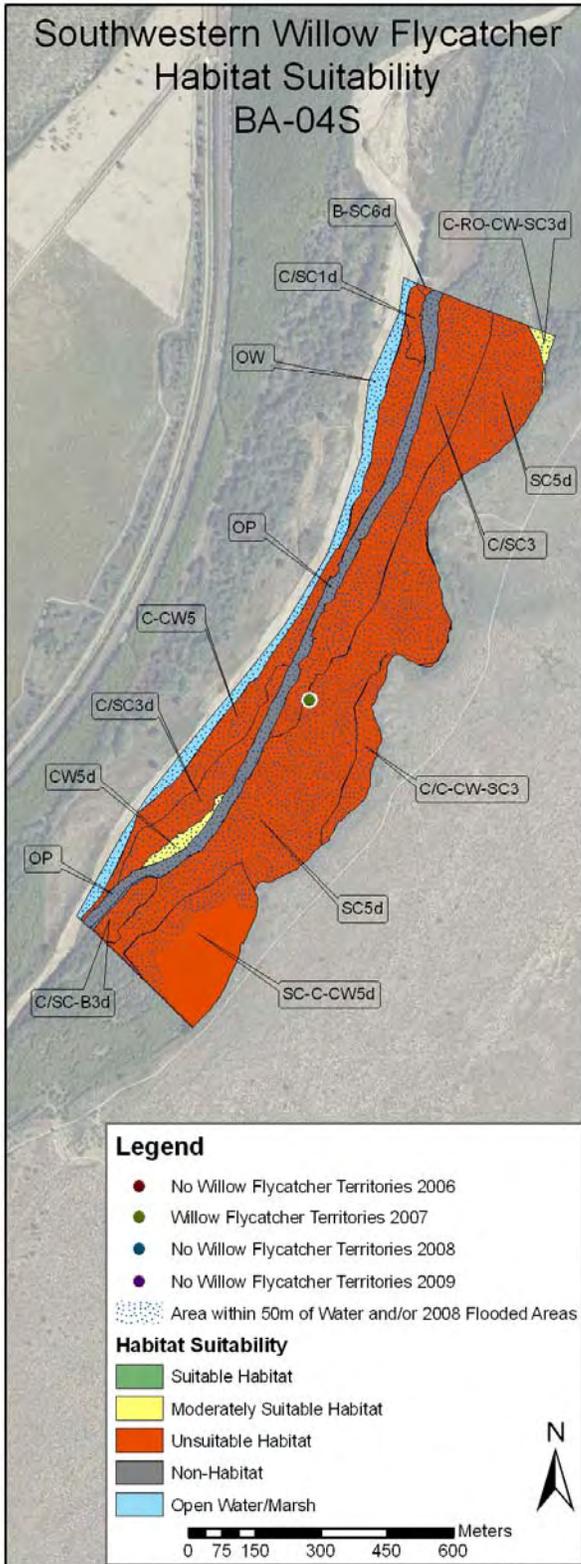
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	2	2%	2	2%
Unsuitable	115	98%	106	90%
Total Area	117	100%	108	92%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/C-CW-SC3, C/SC-B3d	7	6%
Native Canopy/Exotic Understory	C/SC1d, C/SC3, C/SC3d	28	24%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO-SC-CW/C-RO-CW-SC3d	1	1%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5, CW5d	15	13%
Mixed Understory	SC-C-CW5d	14	12%
Exotic Understory	SC5d	52	44%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: BA-05

Habitat Acreage

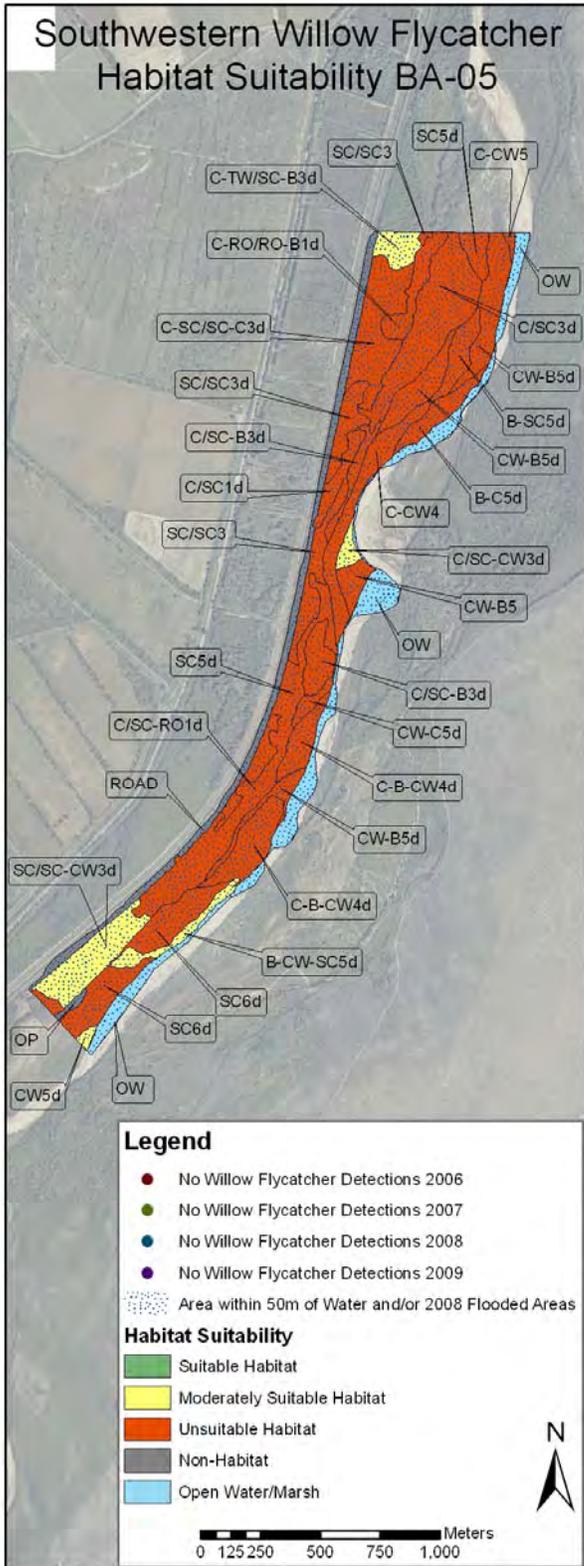
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	32	11%	32	11%
Unsuitable	249	89%	248	88%
Total Area	281	100%	280	99%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/C-SC1, C/SC-B3d, C/SC-CW3d, C-TW/SC-B3d	21	7%
Native Canopy/Exotic Understory	C/SC1d, C/SC3d, C/SC-RO1d	71	25%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/RO-B1d, C-SC/SC-C3d	30	11%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC/SC-CW3d	17	6%
Exotic Canopy/Exotic Understory	SC/SC3, SC/SC3d	17	6%
Native Canopy	C-B-CW4d, C-CW4	36	13%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-C5d, C-CW5, CW5d, CW-B5, CW-B5d, CW-C5d	44	16%
Mixed Understory	B-CW-SC5d, B-SC5d	13	5%
Exotic Understory	SC5d, SC6d	32	11%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: BA-06N

Habitat Acreage

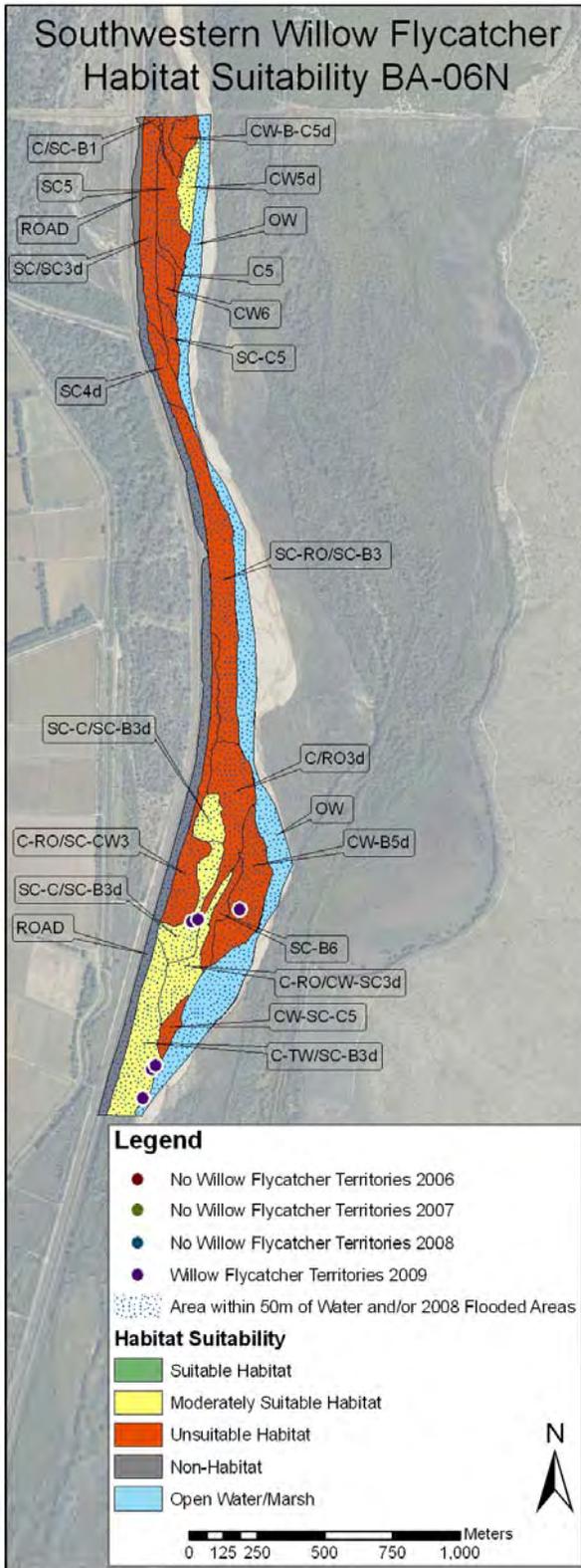
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	39	27%	39	27%
Unsuitable	105	73%	103	72%
Total Area	144	100%	142	99%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B1, C-TW/SC-B3d	16	11%
Native Canopy/Exotic Understory	C/RO3d	14	10%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/CW-SC3d, C-RO/SC-CW3, SC-C/SC-B3d	32	22%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC-RO/SC-B3	23	16%
Exotic Canopy/Exotic Understory	SC/SC3d	11	8%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	4	3%
Native Understory	C5, CW5d, CW6, CW-B5d, CW-B-C5d	26	18%
Mixed Understory	CW-SC-C5, SC-B6, SC-C5	9	6%
Exotic Understory	SC5	10	7%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	5	6



Survey Site: BA-06S

Habitat Acreage

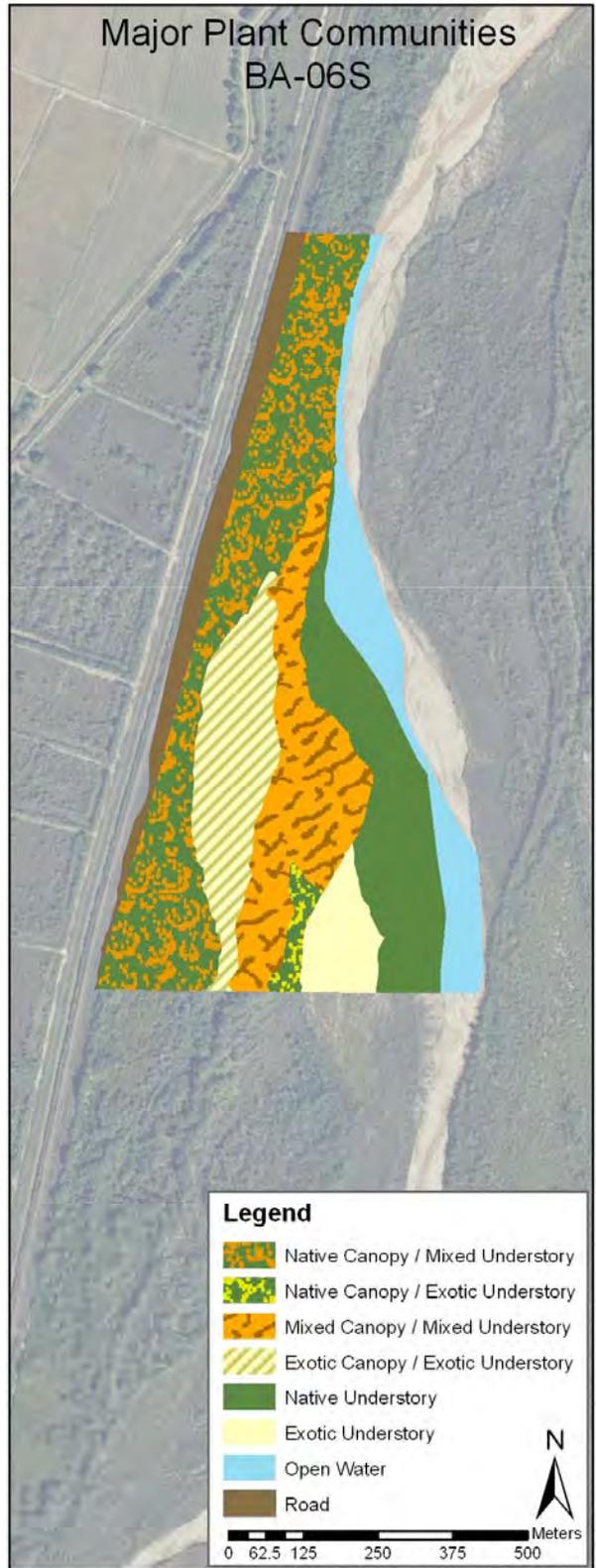
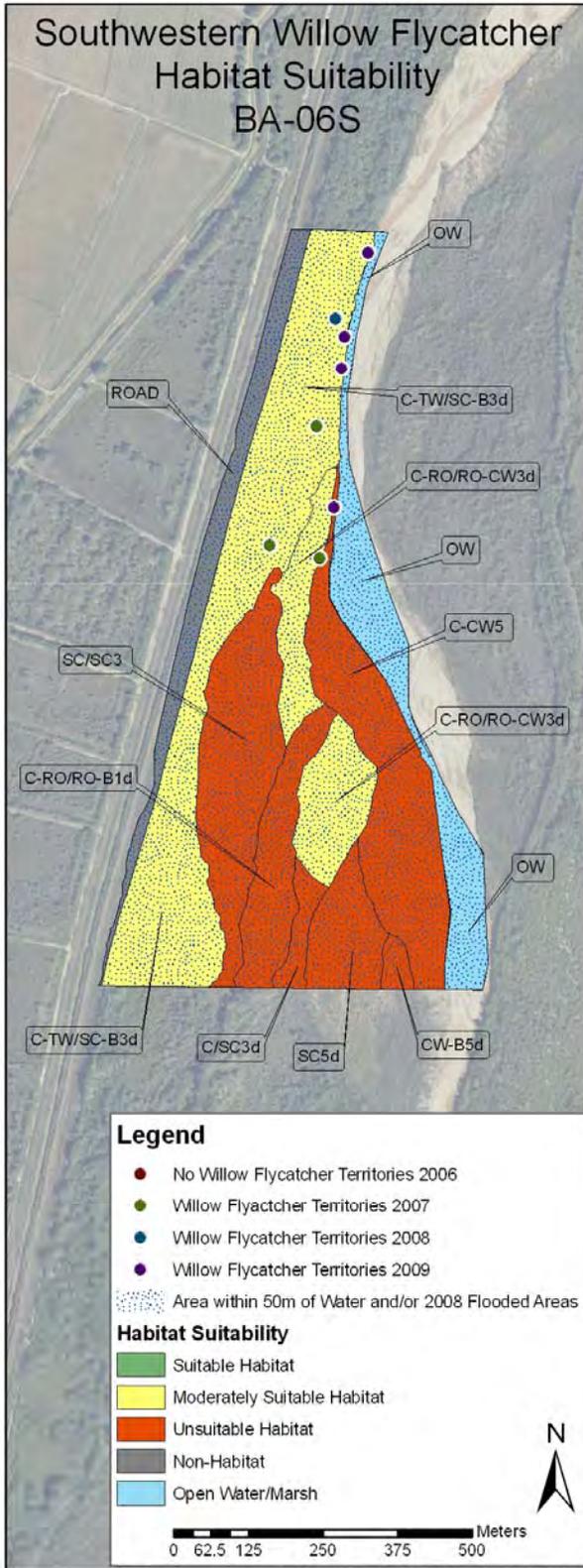
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	45	48%	45	48%
Unsuitable	48	52%	48	52%
Total Area	93	100%	93	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C-TW/SC-B3d	34	37%
Native Canopy/Exotic Understory	C/SC3d	2	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	C-RO/RO-B1d, C-RO/RO-CW3d	19	20%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	15	16%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5, CW-B5d	18	19%
Mixed Understory	-	-	-
Exotic Understory	SC5d	5	5%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	3	3
2008	0	1	1
2009	1	3	4



Survey Site: BA-07

Habitat Acreage

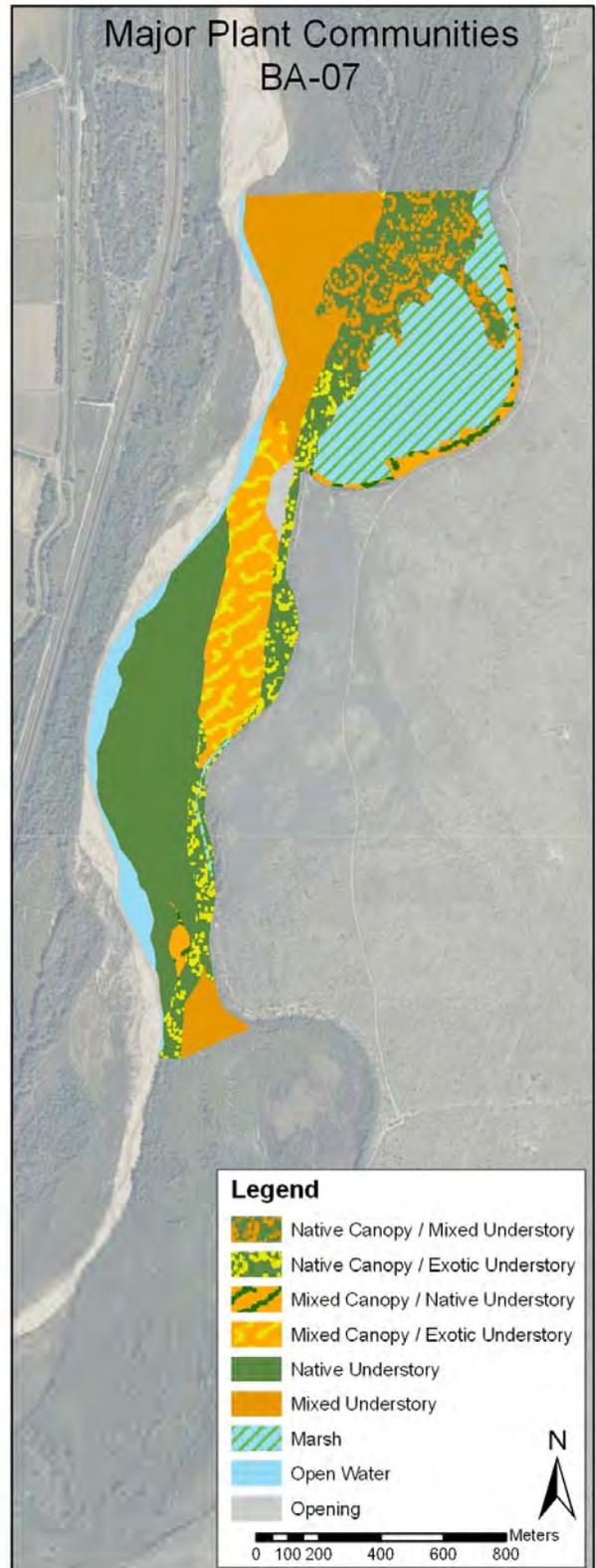
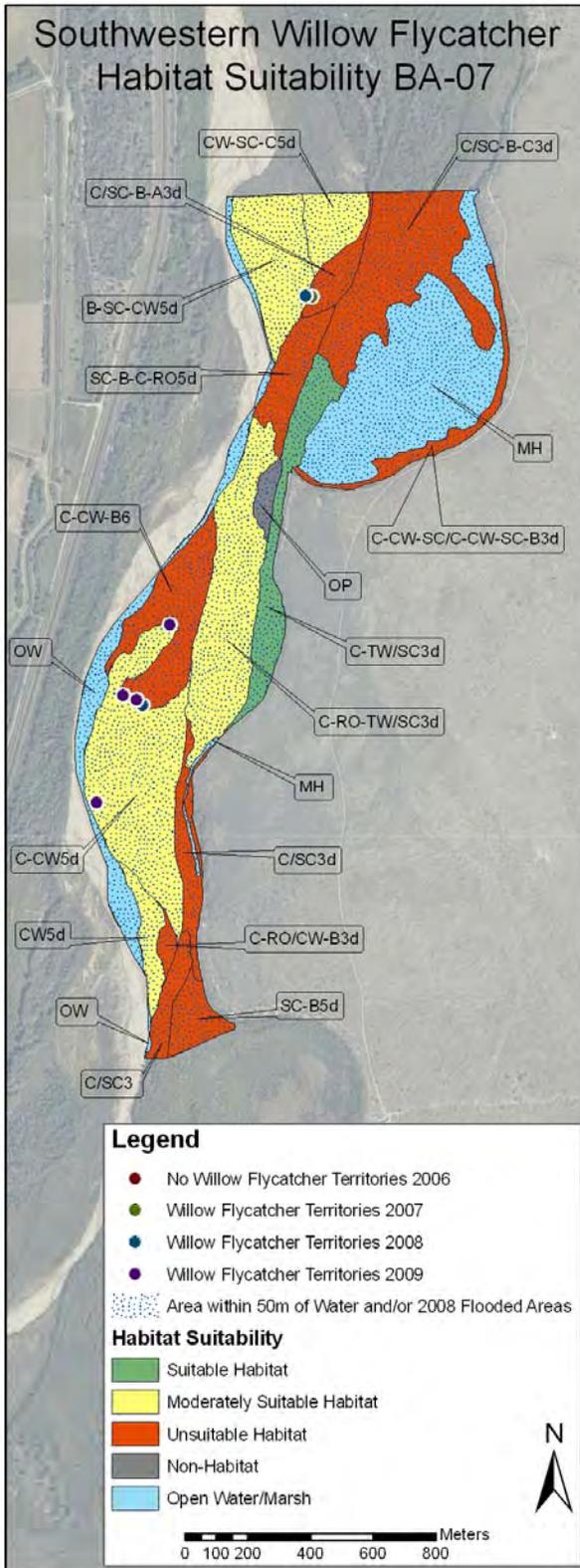
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	19	8%	19	8%
Moderately Suitable	121	49%	121	49%
Unsuitable	108	43%	108	43%
Total Area	248	100%	248	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-B-A3d, C/SC-B-C3d	43	17%
Native Canopy/Exotic Understory	C/SC3, C/SC3d, C-TW/SC3d	33	13%
Mixed Canopy/Native Understory	C-CW-SC/C-CW-SC-B3d, C-RO/CW-B3d	10	4%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-RO/SC1d, C-RO-TW/SC3d	38	15%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW5d, C-CW-B6, CW5d	75	30%
Mixed Understory	B-SC-CW5d, CW-SC-C5d, SC-B5d, SC-B-C-RO5d	50	20%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	1	1
2008	0	2	2
2009	0	4	4



Survey Site: BA-08/08A

Habitat Acreage

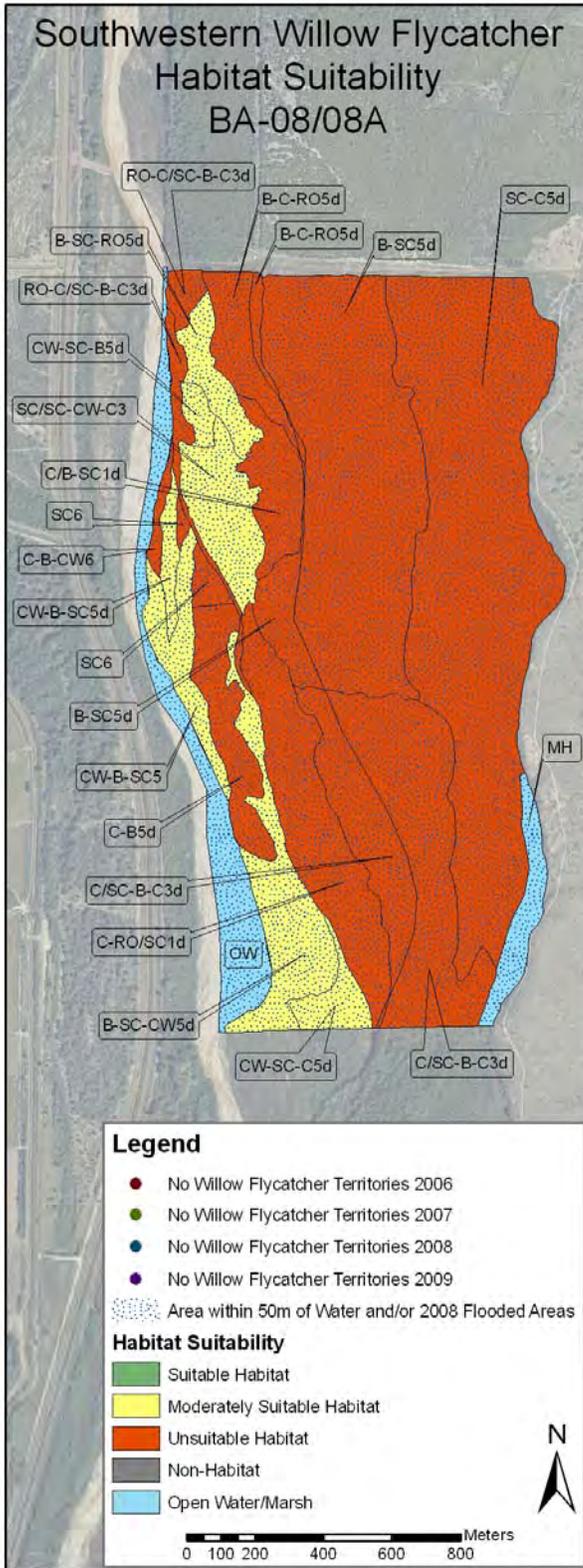
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	85	16%	85	16%
Unsuitable	450	84%	450	84%
Total Area	535	100%	535	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/B-SC1d, C/SC-B-C3d	89	17%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	RO-C/SC-B-C3d	10	2%
Mixed Canopy/Exotic Understory	C-RO/SC1d	41	8%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	SC/SC-CW-C3	19	3%
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-B5d, C-B-CW6	20	3%
Mixed Understory	B-C-RO5d, B-SC5d, B-SC-CW5d, B-SC-RO5d, CW-B-SC5, CW-B-SC5d, CW-SC-B5d, CW-SC-C5d, SC-C5d	352	66%
Exotic Understory	SC6	4	1%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: BA-09

Habitat Acreage

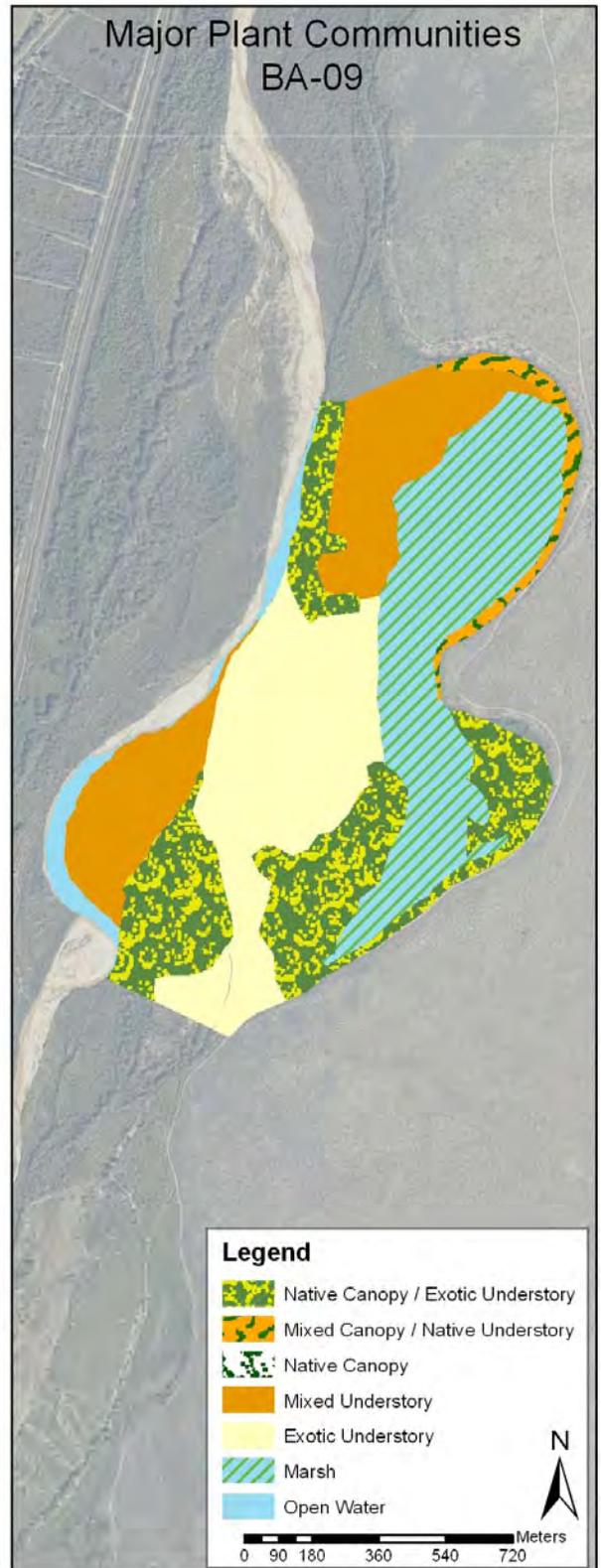
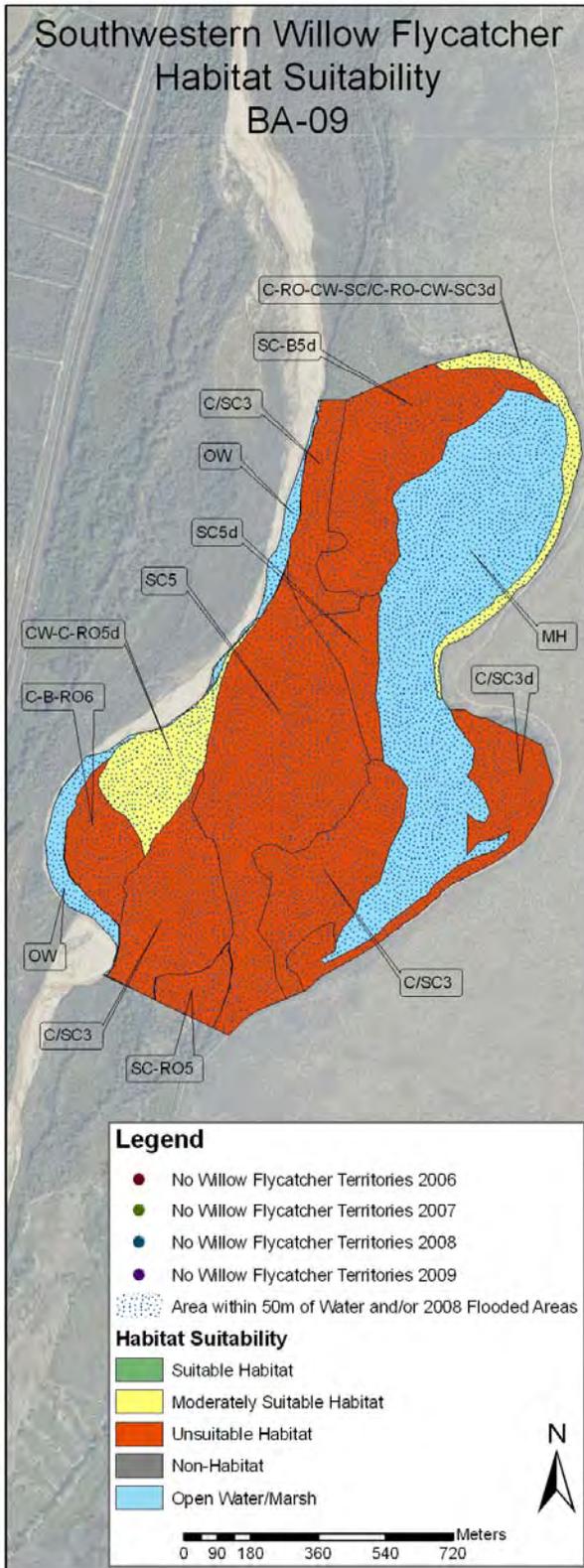
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	27	11%	27	11%
Unsuitable	223	89%	214	85%
Total Area	250	100%	241	96%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC3, C/SC3d	89	36%
Mixed Canopy/Native Understory	C-RO-CW-SC/C-RO-CW-SC3d	10	4%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	C-B-RO6, CW-C-RO5d, SC-B5d	67	27%
Exotic Understory	SC5, SC5d, SC-RO5	84	34%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: BA-10

Habitat Acreage

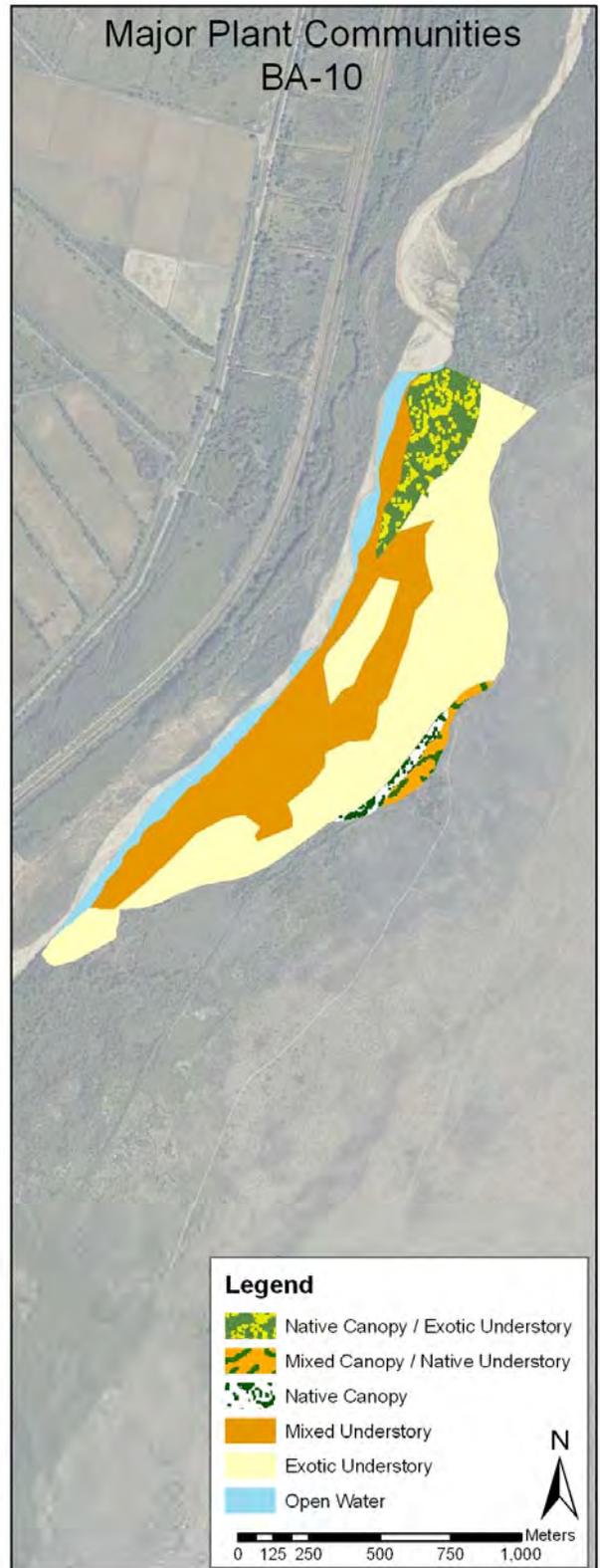
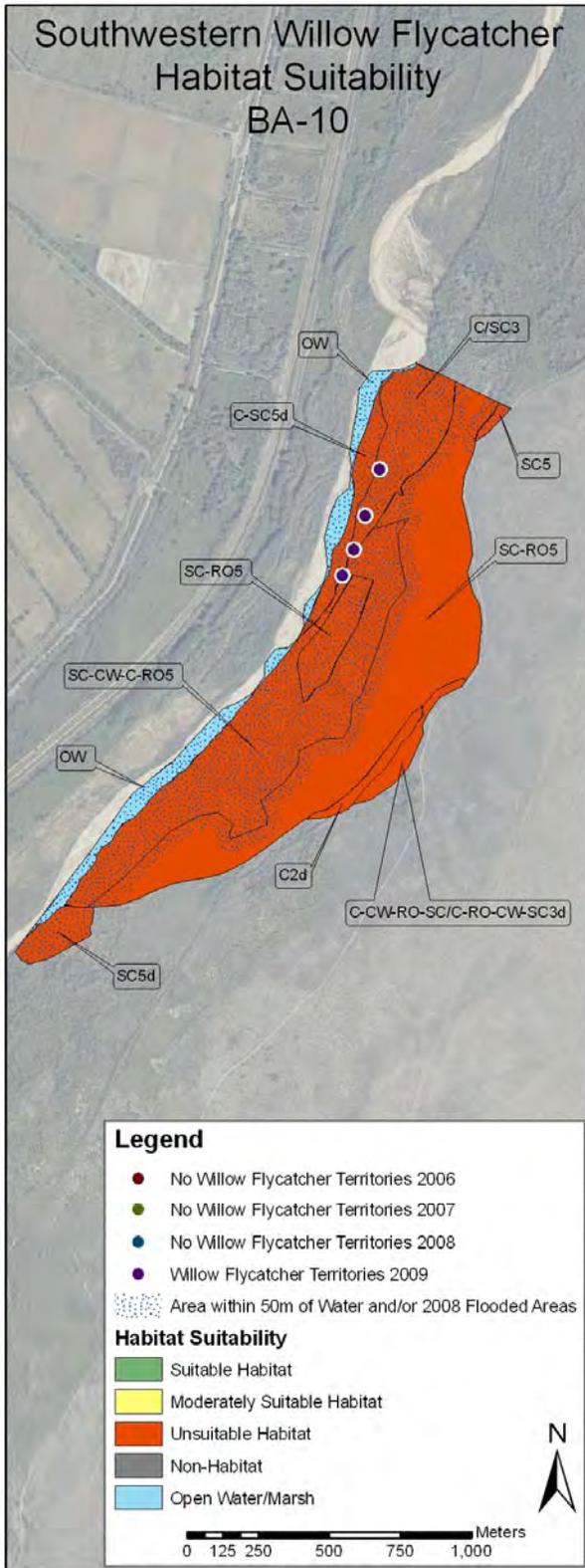
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	262	100%	175	67%
Total Area	262	100%	175	67%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC3	25	10%
Mixed Canopy/Native Understory	C-CW-RO-SC/C-RO-CW-SC3d	6	2%
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2d	5	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	C-SC5d, SC-CW-C-RO5	92	35%
Exotic Understory	SC5, SC5d, SC-RO5	134	51%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	3	4



Tiffany Reach

Habitat Acreage

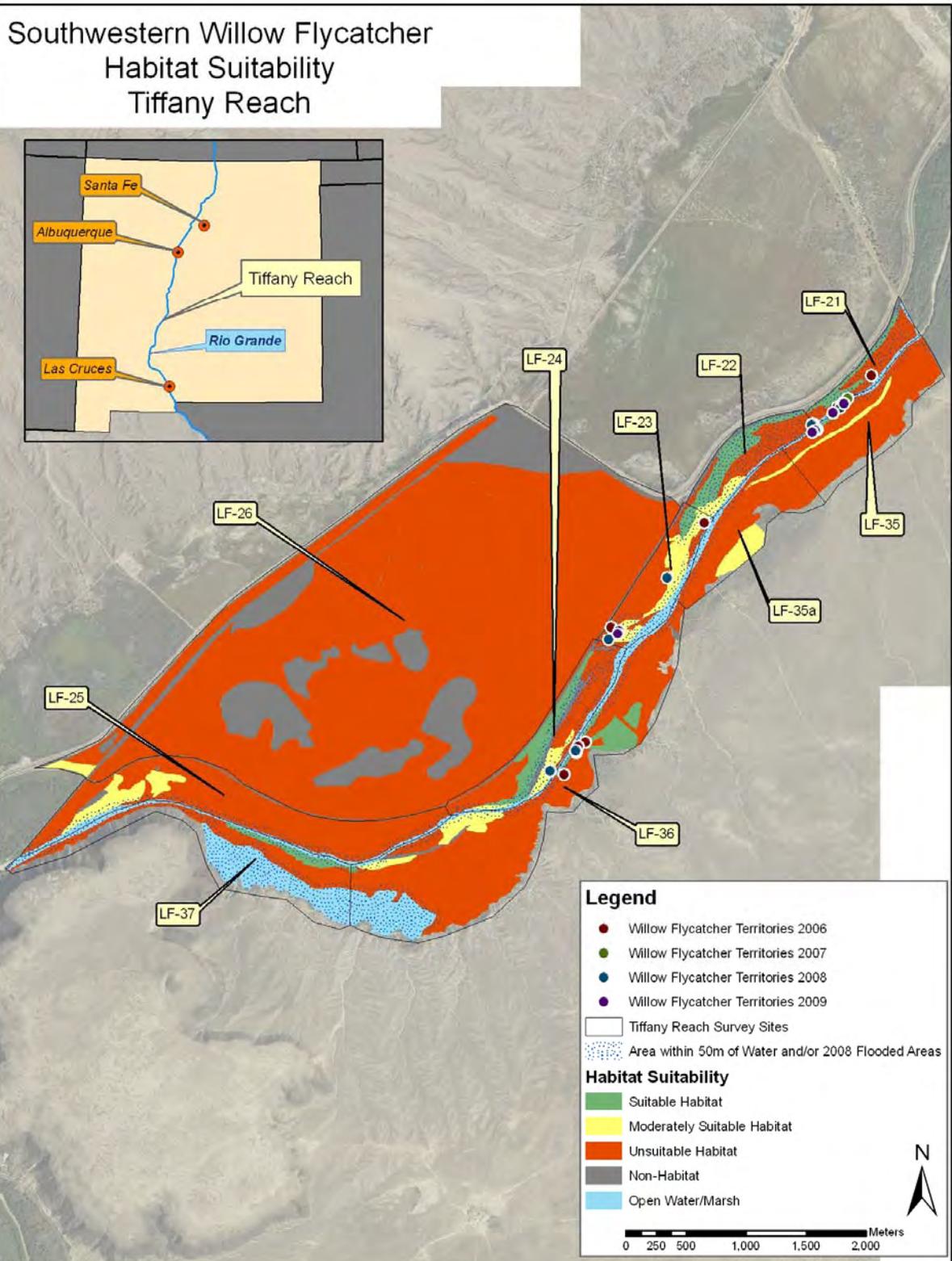
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	127	4%	85	3%
Moderately Suitable	147	5%	59	2%
Unsuitable	2825	91%	283	9%
Total Area	3099	100%	427	14%

Dominant Plant Communities within Reach

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CW3d	4	0%
Native Canopy/Mixed Understory	C-TW/SC-C3d, C-TW/SC-CW3d, C/TW-SC1d, C/SC-CW3, C-TW/SC-CW3, C-TW/SC-CW1d, C/SC-C-CW1d, TW-C/SC-CW3d	140	5%
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC1d, C-TW/SC3d, C/SC3, C/SC1, TW-C/SC1d, C-TW/SC3, C/SC3	376	12%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-TW/SC-TW3d	11	1%
Mixed Canopy/Exotic Understory	SC-C/SC3d, C-SC/SC3d	108	3%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	71	2%
Native Canopy	C2d	5	0%
Mixed Canopy	TW-SC4	31	1%
Exotic Canopy	SC4d, RO4, SC4	480	15%
Native Understory	C-CW5d, CW5d, CW5	56	2%
Mixed Understory	CW-SC5, SC-B5d, SC-C5, CW-C-SC5	12	1%
Exotic Understory	SC5d, SC5, SC6	1801	58%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	7	2	9
2007	1	3	4
2008	5	3	8
2009	1	4	5



Survey Site: LF-21

Habitat Acreage

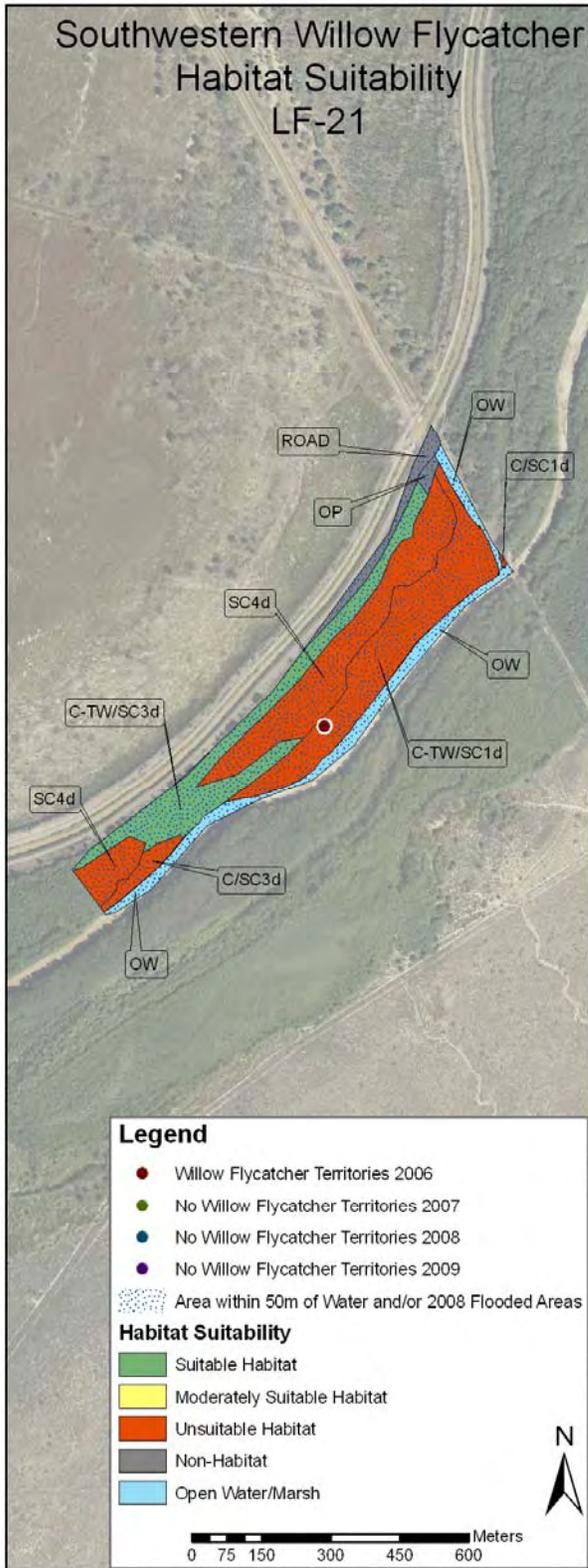
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	13	27%	13	27%
Moderately Suitable	0	0%	0	0%
Unsuitable	35	73%	35	73%
Total Area	48	100%	48	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC1d, C-TW/SC3d	31	65%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	17	35%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-22

Habitat Acreage

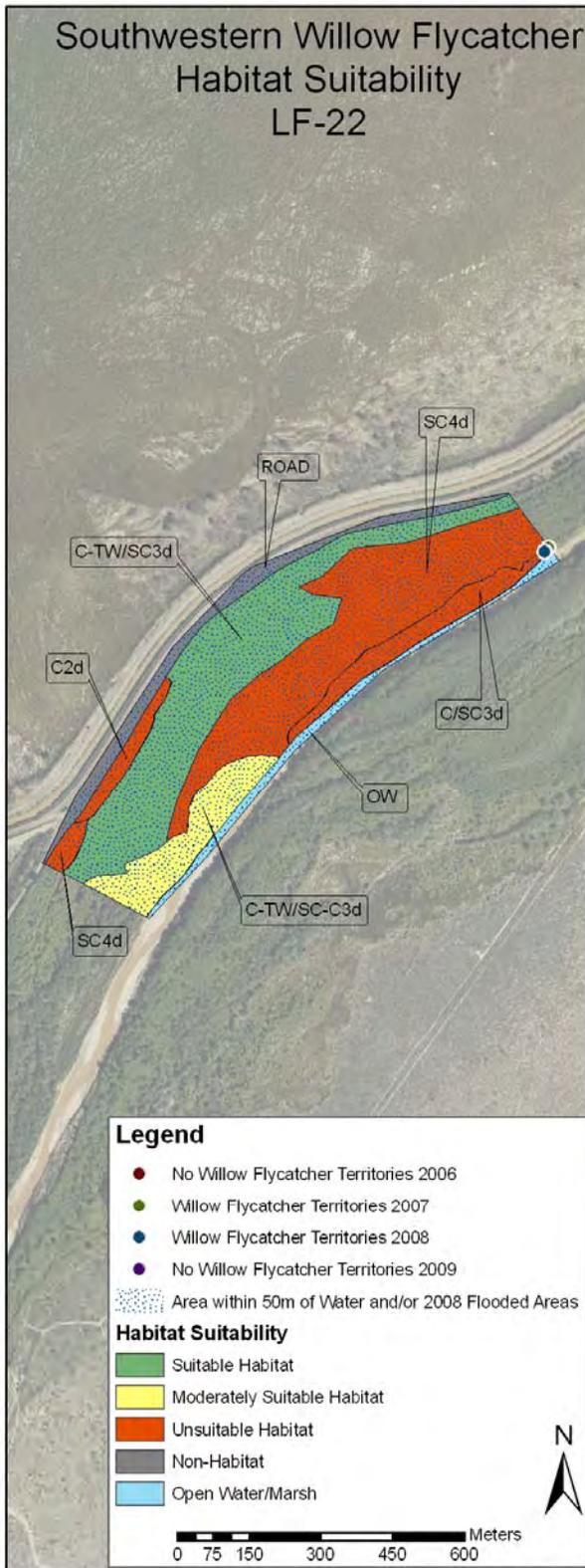
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	31	39%	31	39%
Moderately Suitable	9	11%	9	11%
Unsuitable	39	50%	39	50%
Total Area	79	100%	79	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C-TW/SC-C3d	9	11%
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC3d	37	47%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2d	2	3%
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	30	38%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	1	0	1
2009	0	0	0



Survey Site: LF-23

Habitat Acreage

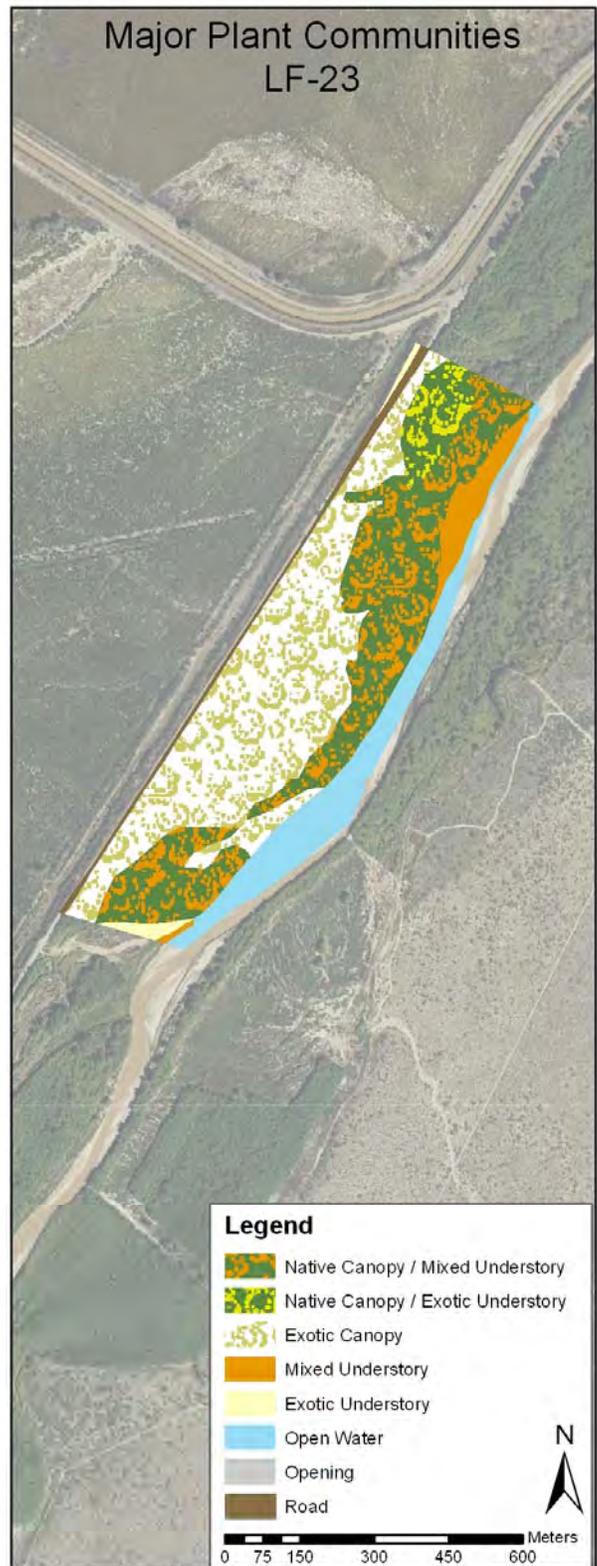
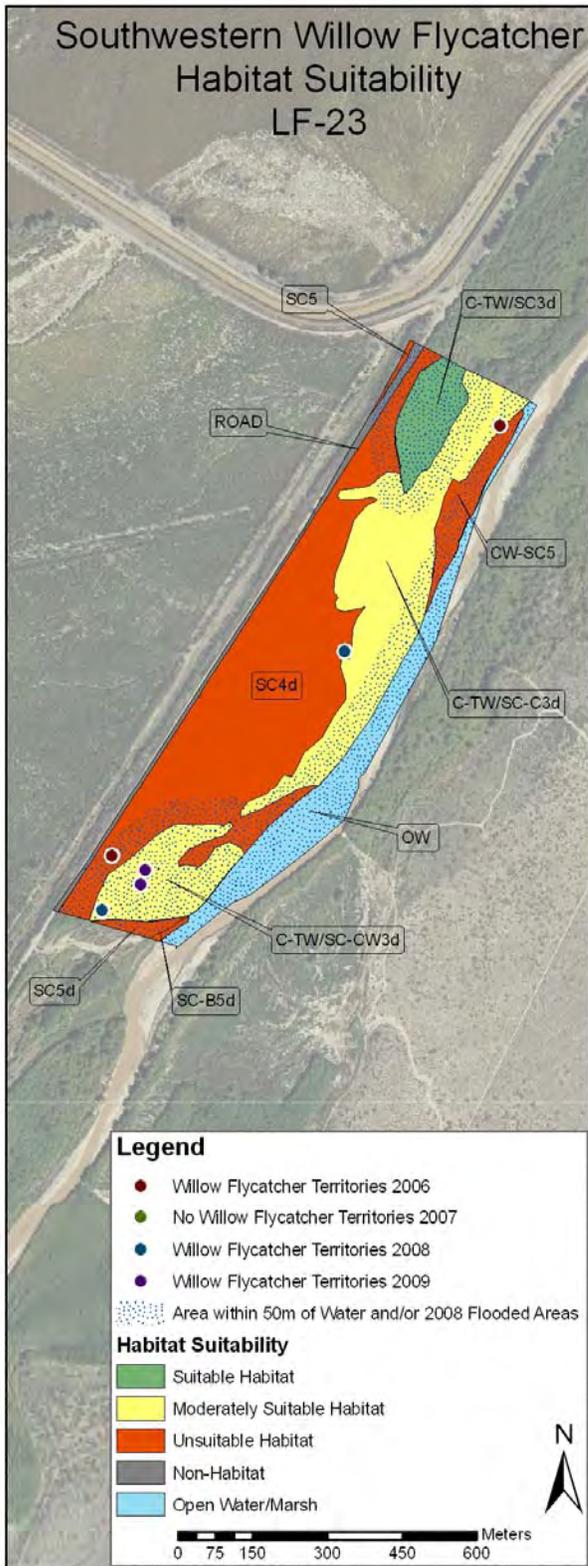
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	6	7%	6	7%
Moderately Suitable	35	39%	22	24%
Unsuitable	49	54%	15	17%
Total Area	90	100%	43	48%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C-TW/SC-C3d, C-TW/SC-CW3d	35	39%
Native Canopy/Exotic Understory	C-TW/SC3d	6	7%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	44	49%
Native Understory	-	-	-
Mixed Understory	CW-SC5	4	4%
Exotic Understory	SC5d	1	1%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	0	2
2007	0	0	0
2008	1	1	2
2009	0	2	2



