
**Guthrie, D.A., "Bird Surveys along the Santa Clara River, 2003; Mouth of
Castaic Creek Downstream to just below Las Brisas Crossing"
(July 28, 2003; 2003B)**

BIRD SURVEYS ALONG THE SANTA CLARA RIVER, 2003

**MOUTH OF CASTIAC CREEK DOWNSTREAM TO
JUST BELOW LAS BRISAS CROSSING**

No Cuckoo
No WIFL

CRV

GBH

WTK

CoHa

YeWa

YBCh

La60

Prepared for:

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July 28, 2003

REVISED

Bird Surveys along the Santa Clara River, 2003
Mouth of Castaic Creek Downstream to just below Las Brisas Crossing

Daniel A. Guthrie
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Nature and Scope of Surveys

During the spring and early summer of 2003 surveys were conducted along the section of the Santa Clara River between its confluence with Castaic Creek and a point 1/4 mile below the Las Brisas bridge over the Santa Clara River. The total length of the section surveyed was 7.5 miles.

Each area was surveyed eight times, in accordance to the U.S. Fish and Wildlife Service Protocol for least Bell's vireo. Five of the surveys were conducted within the time frames recommended by the U.S. Fish and Wildlife Service Protocol for southwestern willow flycatcher. In order to follow least Bell's vireo protocol on kilometers covered per day, each portion (one in Los Angeles and one in Ventura County) was divided into two sections, each surveyed separately. However, observations from these two surveys are combined in data presentation (Tables 1-2).

Each survey was conducted on foot by observers well acquainted with both visual and auditory and behavioral characteristics of southern California birds. Surveys occurred approximately every other week between mid April and mid July (there was some variation in timing to avoid periods of poor weather) and occurred between 6:00 and 10:00 a.m. All birds sighted were counted, but special emphasis was placed on finding focus species, Species of Special Concern, and brown-headed cowbirds. If focus species (yellow-billed cuckoo, least Bell's vireo, southwestern willow flycatcher), were not visually observed, tapes of their calls were played in an attempt to elicit a response. Personnel for all surveys were Daniel A. Guthrie and Judith A. Sugden, both working under Federal Fish and Wildlife Service Permit number TE810394-1, issued under section 10(a)(1)(A) of the Endangered Species Act and permitted for both least Bell's vireo and southwestern willow flycatcher.

Habitat Condition and Bird Observations

Flooding during late winter and early spring of 2003 scoured many sections of the river bed, particularly in the portion in Los Angeles County. The result was extensive sandy areas and little wet riparian vegetation throughout the census period. Only along the narrower river section in Ventura County was the damage from flooding less severe. The flooding also resulted in a deepening of the river channel, leaving many sections adjacent to it dry. Annual vegetation, plentiful after the early rains, was mostly dead by early June.

Observations of all birds are shown in Tables 1-2. The numbers shown are of birds seen and heard, with heard individuals forming the majority of the observations. Numbers vary between censuses for several reasons. Bird activity varies with season. Different species breed at different times of the year. In general, species are most easily observed when they are actively defending territories by song during the establishment of breeding pairs. Once pairs are established and nesting begins song often decreases and the numbers of birds observed, therefore, also decreases. After young leave the nest, numbers observed increase. Thus, for most resident species, numbers of adult birds are most accurately censused in April and May, when territorial activity is at a maximum. A few species such as Anna's hummingbird that nest early in the season may be underestimated. Numbers of nesting species observed may be higher than normal in May due to migratory birds passing through the area, then decrease slightly in June and early July when birds are less active during nesting, and increase in late June and July when young birds leave the nest.

Comments on Threatened and Endangered Species

Yellow-billed Cuckoo

The Yellow-billed Cuckoo is listed as a State Endangered Species. Despite playing taped calls of this species during June and July surveys, when this species might be present, no individuals of this species were observed in 2003.

Southwestern Willow Flycatcher

This subspecies is listed as Federally Endangered under the Federal Endangered Species Act. Willow flycatchers were once widespread in wet riparian woodland in southern California but now only a few individuals remain. Following the Revised Protocol (Fish And Wildlife Service, July 2000) five surveys (see tables 1-2 for dates) were conducted specifically for southwestern willow flycatcher. All surveys occurred between 6:00 and 10:00 am. and used taped calls to elicit a response if flycatchers were not first observed.

No willow flycatchers were observed during any surveys in 2003. The report forms required for this species are attached and will be forwarded to the Ventura Office of the U.S. Fish and Wildlife Service.

Least Bell's Vireo

Surveys of the wet riparian areas along the Santa Clara River followed U.S. Fish and Wildlife Service Guidelines for least Bell's vireo. Eight surveys were conducted between April 10 and July 31 (see tables 1-2 for dates). All surveys occurred between 6:00 and 10:00 am. and taped vireo calls were played if no vireos were heard or seen. In order to avoid disturbing vireos, no special efforts were made to determine nesting success or presence of leg bands once birds were observed. However, at each location where vireos were found, they were observed at least once, and no leg bands were observed.

Least Bell's vireos were regularly heard and seen in three major locations, one in Ventura County and two in Los Angeles County. Vireos have been seen in the Ventura area, (Figure 1) for several years prior to 2003. This year between there were up to 6 territorial males and 4-6 mated pair nesting along this section of the river. In July additional birds, probably young of the year, were also found as unmated territorial birds.