Survey Site: LF-24

Habitat Acreage

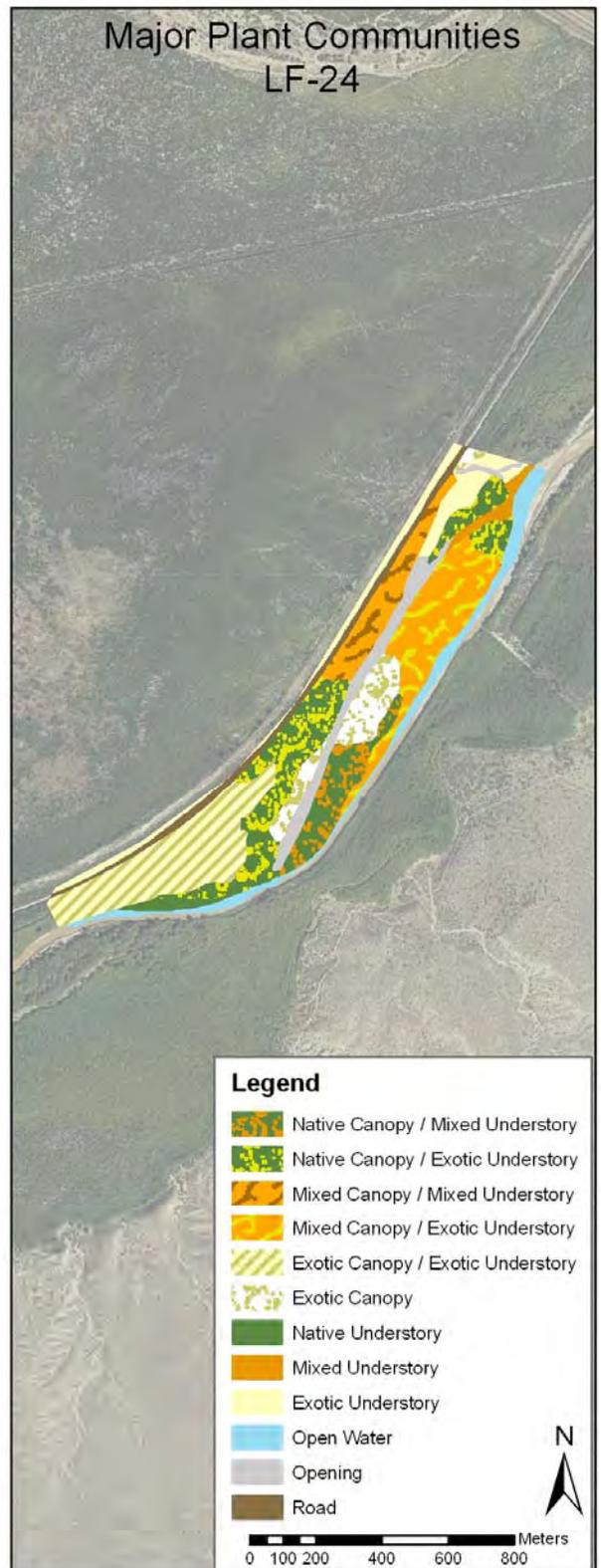
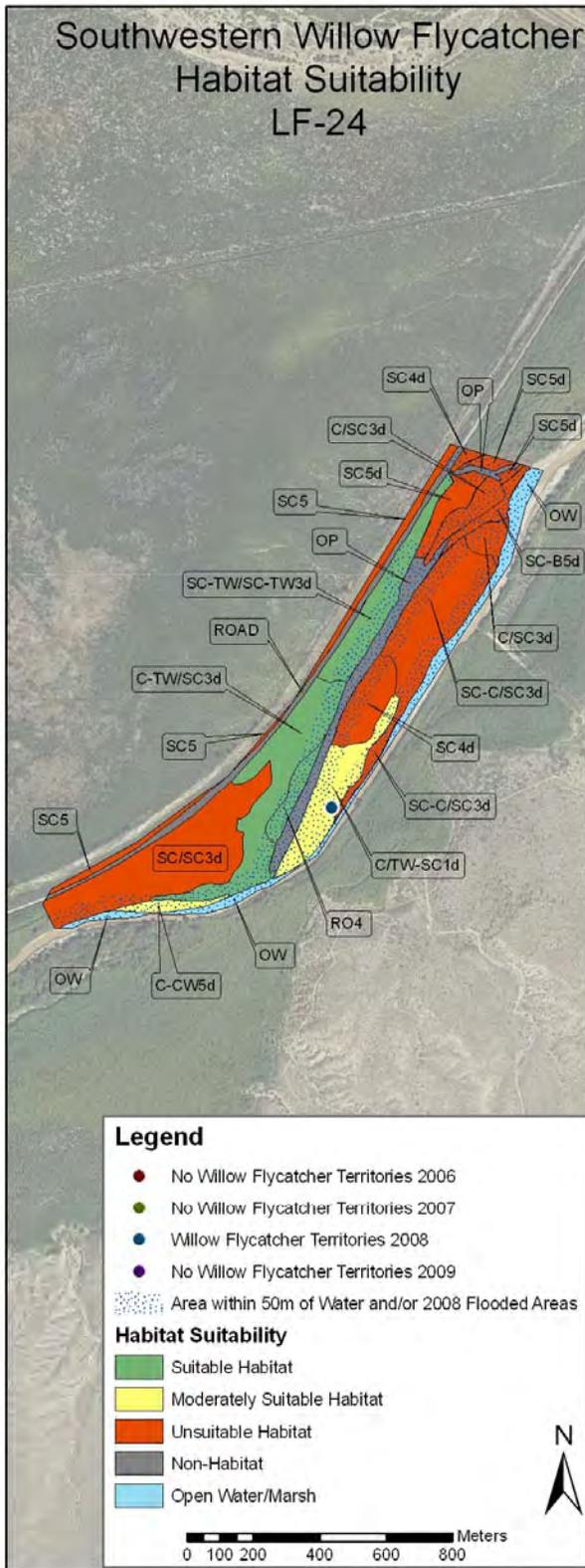
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	33	27%	17	14%
Moderately Suitable	13	11%	11	9%
Unsuitable	75	62%	33	27%
Total Area	121	100%	61	50%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/TW-SC1d	11	9%
Native Canopy/Exotic Understory	C/SC3d, C-TW/SC3d	26	21%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-TW/SC-TW3d	10	8%
Mixed Canopy/Exotic Understory	SC-C/SC3d	20	17%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	27	22%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	RO4, SC4d	11	9%
Native Understory	C-CW5d	2	2%
Mixed Understory	SC-B5d	3	2%
Exotic Understory	SC5, SC5d	11	9%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	1	0	1
2009	0	0	0



Survey Site: LF-25

Habitat Acreage

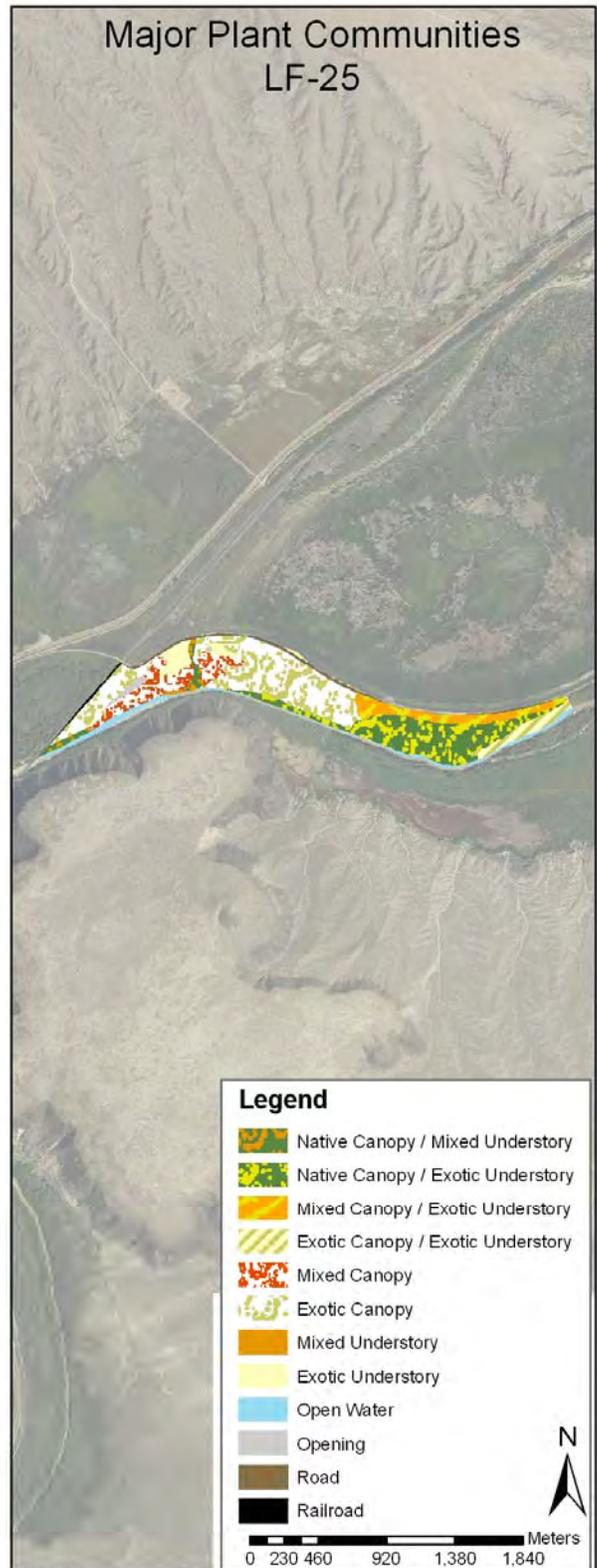
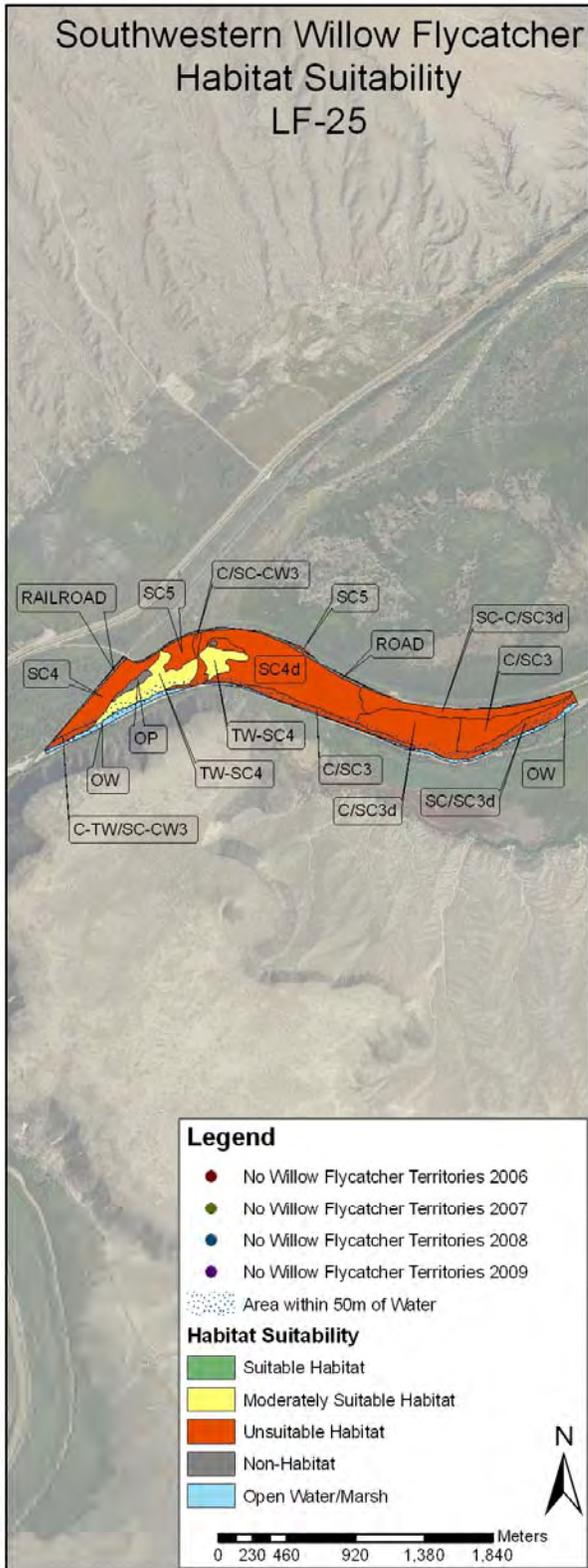
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	31	13%	8	3%
Unsuitable	214	87%	40	16%
Total Area	245	100%	48	19%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW3, C-TW/SC-CW3	7	3%
Native Canopy/Exotic Understory	C/SC3, S/SC3d	66	27%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	SC-C/SC3d	22	9%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	11	4%
Native Canopy	-	-	-
Mixed Canopy	TW-SC4	31	13%
Exotic Canopy	SC4, SC4d	94	38%
Native Understory	-	-	-
Mixed Understory	SC-C5	1	0%
Exotic Understory	SC5, SC5d	12	5%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-26

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	7	0%	0	0%
Unsuitable	1807	100%	0	0%
Total Area	1814	100%	0	0%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	41	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2d	3	0%
Mixed Canopy	-	-	-
Exotic Canopy	SC4	114	6%
Native Understory	CW5d	2	0%
Mixed Understory	CW-C-SC5	5	0%
Exotic Understory	SC5, SC5d, SC6	1649	91%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	N/A – Not Surveyed – Fire/lack of habitat		
2007	N/A – Not Surveyed – Fire/lack of habitat		
2008	N/A – Not Surveyed – Fire/lack of habitat		
2009	N/A – Not Surveyed – Fire/lack of habitat		

Survey Site: LF-35

Habitat Acreage

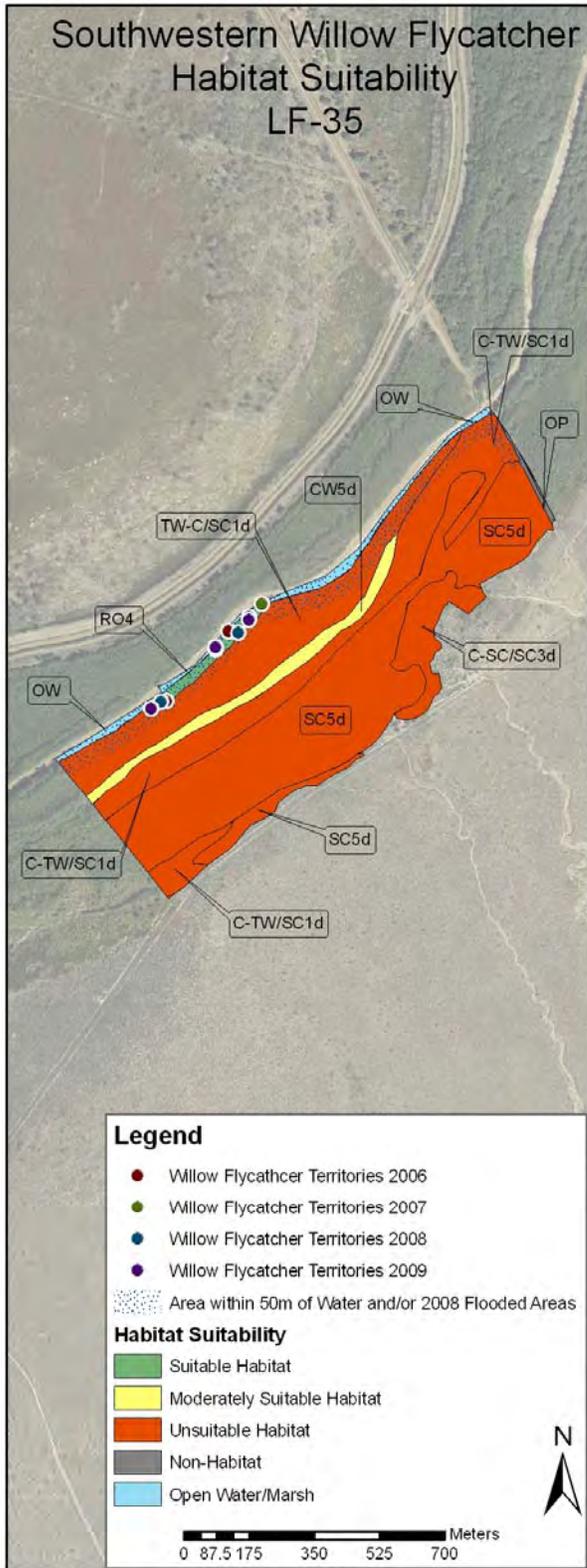
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	3	2%	3	2%
Moderately Suitable	8	5%	0	0%
Unsuitable	136	93%	18	12%
Total Area	147	100%	21	14%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C-TW/SC1d, TW-C/SC1d	59	40%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-SC/SC3d	8	5%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	RO4	3	2%
Native Understory	CW5d	8	5%
Mixed Understory	-	-	-
Exotic Understory	SC5d	69	47%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	2	3
2007	0	2	2
2008	2	0	2
2009	1	2	3



Survey Site: LF-35A

Habitat Acreage

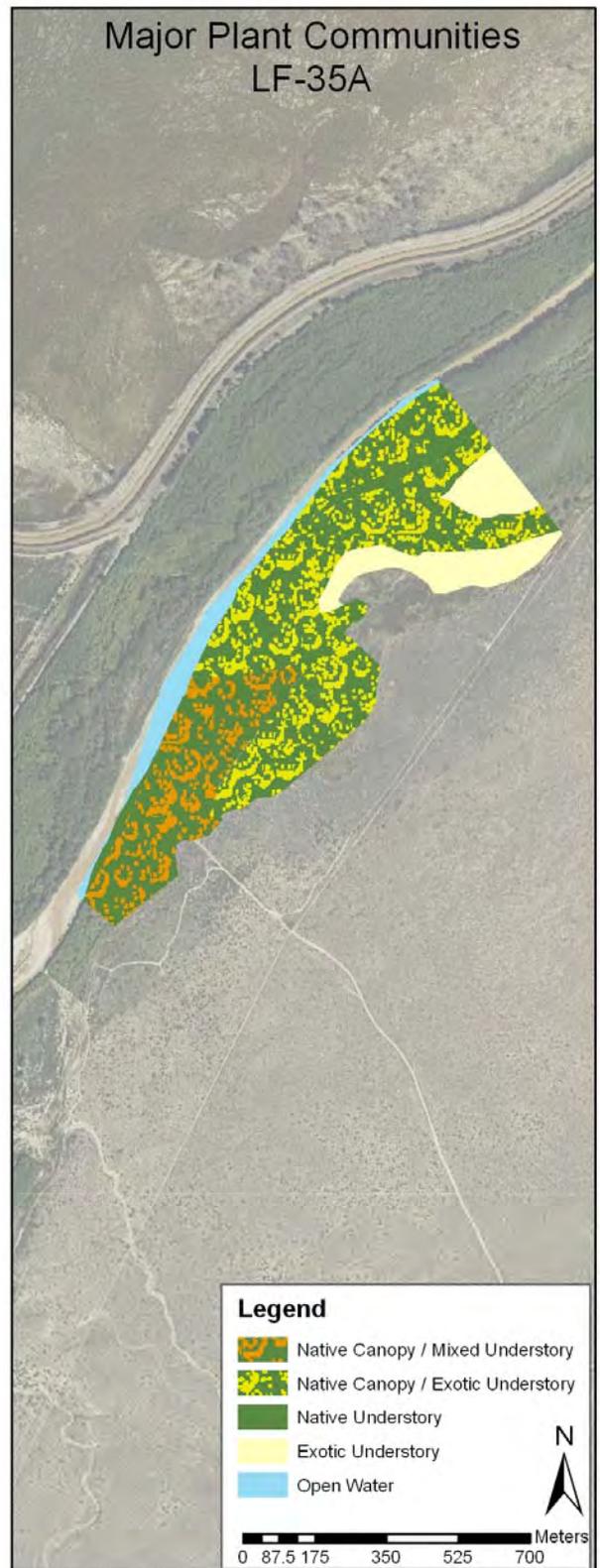
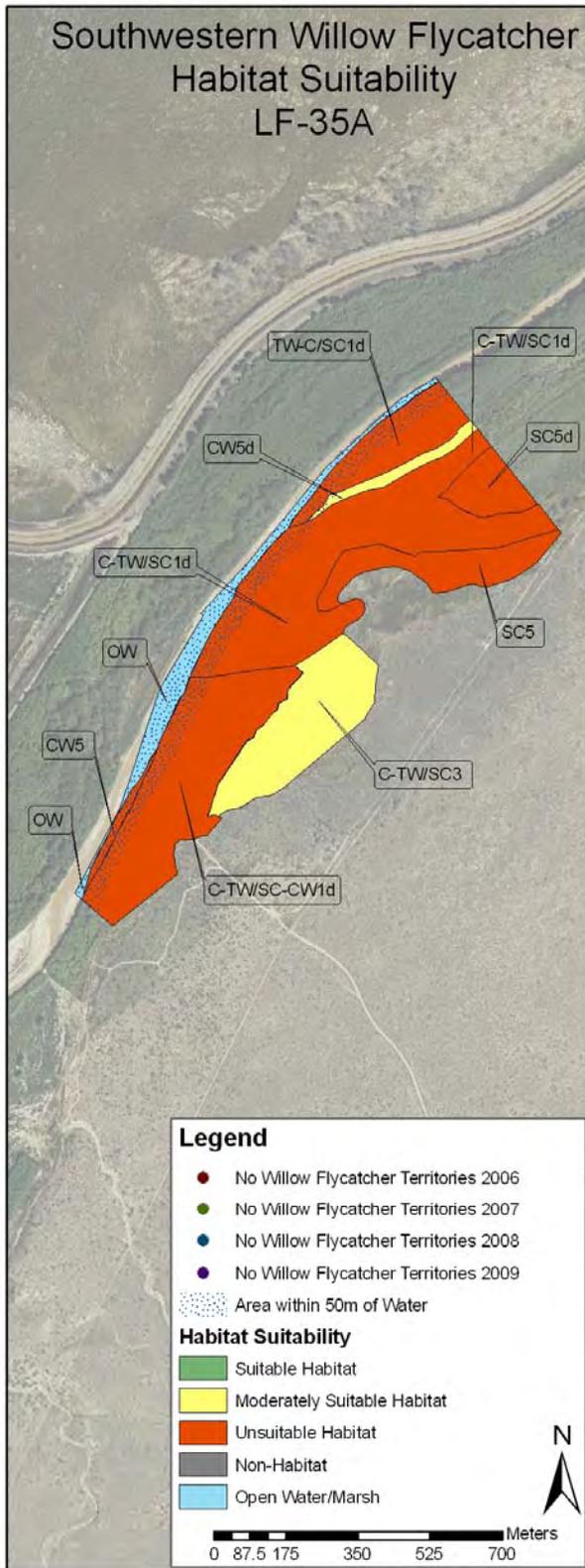
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	22	18%	0	0%
Unsuitable	97	82%	19	16%
Total Area	119	100%	19	16%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C-TW/SC-CW1d	30	25%
Native Canopy/Exotic Understory	C-TW/SC1d, C-TW/SC3, TW-C/SC1d	69	58%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	4	3%
Mixed Understory	-	-	-
Exotic Understory	SC5, SC5d	16	13%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-36

Habitat Acreage

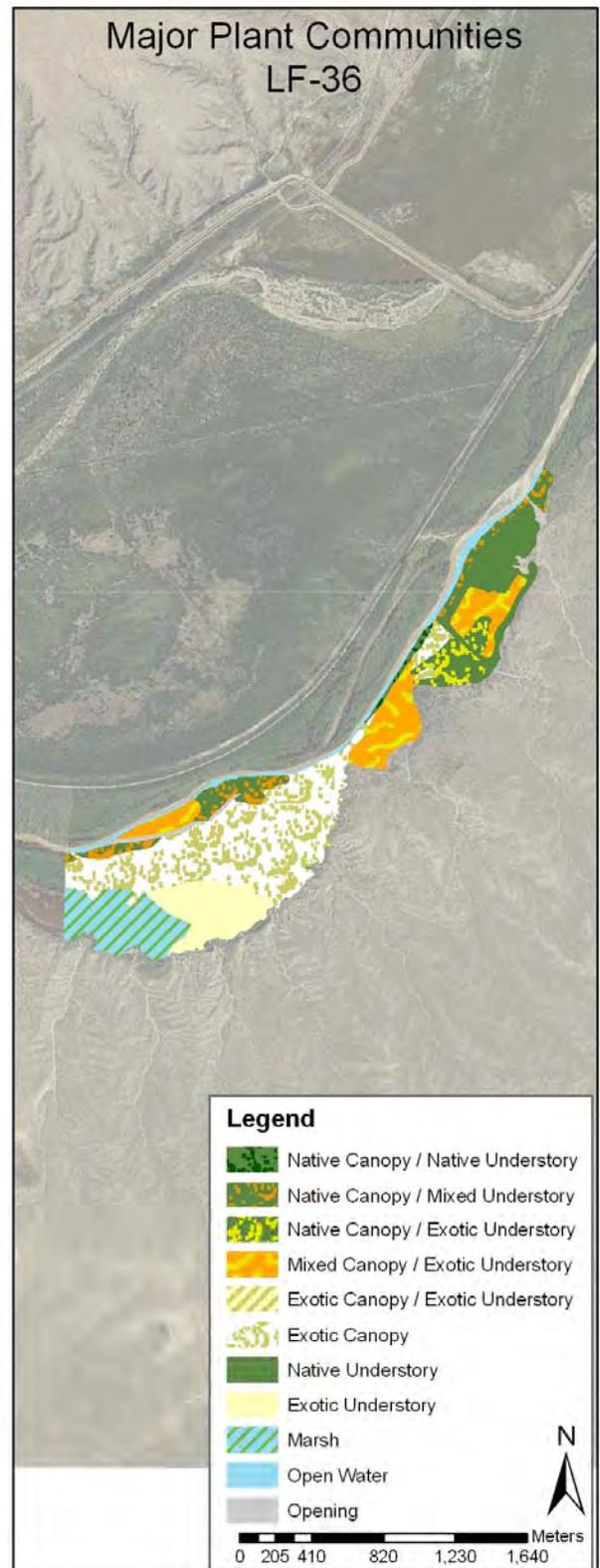
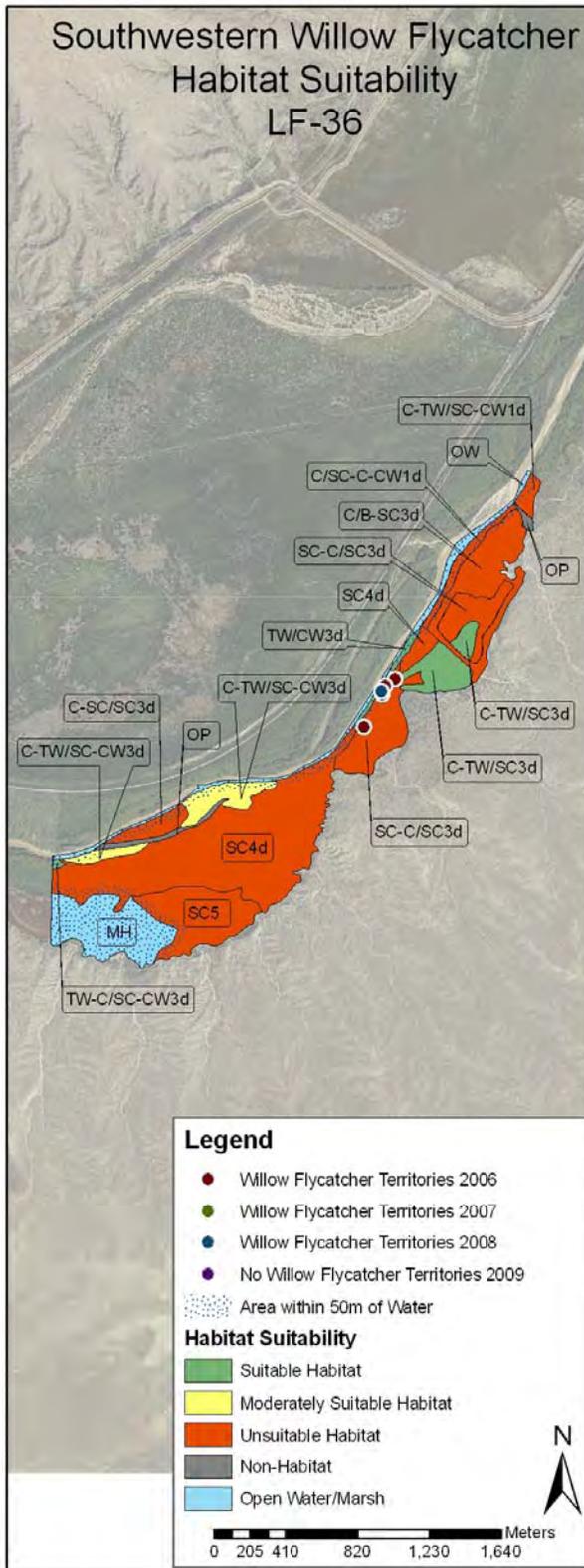
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	27	7%	4	1%
Moderately Suitable	22	6%	9	2%
Unsuitable	313	87%	46	13%
Total Area	362	100%	59	16%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CW3d	4	1%
Native Canopy/Mixed Understory	C/SC-C-CW1d, C-TW/SC-CW1d, C-TW/SC-CW3d, TW-C/SC-CW3d	35	10%
Native Canopy/Exotic Understory	C-TW/SC3d	22	6%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	C-SC/SC3d, SC-C/SC3d	57	16%
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	160	44%
Native Understory	C/B-SC3d	41	11%
Mixed Understory	-	-	-
Exotic Understory	SC5	43	12%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	3	0	3
2007	0	1	1
2008	0	2	2
2009	0	0	0



Survey Site: LF-37

Habitat Acreage

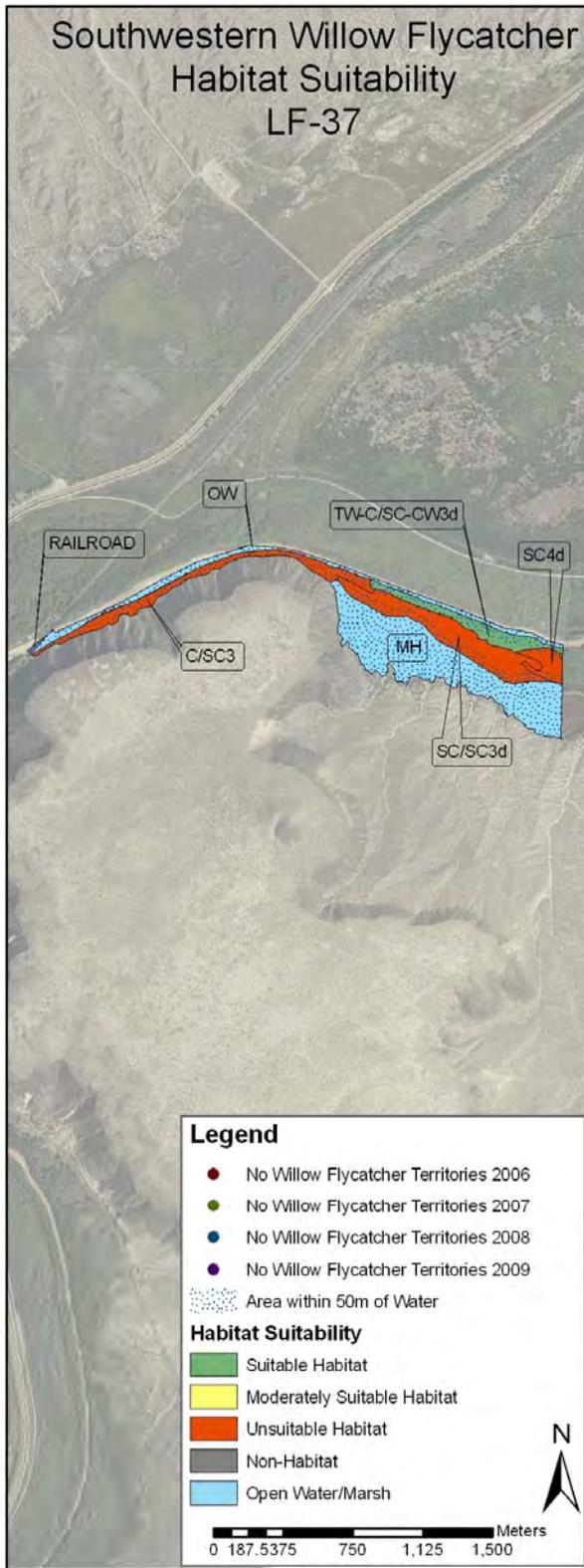
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	14	19%	11	15%
Moderately Suitable	0	0%	0	0%
Unsuitable	60	81%	38	51%
Total Area	74	100%	49	66%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	TW-C/SC-CW3d	14	19%
Native Canopy/Exotic Understory	C/SC3	21	28%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3d	32	43%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4d	7	9%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



San Marcial Reach

Habitat Acreage

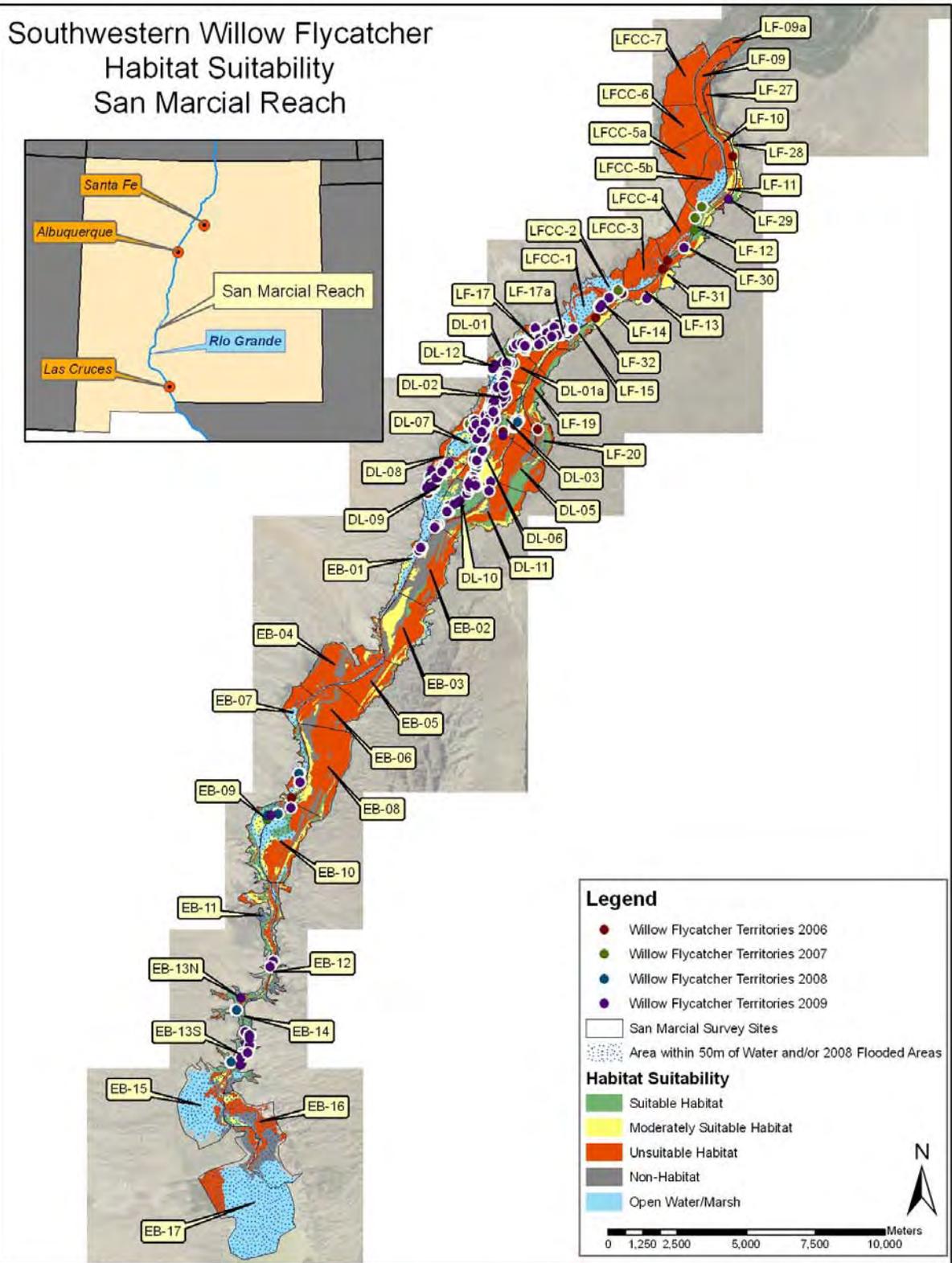
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	2291	16%	1410	10%
Moderately Suitable	1917	14%	803	6%
Unsuitable	9919	70%	2498	18%
Total Area	14,127	100%	4711	34%

Dominant Plant Communities within Reach

Community Type	Species Composition Hink & Ohmart Classification		Acres	Percentage
Native Canopy/Native Understory	TW/CAT-CW3, TW-C/TW3, C-TW/CAT-CWd, TW/CAT1, TW/CW3, TW/CW-CAT3d, C-TW/CW3, TW/CW-TW3, TW/TW3, C/C3, TW/CAT3, TW/TW-CW3d, TW/TW3d, TW/TW-CAT3, TW/TW-CAT3d, C/B3, C/C3, C/C-B3, TW/CW3d, CW-C/CW-B3d, TW-C/TW3d, TW/B3, TW/TW-B3, TW/CAT3d, TW-C/TW-CW3, C-TW/TW3, TW/TW-C3, TW/TW-CAT-CW3, TW-CW/CW3d, TW-C/CW-B3d, TW-C/TW-C3d, C/CW3, C/TW-B3, C-TW/TW-CW3, TW/TW-CW3, TWC/B-TW3, TW-C/TW1, C/CW3, TW-CW/CW3		1471	10%
Native Canopy/Mixed Understory	TW/CW-SC3d, TW/TW-SC3, TW-C/SC-TW3d, C-TW/CW-SC3d, TW-C/C-SC3, C/SC-CW3d, TW/CAT-SC3d, TW/SC-CAT3, TW/SC-TW3, C/SC-B3, TW/SC-B3, TW-C/SC-B3d, TW-C/TW-SC3d, C-TW/B-SC3, TW/SC-TW3, C-TW/SC-TW3, TW/SC-C3, TW/TW-SC-C3, TW-C/TW-C-SC3, TW/SC-B3d, C-TW/TW-B-SC3, TW/SC-CAT3d, TW/SC-TW3d, TW/TW-SC3, TW/TW-SC3d, C-TW/SC-C3, TW/B-SC3, TW/TW-SC3d, TW/SC-CW3, TW/SC-CW3d, TW/SC-TW3d, C/SC-CW3, C/SC-TW-C1, C-TW/SC-CW3, C/SC-TW1d, TW/CW-SC3, TW-C/TW-SC3, TW/TW-SC-CW3, C/TW-SC-B1, C-TW/SC-B3, TW/SC-CAT-TW3d, TW/TW-SC-CAT3, TW/TW-SC-CAT3d, TW/TW-SC-CW3d, C/C-TW-SC3, TW/CAT-TW-SC3, TW/CAT-TW-SC3d, C-TW/SC-B3, C/C-TW-SC1, TW-C/C-SC3, C-TW/SC-TW-SC3d, C/SC-TW-CW3, C-TW/SC-C3d, C-TW/SC-CW3d, C/TW-SC-CW3d, C/SC-CAT1		1125	8%
Native Canopy/Exotic Understory	TW/SC3d, C-TW/SC3, TW/SC3, TW-C/SC3d, C/SC3d, TW-C/SC3, C-TW/SC3d, C/SC3d, C-TW/SC1, C/SC1, C/SC-MHS3		1611	11%
Mixed Canopy/Native Understory	-		-	-
Mixed Canopy/Mixed Understory	TW-SC/TW-SC3d, SC-C/SC-B3d, SC-C/HMS-SC3d		88	1%
Mixed Canopy/Exotic Understory	-		-	-
Exotic Canopy/Native Understory	-		-	-
Exotic Canopy/Mixed Understory	-		-	-
Exotic Canopy/Exotic Understory	SC/SC3		1049	7%
Native Canopy	TW4d, TW4, TW-C4d, TW-C4, C-TW4d, C4d, C4, C2		1004	7%
Mixed Canopy	-		-	-
Exotic Canopy	SC4, SC4d		1114	8%
Native Understory	CAT-CW-TW5d, CW5, TW5, TW-CW5, C5, B-TW5, TW-CAT5, C-B5, CAT-TW5d, CAT-TW-SC5d, B6, B-TW-C5, B5d, B5, B-CAT5, CW-TW-CAT5d, TW5d, TW-C5, CW-CAT5, TW-CAT5d, TW-CAT-CW5d, B6d, TW/SC-B3d, CW-B6, C-TW5, CAT-CW5, CAT-CW5d, CW/TW5d, CW6, C-CW6, CW-C5d, CW-C5, CW-C6d, CW6, TW-C-CW5		393	3%
Mixed Understory	CW-RO5, CW-RO5d, SC-CW6, SC-RO-C5		1665	12%
Exotic Understory	SC5, SC5d, SC6, SC-HM5, SC6d, SC5-RO		4606	33%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	25	117	142
2007	44	153	197
2008	67	168	235
2009	95	224	319



Survey Site: LF-09/09A

Habitat Acreage

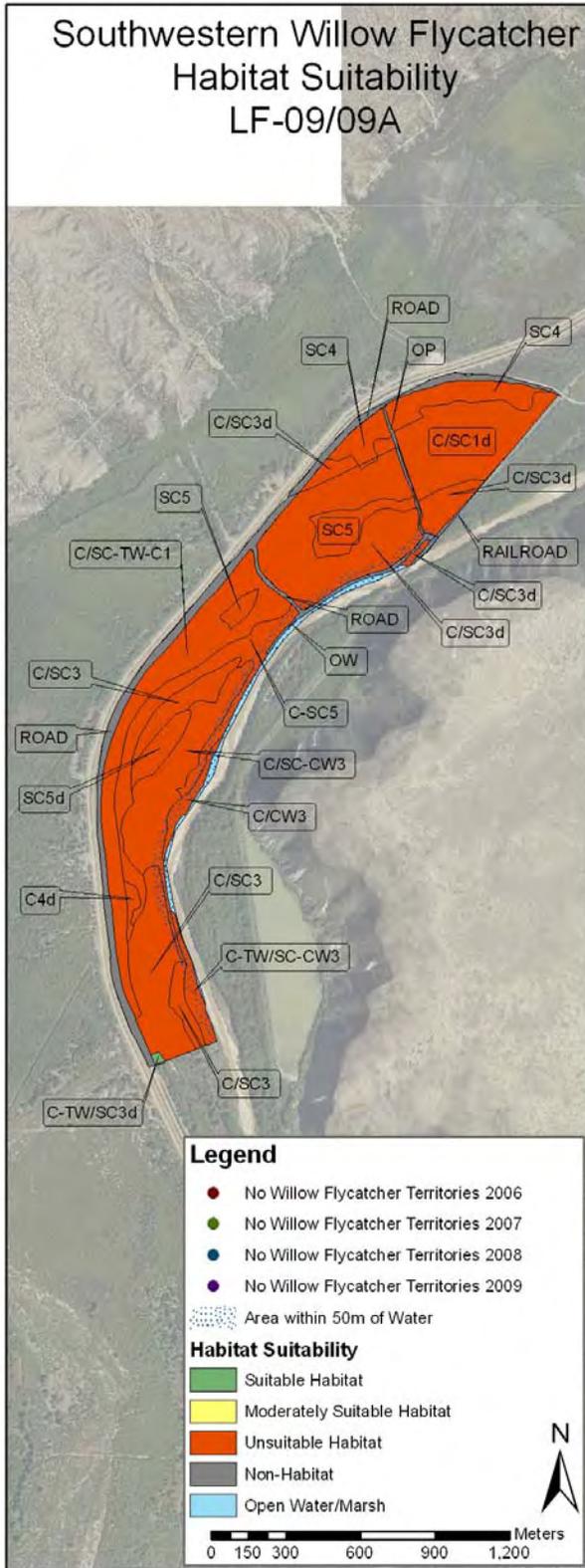
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	294	100%	29	10%
Total Area	294	100%	29	10%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/CW3	4	1%
Native Canopy/Mixed Understory	C/SC-CW3, C/SC-TW-C1, C-TW/SC-CW3	79	27%
Native Canopy/Exotic Understory	C/SC1d, C/SC3, C/SC3d	144	49%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C4d	2	1%
Mixed Canopy	-	-	-
Exotic Canopy	SC4	20	7%
Native Understory	-	-	-
Mixed Understory	C-SC5	26	9%
Exotic Understory	SC5, SC5d	19	6%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-10

Habitat Acreage

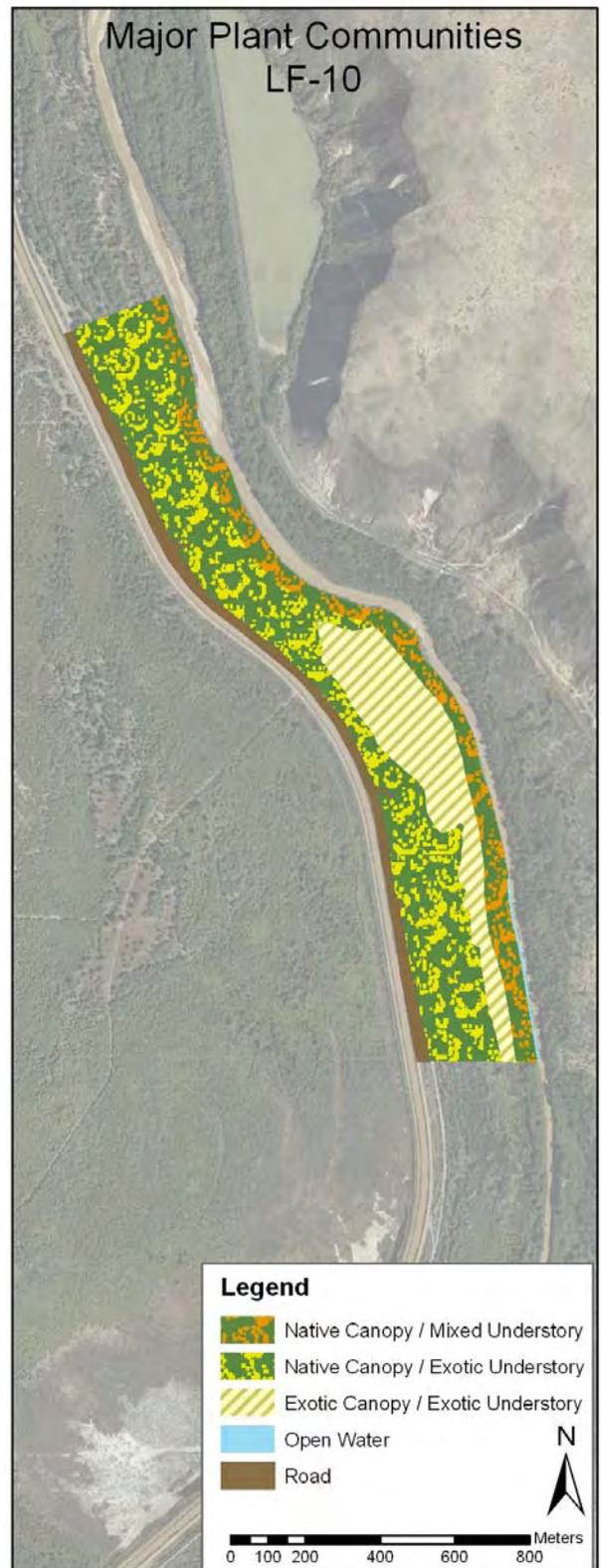
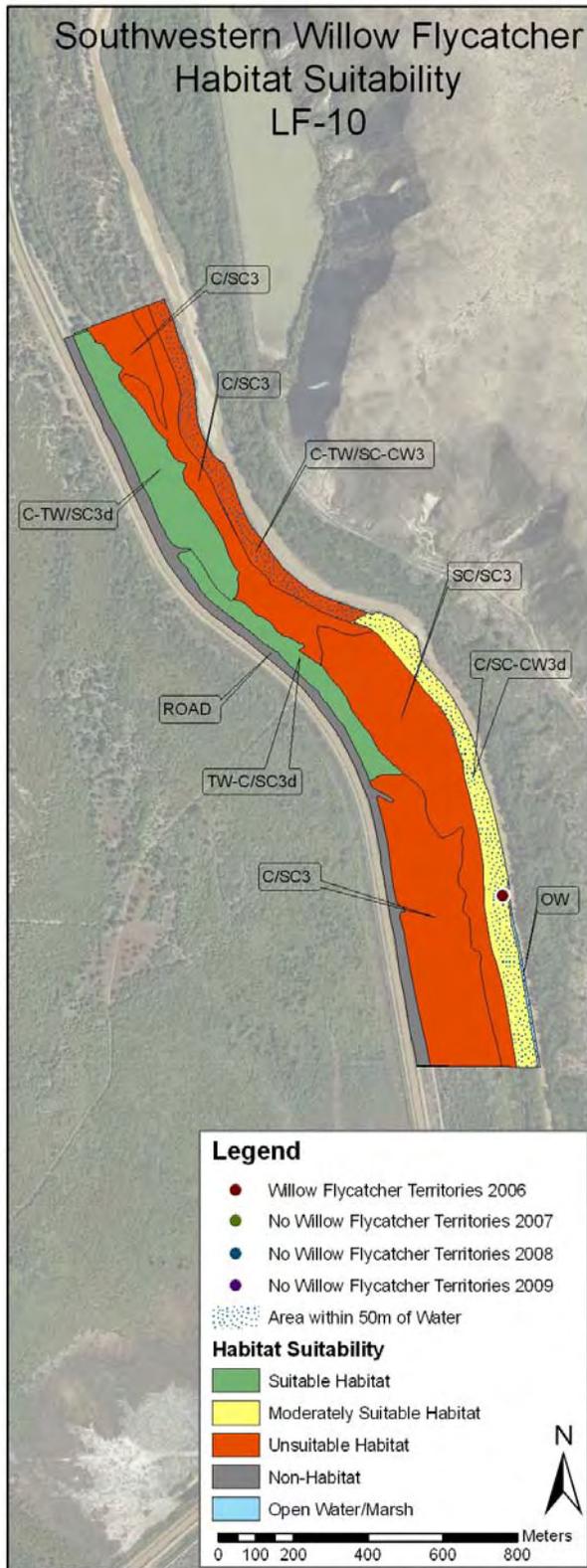
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	28	19%	0	0%
Moderately Suitable	18	12%	16	11%
Unsuitable	101	69%	11	7%
Total Area	147	100%	27	18%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW3d, C-TW/SC-CW3	30	20%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3d, TW-C/SC3d	84	57%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	33	22%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-11

Habitat Acreage

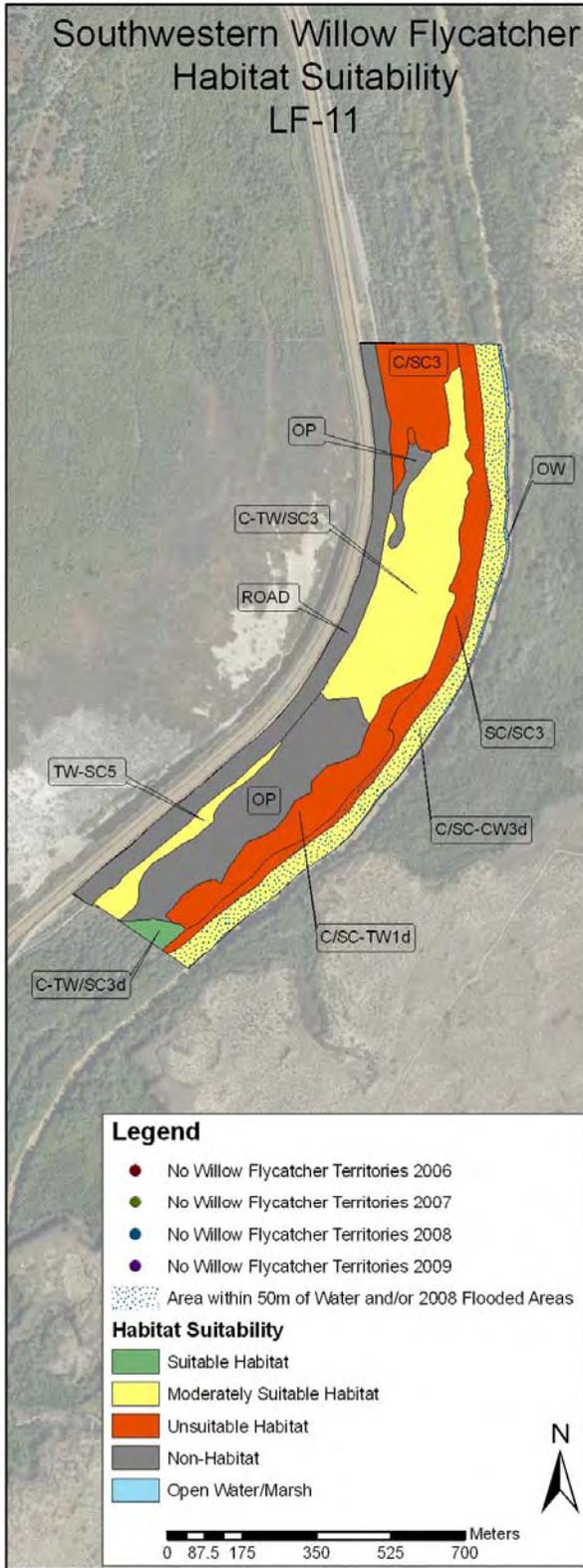
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	1	1%	0	0%
Moderately Suitable	50	57%	19	22%
Unsuitable	37	42%	3	3%
Total Area	88	100%	22	25%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW3d, C/SC-TW1d	31	35%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3, C-TW/SC3d	38	43%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	15	17%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	TW-SC5	4	5%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-12

Habitat Acreage

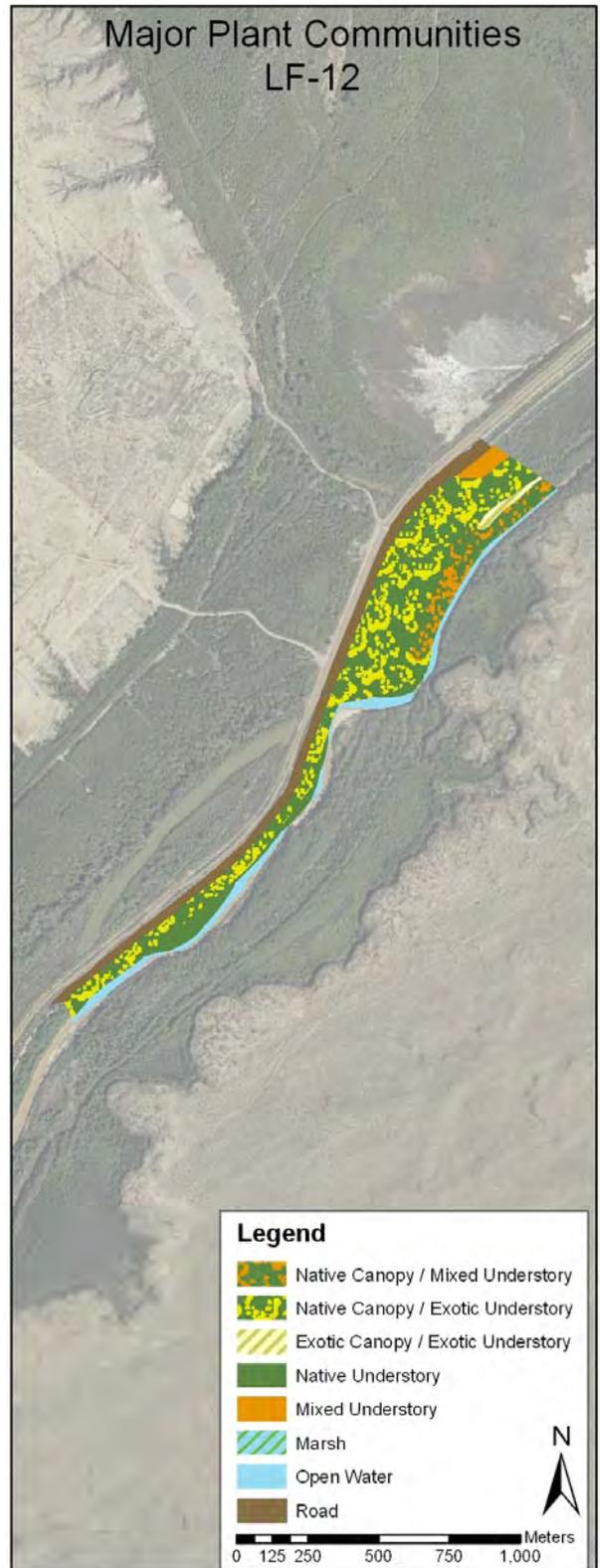
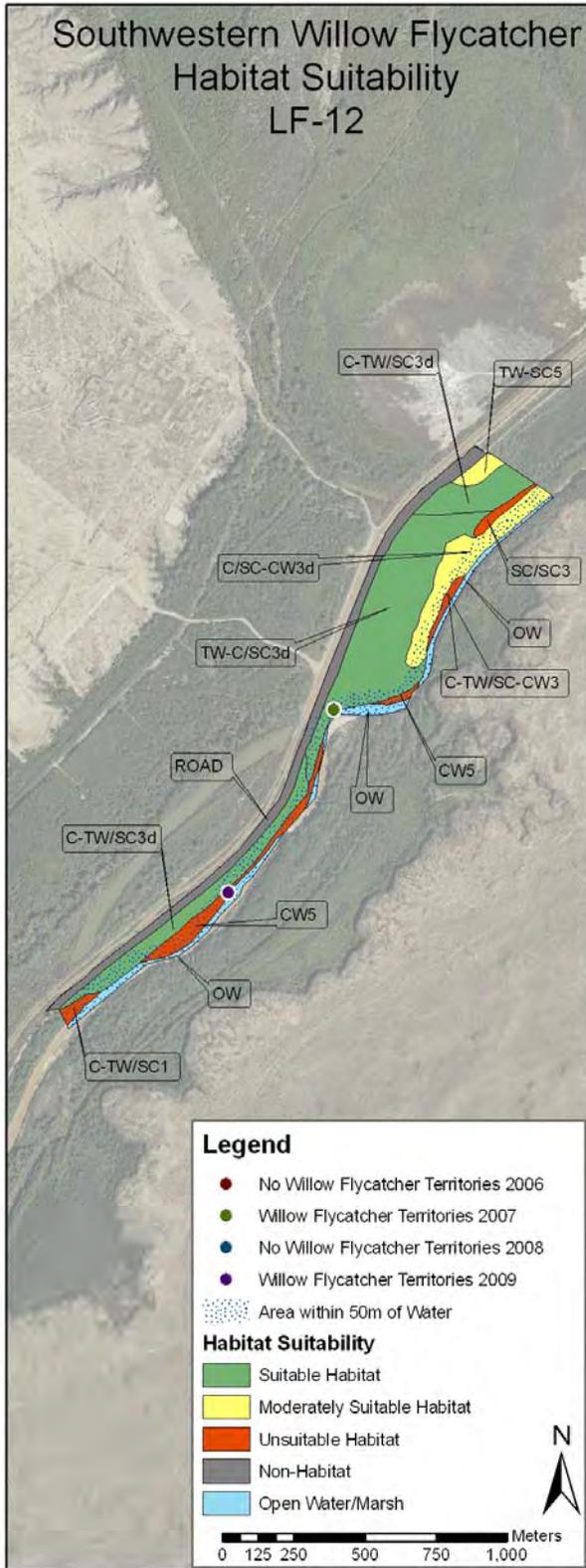
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	64	71%	15	17%
Moderately Suitable	15	17%	8	9%
Unsuitable	11	12%	10	11%
Total Area	90	100%	33	37%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW3d, C-TW/SC-CW3	14	16%
Native Canopy/Exotic Understory	C-TW/SC1, C-TW/SC3d, TW-C/SC3d	65	72%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	2	2%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	7	8%
Mixed Understory	TW-SC5	2	2%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	1	0	1



Survey Site: LF-13

Habitat Acreage

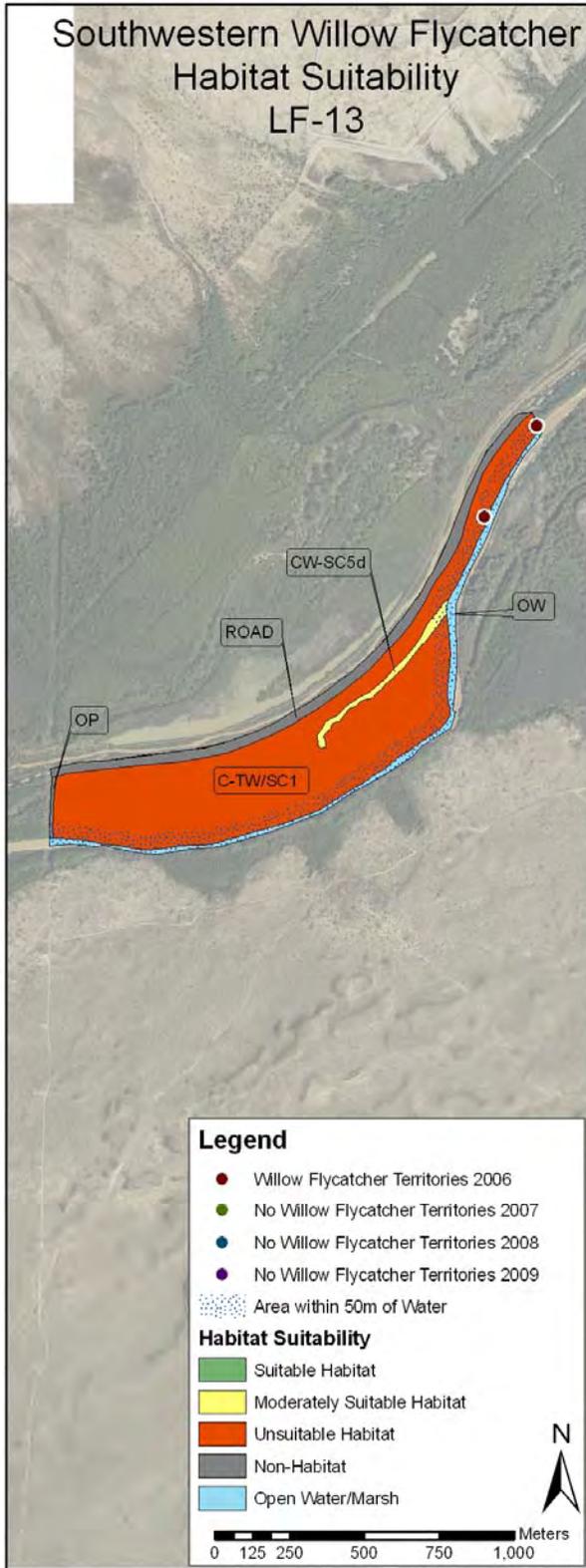
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	3	3%	1	1%
Unsuitable	113	97%	30	26%
Total Area	116	100%	31	27%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C-TW/SC1	113	97%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW-SC5d	3	3%
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	0	2
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-14

Habitat Acreage

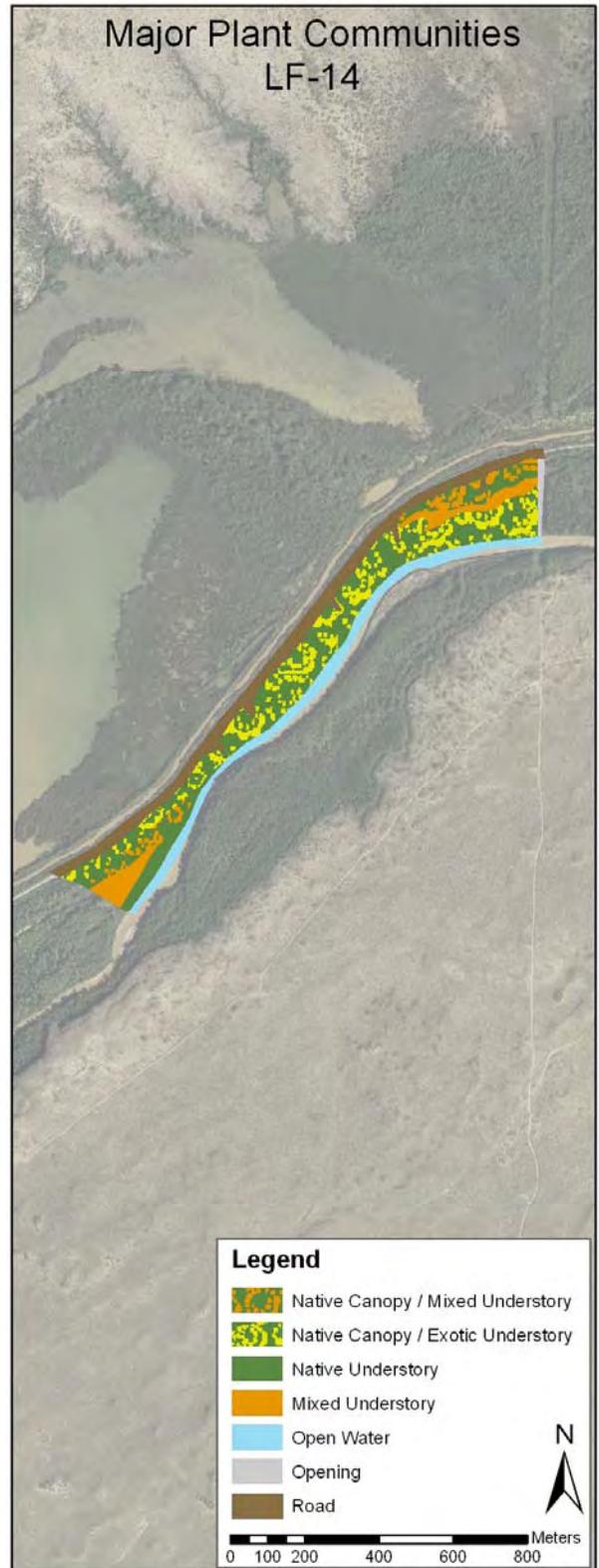
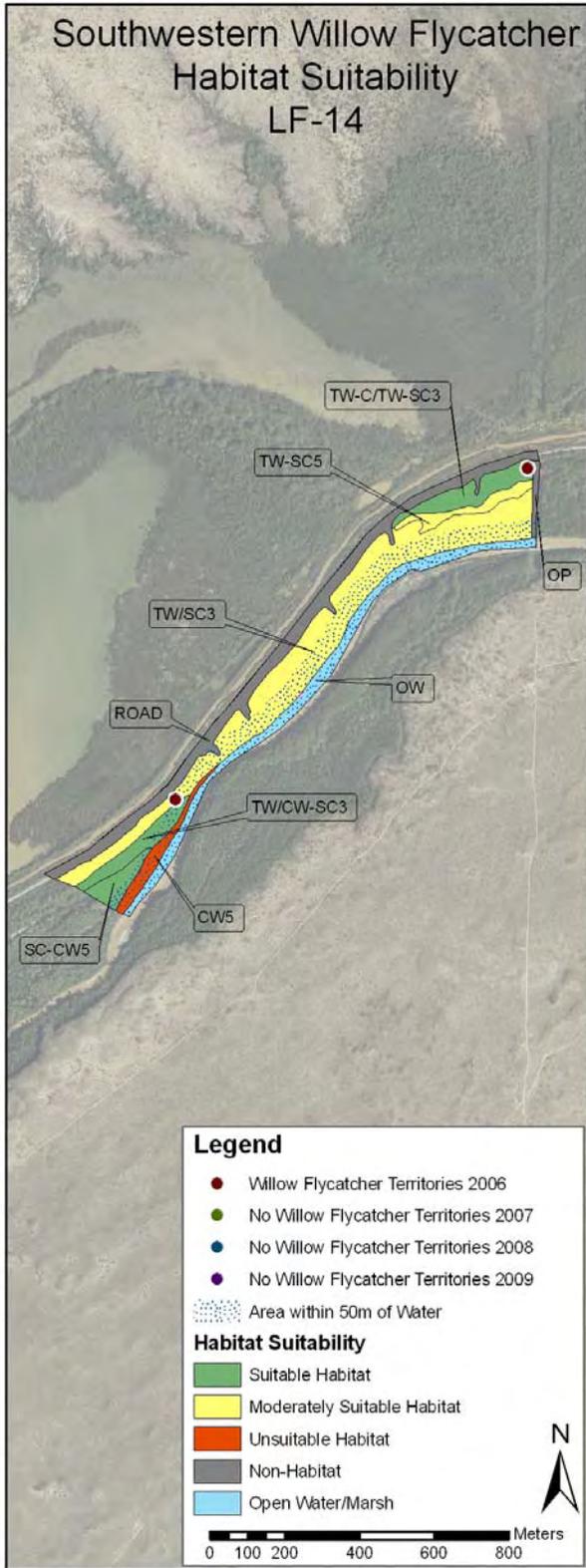
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	10	23%	2	4%
Moderately Suitable	31	70%	15	34%
Unsuitable	3	7%	3	7%
Total Area	44	100%	20	45%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	TW/CW-SC3, TW-C/TW-SC3	7	16%
Native Canopy/Exotic Understory	TW/SC3	28	64%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	3	7%
Mixed Understory	SC-CW5, TW-SC3	5	11%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	0	2
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-15

Habitat Acreage

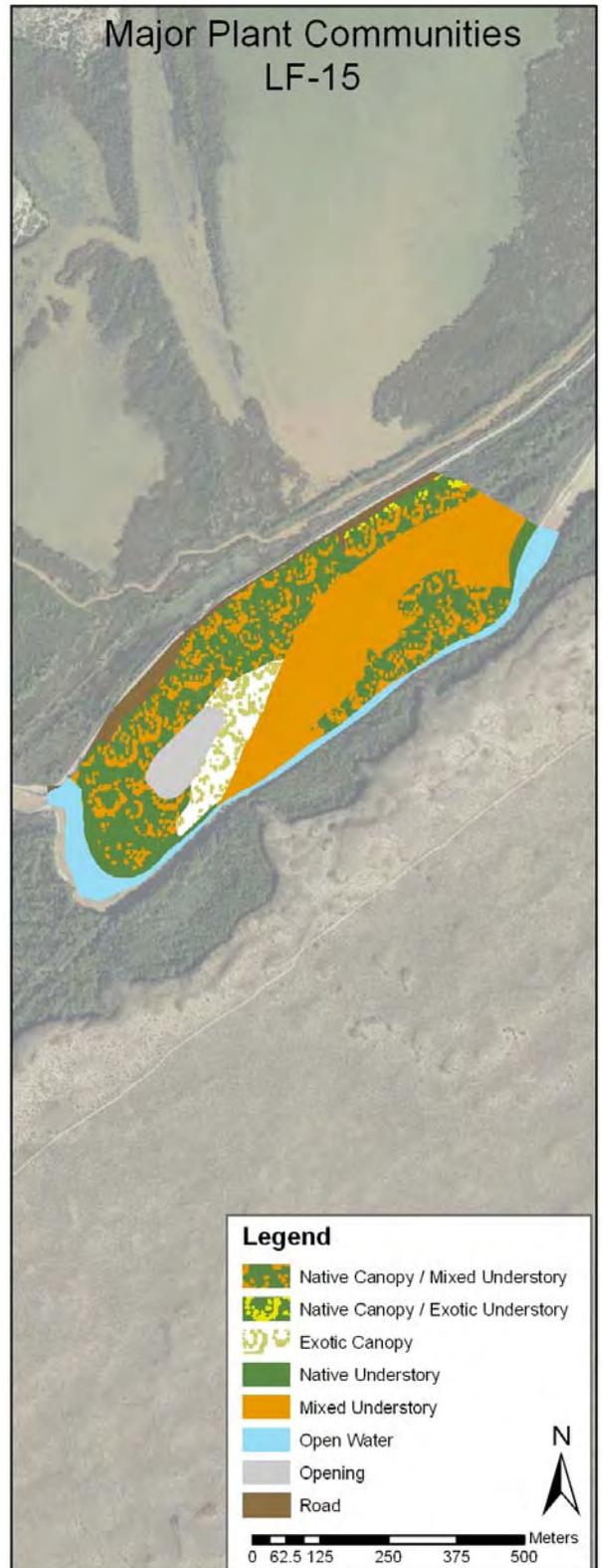
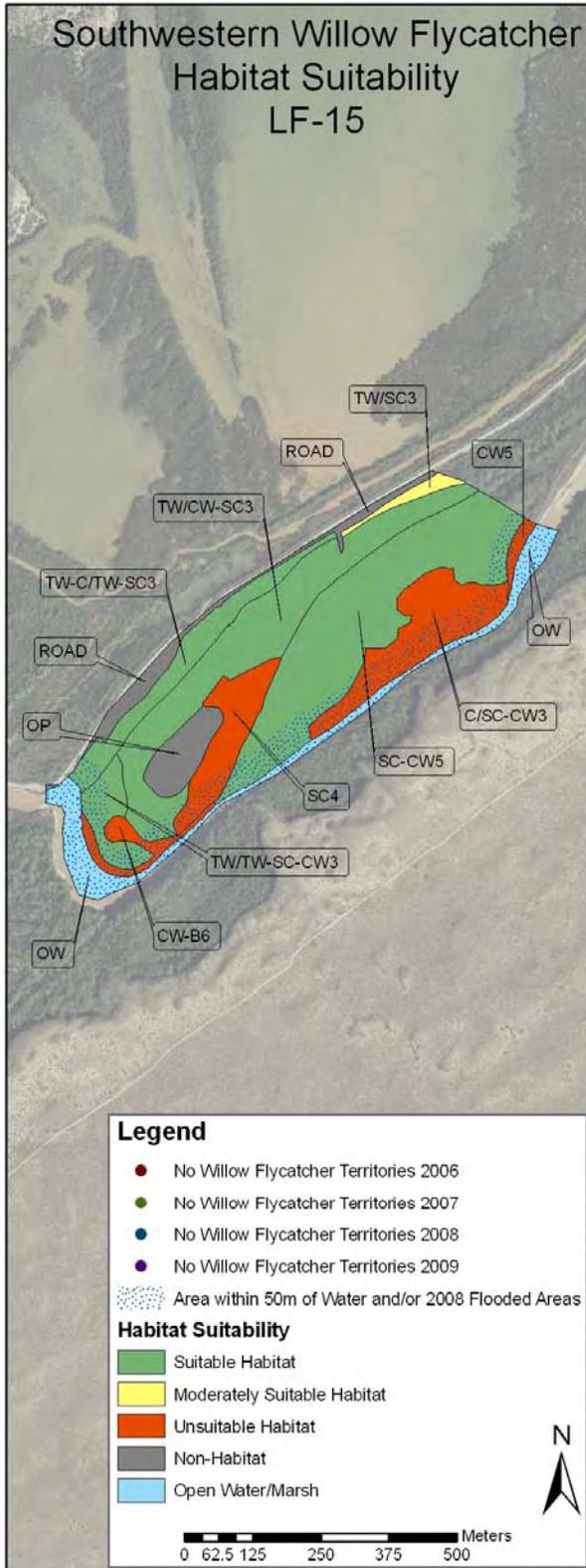
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	44	73%	7	12%
Moderately Suitable	1	2%	0	0%
Unsuitable	15	25%	8	13%
Total Area	60	100%	15	25%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CW3, TW/CW-SC3, TW/TW-SC-CW3, TW-C/TW-SC3	31	52%
Native Canopy/Exotic Understory	TW/SC3	1	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	5	8%
Native Understory	CW5, CW-B6	2	3%
Mixed Understory	SC-CW5	21	35%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-16

Habitat Acreage

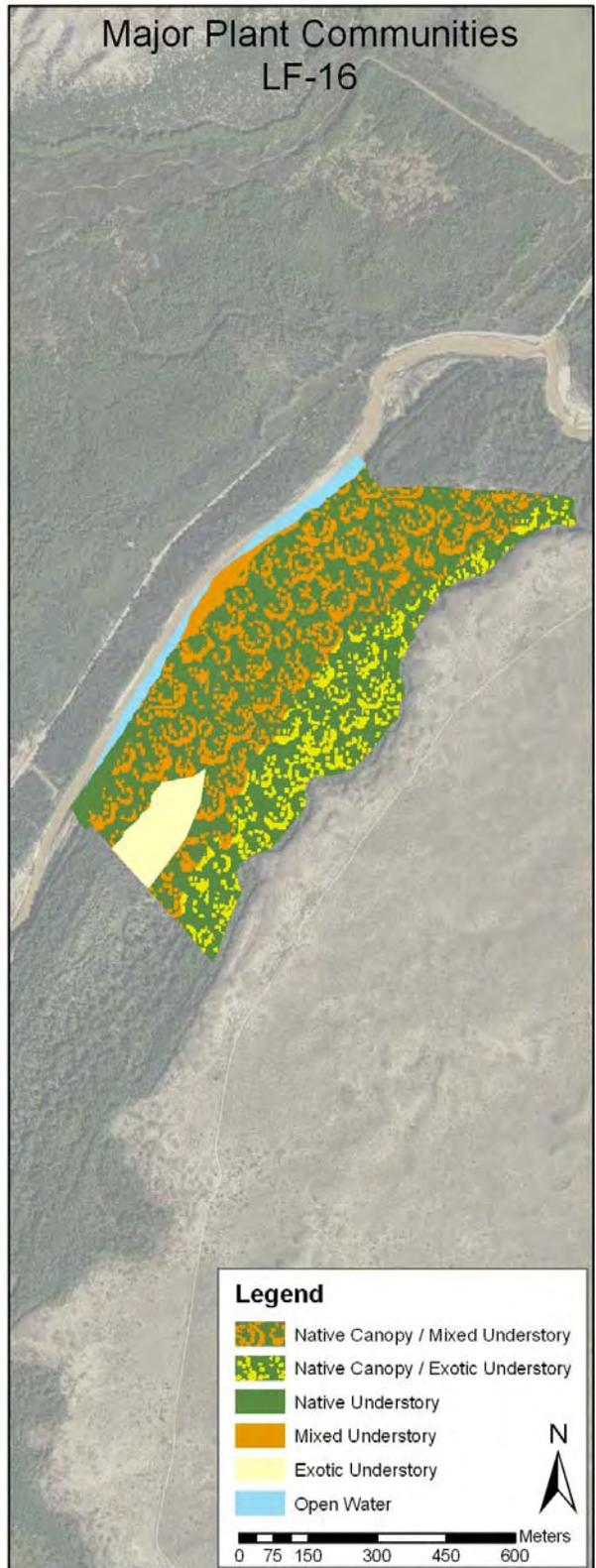
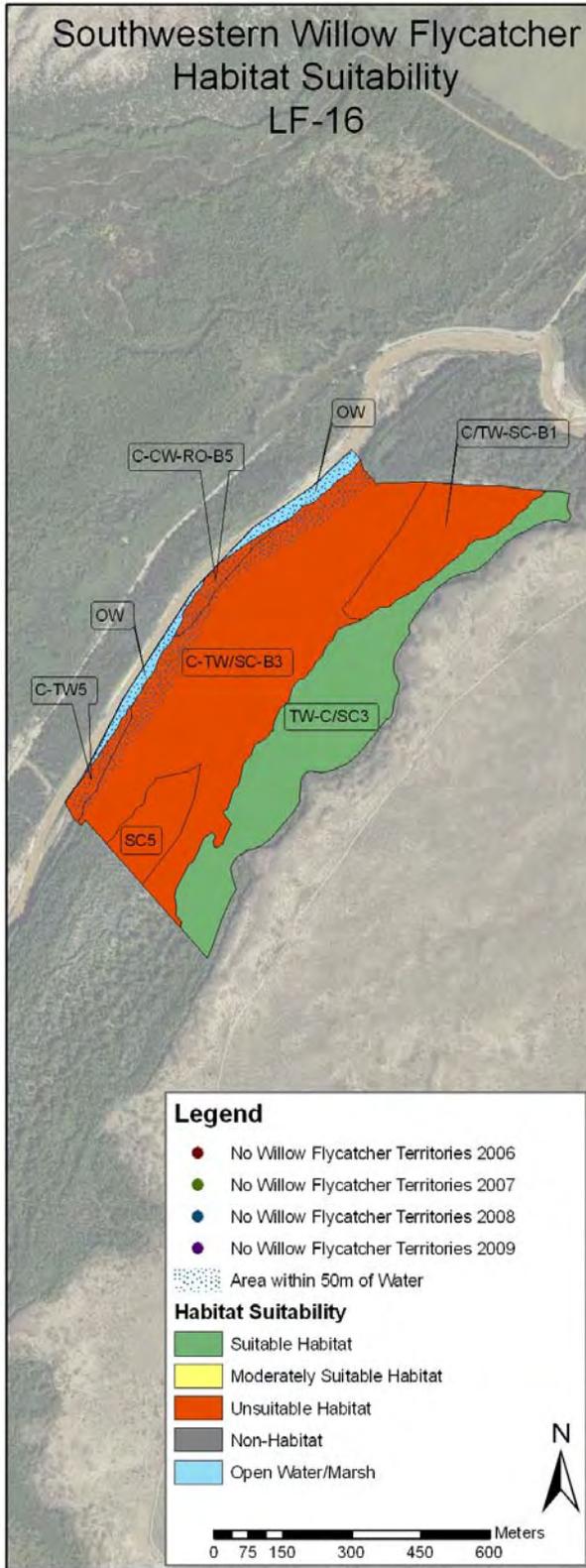
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	32	29%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	80	71%	13	12%
Total Area	112	100%	13	12%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/TW-SC-B1, C-TW/SC-B3	70	63%
Native Canopy/Exotic Understory	TW-C/SC3	32	29%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-TW5	2	2%
Mixed Understory	C-CW-RO-B5	2	2%
Exotic Understory	SC5	6	5%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-17

Habitat Acreage

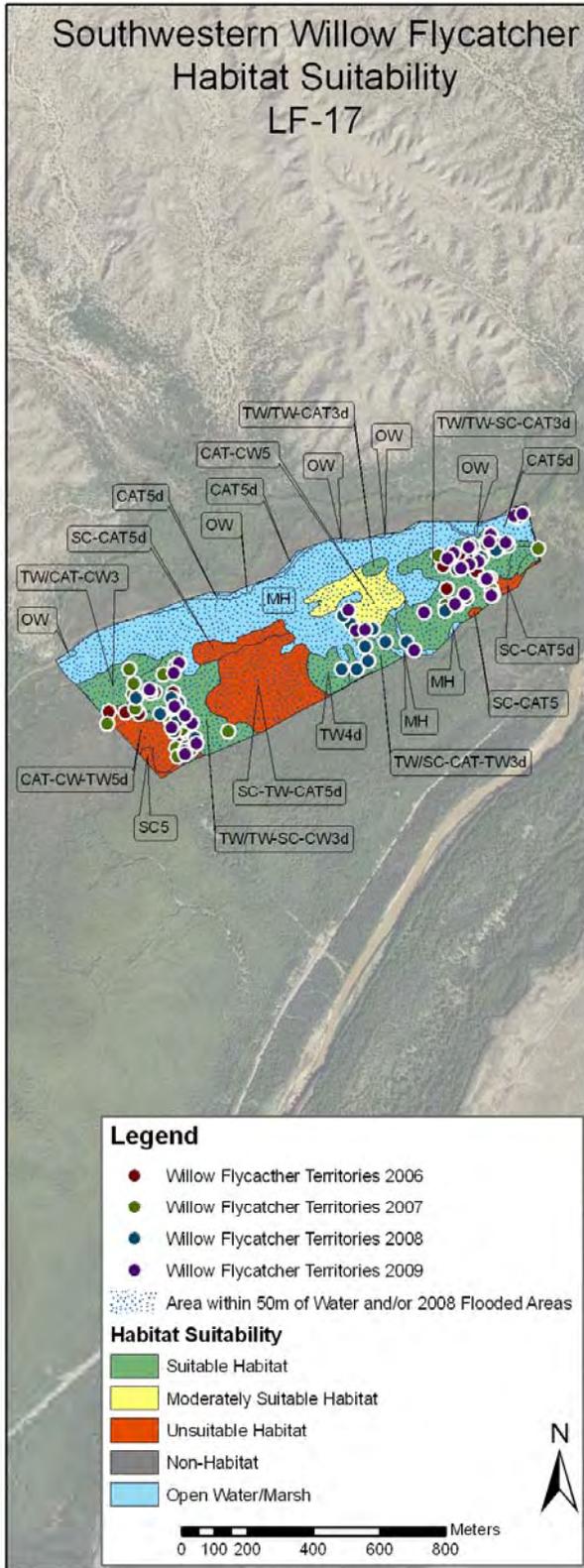
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	48	58%	48	58%
Moderately Suitable	8	10%	8	10%
Unsuitable	27	32%	27	32%
Total Area	83	100%	83	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CAT-CW3, TW/TW-CAT3d	7	8%
Native Canopy/Mixed Understory	TW/SC-CAT3, TW/SC-CAT-TW3d, TW/TW-SC-CAT3, TW/TW-SC-CAT3d, TW/TW-SC-CW3d	38	46%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d	3	4%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-CW5, CAT-CW-TW5d	13	16%
Mixed Understory	SC-CAT5d, SC-TW-CAT5d	21	25%
Exotic Understory	SC5	1	1%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	3	17	20
2007	7	19	26
2008	13	19	32
2009	7	23	30



Survey Site: LF-17A

Habitat Acreage

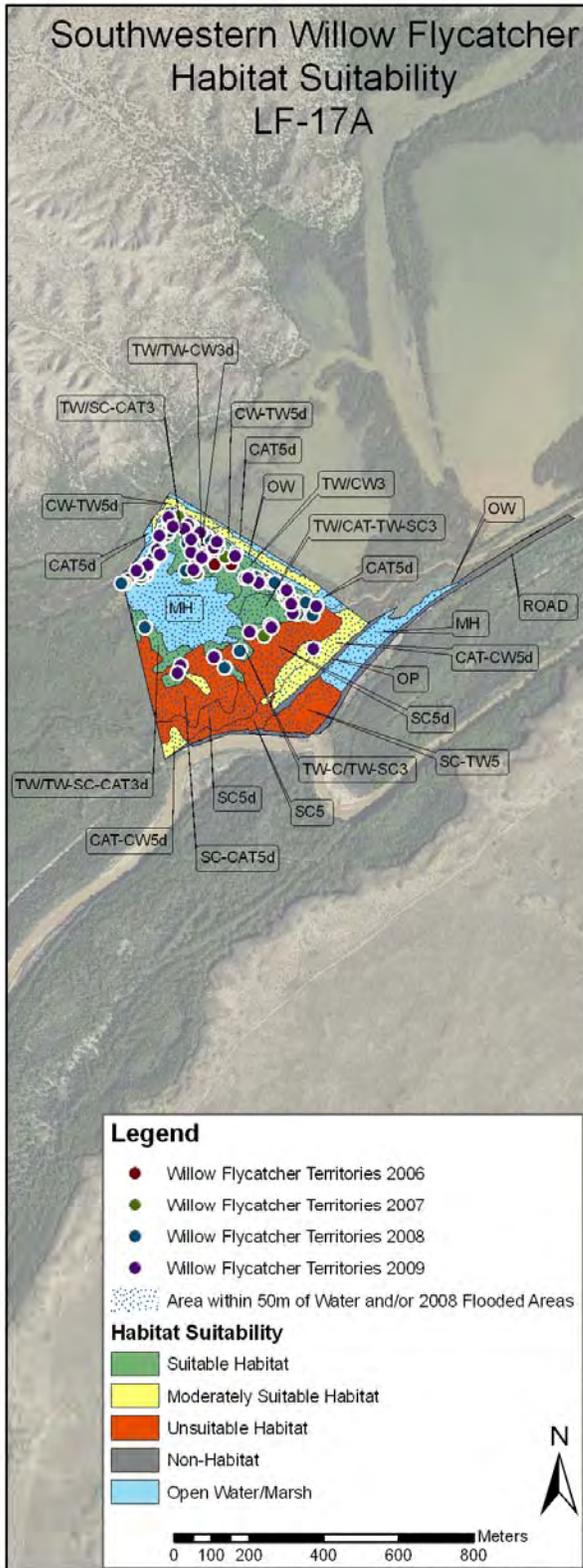
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	20	38%	20	38%
Moderately Suitable	9	17%	9	17%
Unsuitable	24	45%	24	45%
Total Area	53	100%	53	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CW3, TW/TW-SC-CAT3d	6	11%
Native Canopy/Mixed Understory	C/C-TW-SC3, TW/CAT-TW-SC3, TW/CAT-TW-SC3d, TW/SC-CAT3, TW/TW-SC-CAT3d, TW-C/TW-SC3	15	28%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy		-	-
Mixed Canopy		-	-
Exotic Canopy		-	-
Native Understory	CAT-CW5d, CW-TW5d	7	13%
Mixed Understory	SC-CAT5d, SC-TW5	12	23%
Exotic Understory	SC5, SC5d	13	25%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	18	18
2007	1	25	26
2008	1	27	28
2009	4	25	29



Survey Site: LF-17B

Habitat Acreage

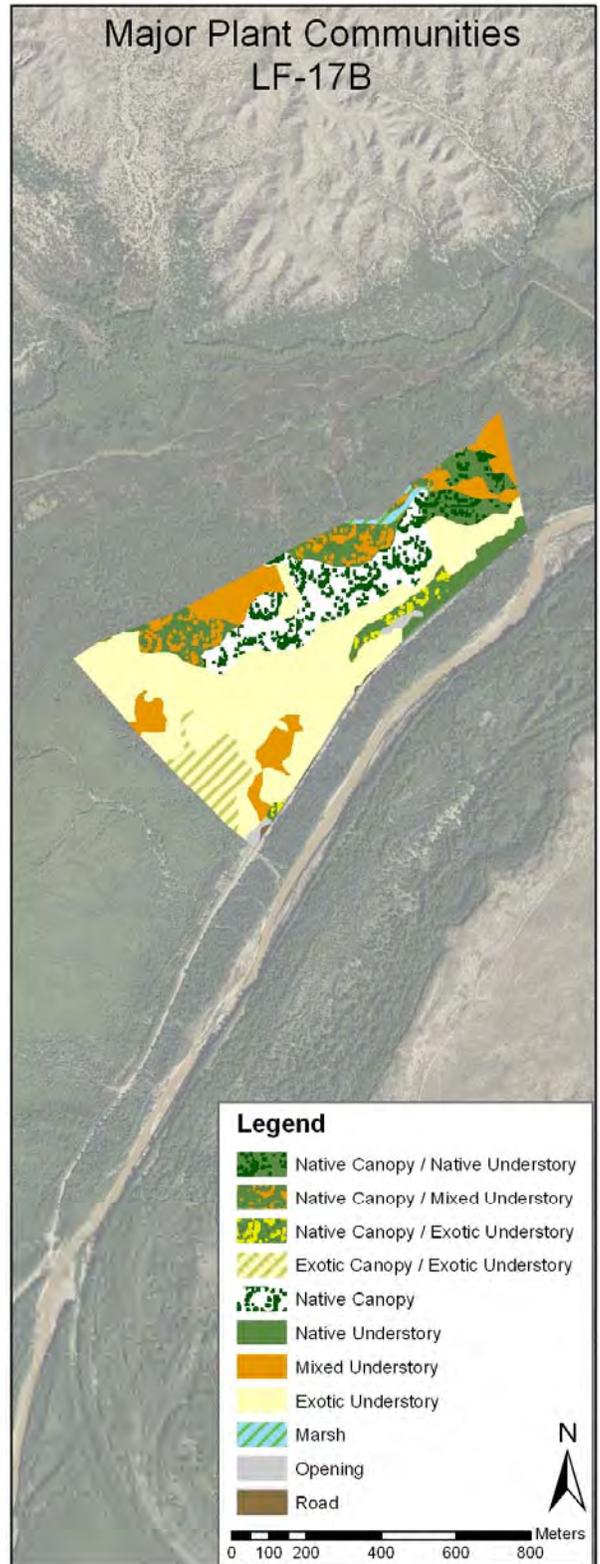
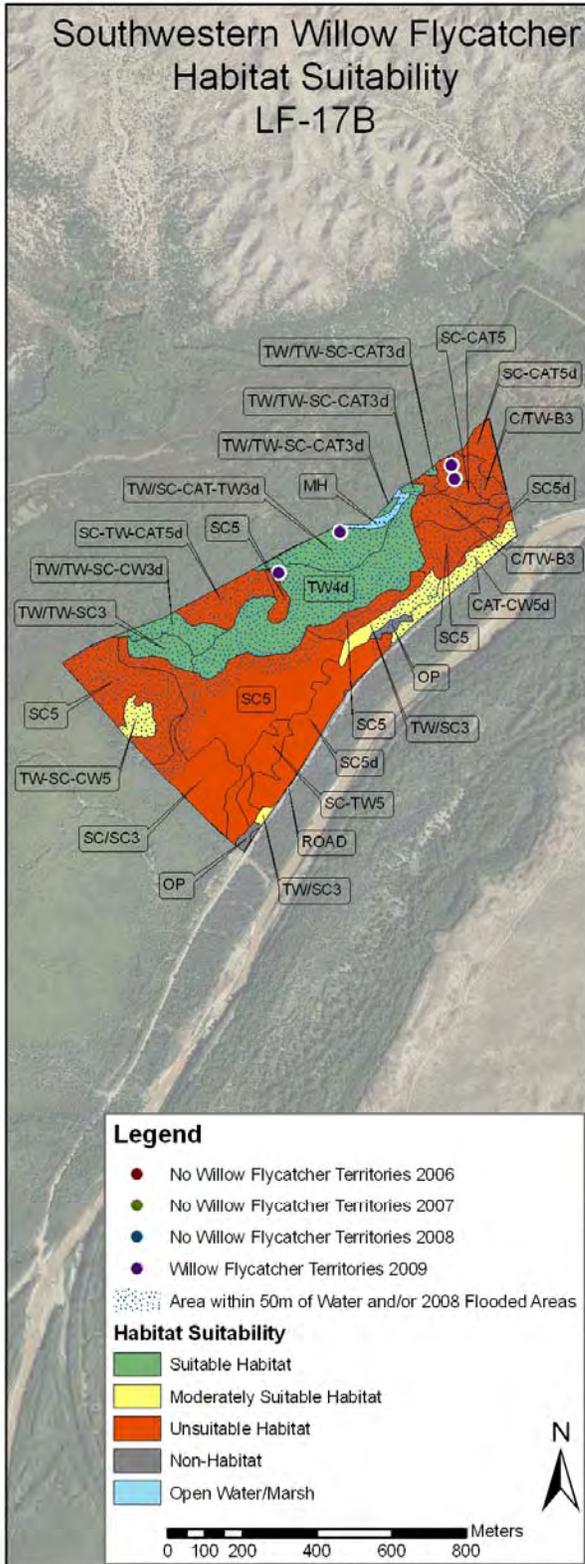
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	33	26%	33	26%
Moderately Suitable	9	7%	8	7%
Unsuitable	83	67%	49	39%
Total Area	125	100%	90	72%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/TW-B3	7	6%
Native Canopy/Mixed Understory	TW/SC-CAT-TW3d, TW/TW-SC3, TW/TW-SC-CAT3d, TW/TW-SC-CW3d	12	10%
Native Canopy/Exotic Understory	TW/SC3	3	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	7	6%
Native Canopy	TW4d	21	17%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-CW5d	4	3%
Mixed Understory	SC-CAT5, SC-CAT5d, SC-TW5d, TW-SC-CW5	15	12%
Exotic Understory	SC5, SC5d	56	44%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	2	2	4



Survey Site: LF-18

Habitat Acreage

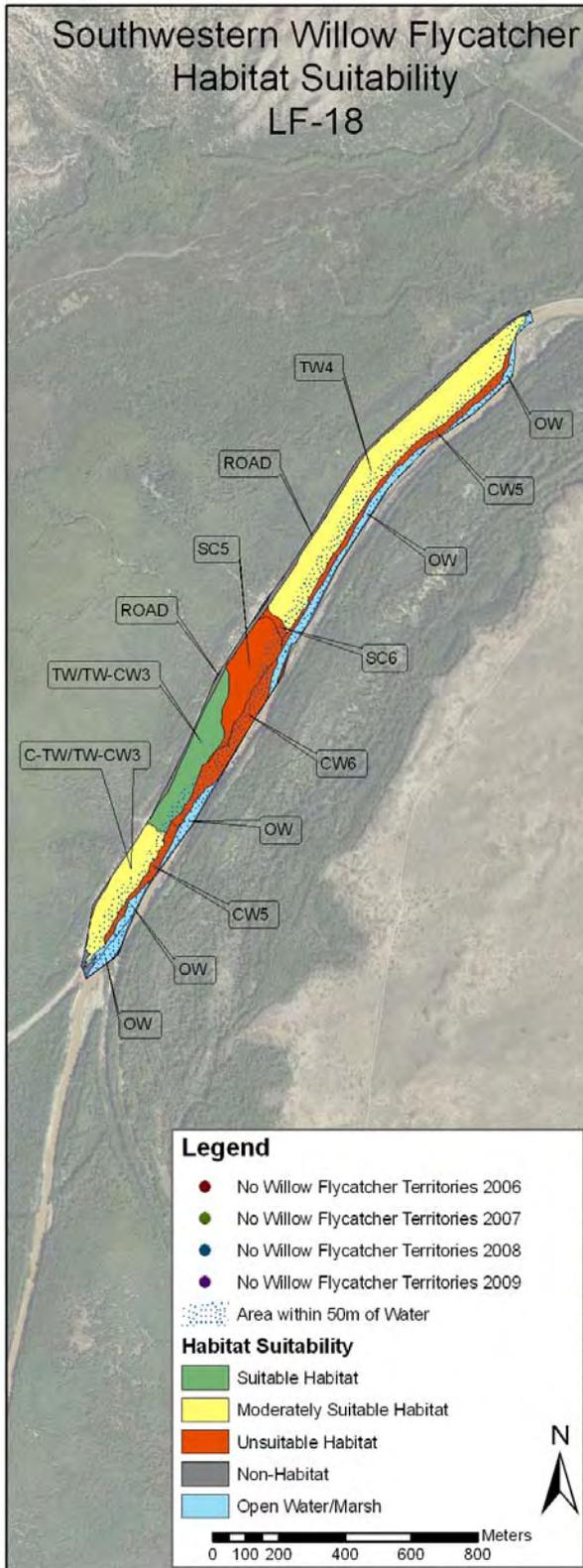
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	8	14%	1	2%
Moderately Suitable	31	52%	14	24%
Unsuitable	20	34%	13	22%
Total Area	59	100%	28	48%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C-TW/TW-CW3, TW/TW-CW3	15	25%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	24	41%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5, CW6	12	20%
Mixed Understory	-	-	-
Exotic Understory	SC5, SC6	8	14%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-19

Habitat Acreage

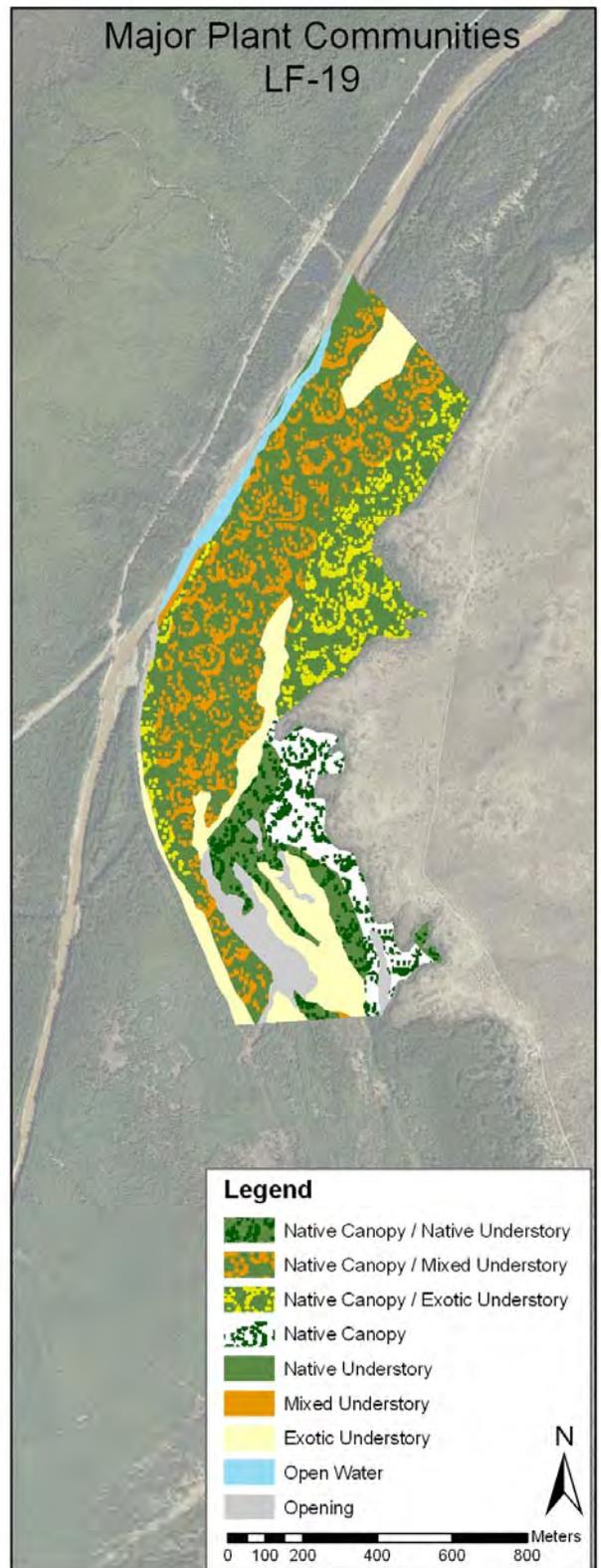
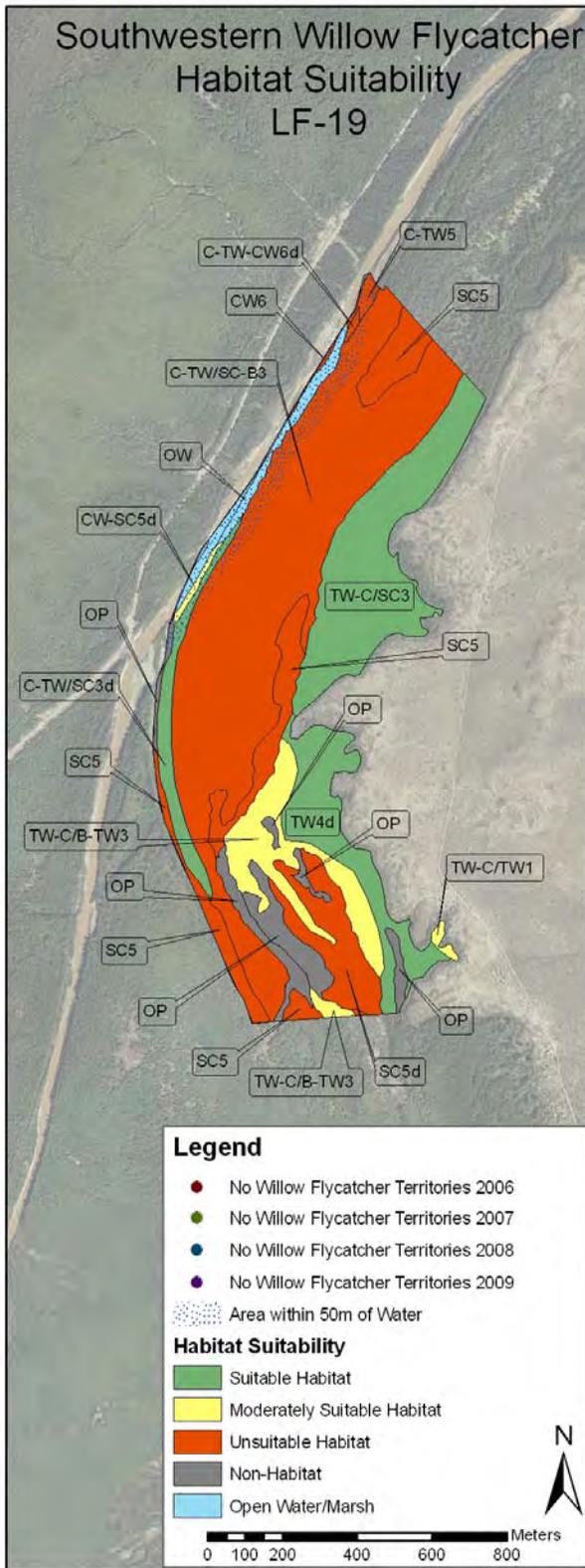
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	63	29%	2	1%
Moderately Suitable	19	9%	1	0%
Unsuitable	132	62%	11	5%
Total Area	214	100%	14	6%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-C/B-TW3, TW-C/TW1	18	8%
Native Canopy/Mixed Understory	C-TW/SC-B3	97	45%
Native Canopy/Exotic Understory	C-TW/SC3d, TW-C/SC3	44	21%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d	19	9%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-TW5	1	0%
Mixed Understory	CW-SC5d	1	0%
Exotic Understory	SC5, SC5d	34	16%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-20

Habitat Acreage

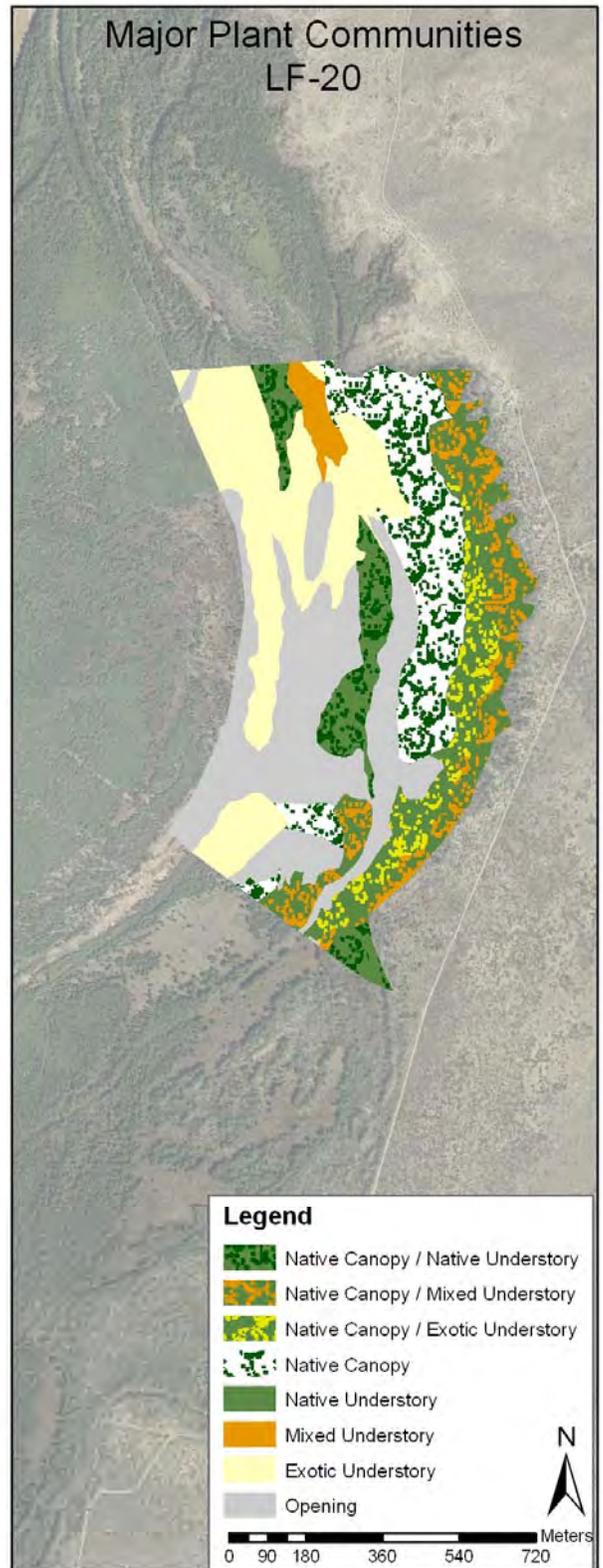
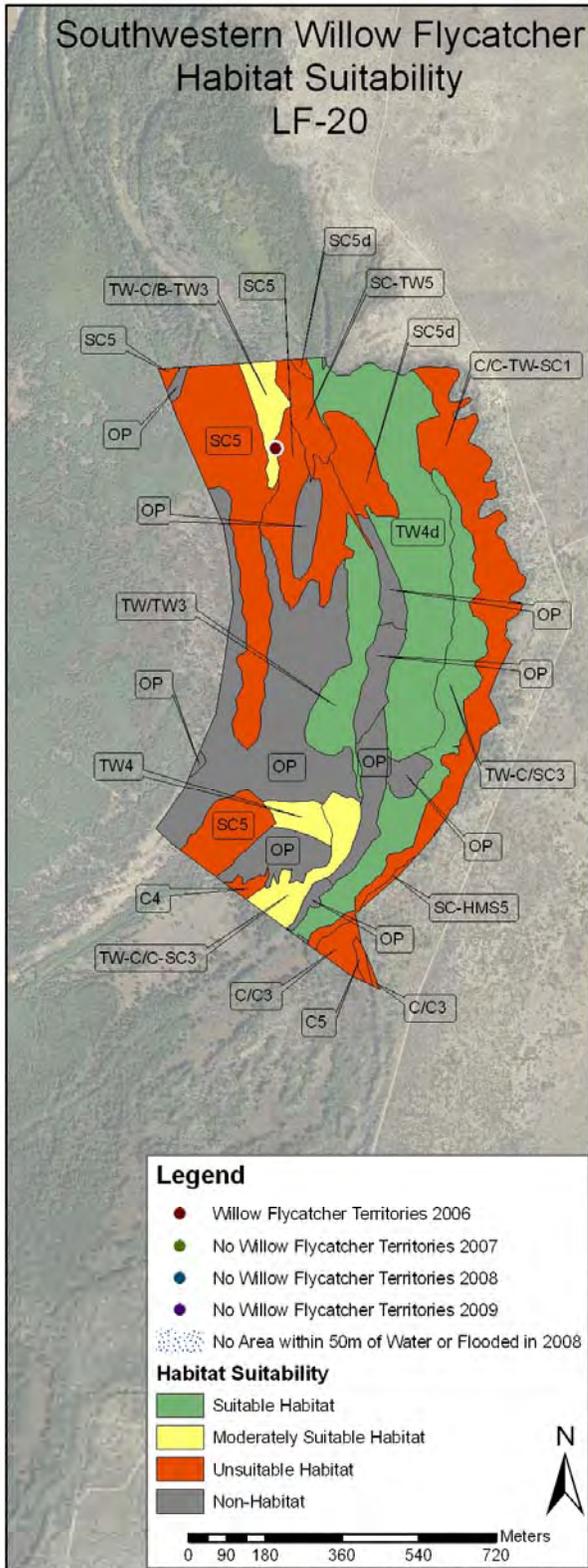
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	60	41%	1	1%
Moderately Suitable	12	8%	0	0%
Unsuitable	75	51%	0	0%
Total Area	147	100%	1	1%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/C3, TW/TW3, TW-C/B-TW3	16	11%
Native Canopy/Mixed Understory	C/C-TW-SC1, TW-C/C-SC3	29	20%
Native Canopy/Exotic Understory	TW-C/SC3	18	12%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C4, TW4, TW4d	35	24%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C5	1	1%
Mixed Understory	SC-TW5	4	3%
Exotic Understory	SC5, SC5d	44	30%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-27

Habitat Acreage

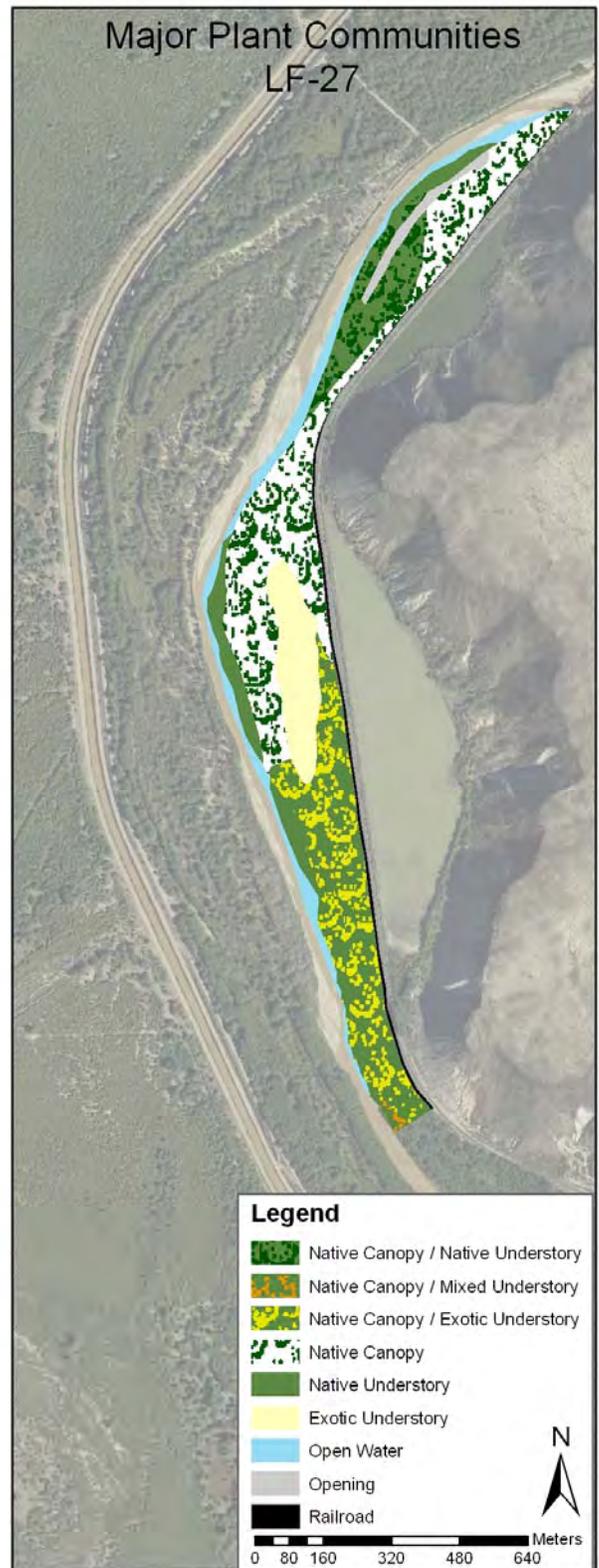
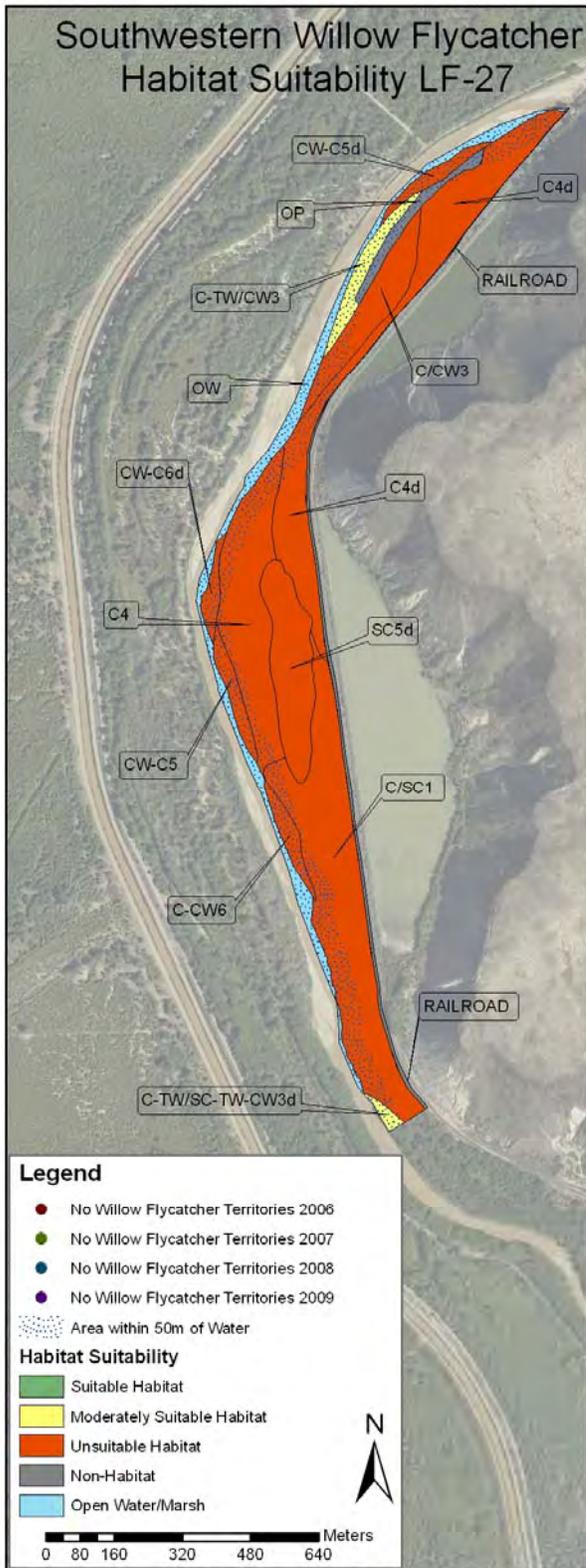
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	4	4%	4	4%
Unsuitable	89	96%	29	31%
Total Area	93	100%	33	35%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/CW3, C-TW/CW3	10	11%
Native Canopy/Mixed Understory	C-TW/SC-TW-CW3d	1	1%
Native Canopy/Exotic Understory	C/SC1	28	30%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C4, C4d	36	39%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C-CW6, C-CW5, C-CW5d, CW-C6d	8	9%
Mixed Understory	-	-	-
Exotic Understory	SC5d	10	11%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-28

Habitat Acreage

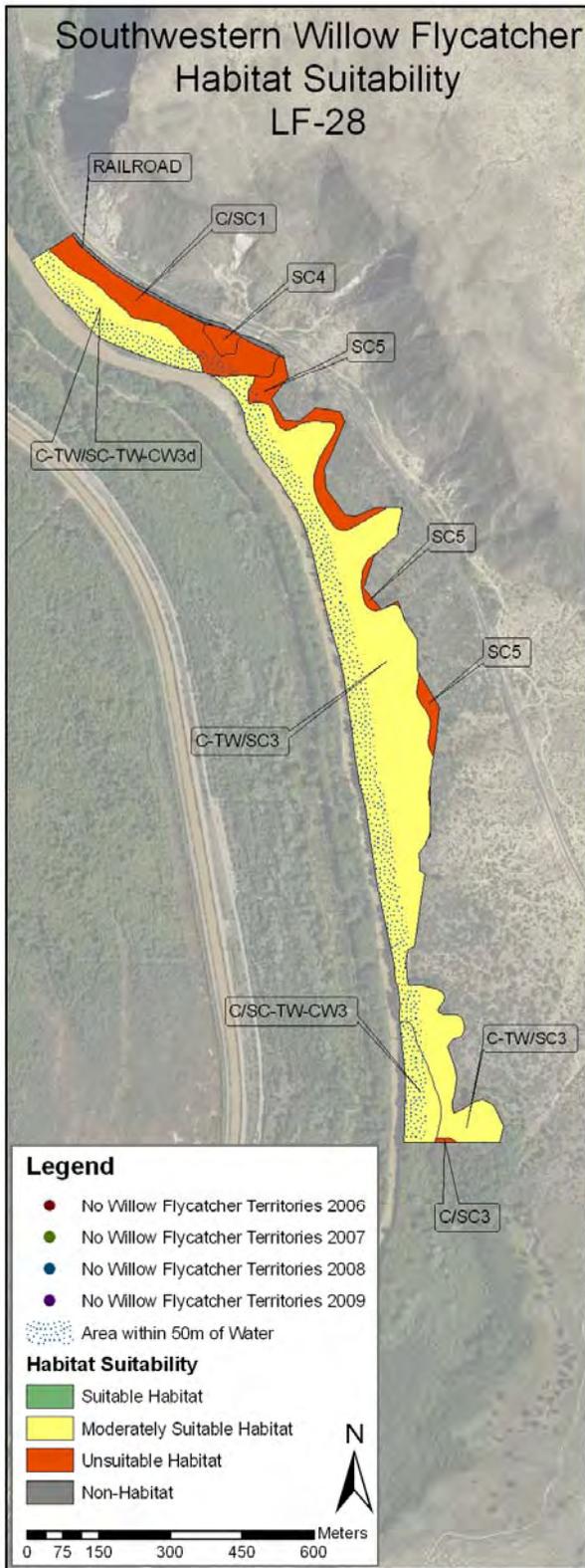
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	53	80%	22	33%
Unsuitable	13	20%	1	2%
Total Area	66	100%	23	35%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-TW-CW3, C-TW/SC-TW-CW3d	10	15%
Native Canopy/Exotic Understory	C/SC1, C-TW/SC3	50	76%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	1	2%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5	5	7%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-29

Habitat Acreage

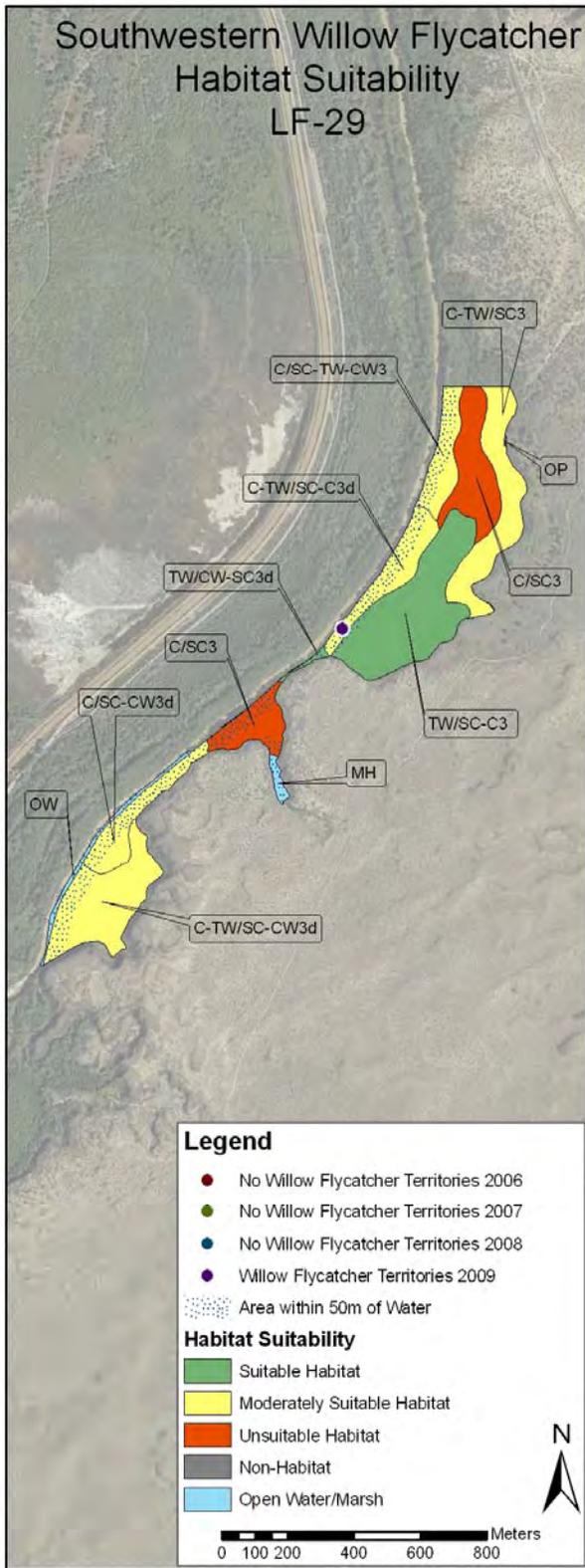
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	25	27%	1	1%
Moderately Suitable	52	55%	19	20%
Unsuitable	17	18%	4	4%
Total Area	94	100%	24	25%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-TW-CW3d, C/SC-TW-CW3, C-TW/SC-CW3d, TW/CW-SC3d, TW/SC-C3	62	66%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3	32	34%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	1	1



Survey Site: LF-30

Habitat Acreage

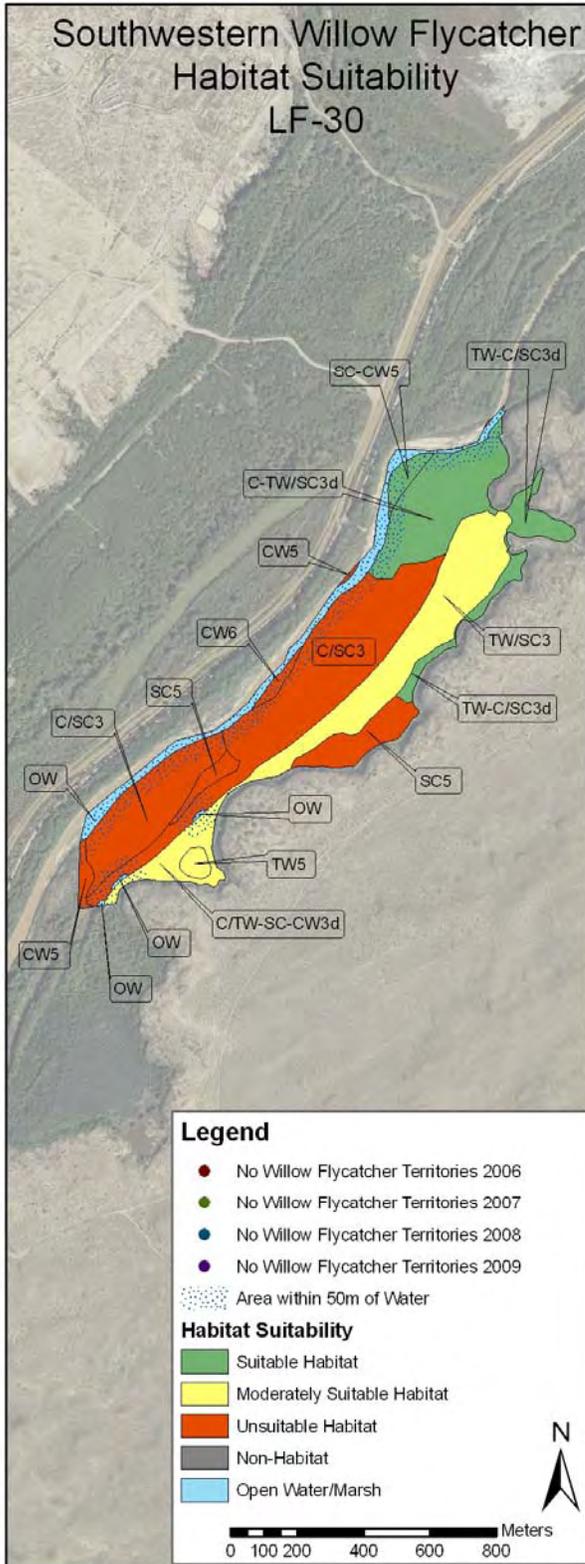
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	32	23%	8	6%
Moderately Suitable	38	27%	2	1%
Unsuitable	72	50%	19	13%
Total Area	142	100%	29	20%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/TW-SC-CW3d	7	5%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3d, TW/SC3, TW-C/SC3d	118	83%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5, CW6, TW5	5	4%
Mixed Understory	SC-CW5	2	1%
Exotic Understory	SC5	10	7%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LF-31

Habitat Acreage

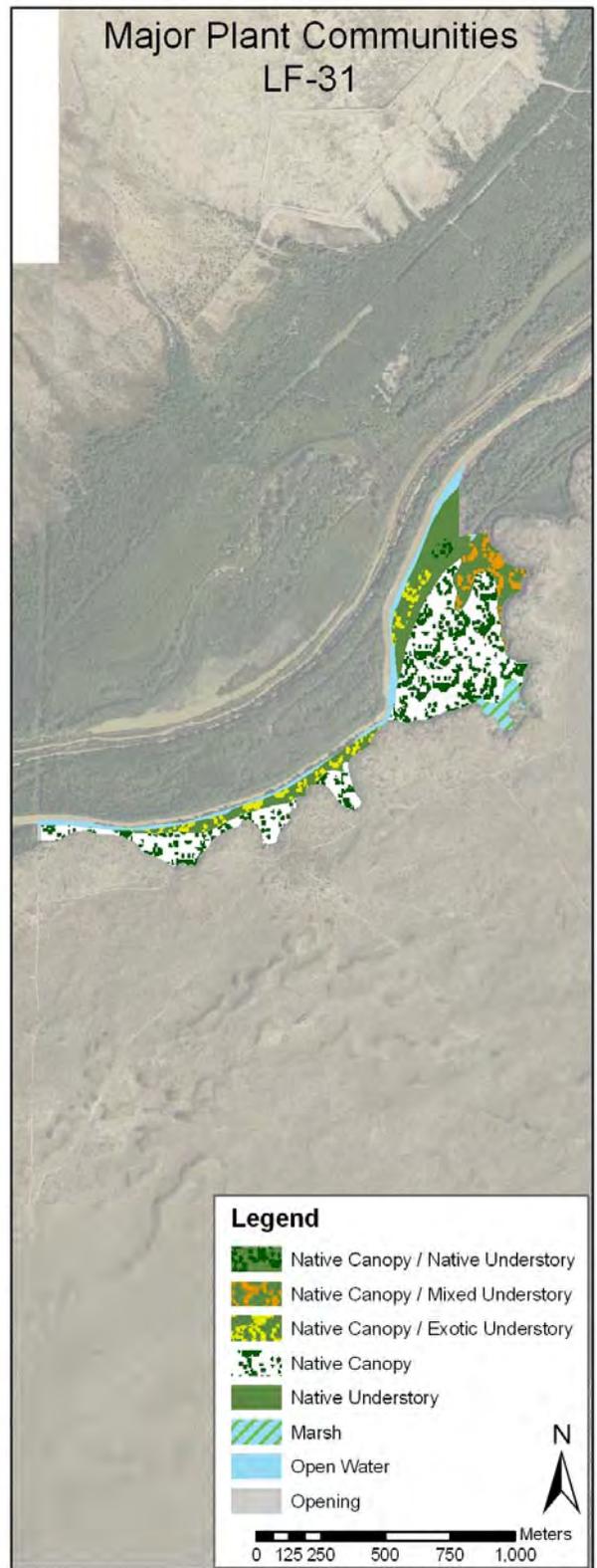
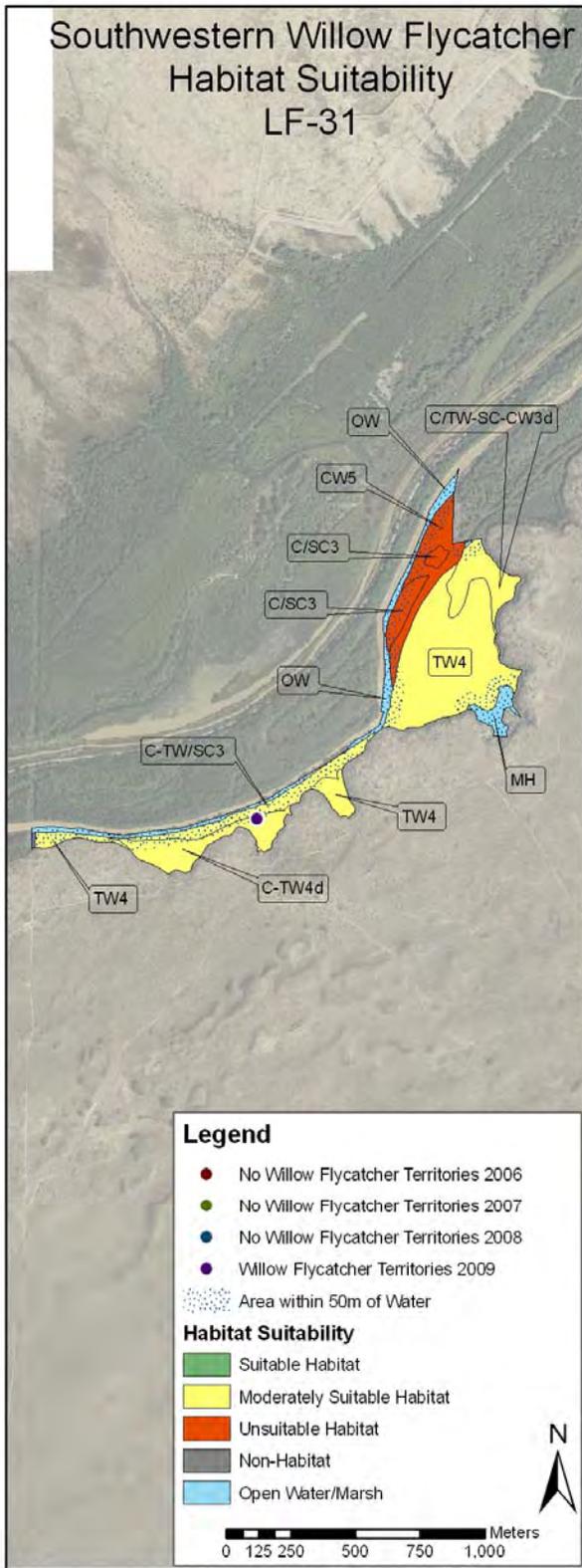
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	84	83%	23	23%
Unsuitable	17	17%	9	9%
Total Area	101	100%	32	32%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/CW3	1	1%
Native Canopy/Mixed Understory	C/TW-SC-CW3d	10	10%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3	14	14%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C-TW4d, TW4	64	63%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	11	11%
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	0	1



Survey Site: LF-32

Habitat Acreage

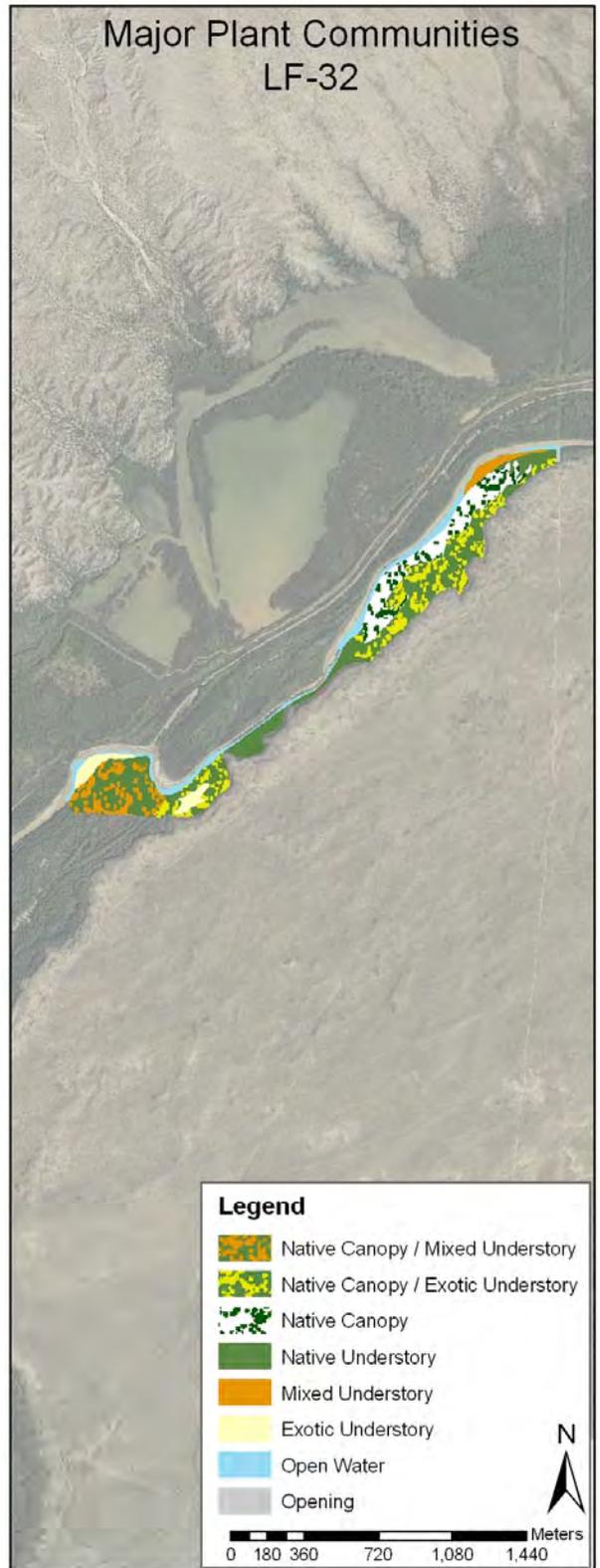
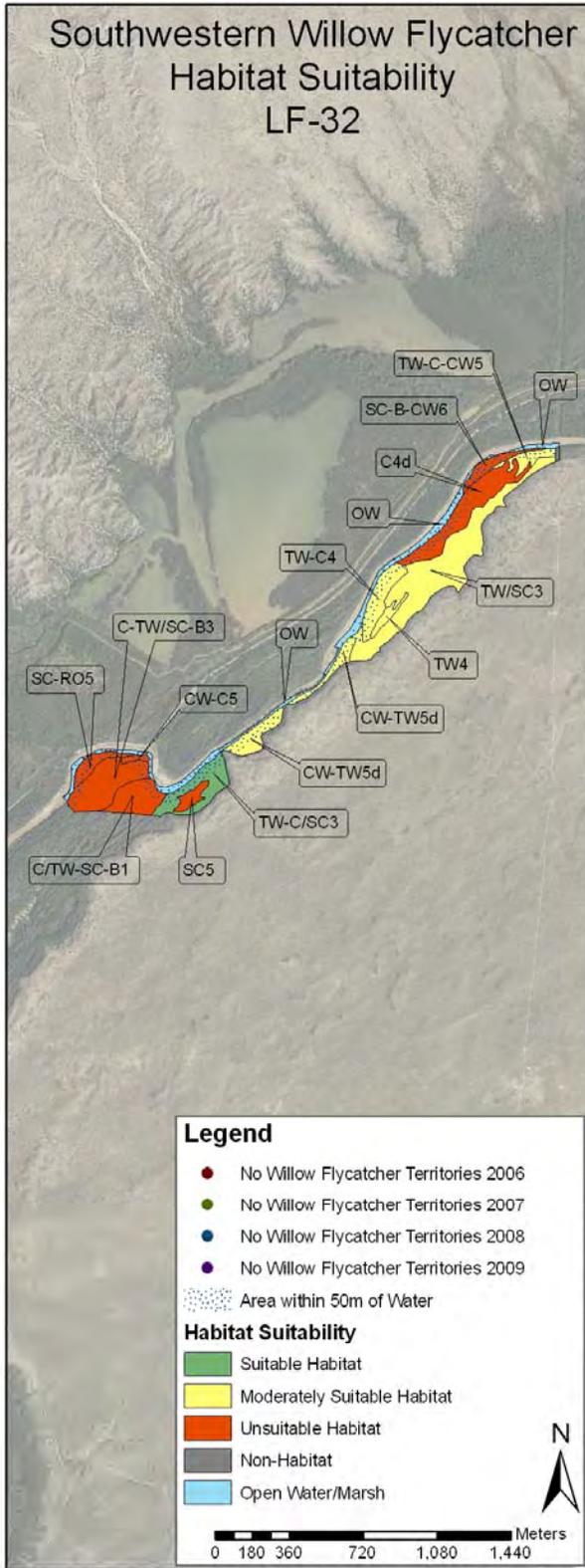
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	10	9%	4	3%
Moderately Suitable	56	48%	15	13%
Unsuitable	50	43%	19	16%
Total Area	116	100%	38	32%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/TW-SC-B1, C-TW/SC-B3	24	21%
Native Canopy/Exotic Understory	TW/SC3, TW-C/SC3	45	39%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C4d, TW4, TW-C4	25	22%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW-C5, CW-TW5d, TW-C-CW5	13	11%
Mixed Understory	SC-B-CW6	3	3%
Exotic Understory	SC5, SC-RO5	6	5%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-01

Habitat Acreage

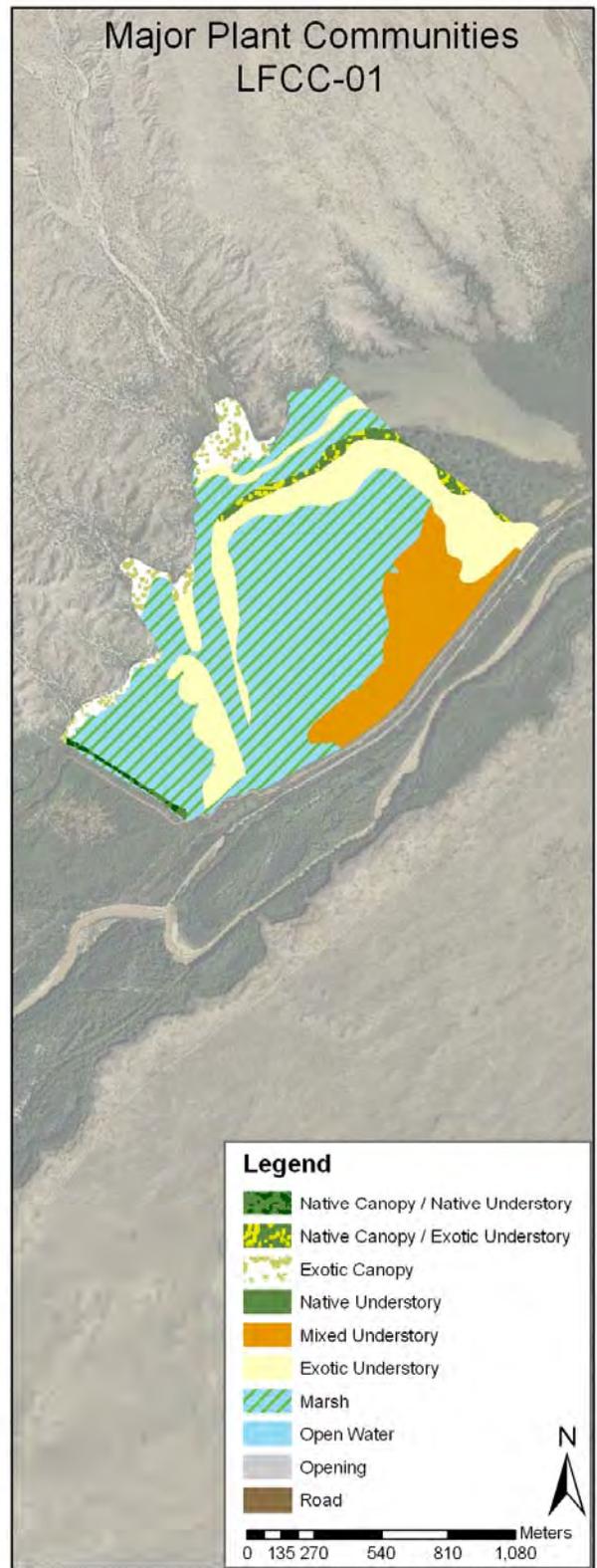
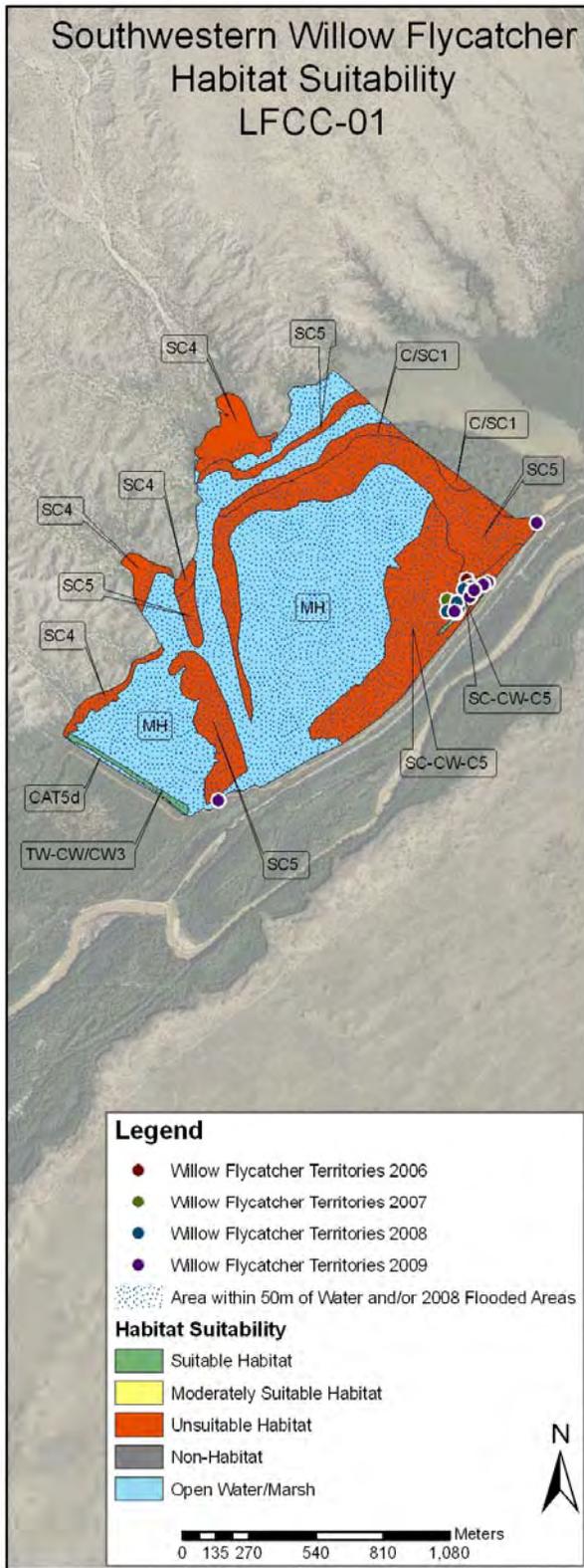
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	6	3%	6	3%
Moderately Suitable	1	1%	1	1%
Unsuitable	174	96%	165	91%
Total Area	181	100%	172	95%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-CW/CW3	3	2%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	10	5%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	23	13%
Native Understory	CAT-CW5d	1	1%
Mixed Understory	SC-CW5, SC-CW-C5	57	31%
Exotic Understory	SC5	87	48%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	2	2
2007	0	4	4
2008	1	5	6
2009	4	3	7



Survey Site: LFCC-02

Habitat Acreage

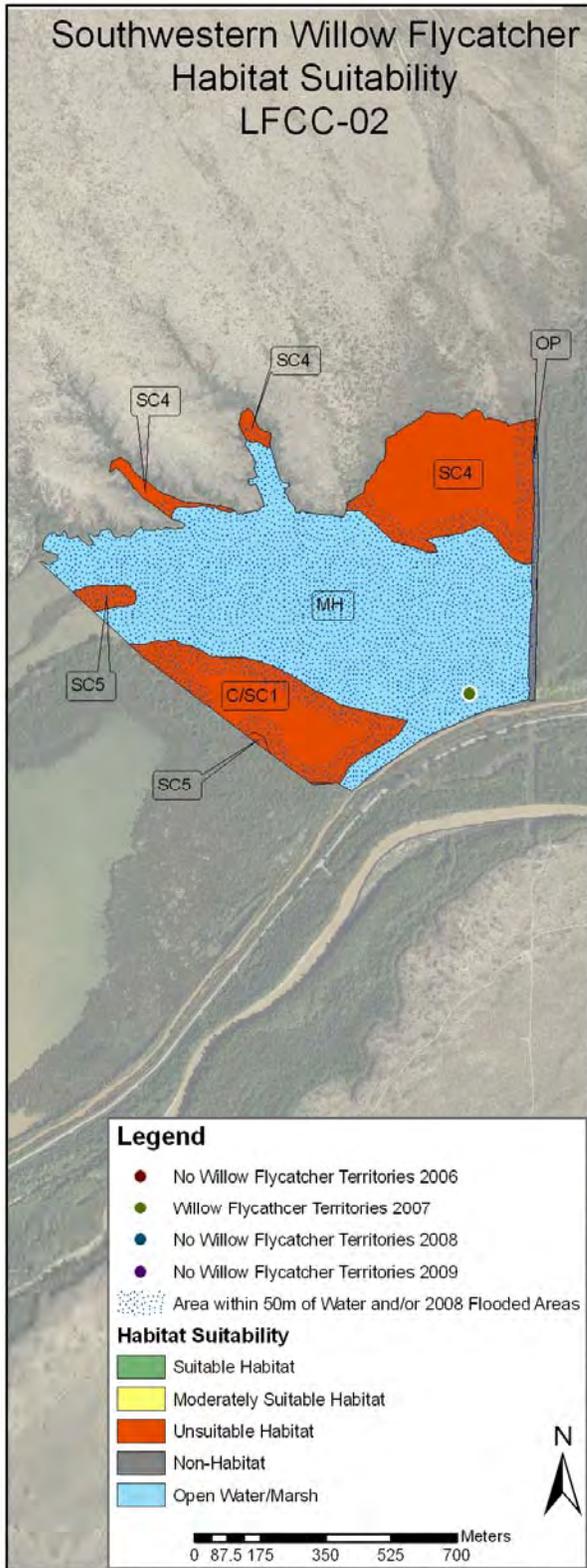
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	70	100%	32	46%
Total Area	70	100%	32	46%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	28	40%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4	40	57%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5	2	3%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-03

Habitat Acreage

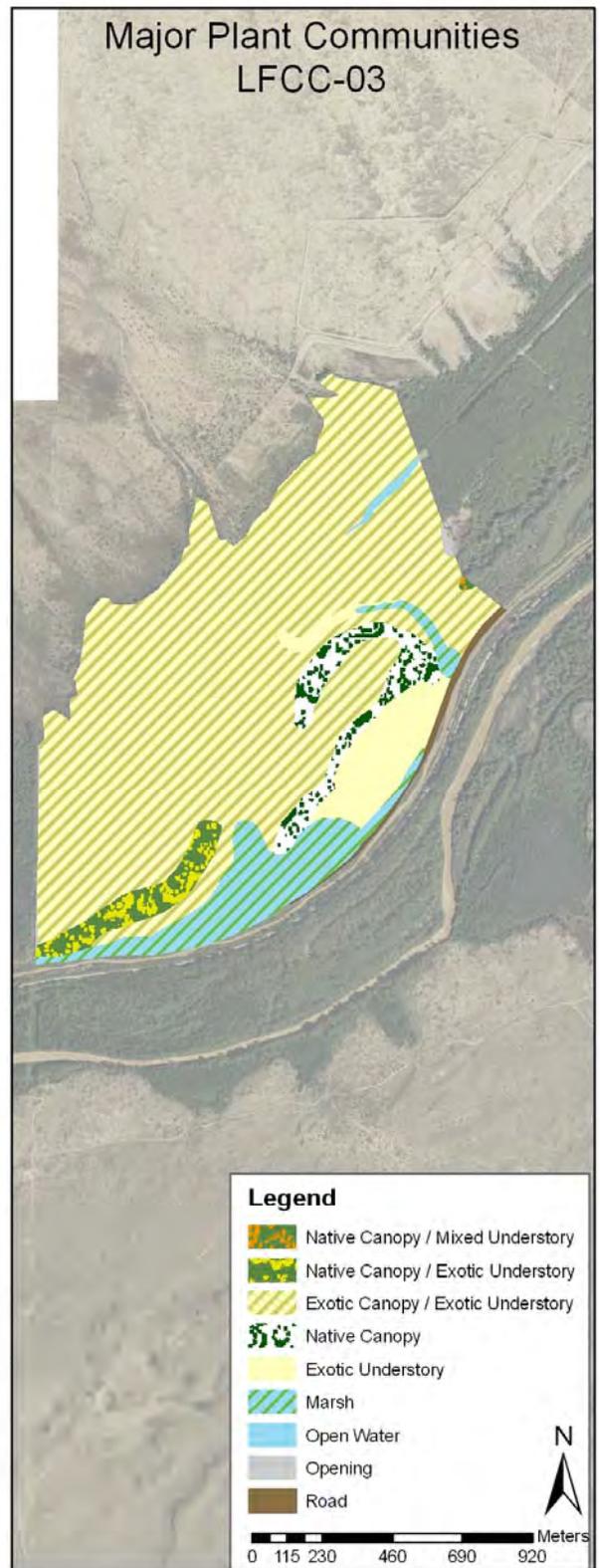
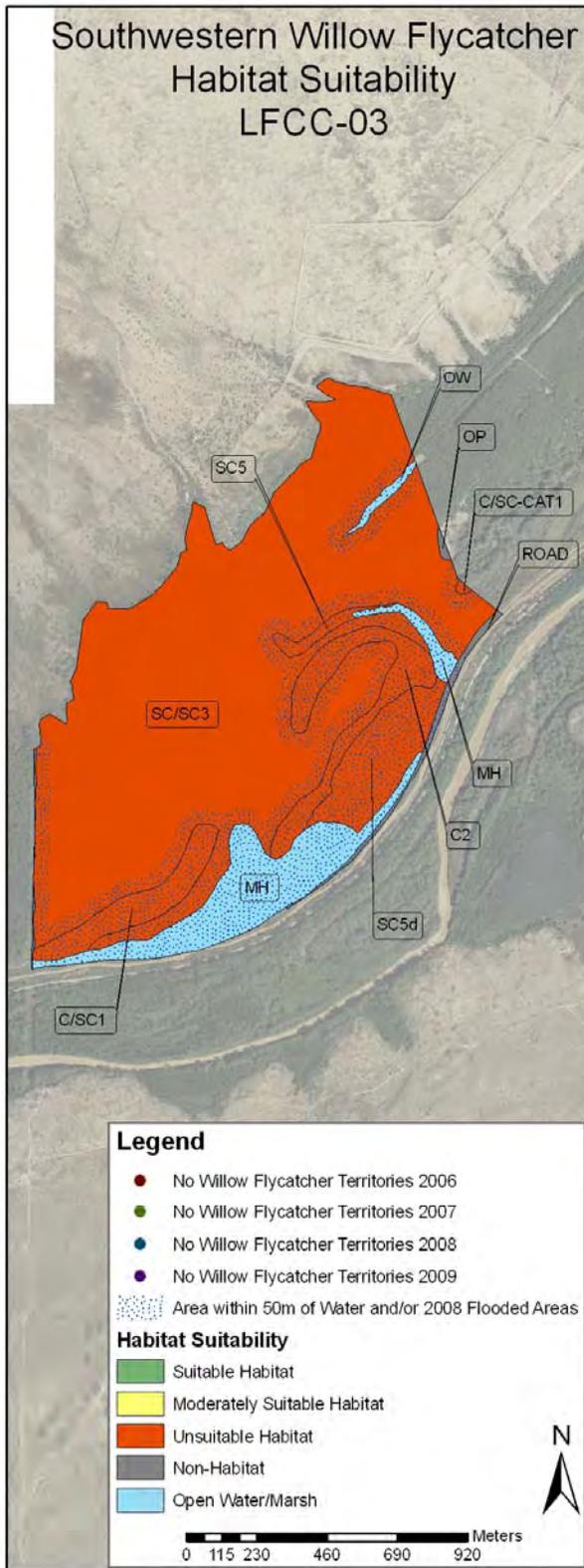
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	375	100%	138	37%
Total Area	375	100%	138	37%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	15	4%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	311	83%
Native Canopy	C2	22	6%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5, SC5d	27	7%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-04

Habitat Acreage

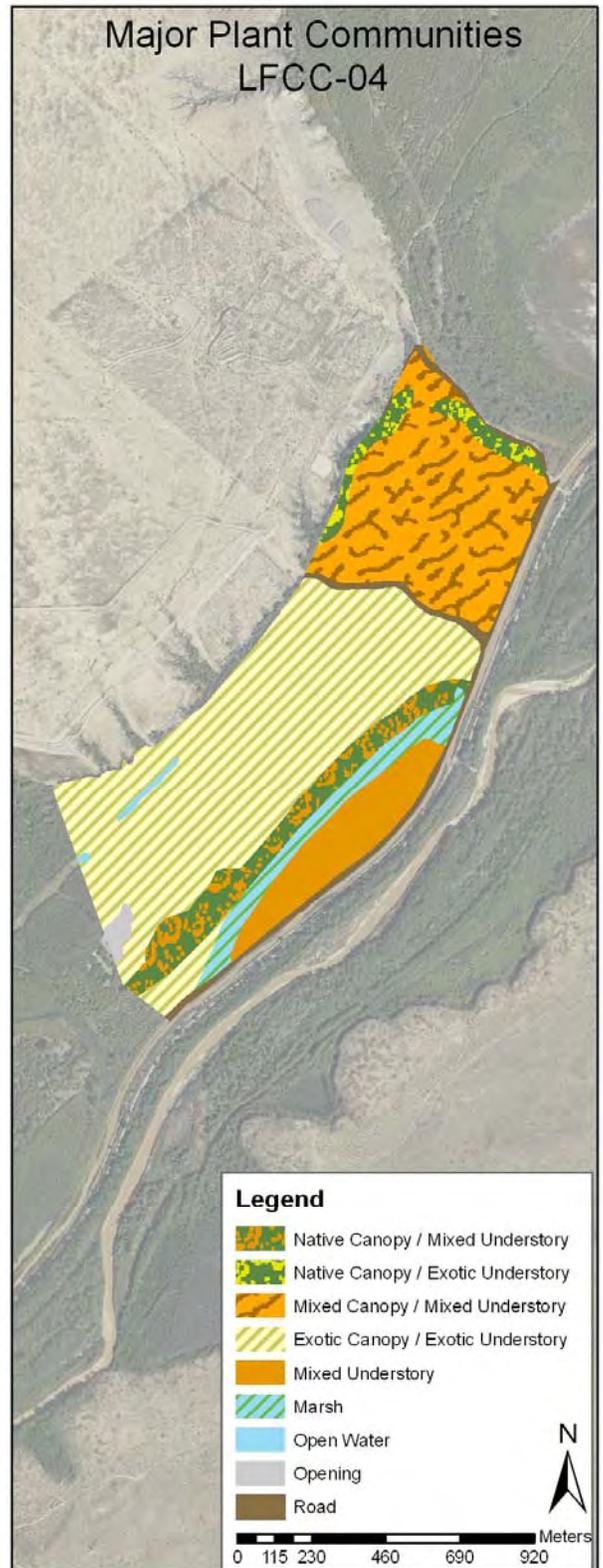
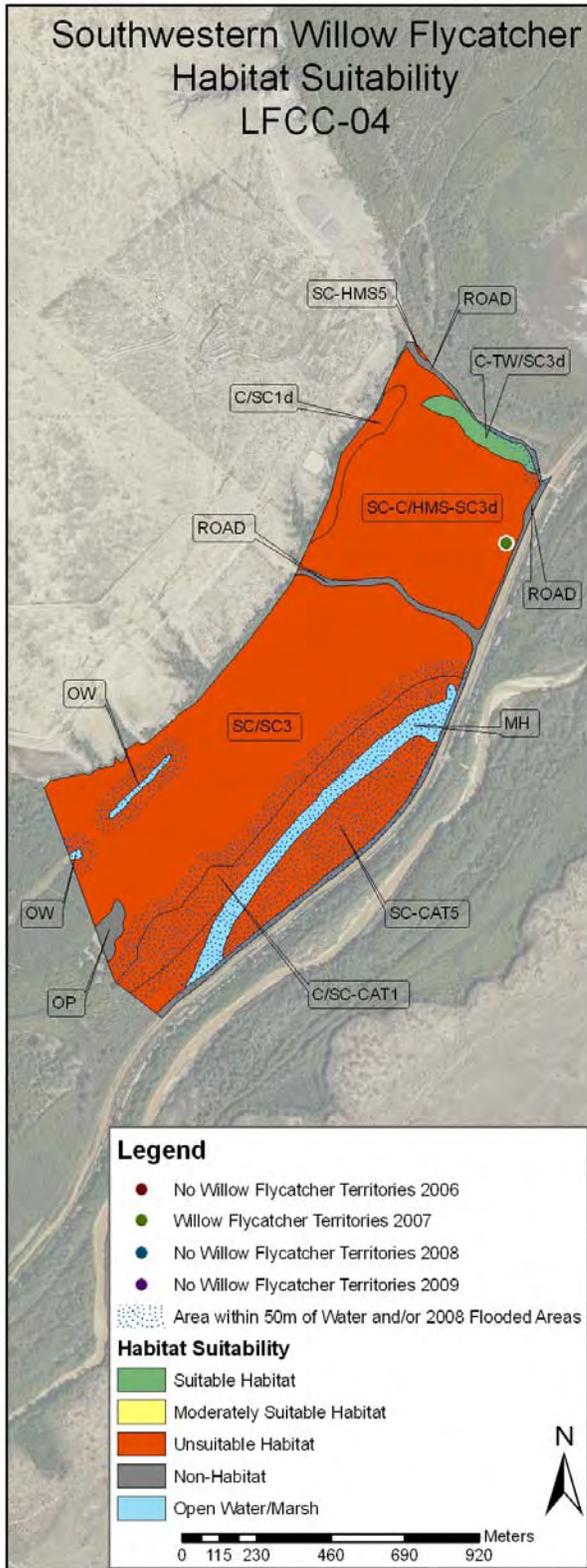
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	5	2%	1	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	292	98%	89	30%
Total Area	297	100%	90	30%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	C/SC-CAT1	27	9%
Native Canopy/Exotic Understory	C/SC1d, C-TW/SC3d	10	3%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-C/HMS-SC3d	78	26%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	155	52%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-CAT5	27	9%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-05A

Habitat Acreage

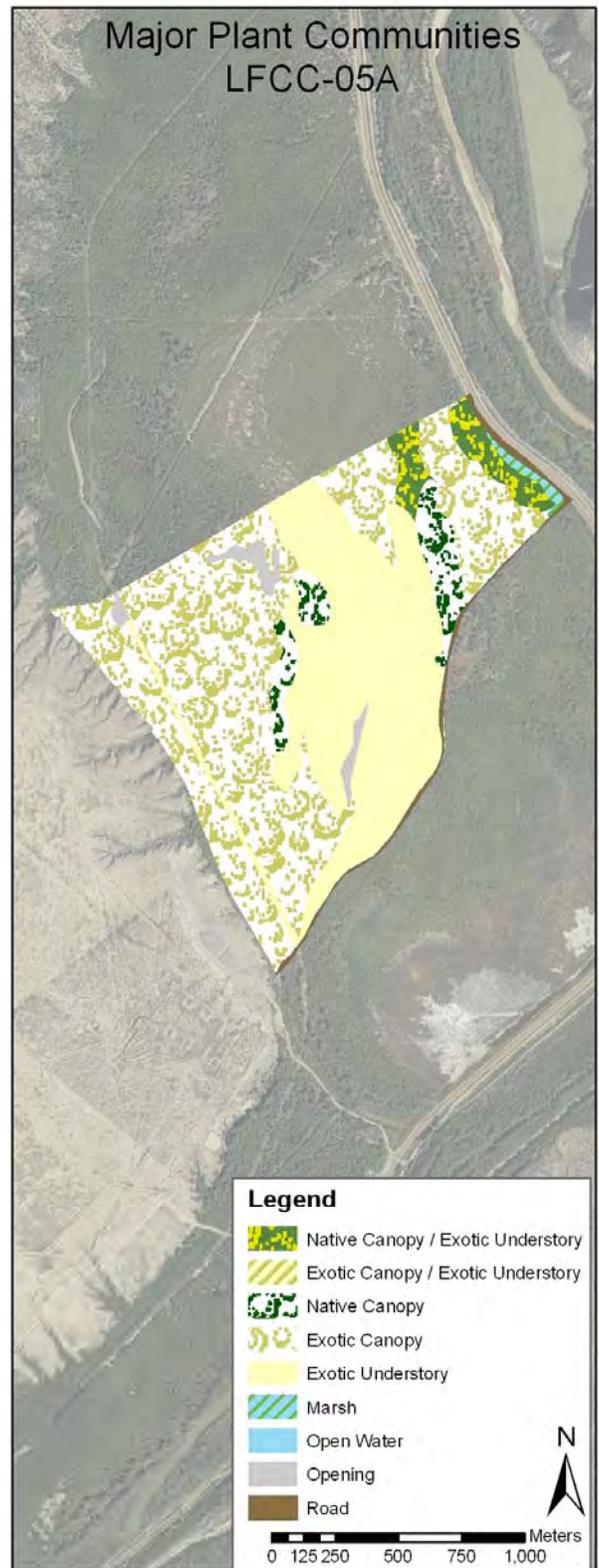
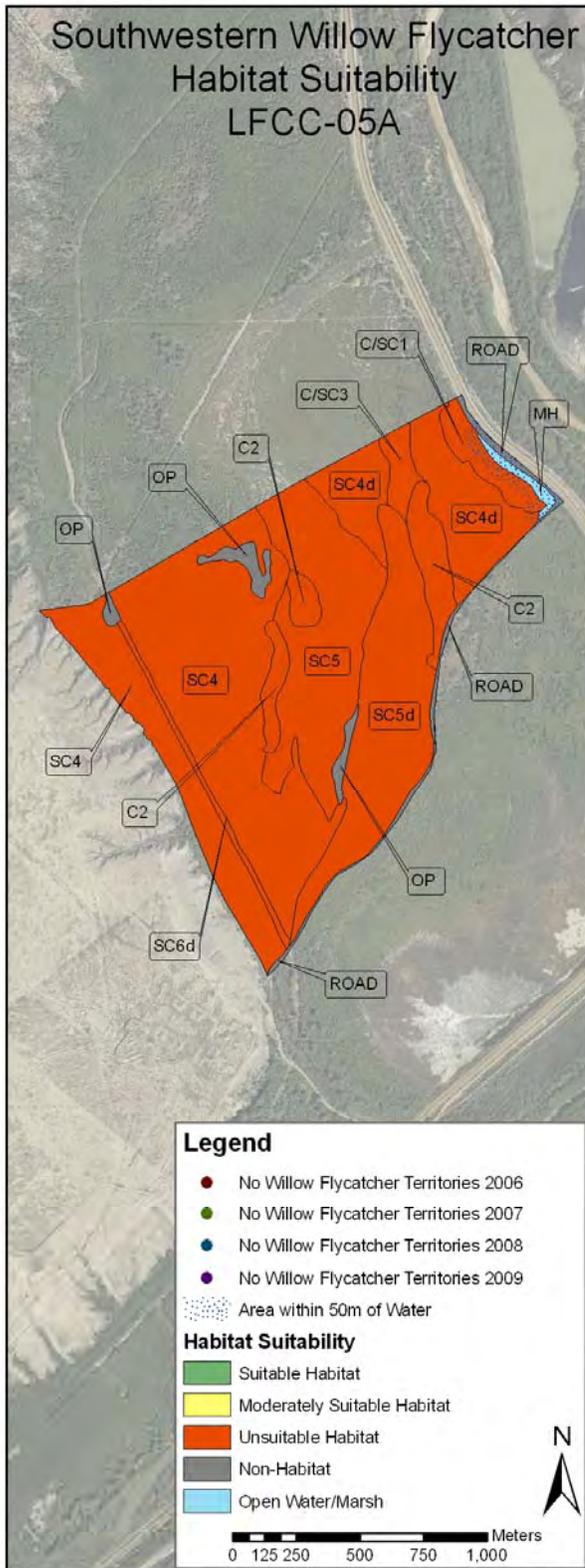
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	488	100%	6	1%
Total Area	488	100%	6	1%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1, C/SC3	22	5%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2	30	6%
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d	259	53%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5, SC5d, SC6d	177	36%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-05B

Habitat Acreage

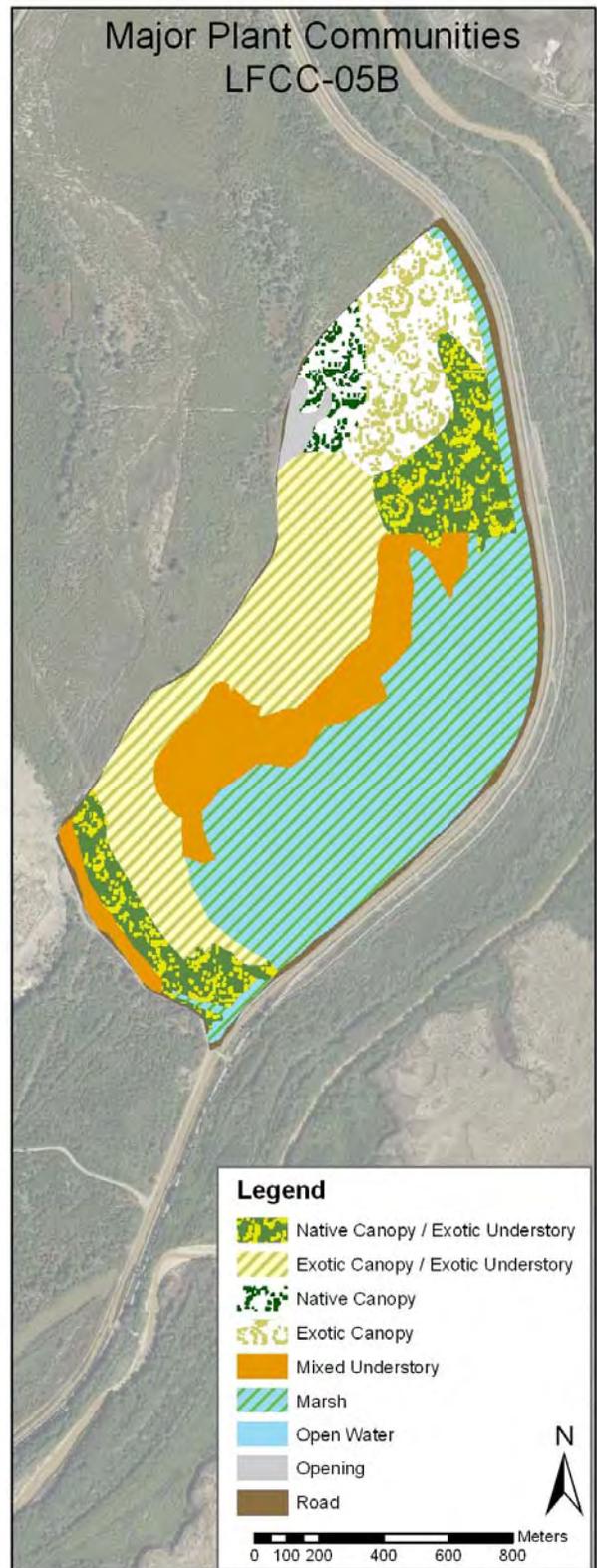
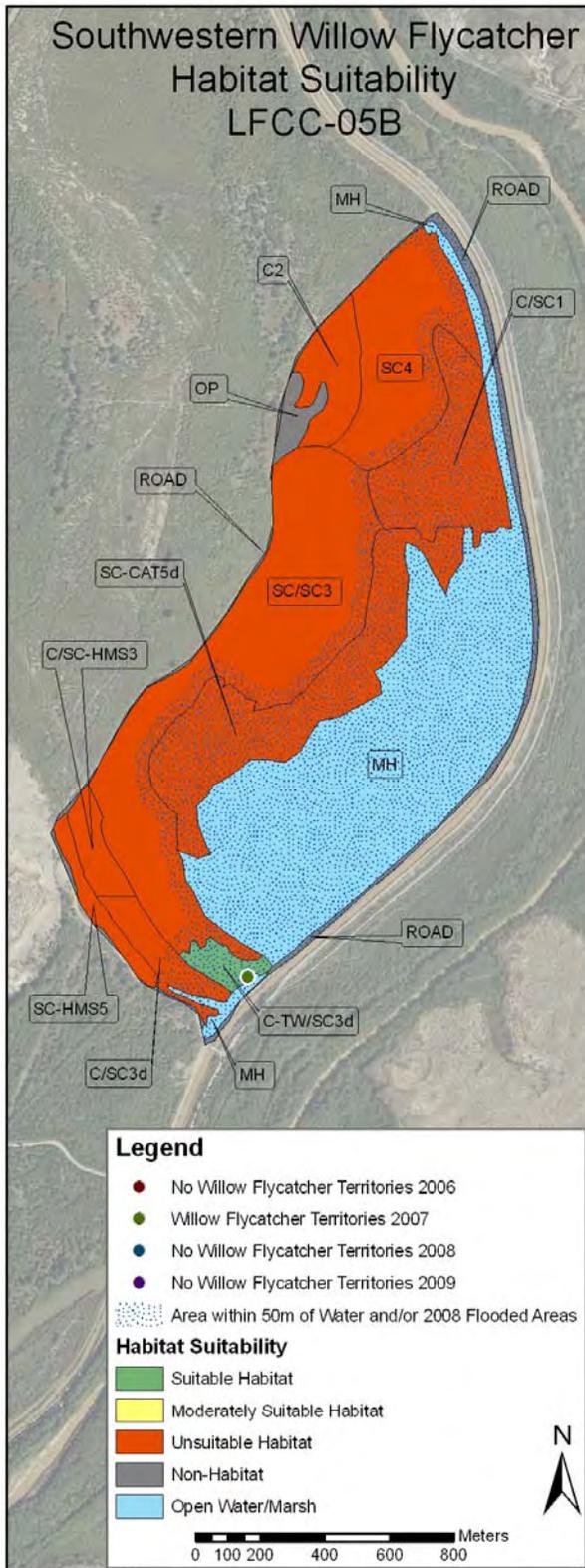
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	6	2%	6	2%
Moderately Suitable	0	0%	0	0%
Unsuitable	290	98%	143	48%
Total Area	296	100%	149	50%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1, C/SC3d, C/SC-HMS3, C-TW/SC3d	63	21%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	107	36%
Native Canopy	C2	16	5%
Mixed Canopy	-	-	-
Exotic Canopy	SC4	47	16%
Native Understory	-	-	-
Mixed Understory	SC-CAT5d, SC-HMS5	64	22%
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-06

Habitat Acreage

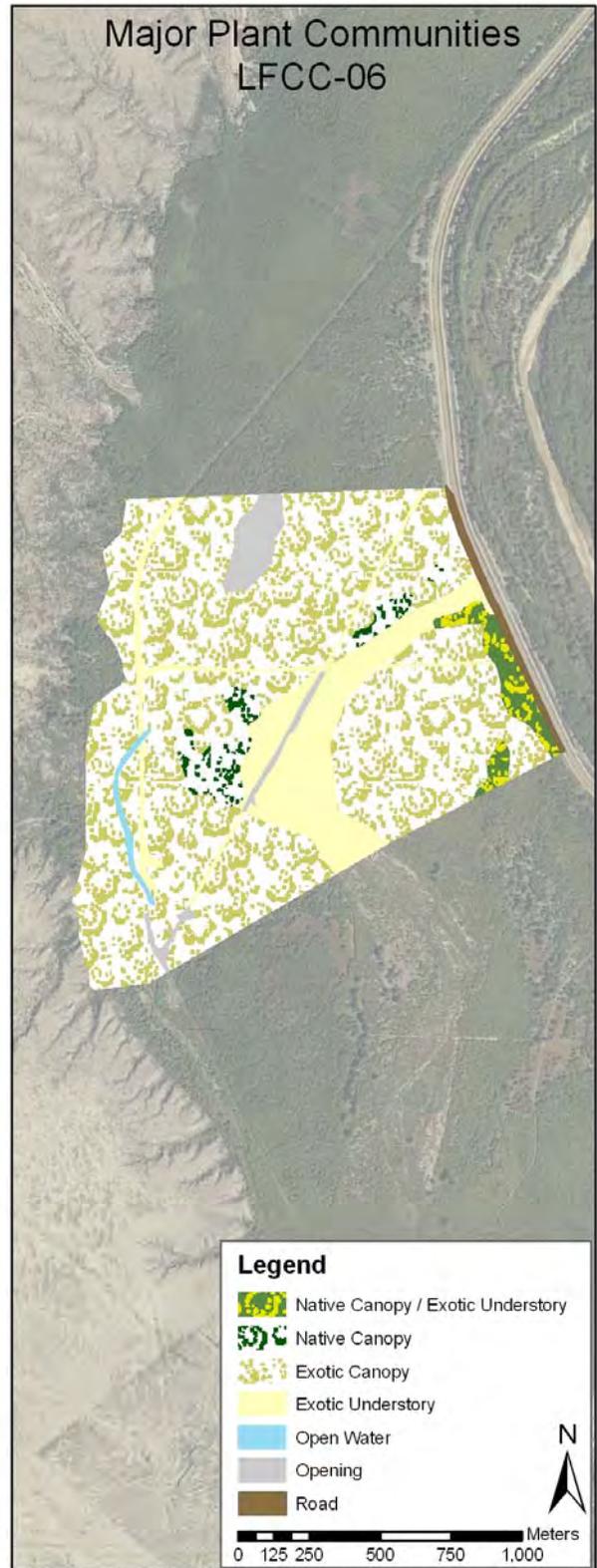
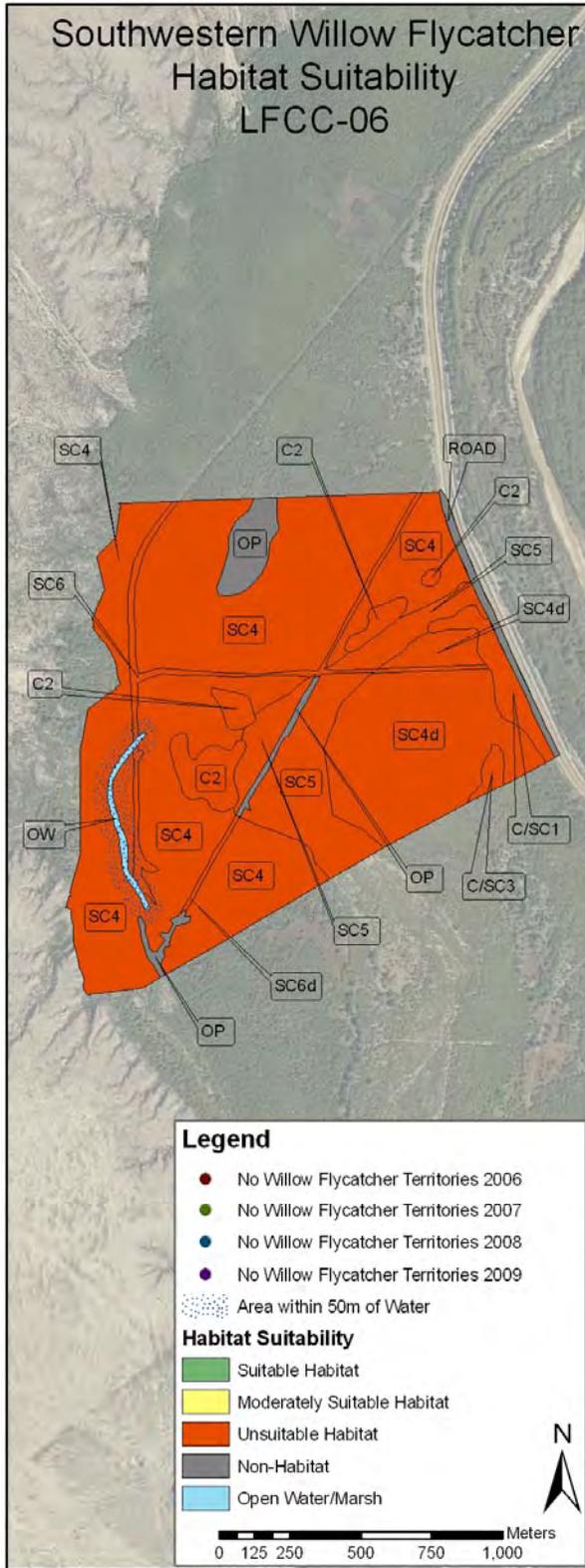
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	481	100%	19	4%
Total Area	481	100%	19	4%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1, C/SC3	15	3%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C2	20	4%
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d	373	78%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5, SC6, SC6d	73	15%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: LFCC-07

Habitat Acreage

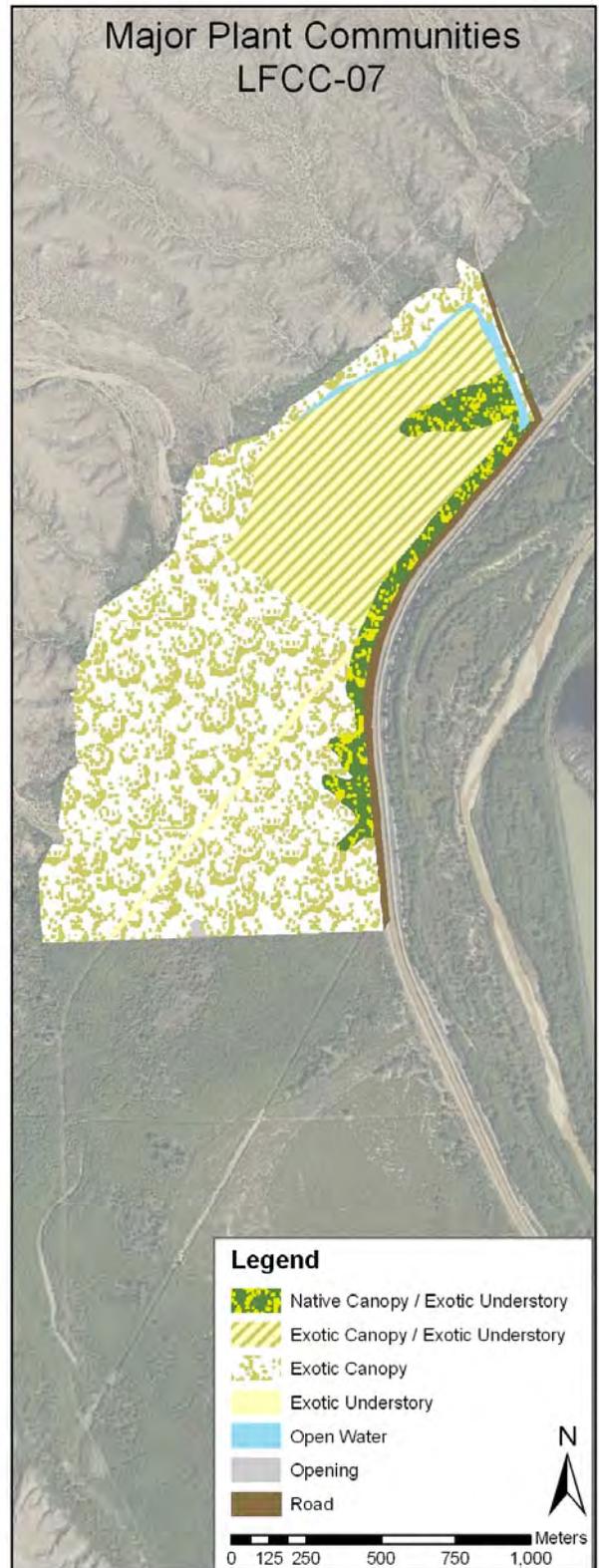
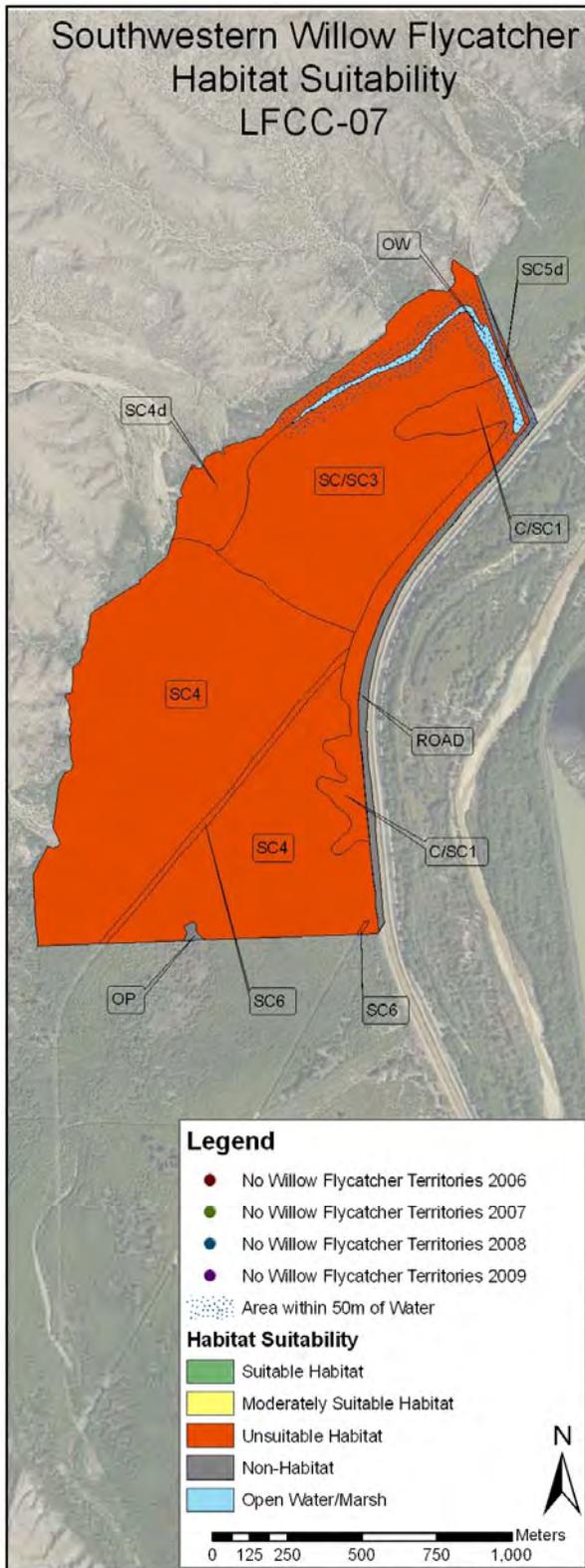
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	476	100%	26	5%
Total Area	476	100%	26	5%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C/SC1	36	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	119	25%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	SC4, SC4d	314	66%
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC6	7	1%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: DL-01

Habitat Acreage

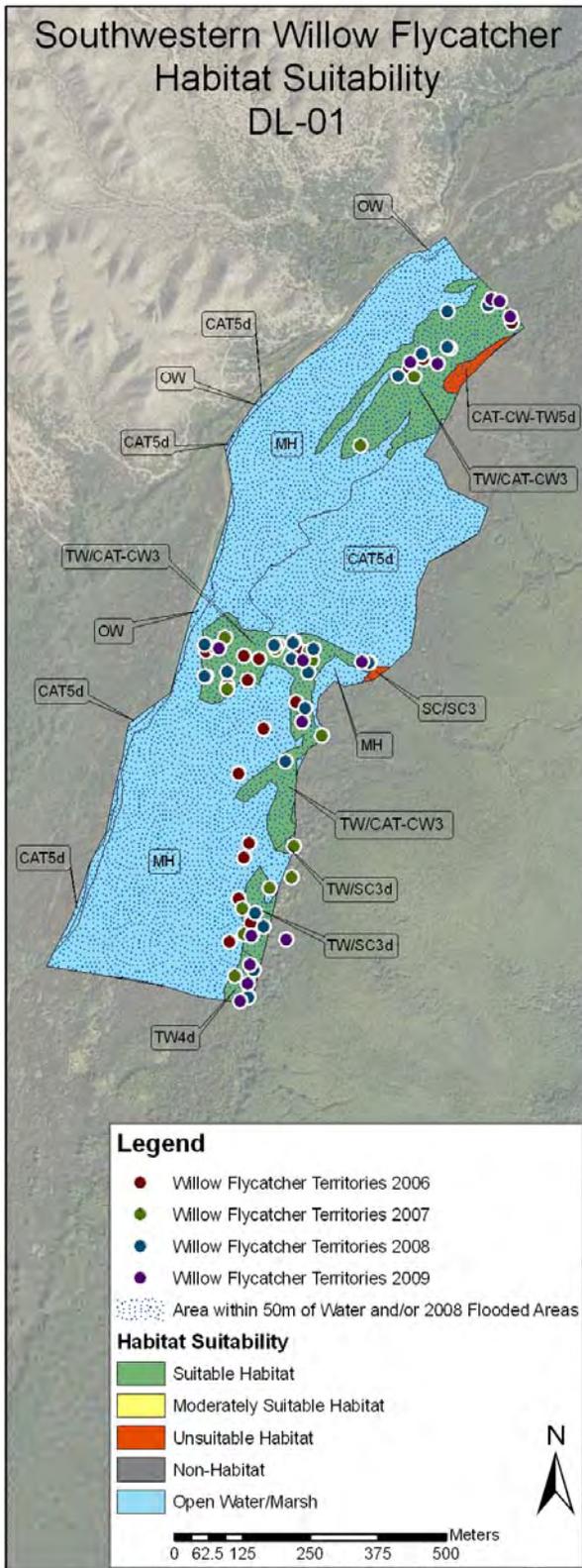
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	24	96%	24	96%
Moderately Suitable	0	0%	0	0%
Unsuitable	1	4%	1	4%
Total Area	25	100%	25	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CAT-CW3	21	84%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	TW/SC3d	2	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d	1	4%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-CW-TW5d	1	4%
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	3	16	19
2007	7	13	20
2008	8	12	20
2009	2	12	14



Survey Site: DL-01A

Habitat Acreage

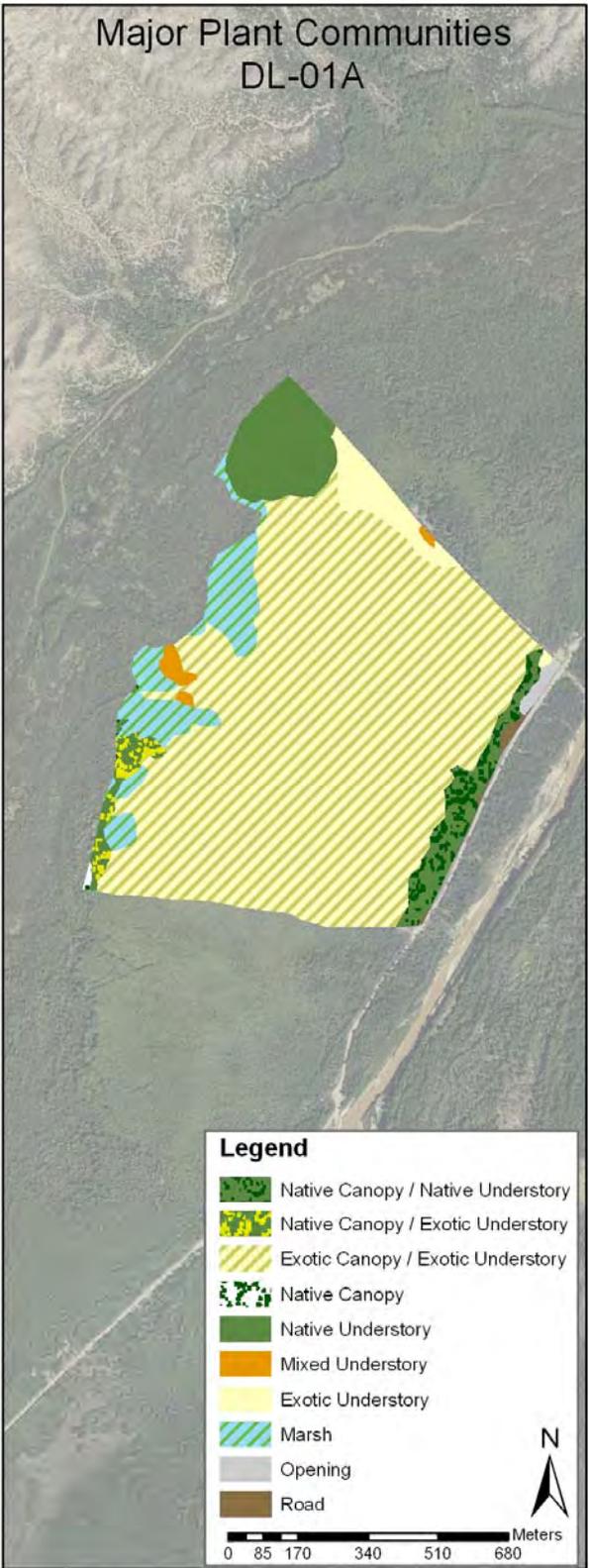
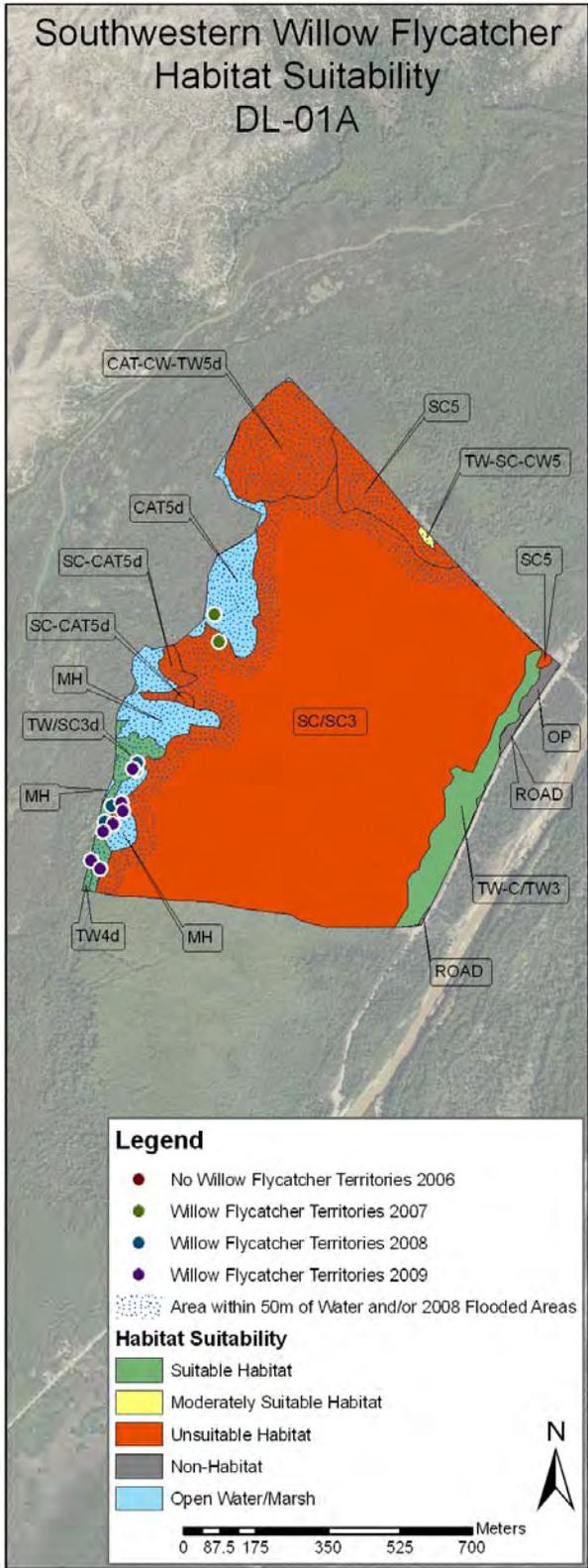
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	14	7%	4	2%
Moderately Suitable	0	0%	0	0%
Unsuitable	188	93%	49	24%
Total Area	202	100%	53	26%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-C/TW3	10	5%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	TW/SC3d	4	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	166	82%
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-CW-TW5d	14	7%
Mixed Understory	SC-CAT5d	1	0%
Exotic Understory	SC5	7	3%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	2	1	3
2008	2	1	3
2009	3	4	7



Survey Site: DL-02

Habitat Acreage

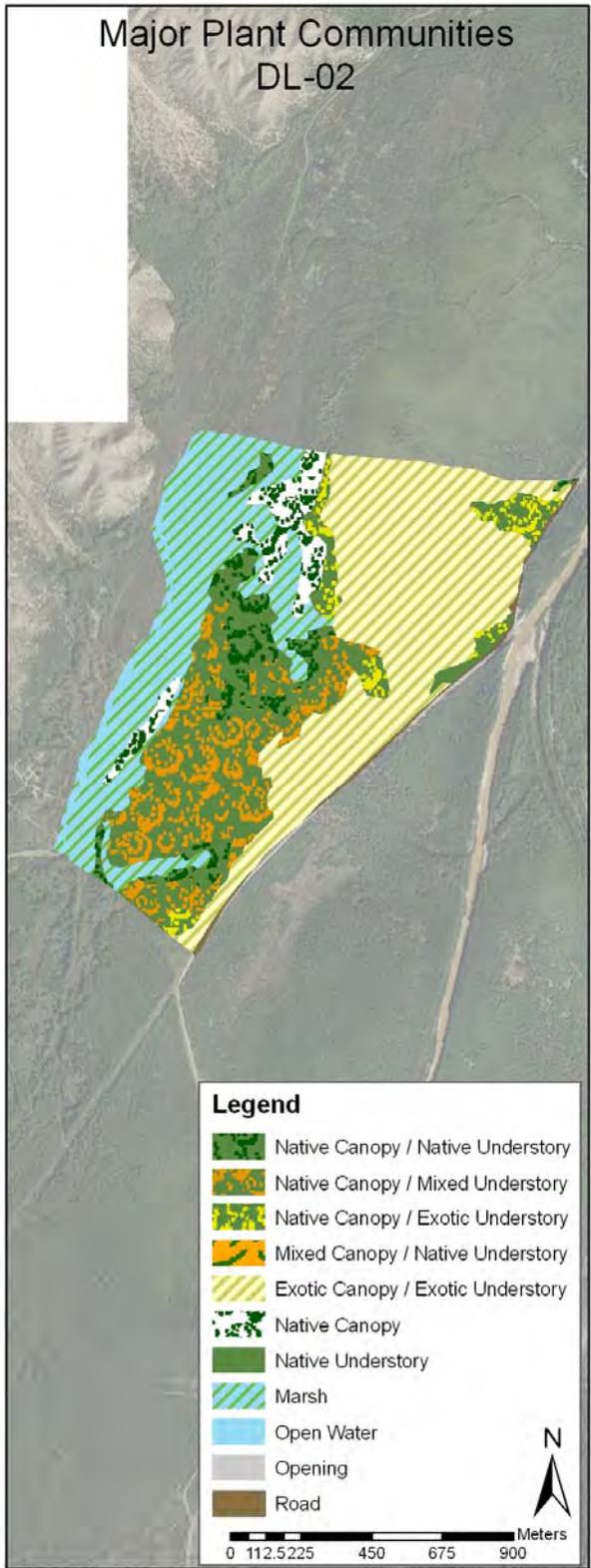
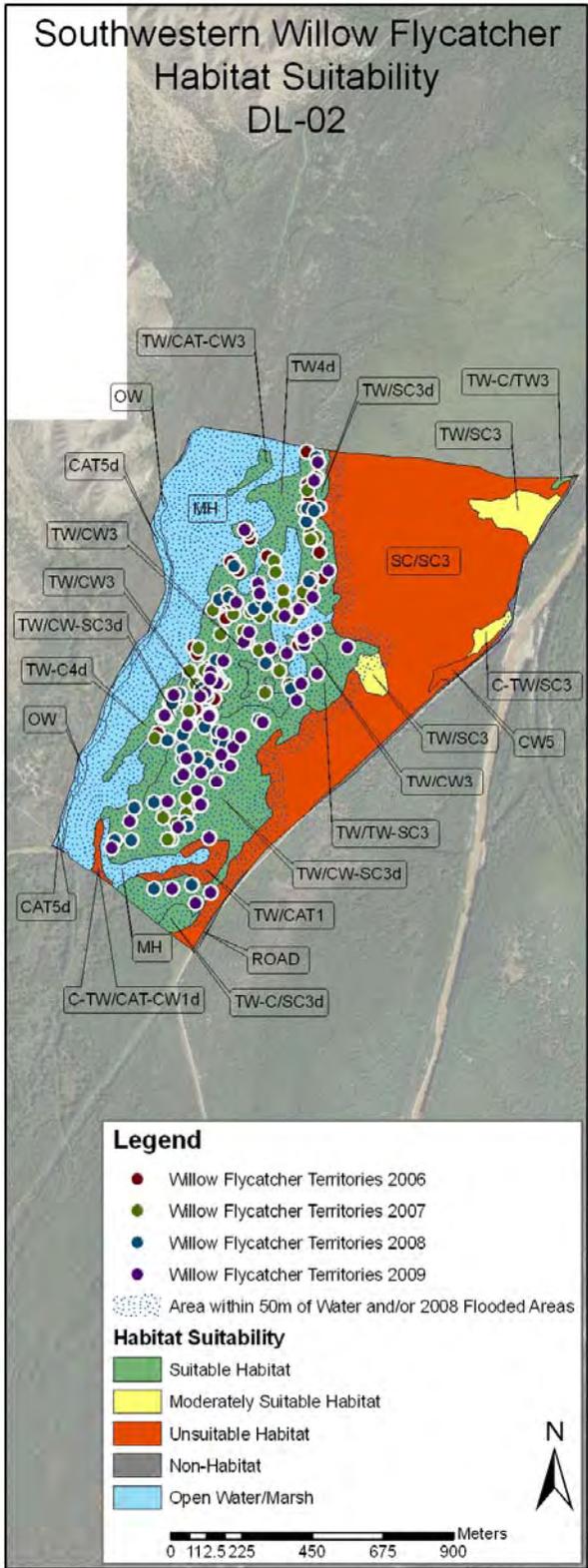
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	126	47%	126	47%
Moderately Suitable	11	4%	1	0%
Unsuitable	132	49%	30	11%
Total Area	269	100%	157	58%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C-TW/CAT-CW1d, TW/CAT1, TW/CAT-CW3, TW/CW3, TW/CW-CAT3d	29	11%
Native Canopy/Mixed Understory	TW/CW-SC3d, TW/TW-SC3	76	28%
Native Canopy/Exotic Understory	C-TW/SC3, TW/SC3, TW/SC3d, TW-C/SC3d	18	7%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	125	46%
Native Canopy	TW4d, TW-C4d	19	7%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CW5	2	1%
Mixed Understory	-	-	-
Exotic Understory	-	-	-

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	4	27	31
2007	8	45	53
2008	7	39	46
2009	14	40	54



Survey Site: DL-03

Habitat Acreage

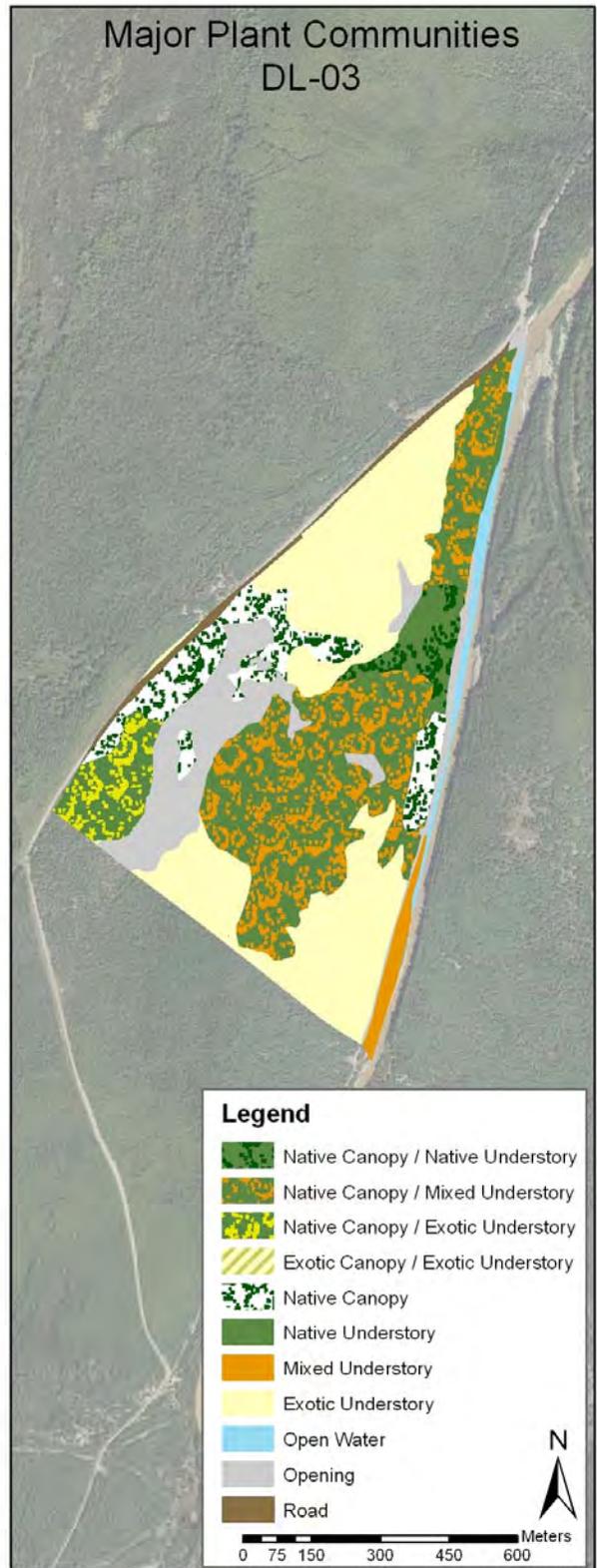
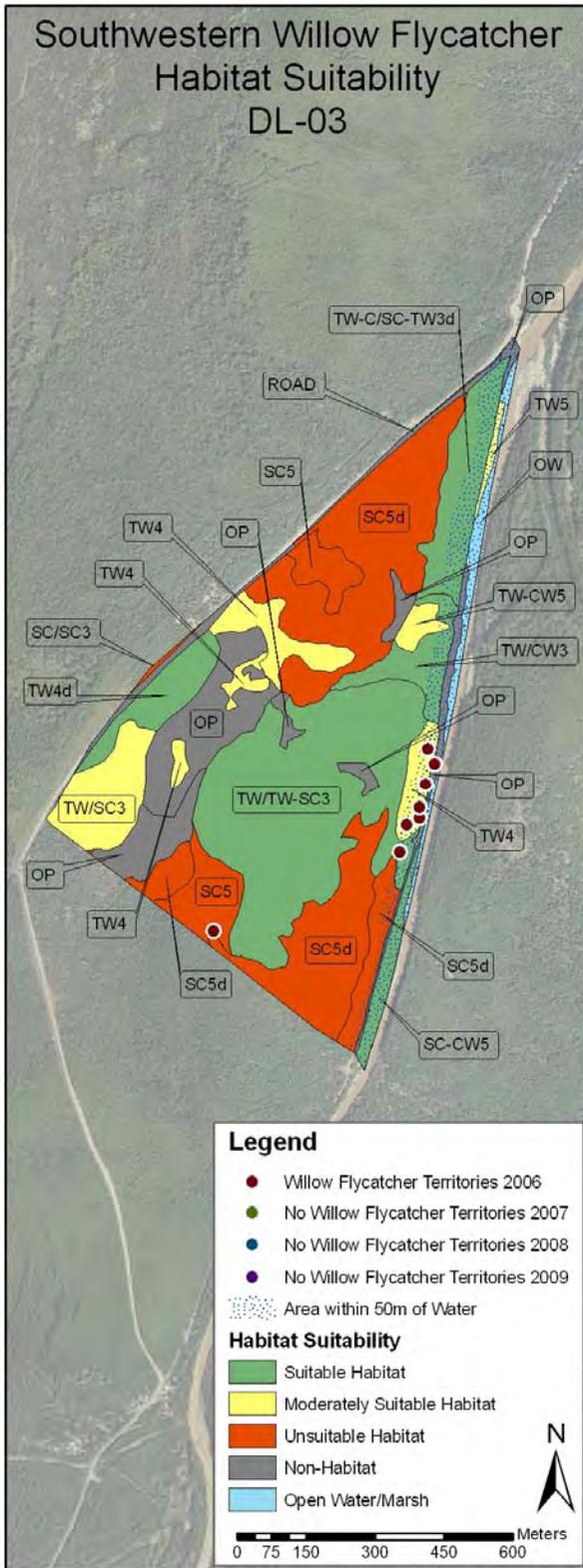
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	70	46%	12	8%
Moderately Suitable	22	15%	3	2%
Unsuitable	59	39%	2	1%
Total Area	151	100%	17	11%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CW3	6	4%
Native Canopy/Mixed Understory	TW/TW-SC3, TW-C/SC-TW3d	55	36%
Native Canopy/Exotic Understory	TW/SC3	9	6%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	16	11%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	TW5, TW-CW5	3	2%
Mixed Understory	SC-CW5	3	2%
Exotic Understory	SC5, SC5d	58	38%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	7	8
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: DL-04/04A

Habitat Acreage

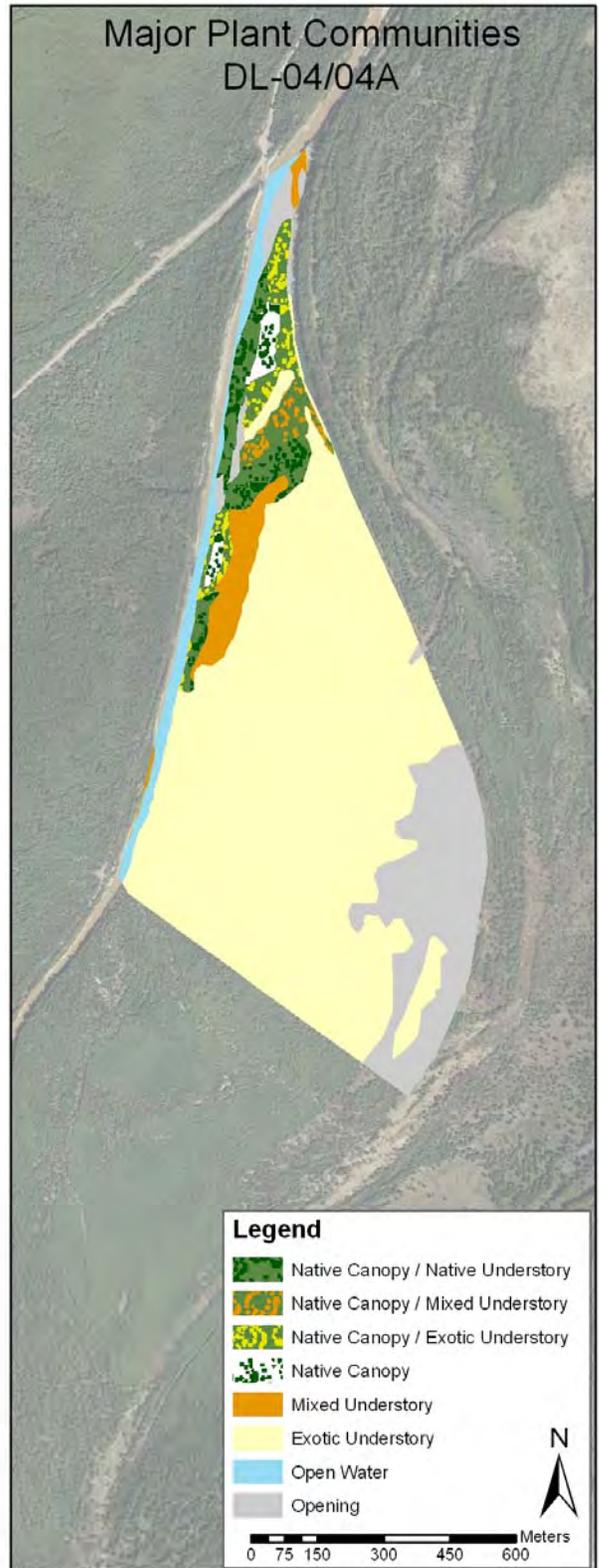
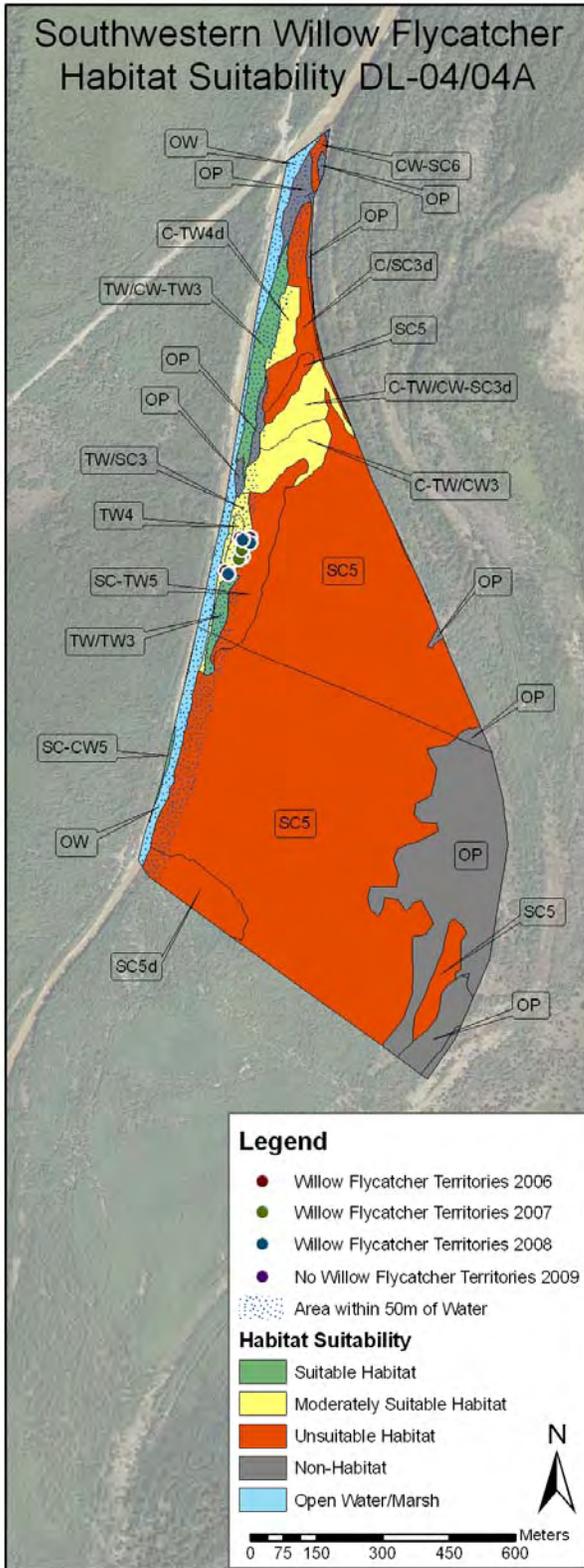
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	5	3%	5	3%
Moderately Suitable	13	8%	5	3%
Unsuitable	155	89%	11	6%
Total Area	173	100%	21	12%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C-TW/CW3, TW/CW-TW3, TW/TW3	9	5%
Native Canopy/Mixed Understory	C-TW/CW-SC3d	4	2%
Native Canopy/Exotic Understory	C/SC3d, TW/SC3	7	4%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	C-TW4d, TW4	3	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	CW-SC6, SC-TW5	7	4%
Exotic Understory	SC5, SC5d	143	83%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	4	4
2007	0	3	3
2008	1	2	3
2009	0	0	0



Survey Site: DL-05

Habitat Acreage

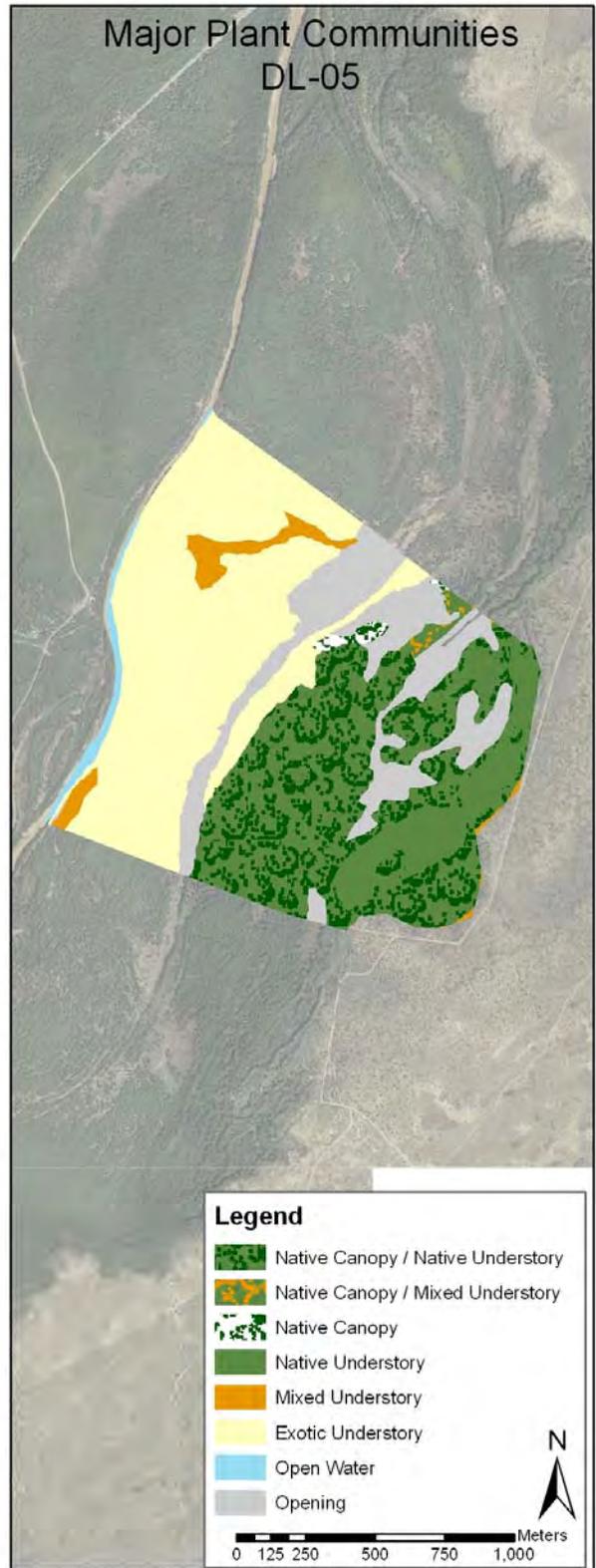
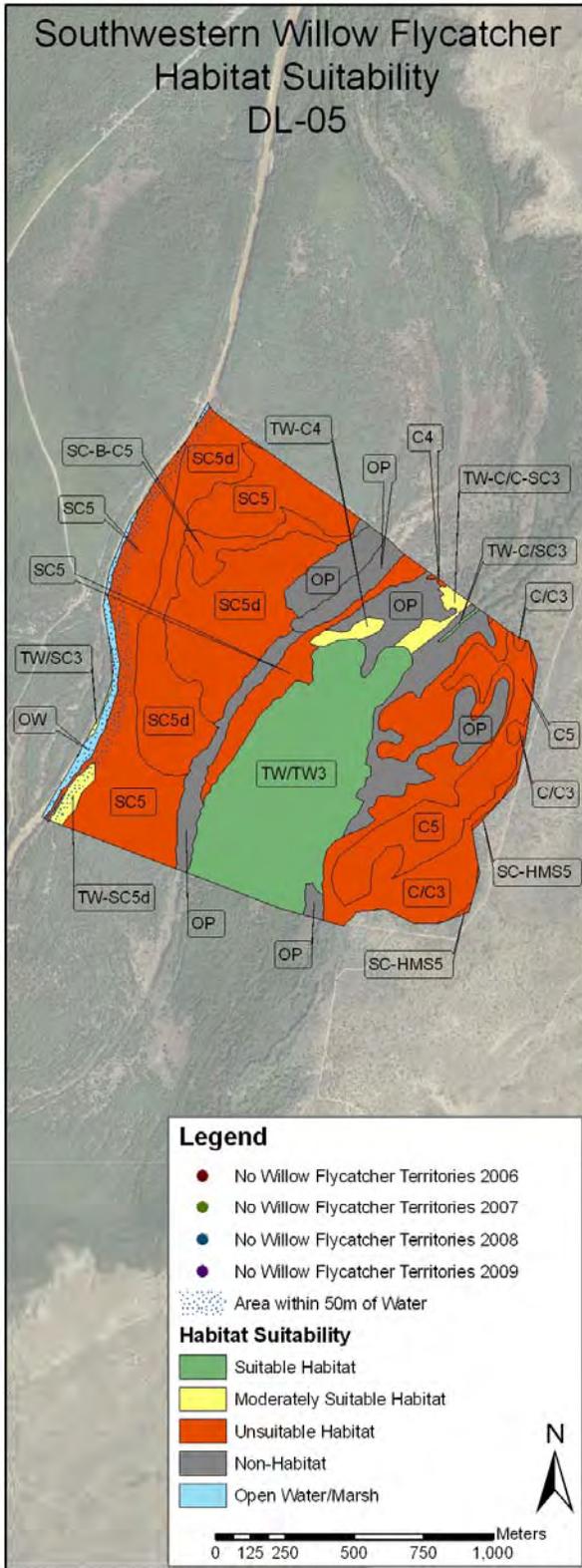
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	104	24%	0	0%
Moderately Suitable	11	3%	3	1%
Unsuitable	315	73%	18	4%
Total Area	430	100%	21	5%

Dominant Plant Communities

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/C3, TW/TW3	165	38%
Native Canopy/Mixed Understory	TW-C/C-SC3	4	1%
Native Canopy/Exotic Understory	TW/SC3, TW-C/C-SC3	2	0%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW-C4	3	1%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	C5	39	9%
Mixed Understory	SC-B-C5, SC-HMS5, TW-SC5d	14	3%
Exotic Understory	SC5, SC5d	203	47%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: DL-06

Habitat Acreage

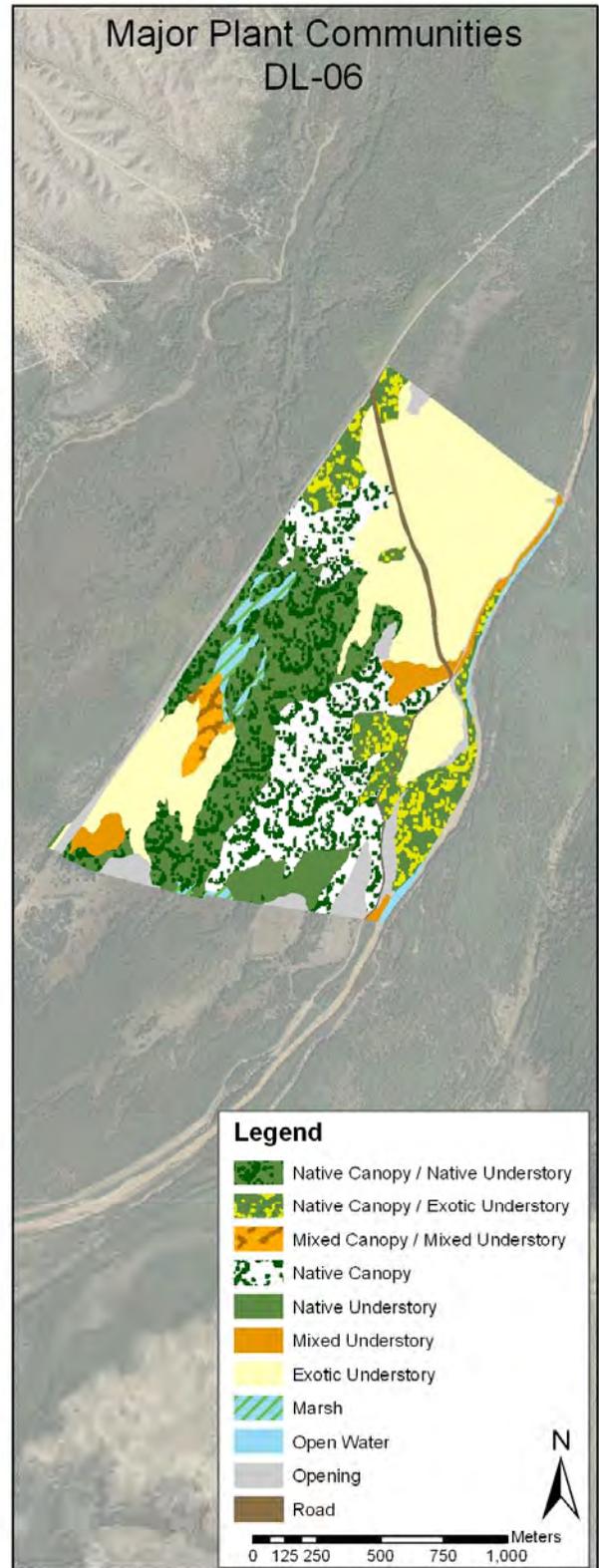
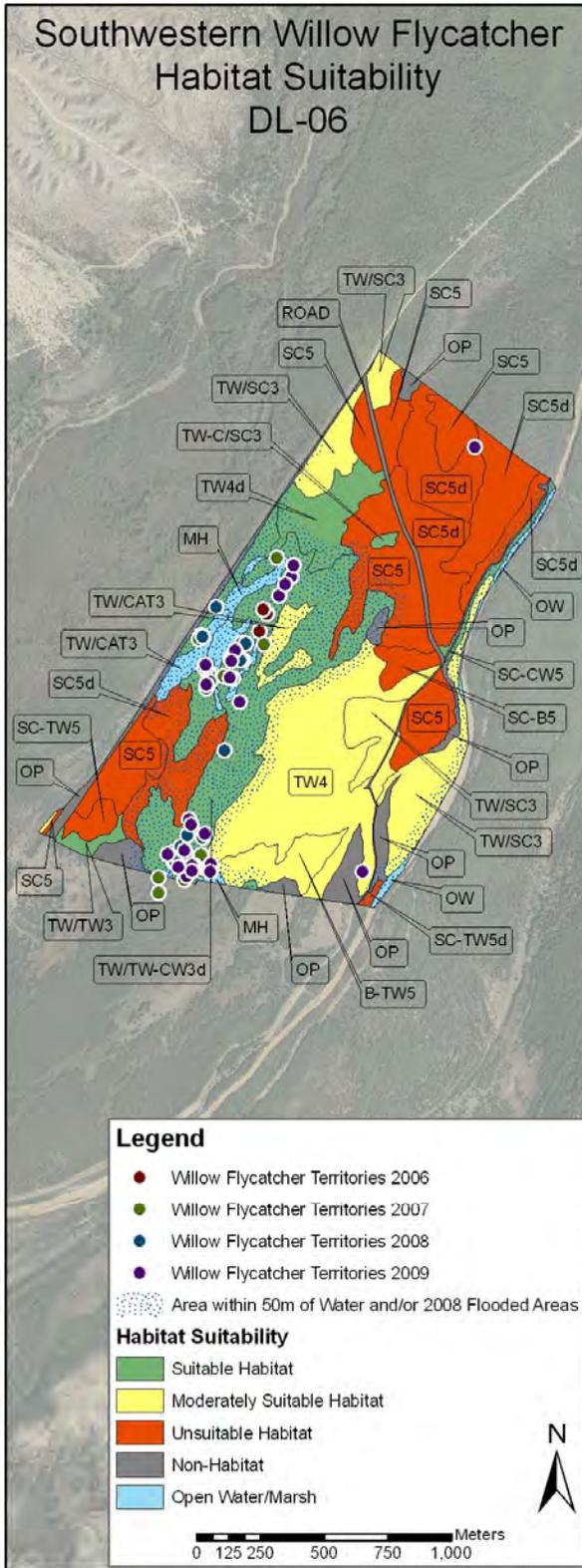
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	133	27%	113	23%
Moderately Suitable	173	35%	46	9%
Unsuitable	191	38%	36	7%
Total Area	497	100%	195	39%

Dominant Plant Communities

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CAT3, TW/TW3, TW/TW-CW3d	111	22%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	TW/SC3, TW-C/SC3	58	12%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	TW-SC/TW-SC3d	8	2%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	109	22%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-TW5	16	3%
Mixed Understory	SC-B5, SC-CW5, SC-TW5d, SC-TW5	15	3%
Exotic Understory	SC5, SC5d	179	36%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	3	3	3
2007	6	12	18
2008	3	16	19
2009	9	15	24



Survey Site: DL-07

Habitat Acreage

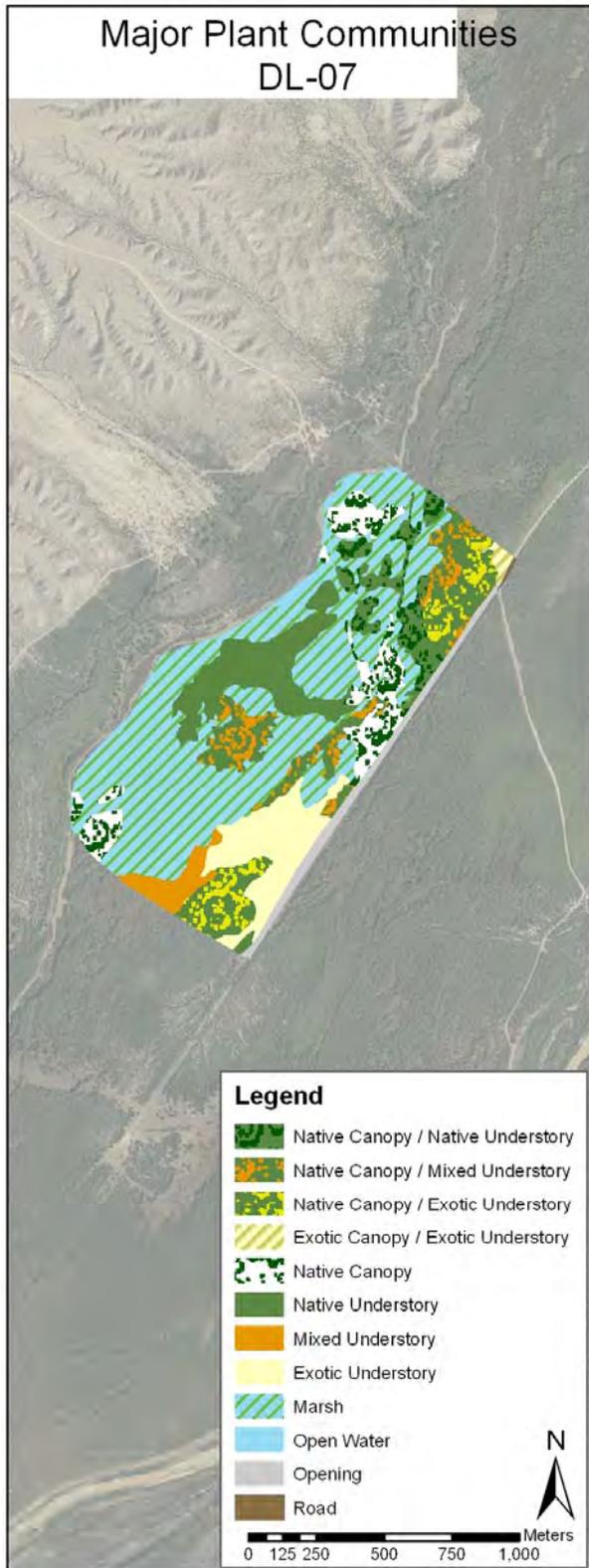
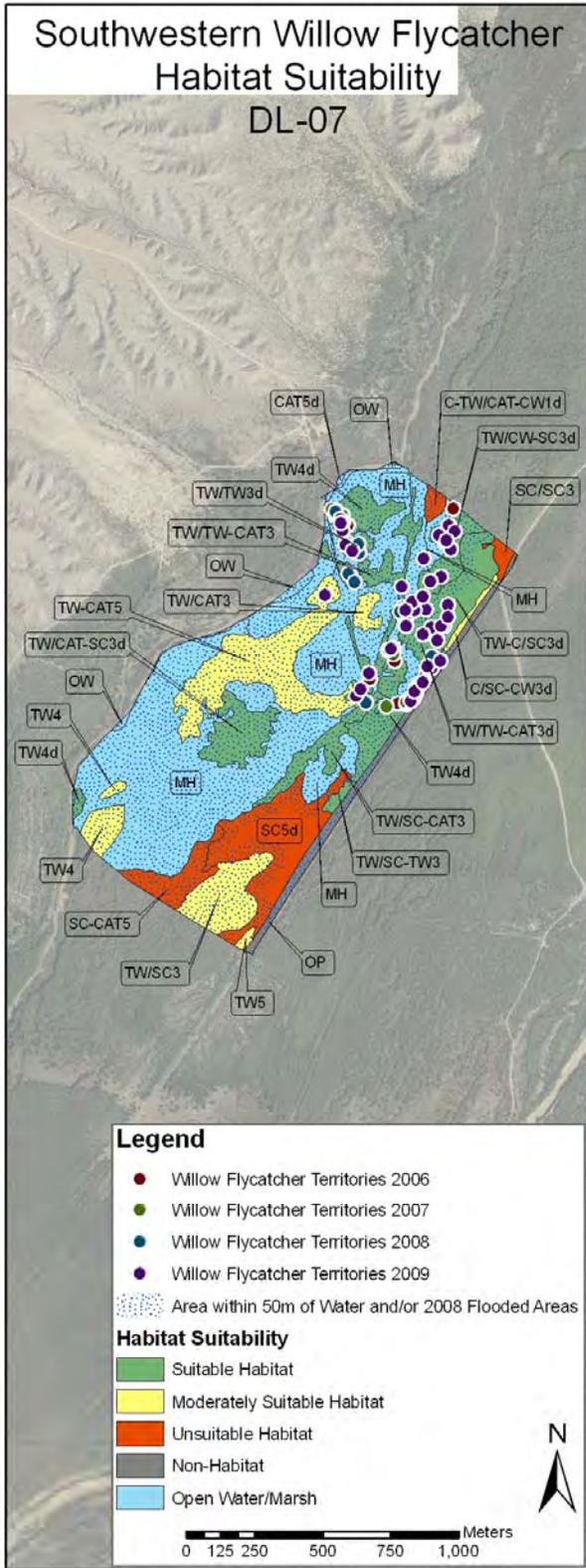
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	82	46%	75	42%
Moderately Suitable	56	31%	54	30%
Unsuitable	40	23%	28	16%
Total Area	178	100%	157	88%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C-TW/CAT-CW1d, TW/CAT3, TW/TW3d, TW/TW-CAT3d, TW/TW-CAT3	21	12%
Native Canopy/Mixed Understory	C/SC-CW3d, TW/CAT-SC3d, TW/CW-SC3d, TW-SC-CAT3, TW/SC-TW3	30	17%
Native Canopy/Exotic Understory	TW/SC3, TW-C/SC3d	27	15%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	2	1%
Native Canopy	TW4, TW4d	29	16%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	TW5, TW-CAT5	33	19%
Mixed Understory	SC-CAT5	9	5%
Exotic Understory	SC5d	28	16%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	2	12	14
2007	2	9	11
2008	6	16	22
2009	15	23	38



Survey Site: DL-08

Habitat Acreage

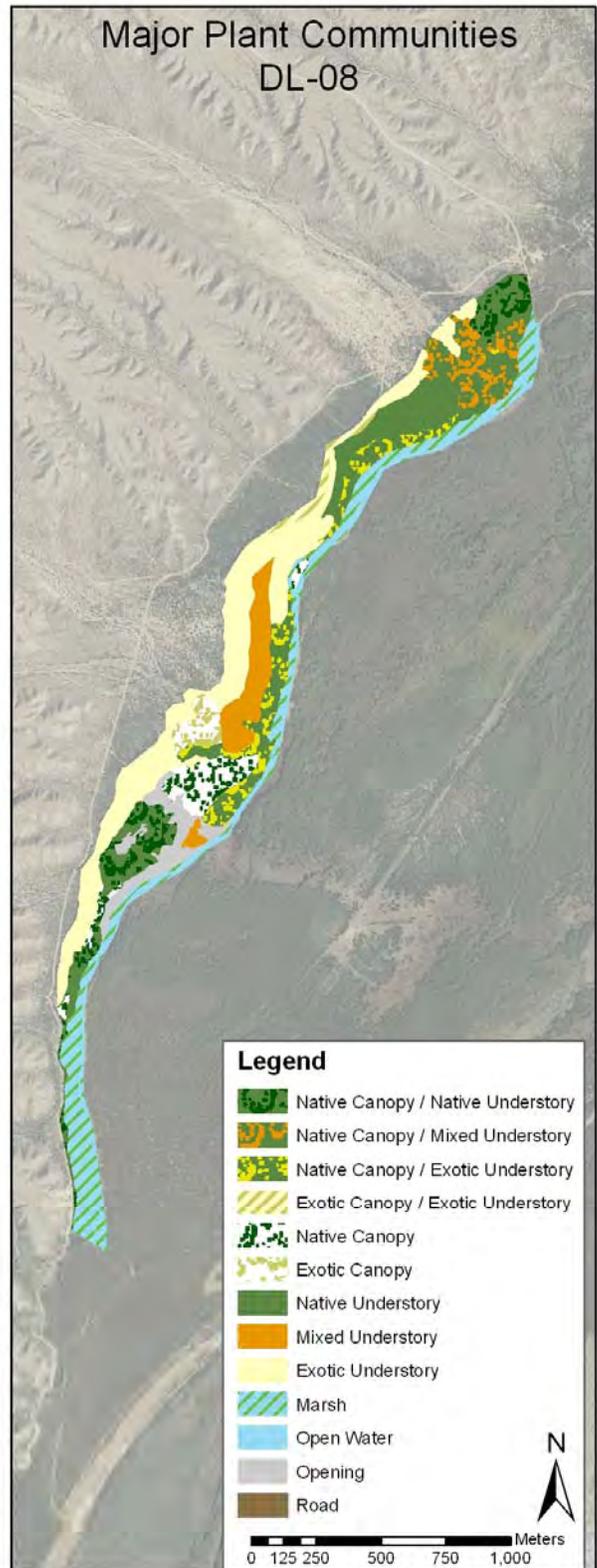
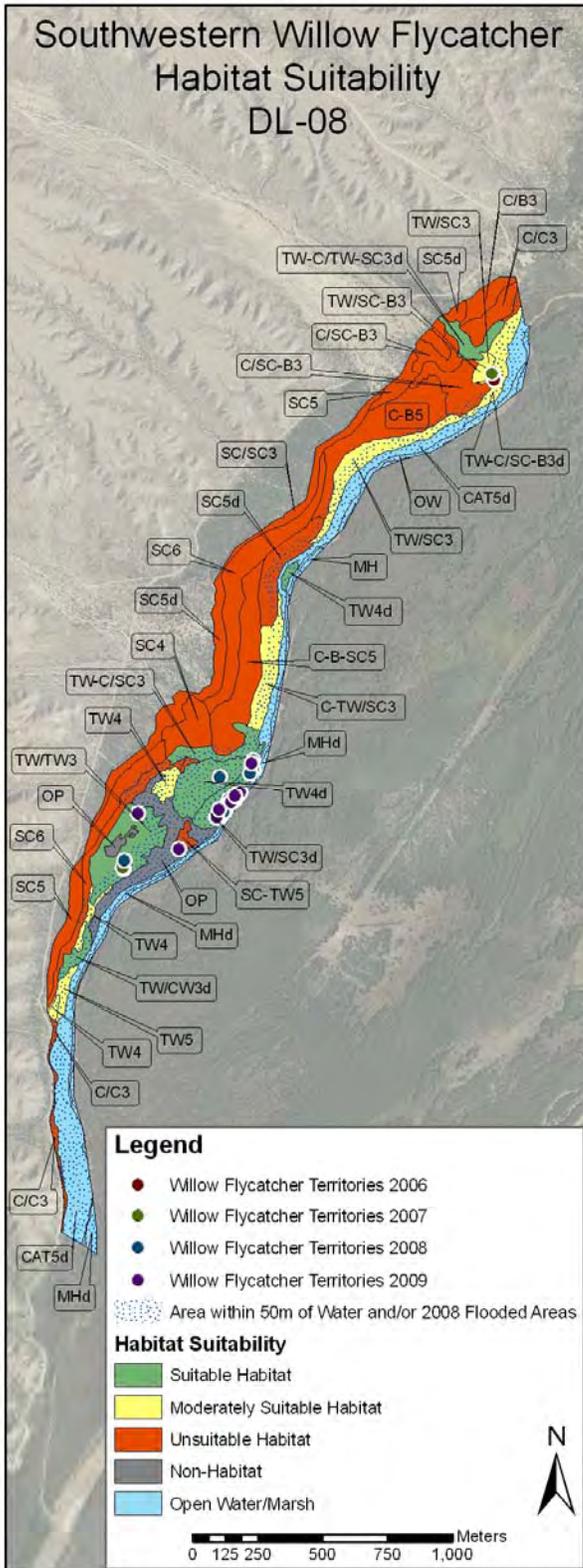
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	40	20%	29	15%
Moderately Suitable	29	15%	24	12%
Unsuitable	129	65%	16	8%
Total Area	198	100%	69	35%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/B3, C/C3, C/C-B3, TW/CW3d, TW/TW3	27	14%
Native Canopy/Mixed Understory	C/SC-B3, TW/SC-B3, TW-C/SC-B3d, TW-C/TW-SC3d	22	11%
Native Canopy/Exotic Understory	C-TW/SC3, TW/SC3, TW/SC3d, TW-C/SC3	27	14%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	5	3%
Native Canopy	TW4, TW4d	15	7%
Mixed Canopy	-	-	-
Exotic Canopy	SC4	6	3%
Native Understory	C-B5, TW5	19	10%
Mixed Understory	C-B-SC5, SC-TW5	17	8%
Exotic Understory	SC5, SC5d, SC6	60	30%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	5	6
2007	1	8	9
2008	4	6	10
2009	3	5	8



Survey Site: DL-09

Habitat Acreage

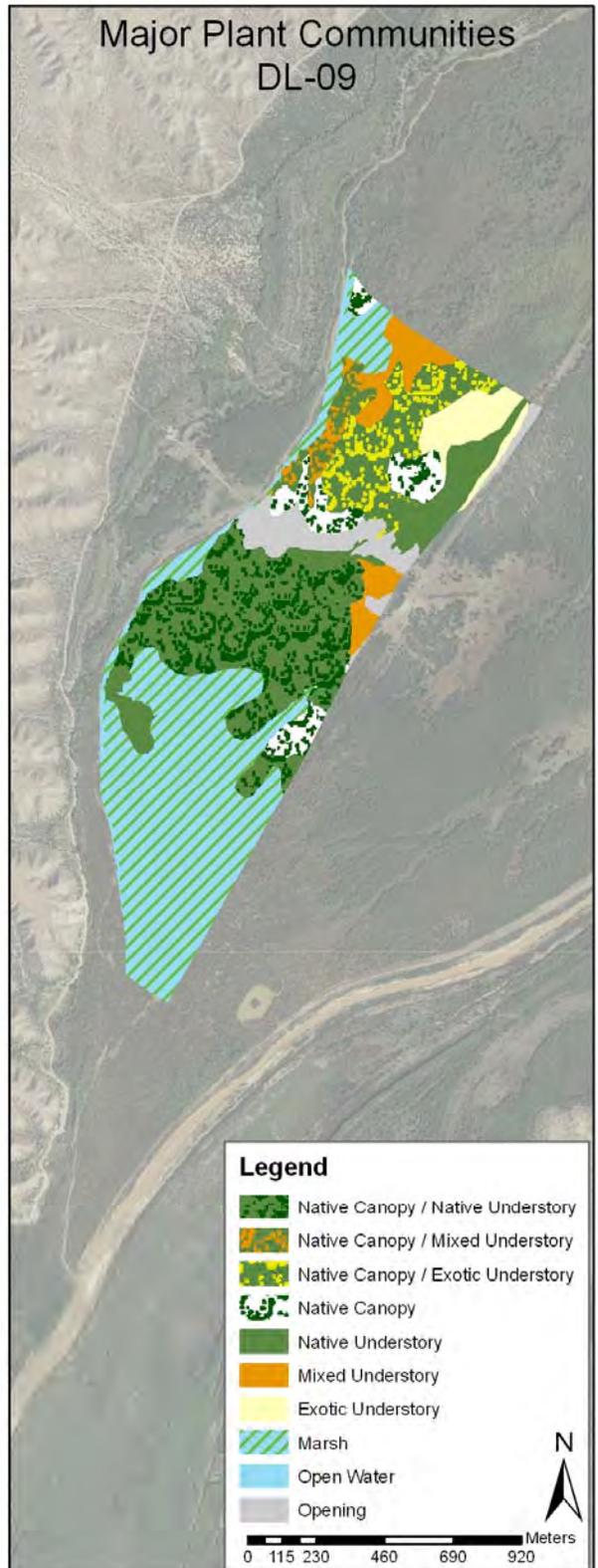
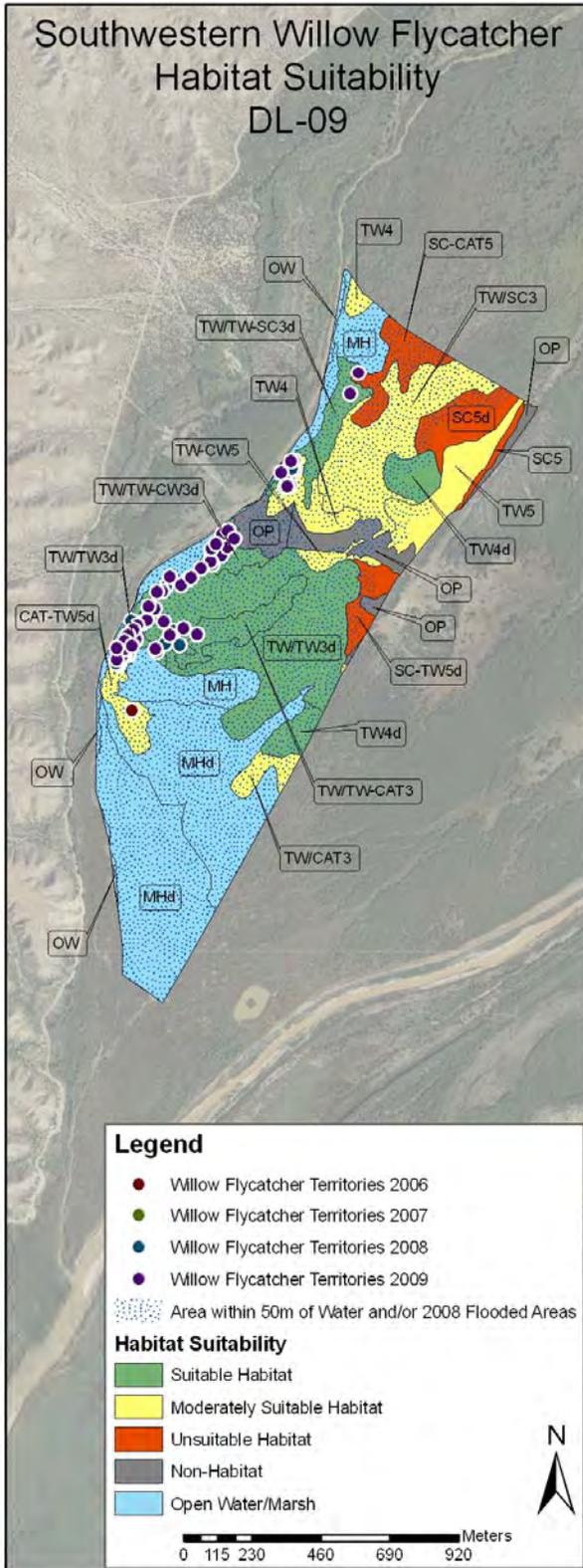
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	98	50%	96	49%
Moderately Suitable	68	35%	55	28%
Unsuitable	29	15%	19	10%
Total Area	195	100%	170	87%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CAT3, TW/TW3d, TW/TW-CAT3, TW/TW-CW3d	82	42%
Native Canopy/Mixed Understory	TW/TW-SC3d	10	5%
Native Canopy/Exotic Understory	TW/SC3	31	16%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	20	10%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-TW5d, TW5, TW-CW5	24	12%
Mixed Understory	SC-CAT5, SC-TW5d	16	8%
Exotic Understory	SC5	13	4%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	6	7
2007	1	12	13
2008	6	14	20
2009	3	36	39



Survey Site: DL-10

Habitat Acreage

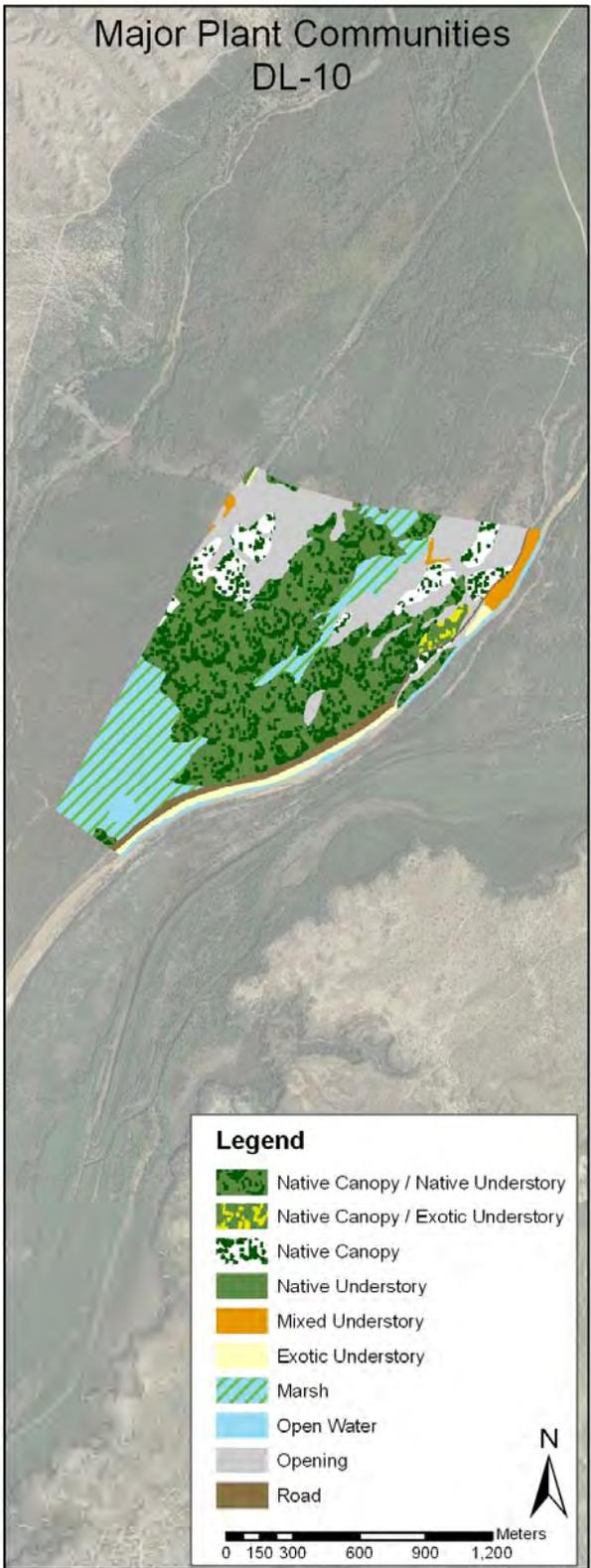
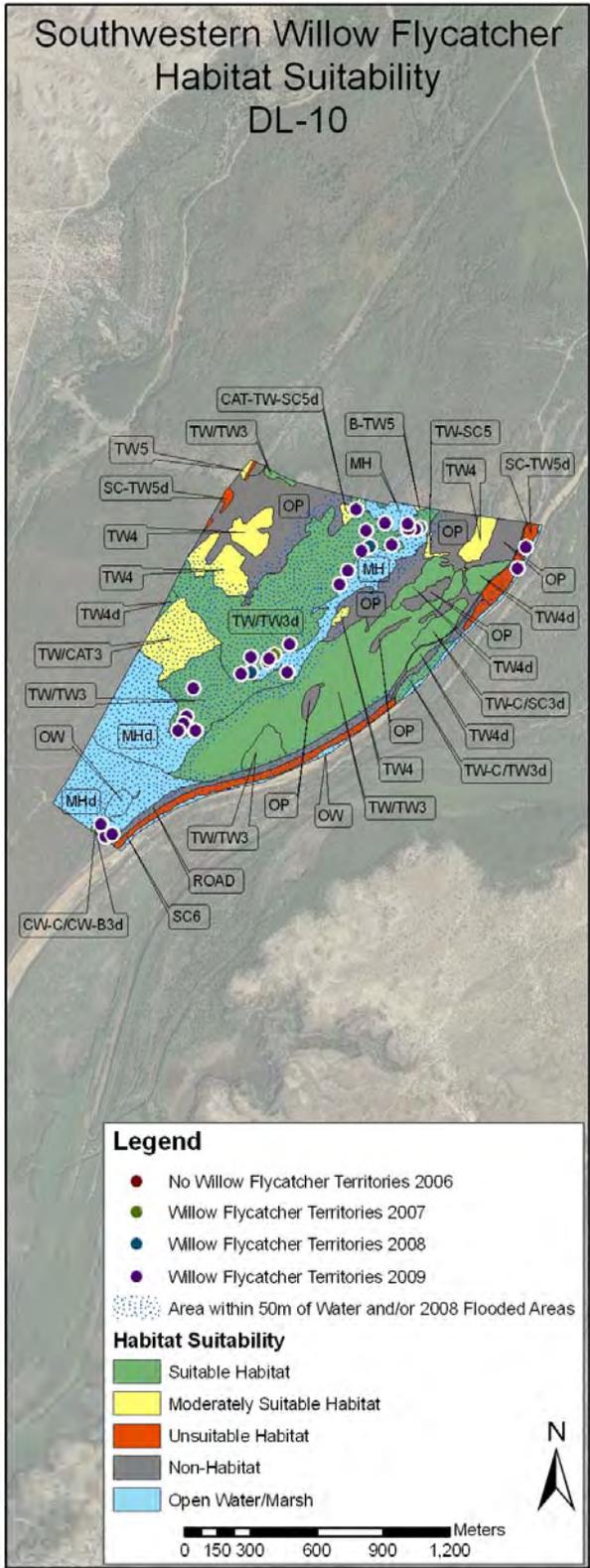
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	215	78%	129	47%
Moderately Suitable	43	16%	25	9%
Unsuitable	18	6%	17	6%
Total Area	276	100%	171	62%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	CW-C/CW-B3d, TW/CAT3, TW/TW3, TW/TW3d, TW-C/TW3d	214	78%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	TW-C/SC3d	5	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	35	13%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	CAT-TW-SC5d	2	1%
Mixed Understory	SC-TW5d, TW-SC5	8	3%
Exotic Understory	SC5d, SC6	11	4%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	1	0	1
2008	2	5	7
2009	9	16	25



Survey Site: DL-11

Habitat Acreage

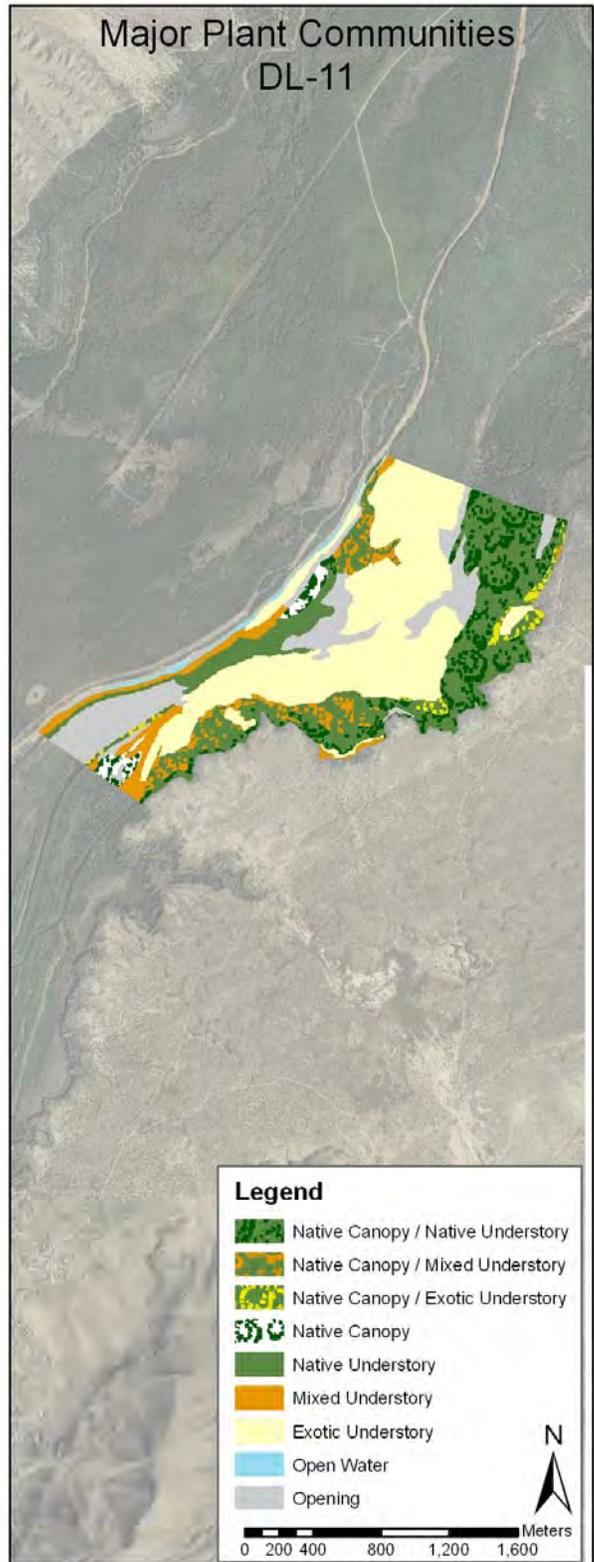
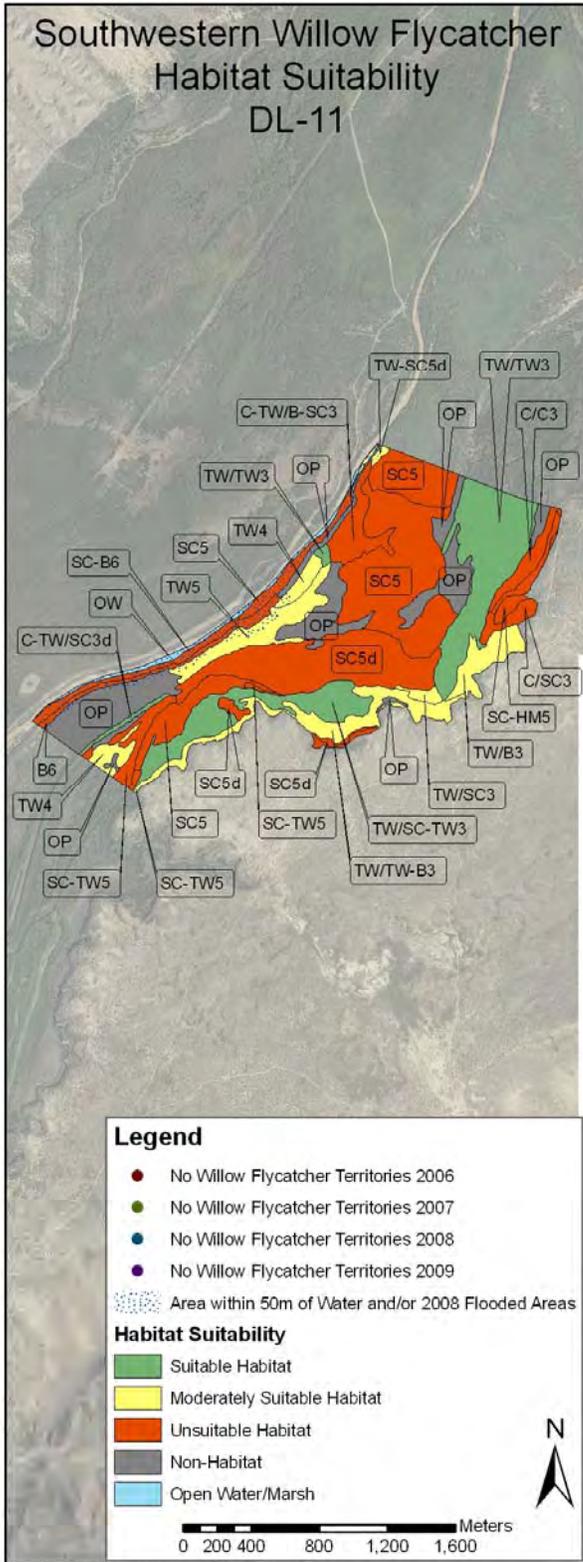
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	134	23%	0	0%
Moderately Suitable	105	18%	10	2%
Unsuitable	340	59%	34	6%
Total Area	579	100%	44	8%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/C3, TW/B3, TW/TW3, TW/TW3d, TW/TW-B3	149	26%
Native Canopy/Mixed Understory	C-TW/B-SC3, TW/SC-TW3	68	12%
Native Canopy/Exotic Understory	C/SC3, C-TW/SC3d, TW/SC3	20	3%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	15	3%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B6, TW5	37	6%
Mixed Understory	SC-B5, SC-B6, SC-HMS-CW5, SC-TW5, TW-SC5d	33	6%
Exotic Understory	SC5d, SC5, SC-HMS5	257	44%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: DL-12

Habitat Acreage

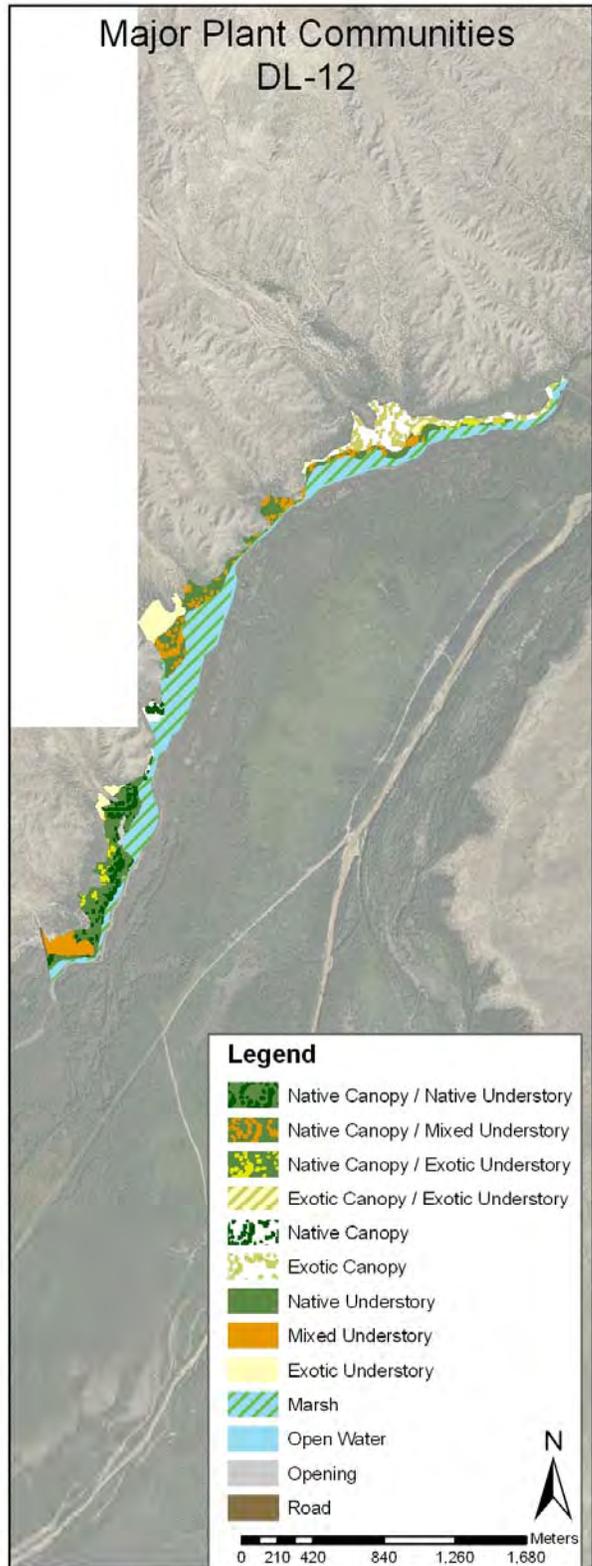
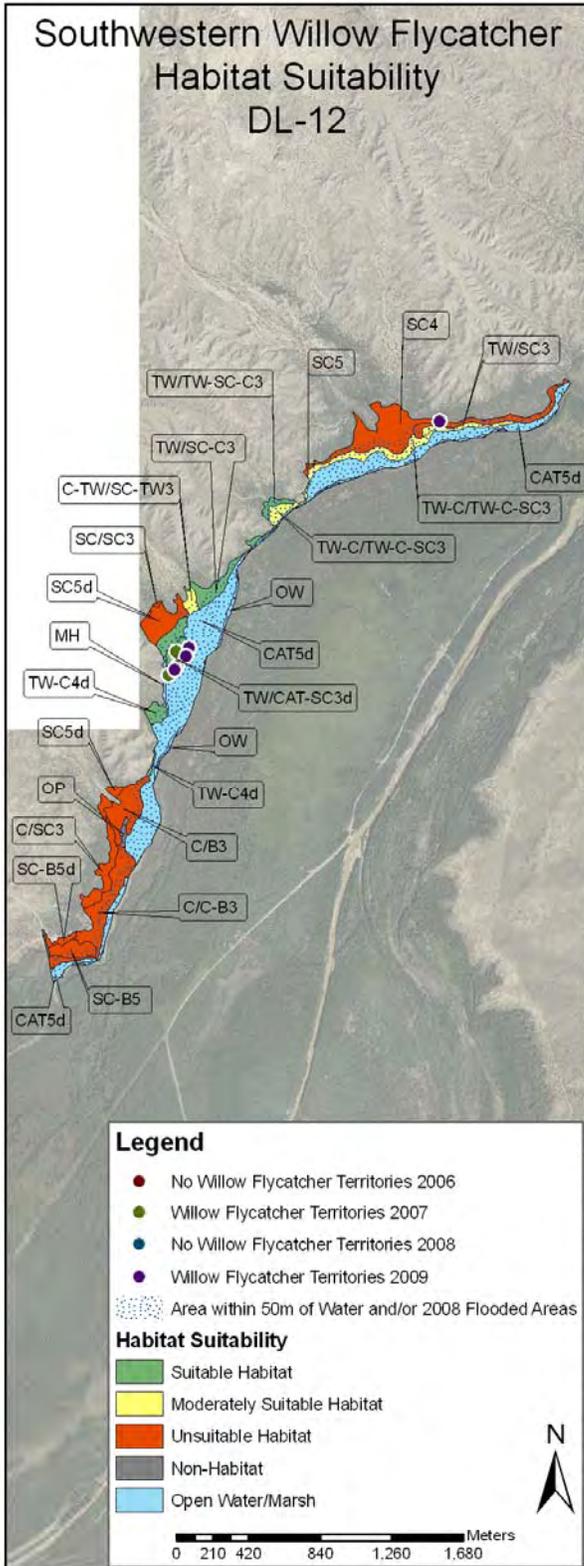
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	22	18%	18	15%
Moderately Suitable	16	13%	15	12%
Unsuitable	83	69%	32	26%
Total Area	121	100%	65	53%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C/B3, C/C-B3	28	23%
Native Canopy/Mixed Understory	C-TW/SC-TW3, TW/CAT-SC3d, TW/SC-C3, TW/SC-TW3, TW/TW-SC-C3, TW-C/TW-C-SC3	31	26%
Native Canopy/Exotic Understory	C/SC3, TW/SC3	10	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	SC/SC3	2	2%
Native Canopy	TW-C4d	3	2%
Mixed Canopy	-	-	-
Exotic Canopy	SC4	27	22%
Native Understory	-	-	-
Mixed Understory	SC-B5, SC-B5d	8	7%
Exotic Understory	SC5, SC5d	12	10%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	2	1	3
2008	0	0	0
2009	2	2	4



Survey Site: EB-01

Habitat Acreage

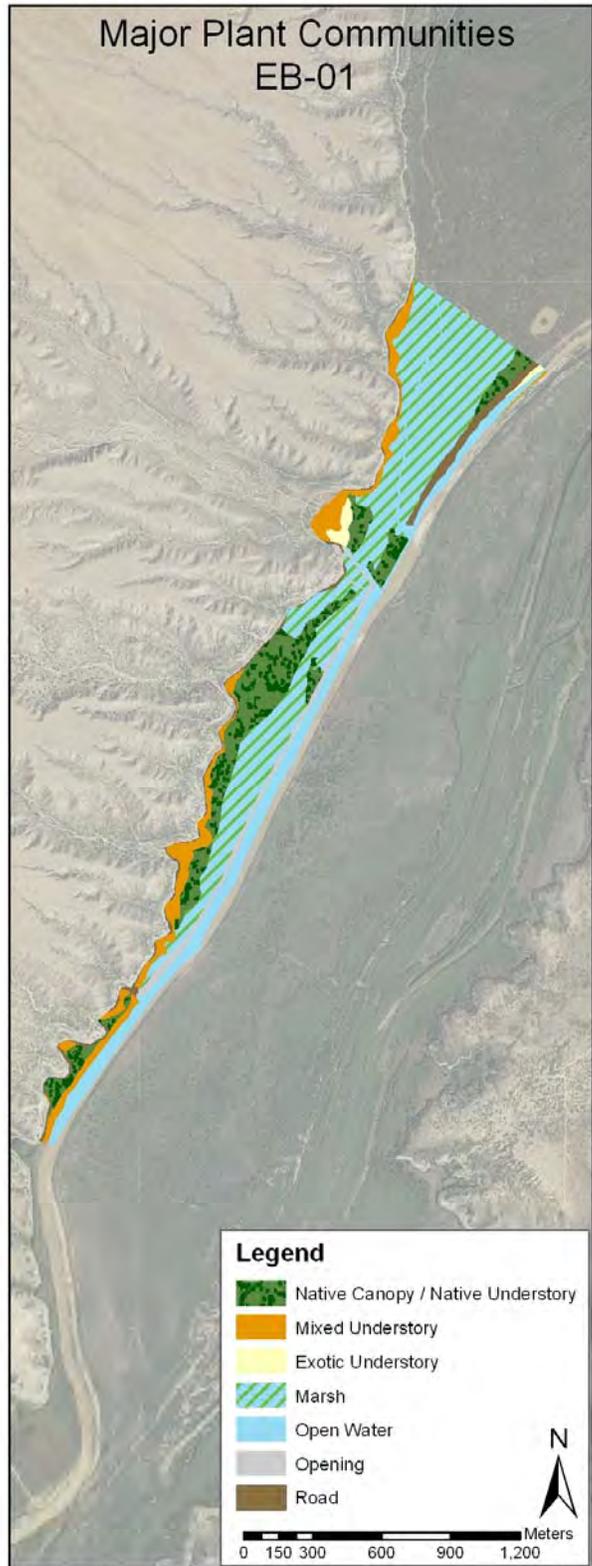
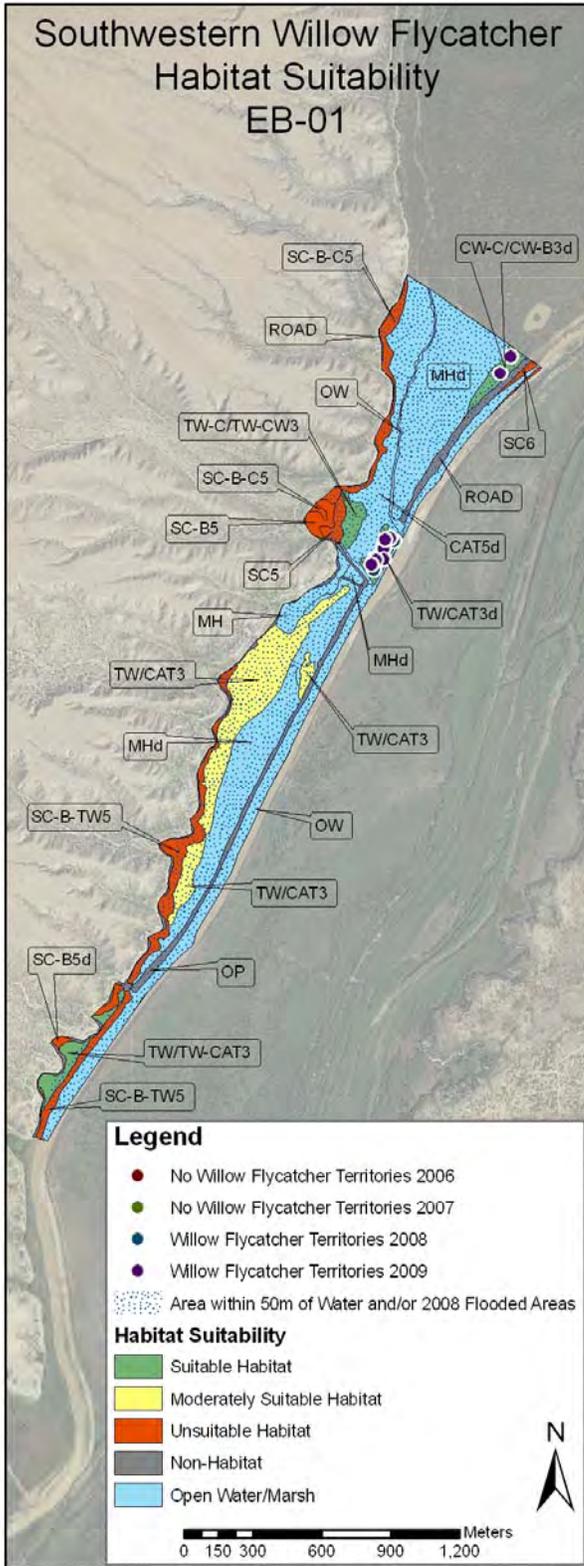
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	19	21%	16	18%
Moderately Suitable	38	42%	38	42%
Unsuitable	34	37%	27	29%
Total Area	91	100%	81	89%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	CW-C/CW-B3d, TW/CAT3, TW/CAT3d, TW/TW-CAT3, TW-C/TW-CW3	57	63%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-B5, SC-B5d, SC-B-C5, SC-B-TW5	30	33%
Exotic Understory	SC5, SC6	4	4%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	5	0	5
2009	1	7	8



Survey Site: EB-02

Habitat Acreage

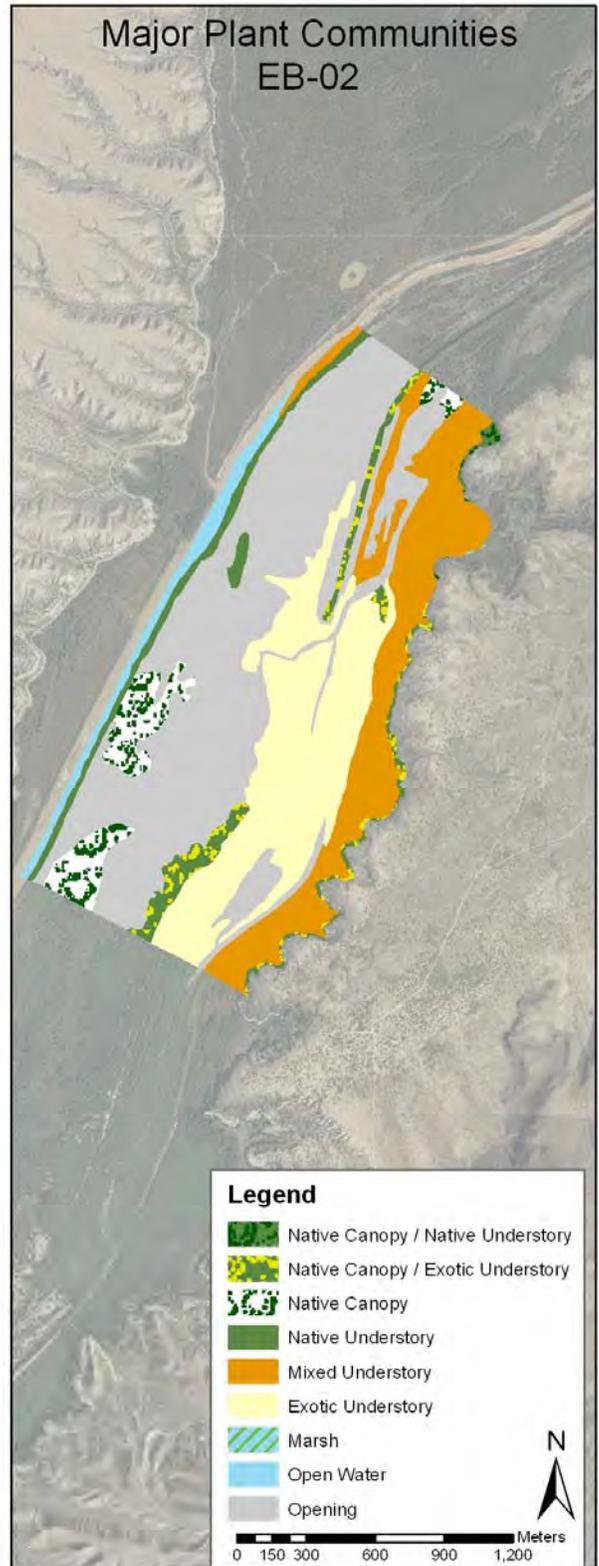
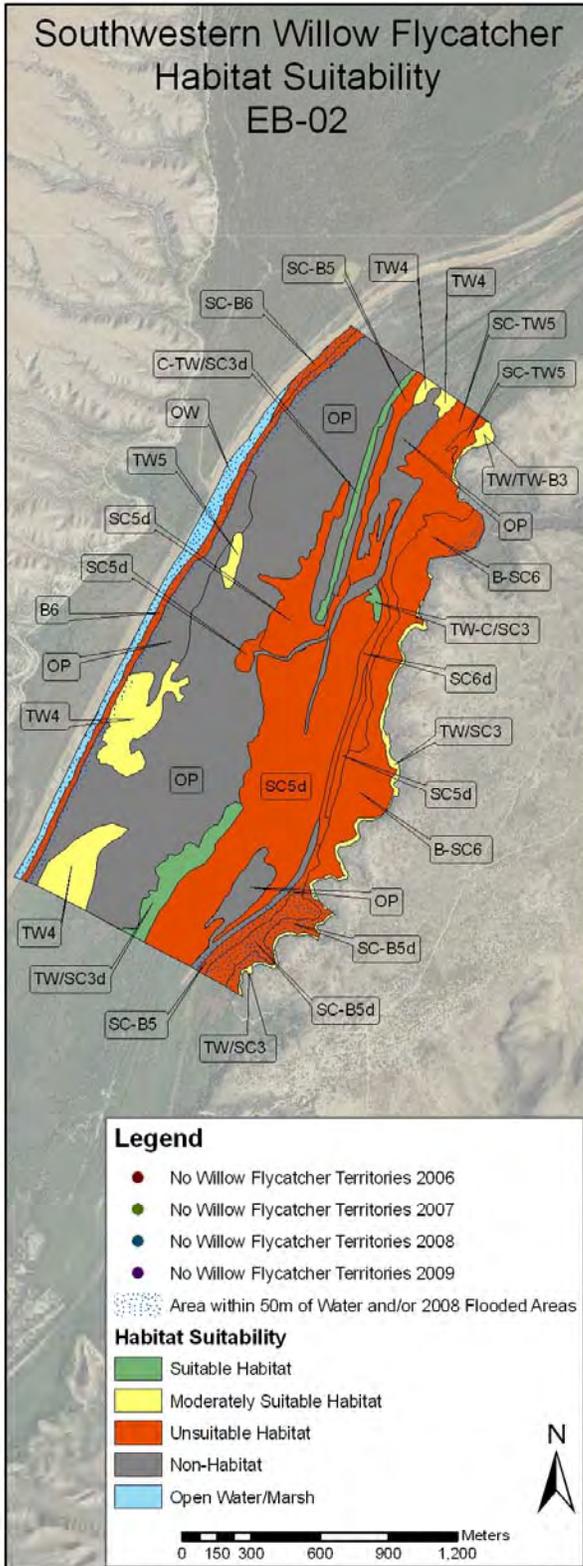
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	24	6%	0	0%
Moderately Suitable	54	14%	4	1%
Unsuitable	318	80%	50	13%
Total Area	396	100%	54	14%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW-B3	3	1%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	C-TW/SC3d, TW/SC3, TW/SC3d, TW-C/SC3	32	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	40	10%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B6, TW5	23	6%
Mixed Understory	B-SC6, SC-B5, SC-B5d, SC-B6, SC-TW5	135	34%
Exotic Understory	SC5d, SC6d	163	41%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-03

Habitat Acreage

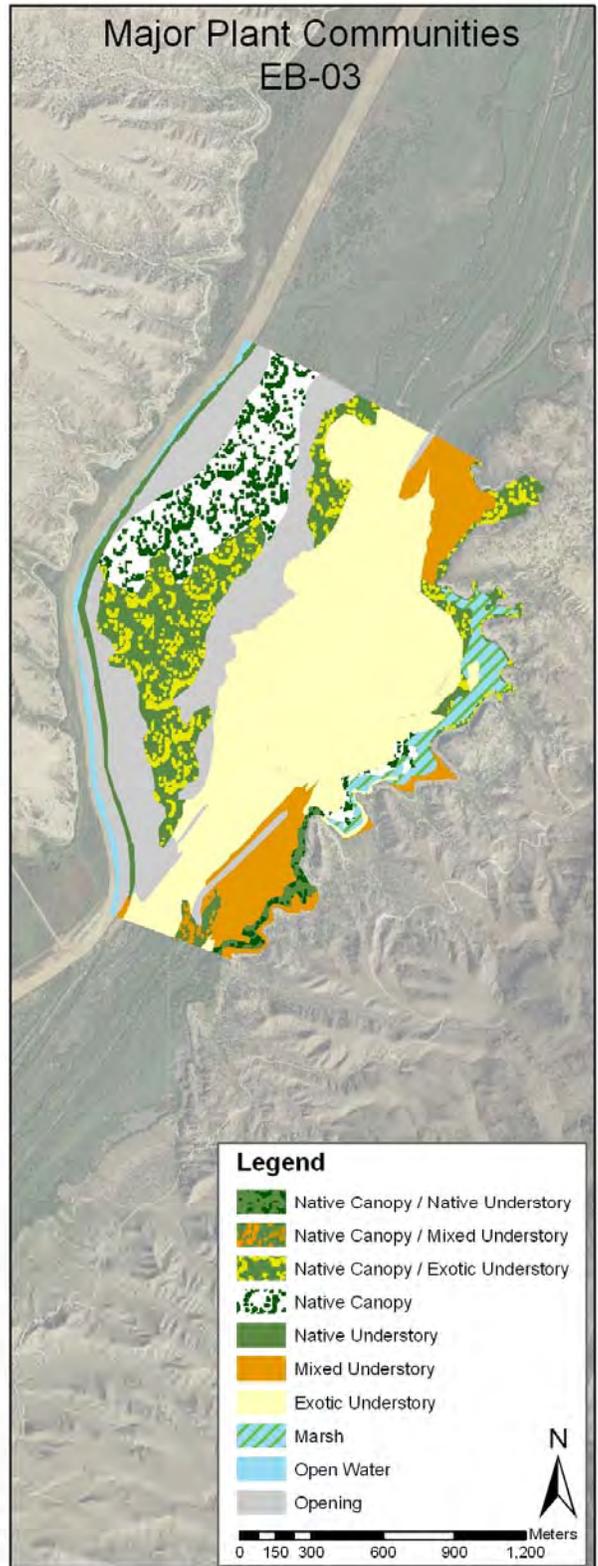
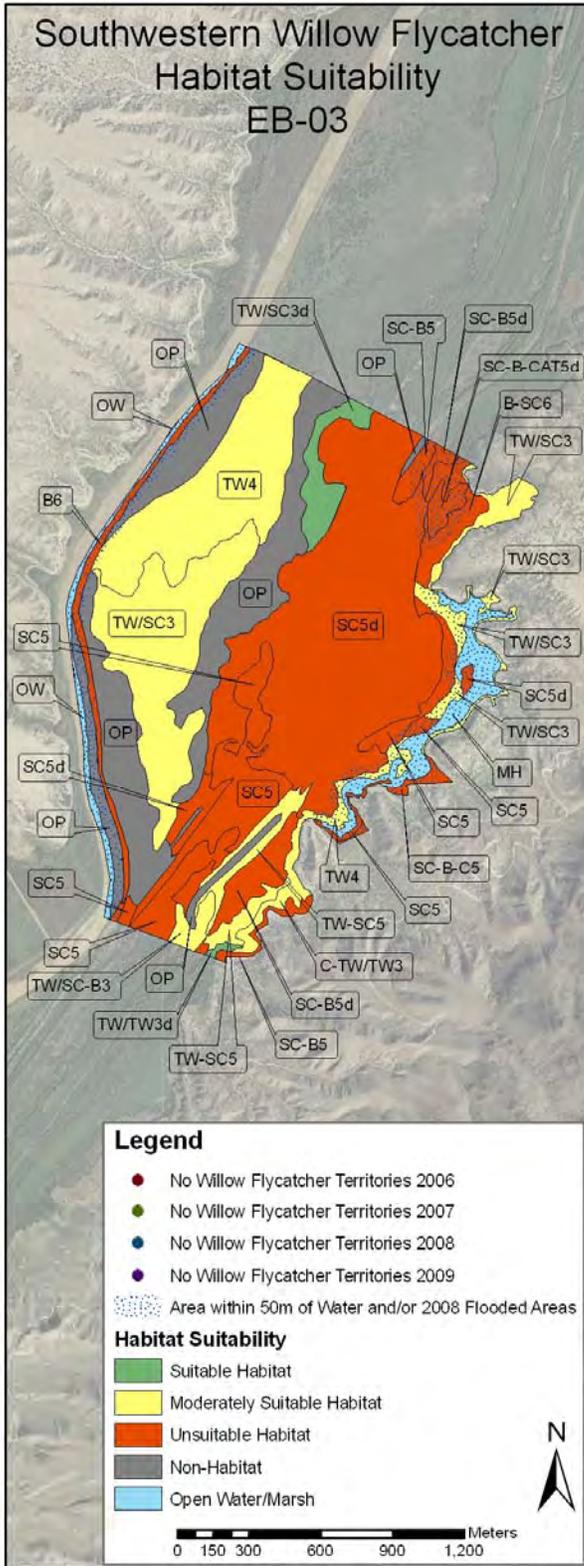
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	17	3%	0	0%
Moderately Suitable	227	38%	17	3%
Unsuitable	354	59%	47	8%
Total Area	598	100%	64	11%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	C-TW/TW3, TW/TW3d	9	2%
Native Canopy/Mixed Understory	TW/SC-B3	6	1%
Native Canopy/Exotic Understory	TW/SC3, TW/SC3d	123	21%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	91	15%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B6	14	2%
Mixed Understory	B-SC5, B-SC6, B-SC6d, SC-B5, SC-B5d, SC-B-C5, SC-B-CAT5d, TW-SC5	64	11%
Exotic Understory	SC5, SC5d	291	49%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-04

Habitat Acreage

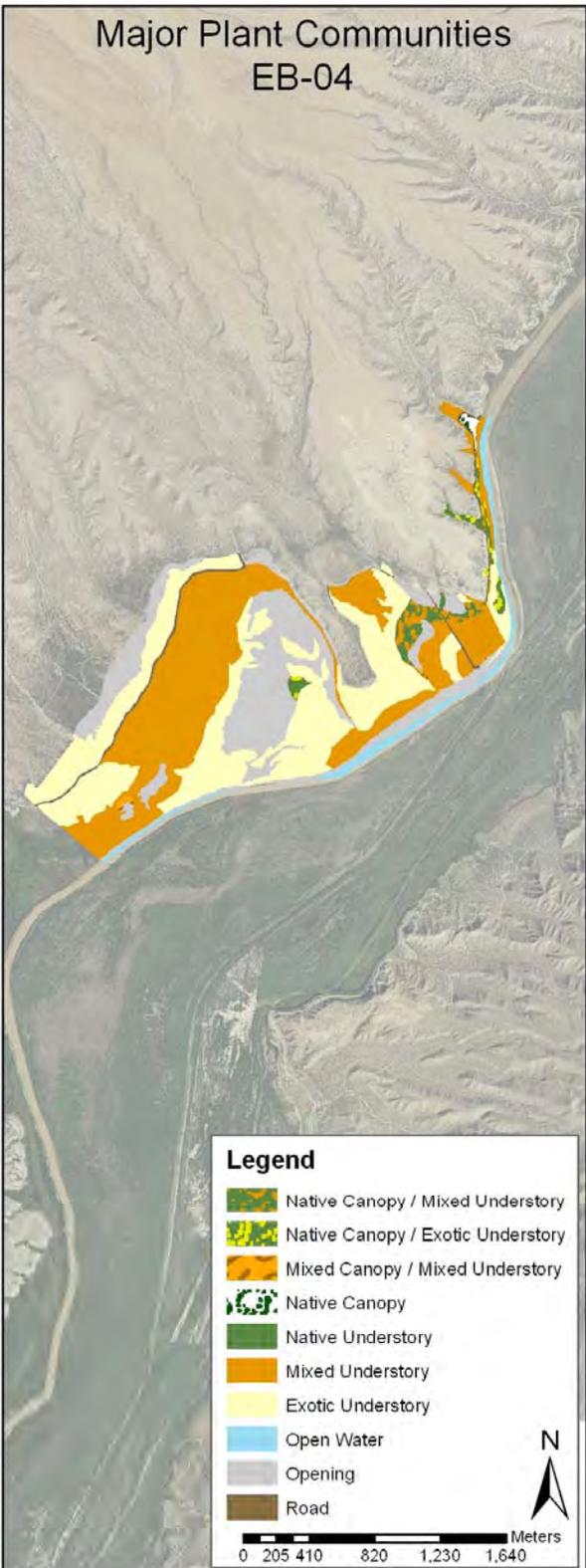
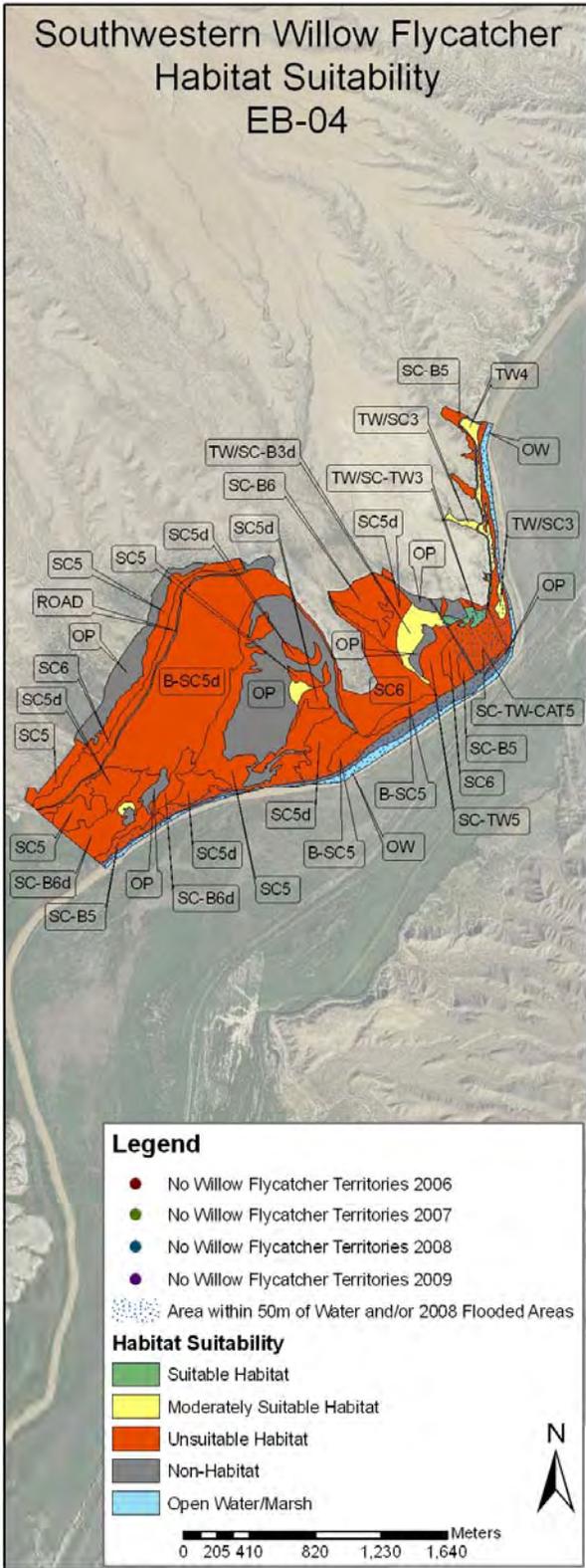
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	5	1%	4	1%
Moderately Suitable	29	5%	6	1%
Unsuitable	539	94%	49	8%
Total Area	573	100%	59	10%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	TW/SC-B3d, TW/SC-TW3	19	3%
Native Canopy/Exotic Understory	TW/SC3	11	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	SC-C/SC-B3d	1	0%
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	3	1%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B-TW-C5	1	0%
Mixed Understory	B-SC5, B-SC5d, SC-B5, SC-B6, SC-B6d, SC-B-TW5, SC-TW5, SC-TW-CAT5	268	47%
Exotic Understory	SC5, SC5d, SC6	271	47%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-05

Habitat Acreage

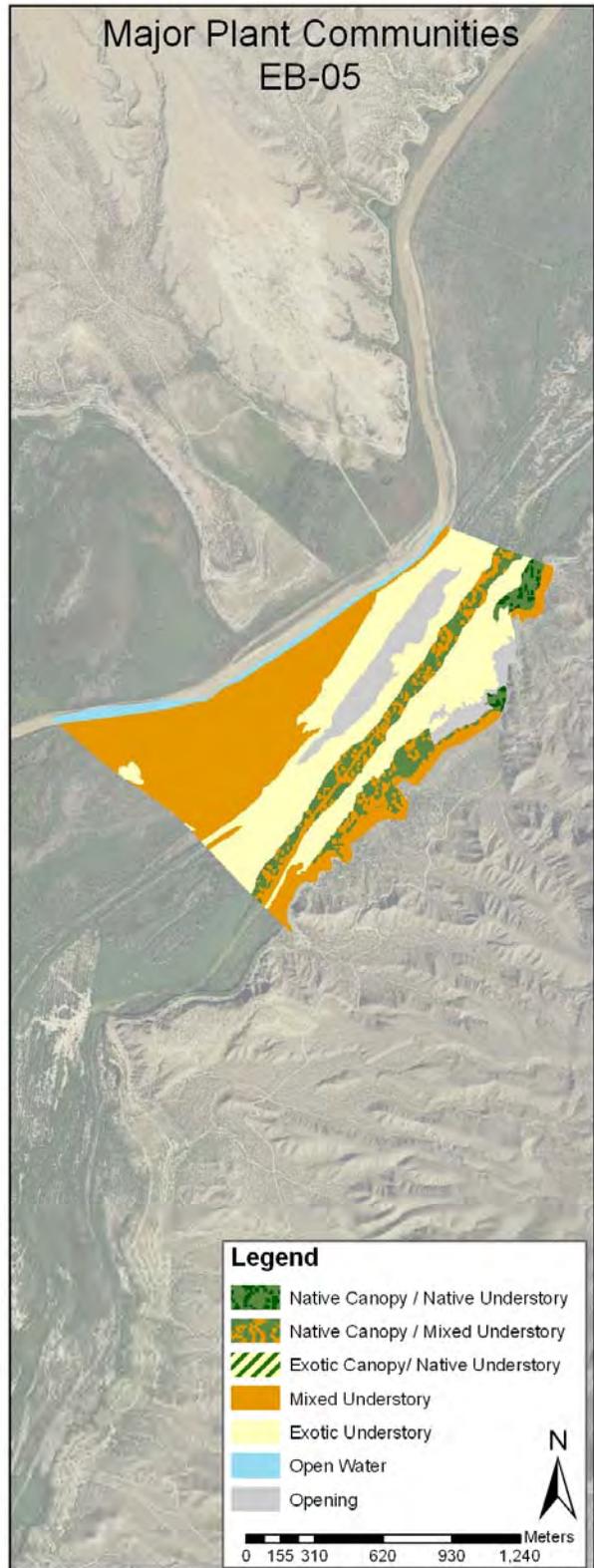
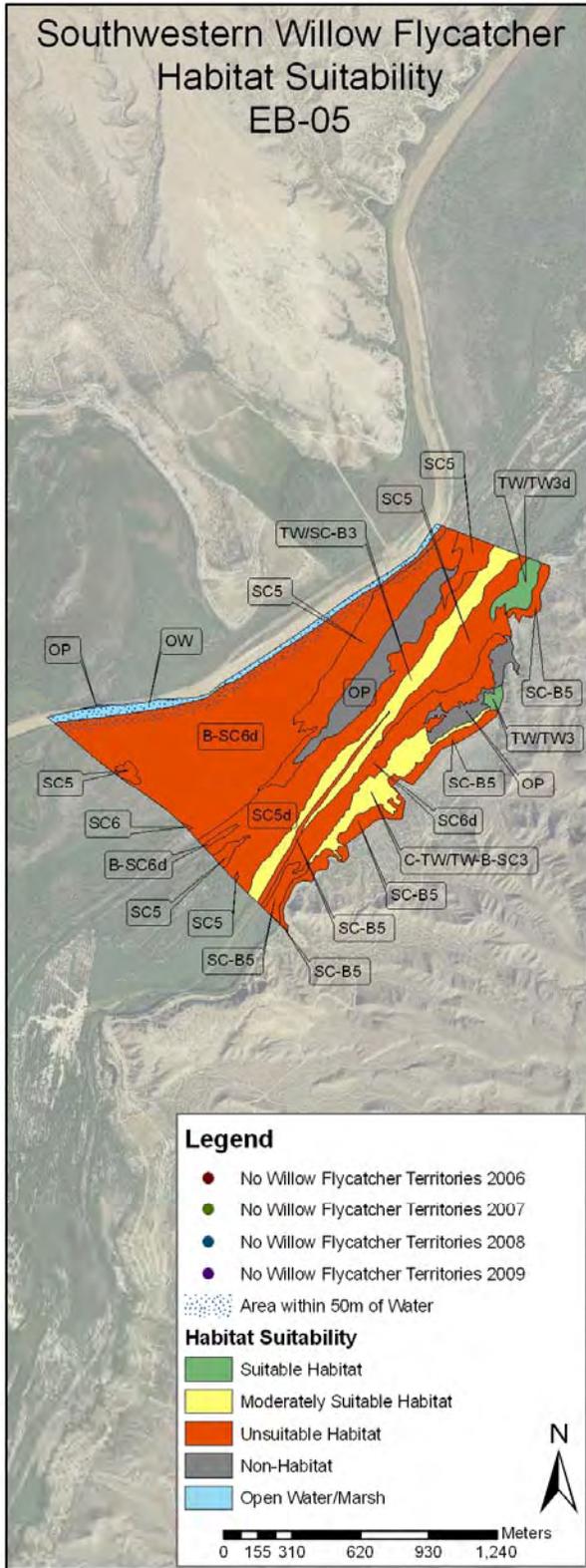
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	8	2%	0	0%
Moderately Suitable	52	14%	0	0%
Unsuitable	311	84%	25	7%
Total Area	371	100%	25	7%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3, TW/TW3d	8	2%
Native Canopy/Mixed Understory	C-TW/TW-B-SC3, TW/SC-B3	52	14%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	B-SC6d, SC-B5	160	43%
Exotic Understory	SC5, SC5d, SC6d	151	41%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-06

Habitat Acreage

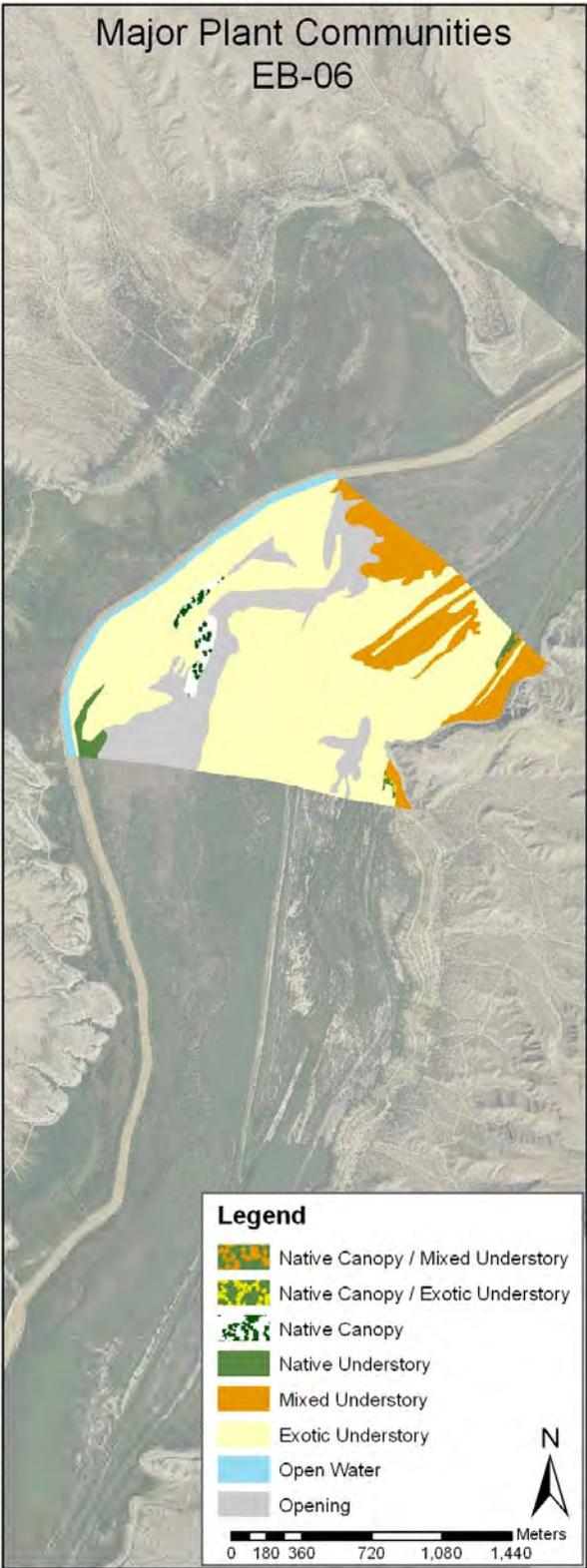
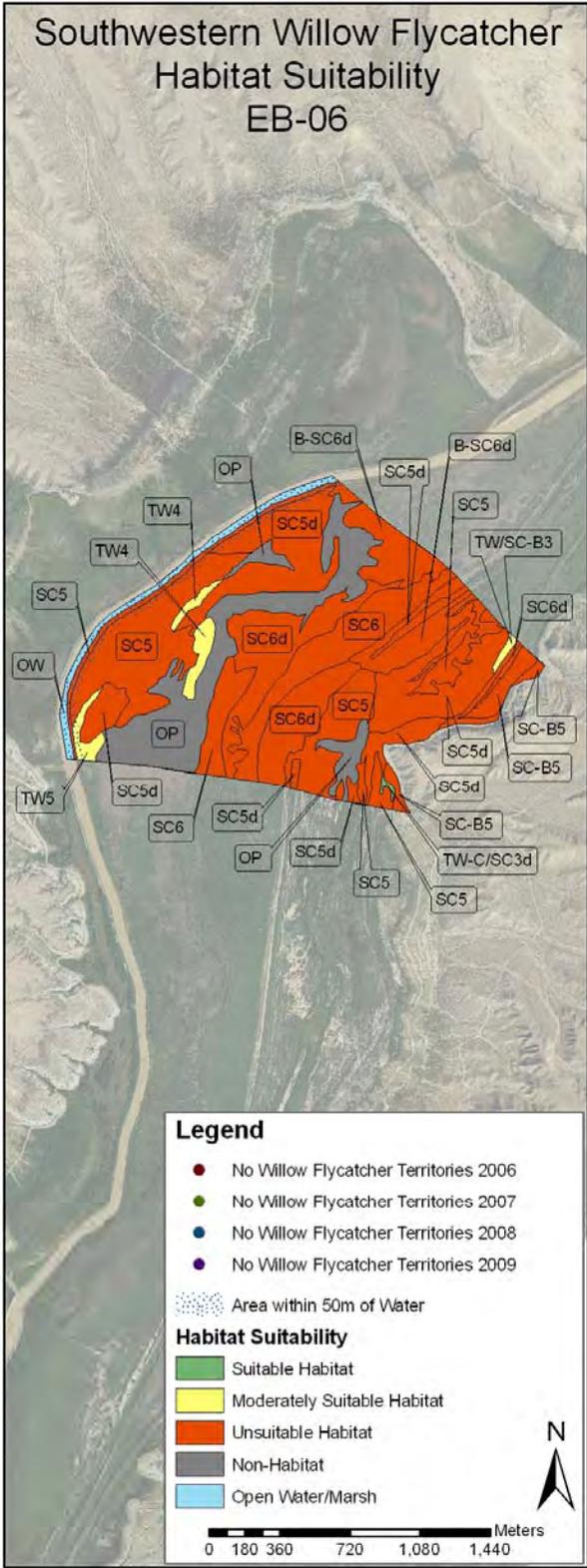
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	1	0%	0	0%
Moderately Suitable	18	4%	2	0%
Unsuitable	487	96%	25	5%
Total Area	506	100%	27	5%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	TW/SC-B3	2	0%
Native Canopy/Exotic Understory	TW-C/SC3d	1	0%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	10	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	TW5	6	1%
Mixed Understory	B-SC6d, SC-B5	75	15%
Exotic Understory	SC5, SC5d, SC6, SC6d	412	81%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-07

Habitat Acreage

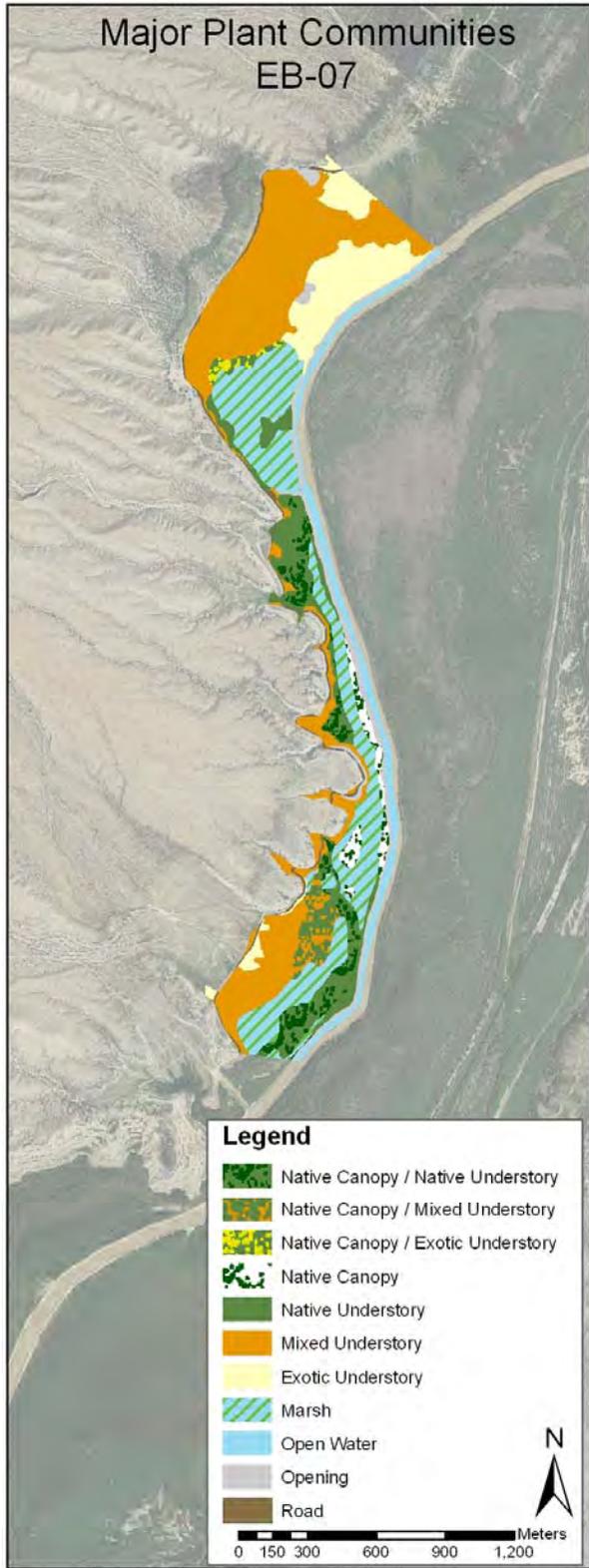
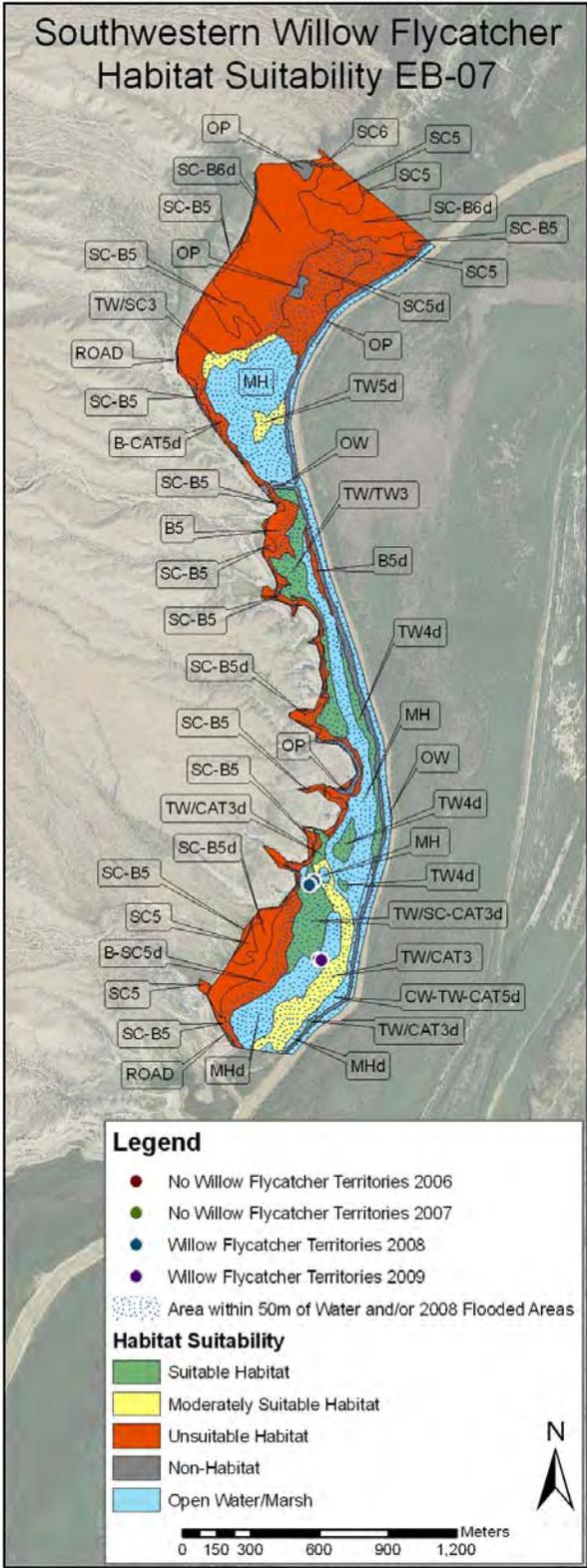
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	38	15%	38	15%
Moderately Suitable	29	12%	29	12%
Unsuitable	181	73%	72	29%
Total Area	248	100%	139	56%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-CAT3, TW/CAT3d, TW/TW3	34	14%
Native Canopy/Mixed Understory	TW/SC-CAT3d	12	5%
Native Canopy/Exotic Understory	TW/SC3	4	2%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d	10	4%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B5, B5d, B-CAT5d, TW5d	18	7%
Mixed Understory	B-SC5d, SC-B5, SC-B5d, SC-B6d	126	51%
Exotic Understory	SC5, SC5d, SC6	44	18%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	3	0	3
2009	1	0	1



Survey Site: EB-08

Habitat Acreage

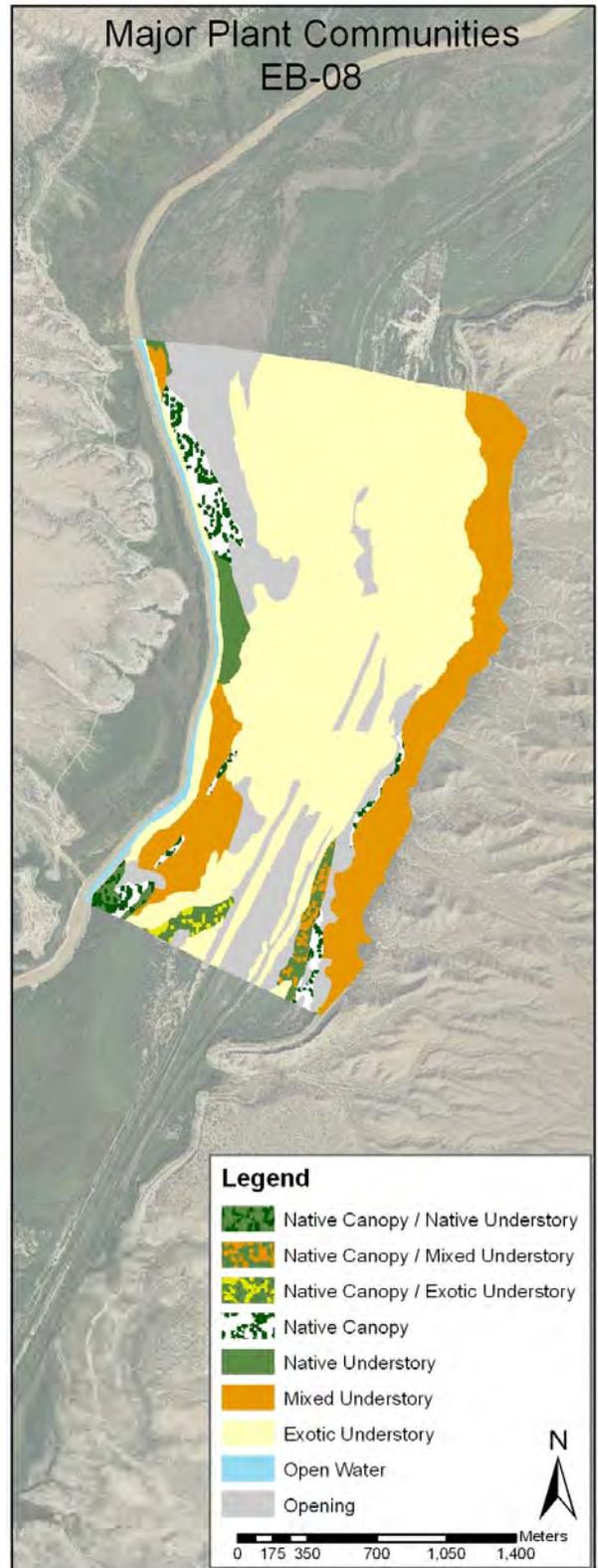
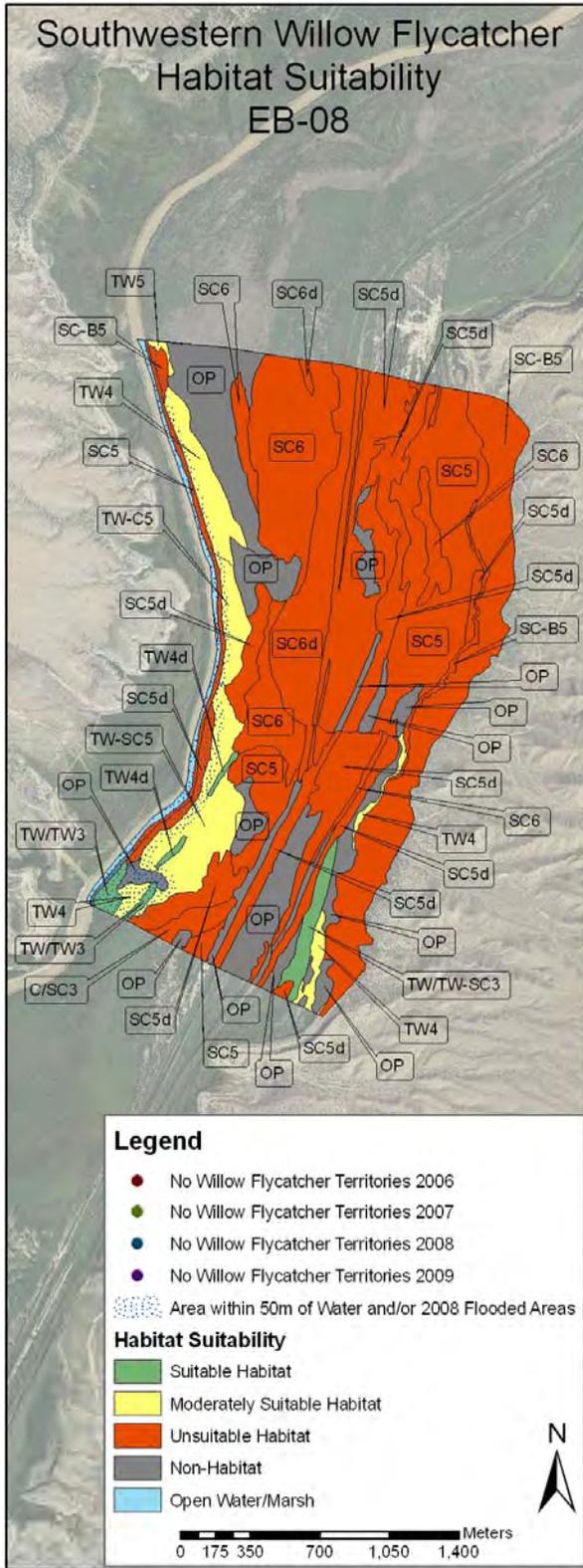
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	24	3%	7	1%
Moderately Suitable	109	12%	31	3%
Unsuitable	774	85%	27	3%
Total Area	907	100%	65	7%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3	7	1%
Native Canopy/Mixed Understory	TW/TW-SC3	14	2%
Native Canopy/Exotic Understory	C/SC3	10	1%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TWd4	42	5%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	TW5, TW-C5	17	2%
Mixed Understory	SC-B5	195	21%
Exotic Understory	SC5, SC5d, SC6, SC6d	622	68%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-09

Habitat Acreage

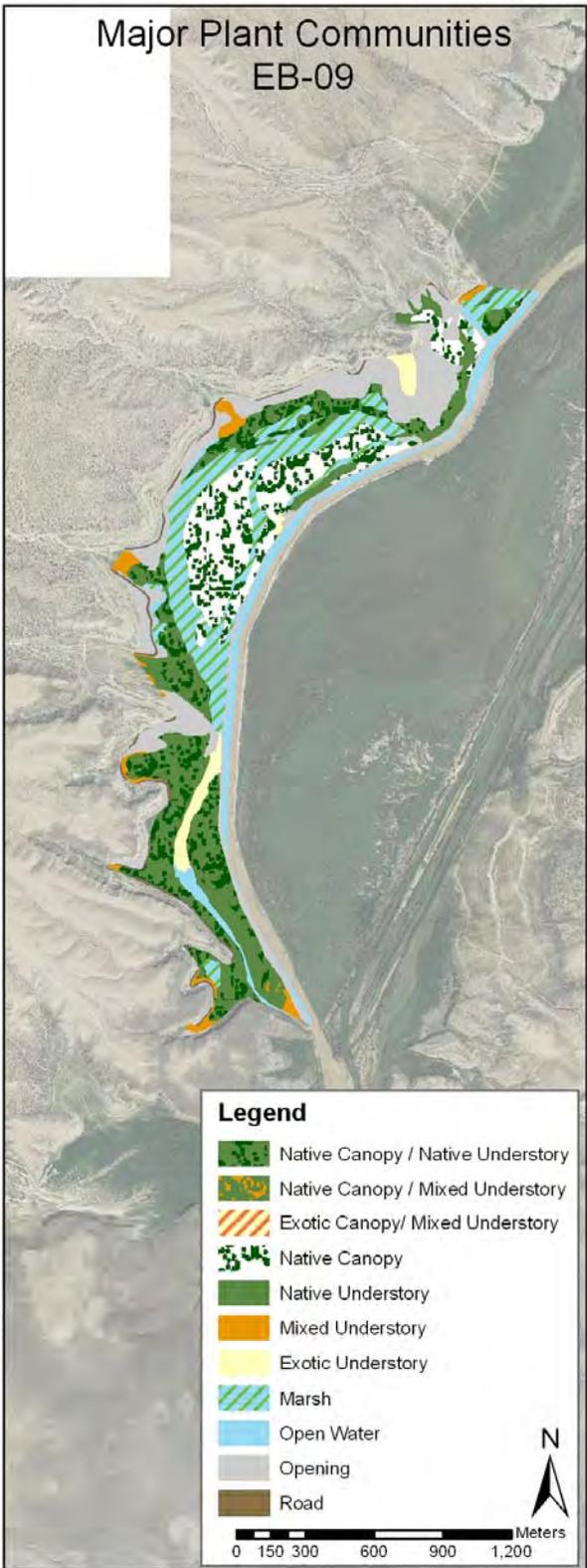
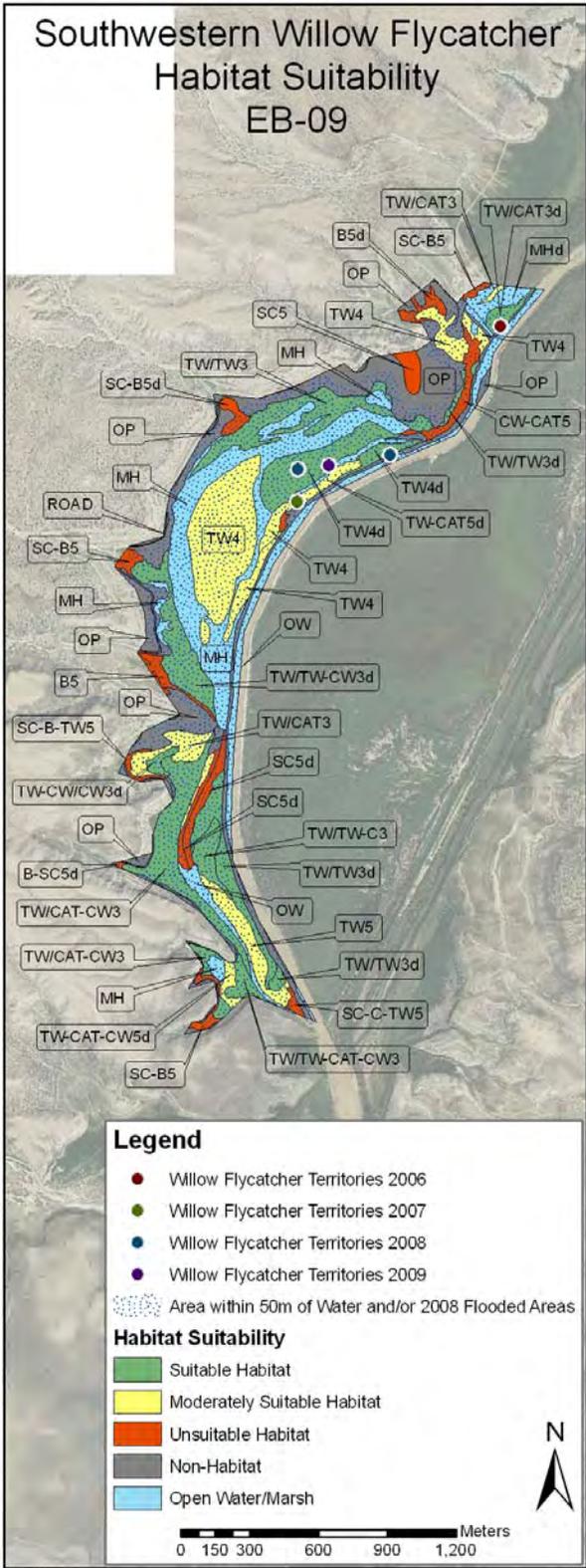
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	113	51%	113	51%
Moderately Suitable	75	34%	75	34%
Unsuitable	32	15%	25	11%
Total Area	220	100%	213	96%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CAT3, TW/CAT3d, TW/CAT-CW3, TW/TW3, TW/TW3d, TW/TW-C3, TW/TW-CAT3, TW/TW-CAT-CW3, TW/TW-CW3d, TW-C/TW3d, TW-CW/CW3d	97	44%
Native Canopy/Mixed Understory	-	1	0%
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	74	34%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B5, B5d, CW-CAT5, TW5, TW-CAT-CW5d	27	12%
Mixed Understory	SC-B5, SC-B5d, SC-B-TW5, SC-C-TW5	10	5%
Exotic Understory	SC5, SC5d	11	1%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	1	0	1
2007	0	1	1
2008	1	1	2
2009	0	1	1



Survey Site: EB-10

Habitat Acreage

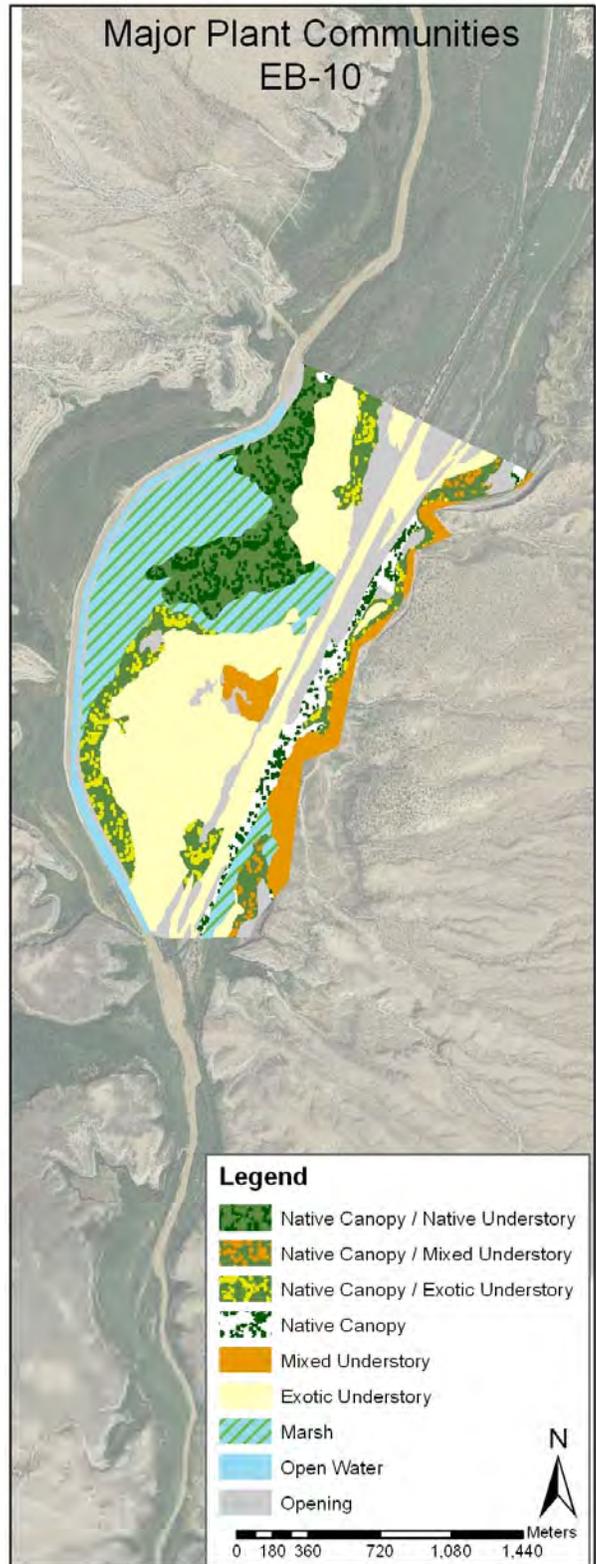
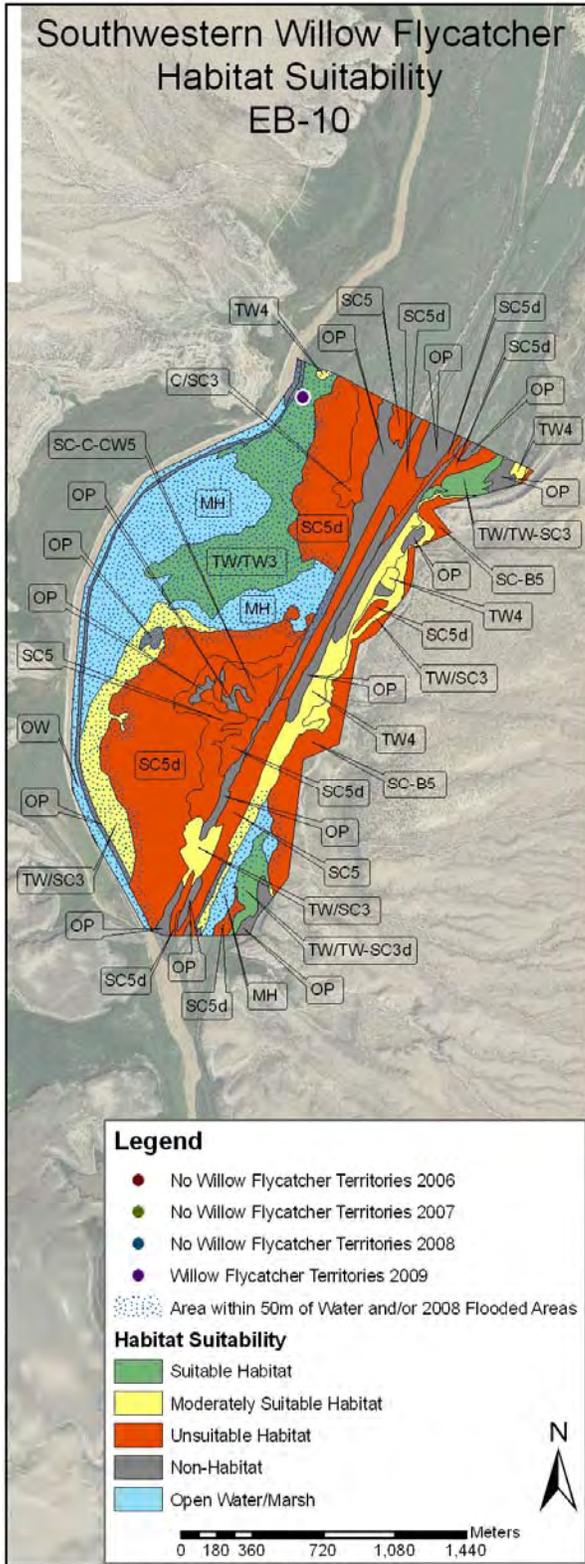
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	115	20%	100	17%
Moderately Suitable	104	18%	50	9%
Unsuitable	367	62%	61	10%
Total Area	586	100%	211	36%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3	94	16%
Native Canopy/Mixed Understory	TW/SC-TW3d, TW/TW-SC3, TW/TW-SC3d	20	3%
Native Canopy/Exotic Understory	C/SC3, TW/SC3	81	14%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4	38	6%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-B5, SC-C-CW5	53	9%
Exotic Understory	SC5, SC5d	300	51%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	1	0	1



Survey Site: EB-11

Habitat Acreage

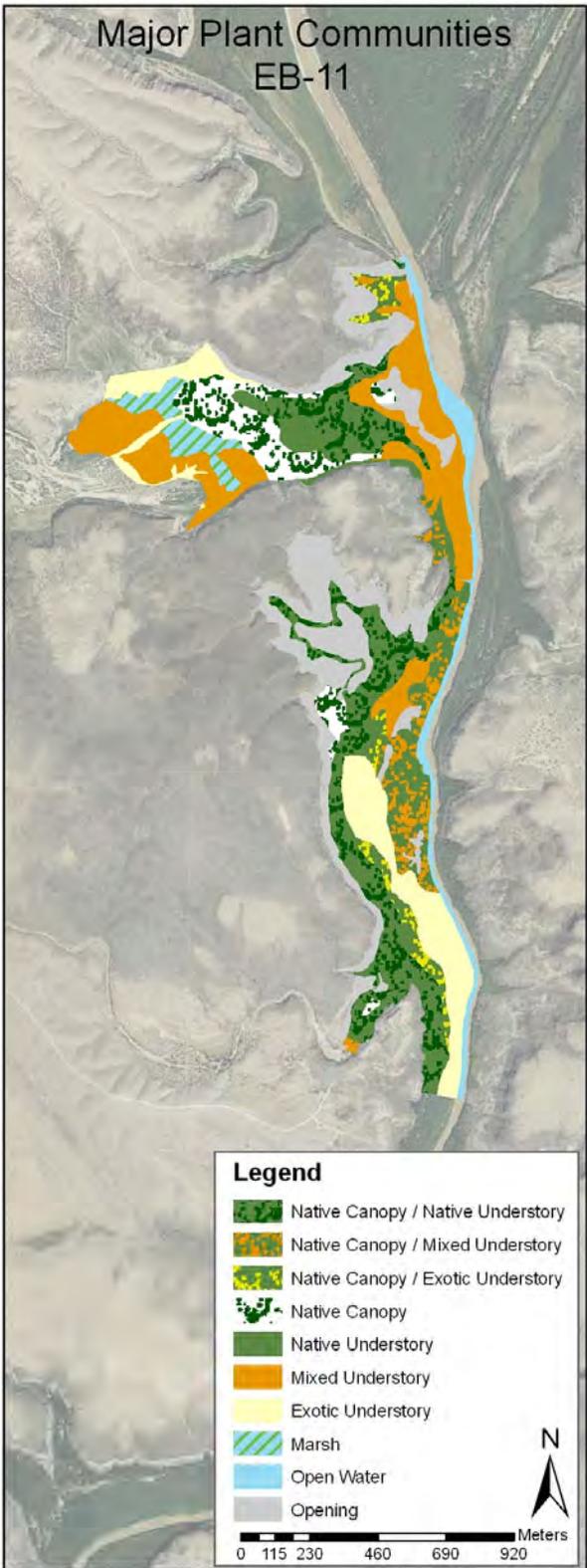
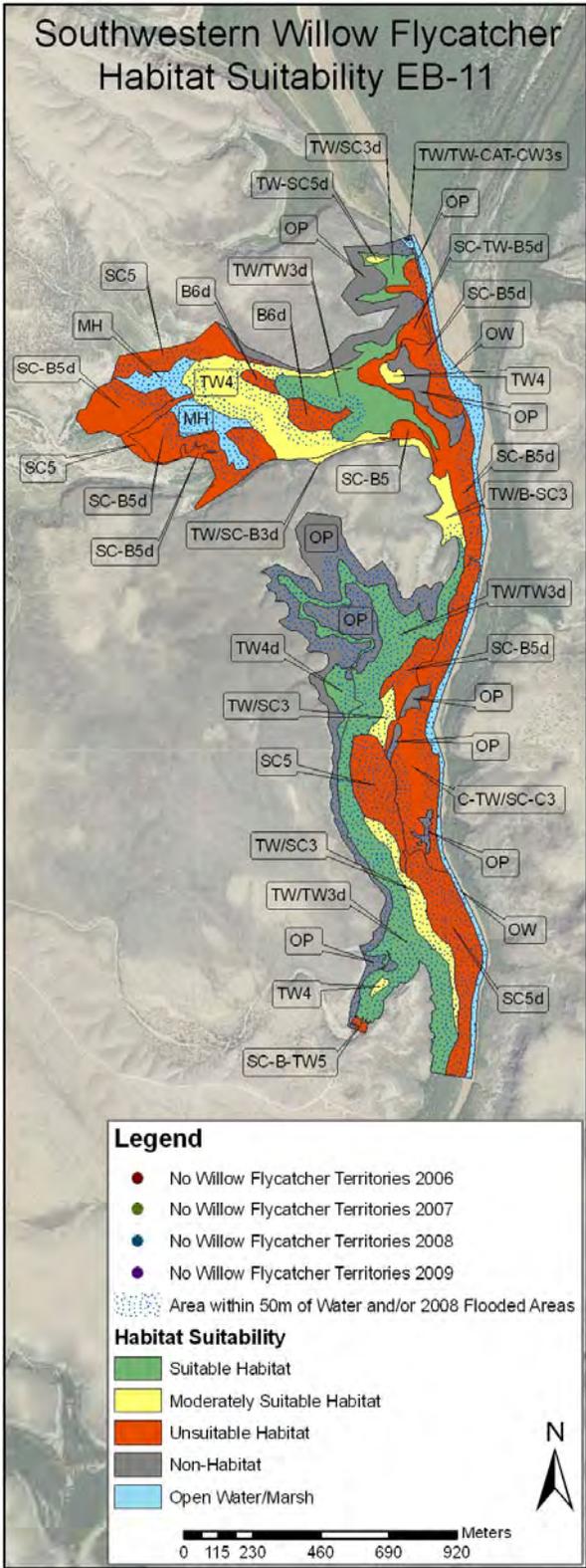
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	71	32%	55	25%
Moderately Suitable	36	16%	22	10%
Unsuitable	117	52%	81	36%
Total Area	224	100%	158	71%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3d	64	29%
Native Canopy/Mixed Understory	C-TW/SC-C3, TW/B-SC3	27	12%
Native Canopy/Exotic Understory	TW/SC3, TW/SC3d	11	5%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	25	11%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	B6d, TW/SC-B3d	7	3%
Mixed Understory	SC-B5, SC-B5d, SC-TW-B5d	52	23%
Exotic Understory	SC5, SC5d	38	17%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-12

Habitat Acreage

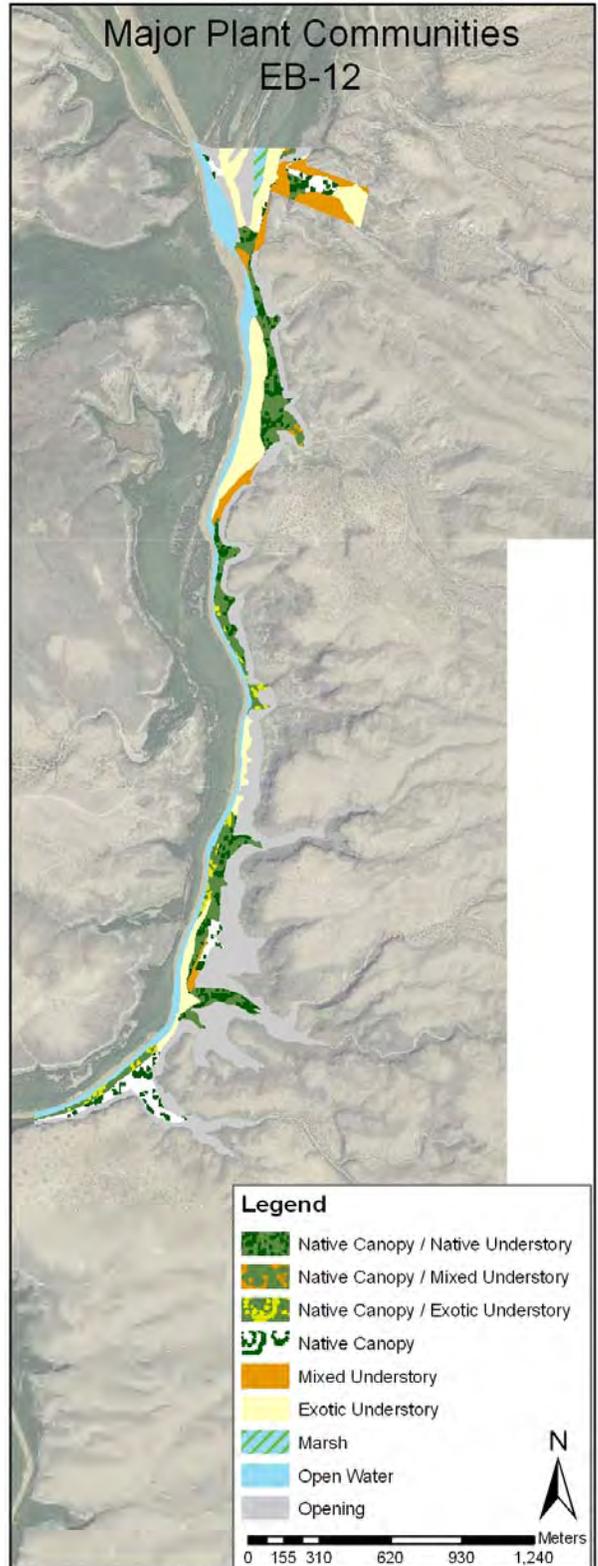
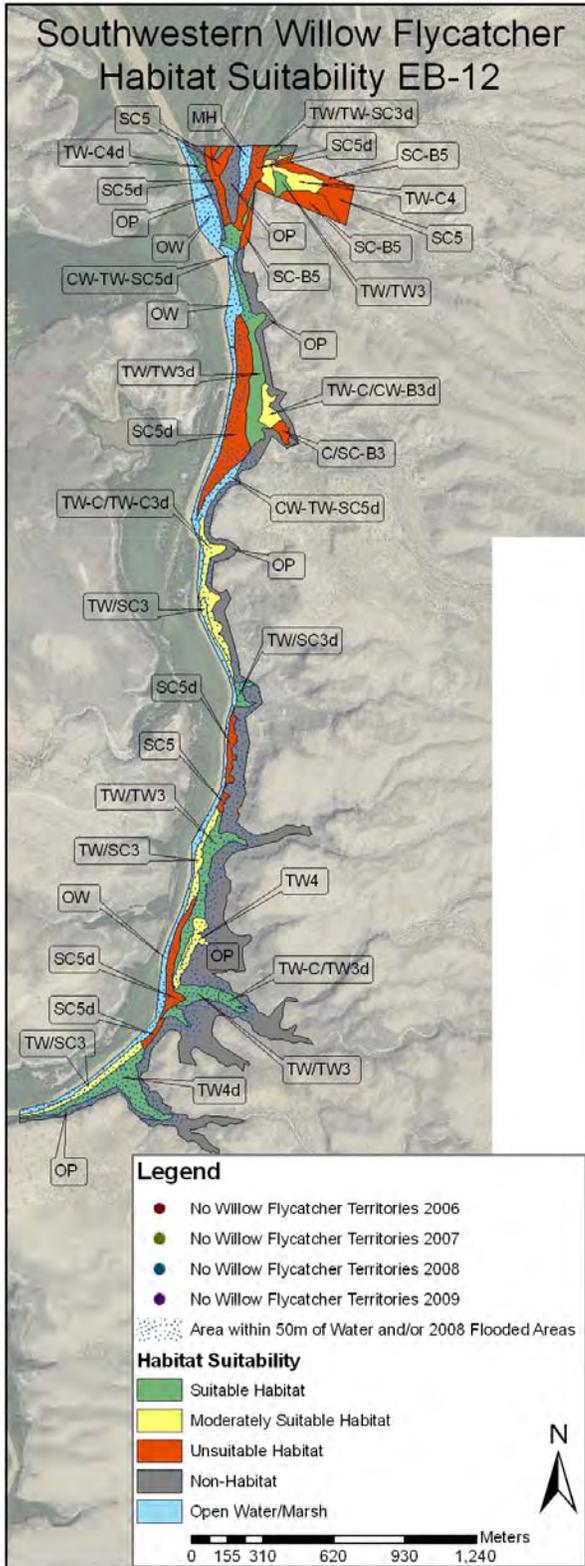
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	38	35%	28	25%
Moderately Suitable	27	25%	19	17%
Unsuitable	45	40%	24	22%
Total Area	110	100%	71	64%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3, TW/TW3d, TW-C/CW-B3d, TW-C/TW3d, TW-C/TW-C3d	34	31%
Native Canopy/Mixed Understory	C/SC-B3	1	1%
Native Canopy/Exotic Understory	TW/SC3, TW/SC3d	9	8%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d, TW-C4, TW-C4d	16	15%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	CW-TW-SC5d, SC-B5, TW-SC5, TW-SC5d	14	13%
Exotic Understory	SC5, SC5d	36	33%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	0	0	0



Survey Site: EB-13N

Habitat Acreage

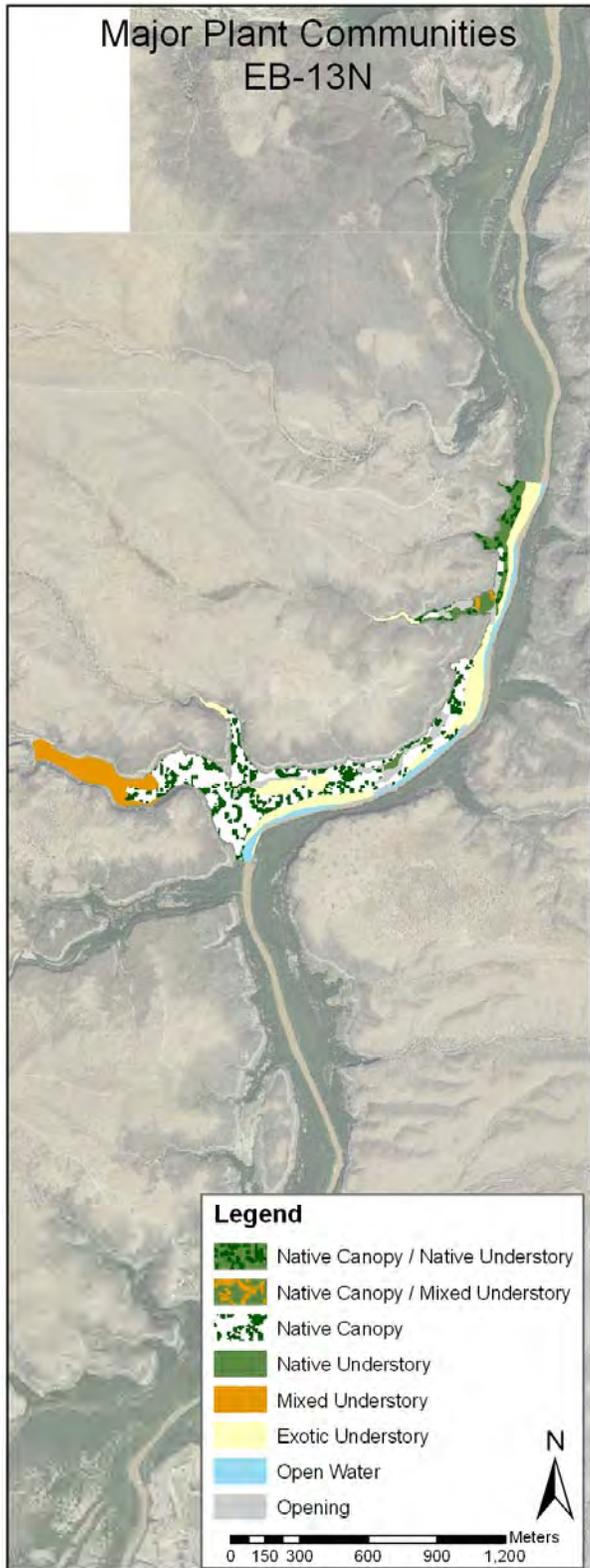
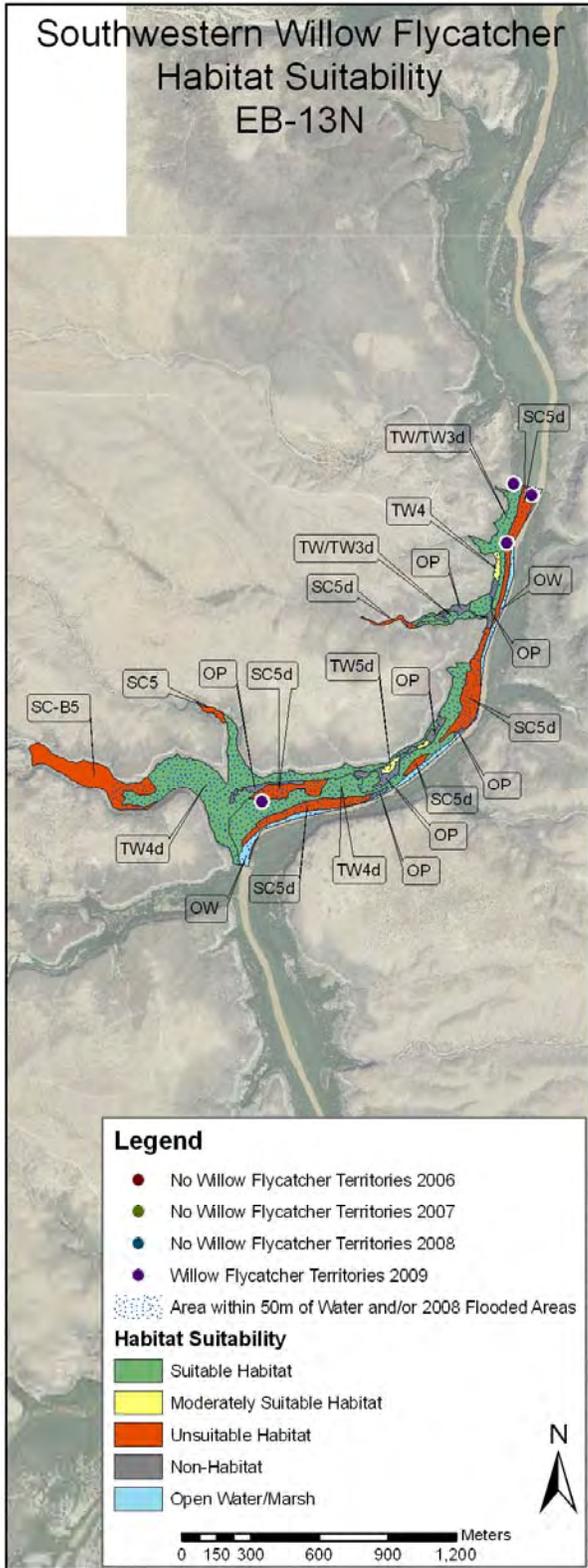
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	62	63%	62	63%
Moderately Suitable	1	1%	1	1%
Unsuitable	35	36%	26	27%
Total Area	98	100%	89	91%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3d	8	8%
Native Canopy/Mixed Understory	TW/TW-SC3d	2	2%
Native Canopy/Exotic Understory			-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	53	54%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	TW5d	1	1%
Mixed Understory	SC-B5	12	12%
Exotic Understory	SC5, SC5d	23	23%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	0	0	0
2009	3	1	4



Survey Site: EB-13S

Habitat Acreage

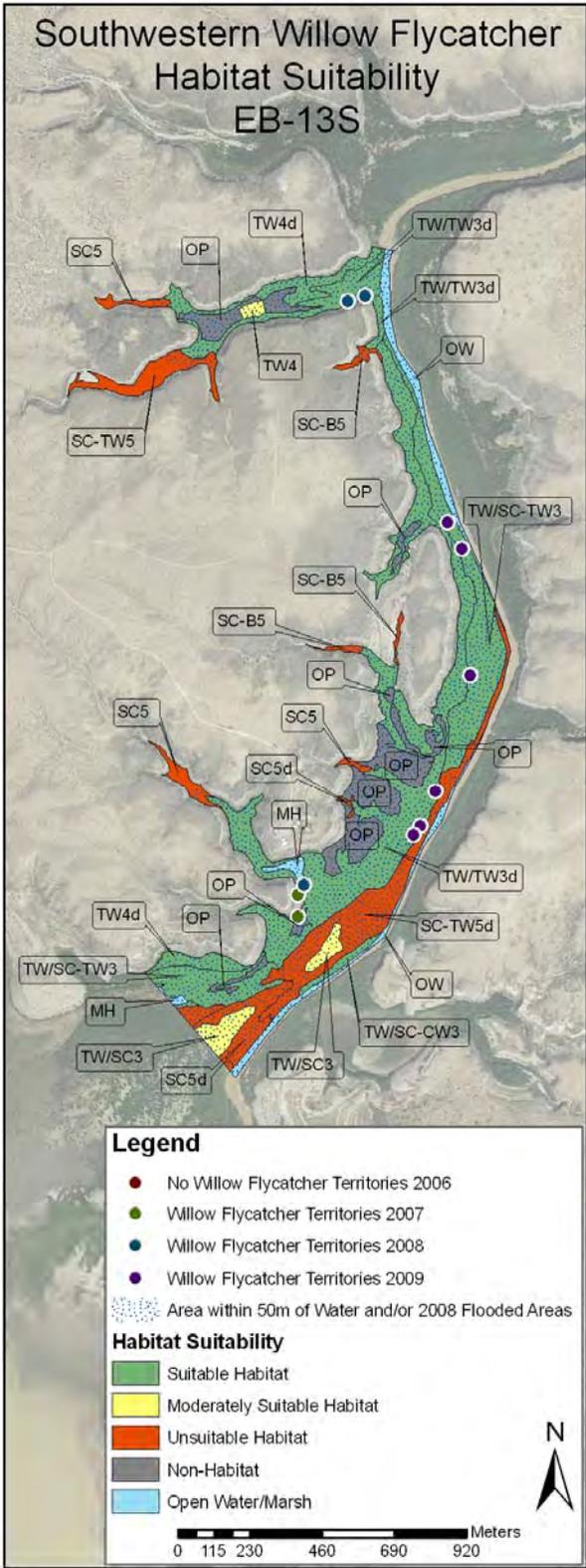
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	101	71%	101	71%
Moderately Suitable	6	4%	6	4%
Unsuitable	35	25%	28	20%
Total Area	142	100%	135	95%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3d	62	44%
Native Canopy/Mixed Understory	TW/SC-TW3	30	21%
Native Canopy/Exotic Understory	TW/SC3	5	4%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4, TW4d	10	7%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-B5, SC-TW5, SC-TW5d	27	19%
Exotic Understory	SC5, SC5d	9	6%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	2	0	2
2008	2	1	3
2009	5	1	6



Survey Site: EB-14

Habitat Acreage

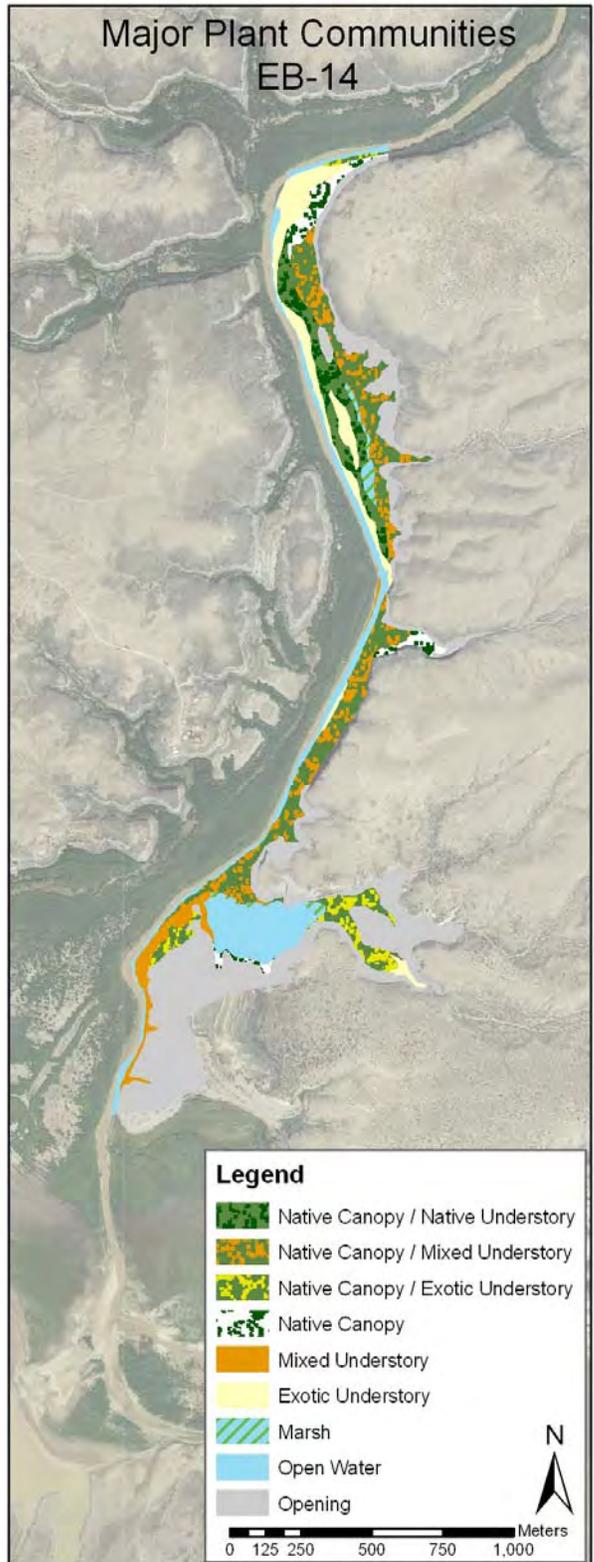
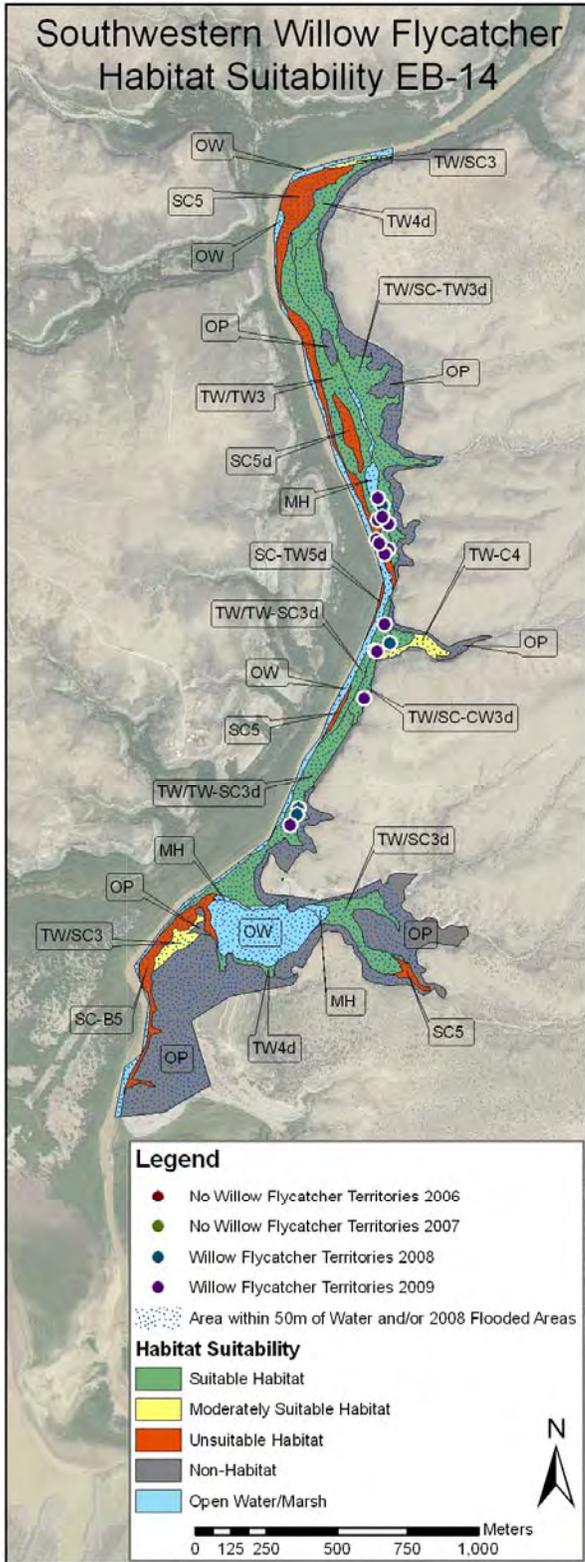
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	67	71%	67	71%
Moderately Suitable	5	5%	5	5%
Unsuitable	23	24%	23	24%
Total Area	95	100%	95	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/TW3	14	15%
Native Canopy/Mixed Understory	TW/SC-CW3d, TW/SC-TW3d, TW/TW-SC3d	40	42%
Native Canopy/Exotic Understory	TW-SC3, TW-SC3d	10	11%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d, TW-C4	9	9%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-B5	6	6%
Exotic Understory	SC5, SC5d	16	17%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	0	0	0
2007	0	0	0
2008	2	4	6
2009	5	7	12



Survey Site: EB-15

Habitat Acreage

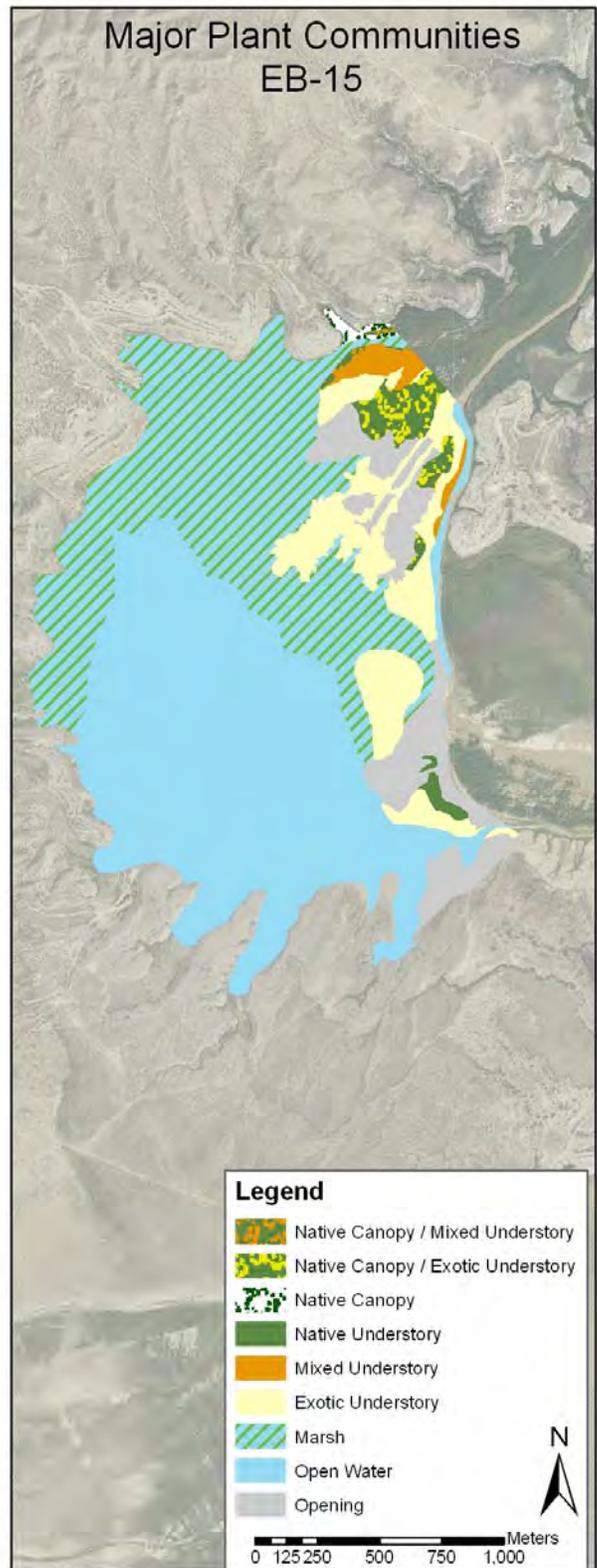
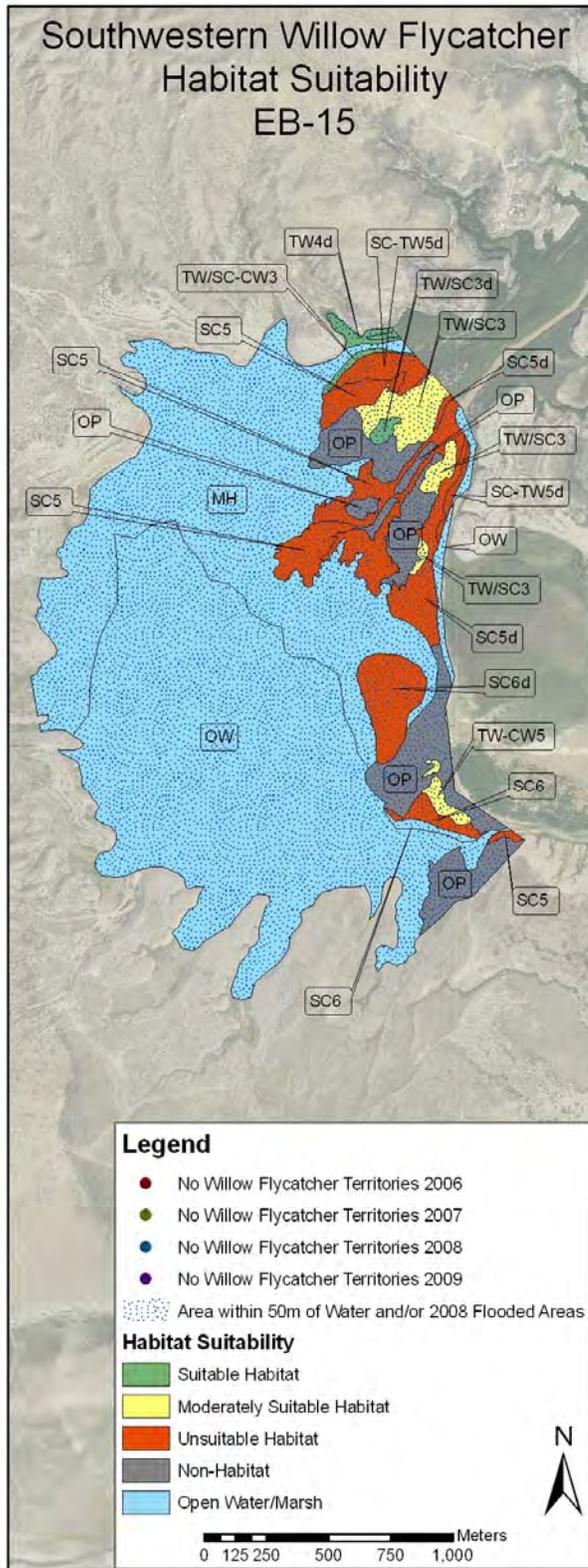
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	8	6%	8	6%
Moderately Suitable	23	18%	23	18%
Unsuitable	98	76%	98	76%
Total Area	129	100%	129	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW-CW5	4	3%
Native Canopy/Mixed Understory	TW/SC-CW3, TW/SC-TW3	3	2%
Native Canopy/Exotic Understory	TW/SC3, TW/SC3d	21	16%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	TW4d	3	2%
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	SC-TW5d	11	9%
Exotic Understory	SC5, SC5d, SC6, SC6d	87	67%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	N/A – Not Surveyed, Site too flooded		
2007	N/A – Not Surveyed, Site too flooded		
2008	N/A – Not Surveyed, Site too flooded		
2009	N/A – Not Surveyed, Site too flooded		



Survey Site: EB-16

Habitat Acreage

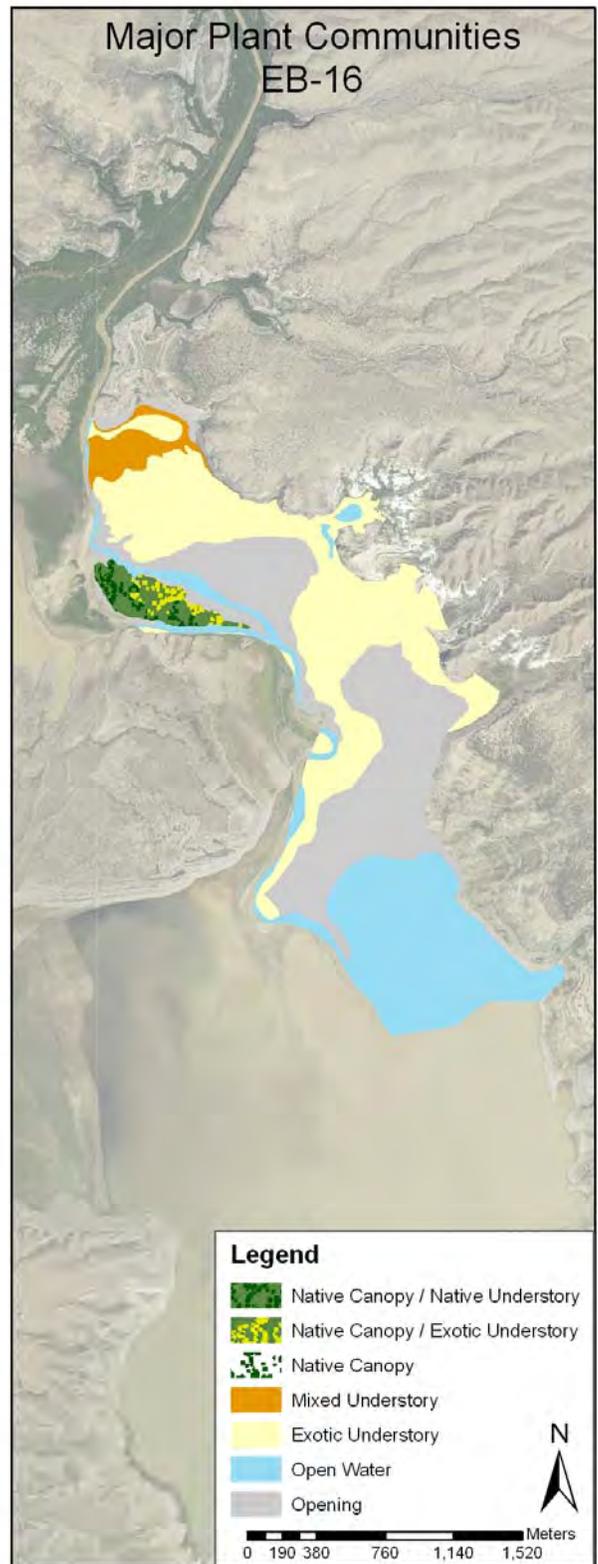
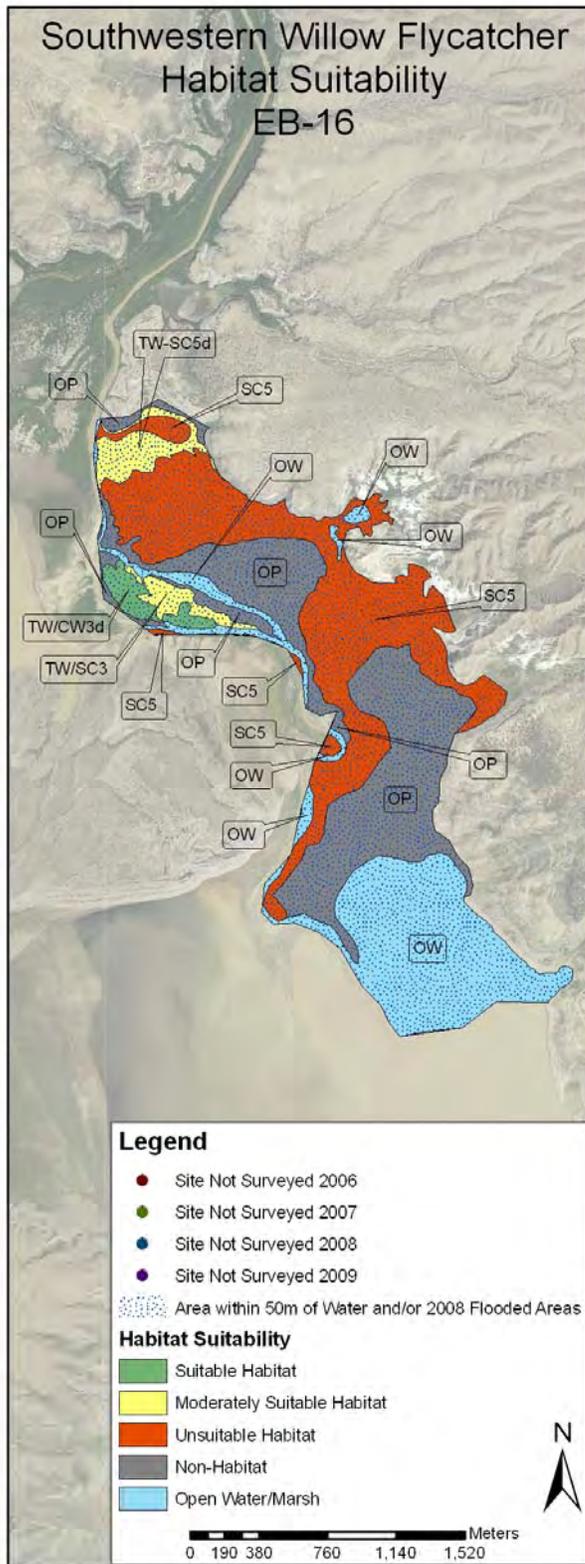
Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	18	5%	18	5%
Moderately Suitable	43	12%	43	12%
Unsuitable	286	83%	286	83%
Total Area	347	100%	347	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	TW/CW3d	18	5%
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	TW/SC3	15	4%
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	TW-SC5d	28	8%
Exotic Understory	SC5	286	82%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	N/A – Not Surveyed, Site too flooded		
2007	N/A – Not Surveyed, Site too flooded		
2008	N/A – Not Surveyed, Site too flooded		
2009	N/A – Not Surveyed, Site too flooded		



Survey Site: EB-17

Habitat Acreage

Suitability Class	Acreage		Acreage within 50m of Water and/or 2008 Flooded Areas	
	Acres	Percentage	Acres	Percentage
Suitable	0	0%	0	0%
Moderately Suitable	0	0%	0	0%
Unsuitable	286	100%	286	100%
Total Area	286	100%	286	100%

Dominant Plant Communities within Site

Community Type	Species Composition Hink & Ohmart Classification	Acres	Percentage
Native Canopy/Native Understory	-	-	-
Native Canopy/Mixed Understory	-	-	-
Native Canopy/Exotic Understory	-	-	-
Mixed Canopy/Native Understory	-	-	-
Mixed Canopy/Mixed Understory	-	-	-
Mixed Canopy/Exotic Understory	-	-	-
Exotic Canopy/Native Understory	-	-	-
Exotic Canopy/Mixed Understory	-	-	-
Exotic Canopy/Exotic Understory	-	-	-
Native Canopy	-	-	-
Mixed Canopy	-	-	-
Exotic Canopy	-	-	-
Native Understory	-	-	-
Mixed Understory	-	-	-
Exotic Understory	SC5	286	100%

Southwestern Willow Flycatcher Territories

Year	Number of Unpaired Males	Number of Pairs	Total Number of Territories
2006	N/A – Not Surveyed, Site too flooded		
2007	N/A – Not Surveyed, Site too flooded		
2008	N/A – Not Surveyed, Site too flooded		
2009	N/A – Not Surveyed, Site too flooded		