Least Bell's vireo were found in two locations along the Los Angeles County section of the Santa Clara River (Areas A and B, Figure 2). Sightings of vireos have occurred in both areas in previous years. Area A supported between 2 and 5 pair this year. Two of these pair disappeared after June 12 but the remaining three pair continued into July. The second area supporting vireos (B in figure 2) had two and possibly three singing males starting June 23 and continuing through July 4th. These birds may have been young of the year. They appeared young and no mates were observed.

Comments on Sensitive Species

Great Blue Heron

Great Blue Herons are listed on the California Natural Diversity Data Base as a species that warrants monitoring. Individuals of this species was observed sparingly along the river after the breeding season and along other sections of the river during winter and migration. No nesting was observed.

White-tailed Kite

This species is considered a Species of Management Concern by the U.S. Fish and Wildlife Service. A single kite was observed on June 23 and July 5 in riparian woodland near the Los Angeles/Ventura County line.

Cooper's Hawk

Cooper's hawk is considered a Species of Special Concern by the State of California. A single Cooper's hawk was observed hunting along the main river on June 25th.

Yellow Warbler

The yellow warbler is considered a Species of Special Concern by the State of California. Yellow warblers prefer wet riparian habitat but are also found in large cottonwoods in drier riparian areas. Singing yellow warblers were observed throughout the survey period in small numbers. Most sightings were in the areas where least Bell's vireos were present (Figures 1-2)

Yellow-breasted Chat

The yellow-breasted chat is considered a Species of Special Concern by the State of California. The numbers of chats calling from territories along this section of riparian woodland are about the same number as observed here in previous years. . Most sightings were in the areas where least Bell's vireos were present (Figures 1-2) . A few additional birds were regularly heard in a dry riparian woodland on the north side of the river (C in Figure 2).

Lawrence's Goldfinch

This species is a highest priority species on the Audubon Birds to Watch list for 1996 and is a Bird of Management Concern for the Fish and Wildlife Service. Although a species of the coastal sage, a few individuals of this species visited the riparian zone of the Santa Clara River after their nesting season.

Comments on Brown Headed Cowbird

Cowbirds were regularly observed in all sections of the study area and seemed to be attracted by tapes of least Bell's vireo calls. Numbers remained high along the river throughout the survey period.

Summary

No yellow billed-cuckoos or willow flycatchers were observed during 2003

About 10 pair of least Bell's vireos were observed along this section of the Santa Clara River during 2003, six in Ventura County and four in Los Angeles County. This is a slight increase from previous years. This greater success may reflect greater nesting success and population increase of this species statewide but also may be due to the presence of fewer cowbirds along the river due to cowbird trapping and a much reduced amount of cattle grazing.

Among species of concern, the riparian species; yellow warbler and yellow-breasted chat occurred in small numbers in riparian woodlands along the river. There were single observations of two raptors the white-tailed kite and Cooper's hawk. Both species nest in riparian woodlands, but the scarcity of observations indicates that nesting did not occur along this stretch of the Santa Clara River this year. One wintering and migrant species of concern, the great blue heron, was observed feeding in small numbers on the river, but did not nest in the area. Finally, one coastal sage species, Lawrence's goldfinch, was observed along the river in small numbers as visitors from nearby coastal sage habitat.

Table 1. BIRDS OF THE SANTA CLARA RIVER BASIN, 2003: Santa Clara River from the mouth of Castaic Creek downstream to the Los Angeles/Ventura County Line.

Endangered Species and Species of Concern Shaded									
SPECIES	STATUS	Dates of Surveys							
		4/20,24	5/1,4	5/16,18	5/31;6/2	6/11,12	6/23,25	7/4,5	7/14,15
Great Blue Heron	m,w	1	0	0	0	1	2	2	1
Green Heron	r	0	0	0	1	2	0	1	0
Black-cr. Night Heron	r,m	0	0	0	0	0	0	1	0
Turkey Vulture	r	0	1	0	0	0	0	0	0
Mallard	r	6	3	2	6	6	8	0	0
White-tailed Kite	r	0	0	0	0	0	1	0	0
Red-shouldered Hawk	r	4	0	1	0	0	0	0	1
Red-tailed Hawk	r	0	3	3	2	1	1	2	6
American Kestrel	r	0	2	1	0	2	0	0	0
California Quail	r	9	22	16	11	26	19	29	22
Killdeer	r	13	10	15	19	10	22	6	15
Spotted Sandpiper	s	1	0	6	4	3	2	0	3
Least Sandpiper	m	2	0	0	0	0	0	0	0
California Gull	v,m	0	0	30	0	0	0	0	0
Western Gull	v	0	0	0	0	12	0	4	0
Rock Dove	r	3	2	6	0	0	0	0	0
Common Ground Dove	r	0	0	1	0	0	0	0	0
Mourning Dove	r	16	25	17	8	26	11	25	12
Greater Roadrunner	r	1	0	0	0	0	0	0	1
Great Horned Owl	r	0	5	0	0	0	0	0	0
Vaux's Swift	m	0	34	0	0	0	0	0	0
Anna's Hummingbird	r	1	2	5	2	1	1	5	4
Nuttall's Woodpecker	r	3	8	6	5	13	7	12	9
Downy Woodpecker	r	2	0	2	0	3	2	2	2
Hairy Woodpecker	r	0	1	1	0	1	2	0	3
Northern Flicker	r	1	0	0	1	0	2	2	2
Pacific Slope Flycatcher	s	0	0	1	0	0	0	0	1
Black Phoebe	r	0	0	0	1	2	1	3	6
Ash-throated Flycatcher	s	8	19	15	12	11	14	9	11
Western Kingbird	s	0	6	4	2	6	0	2	0
Bell's Vireo	s	4	3	5	0	4	4	3	2
Warbling Vireo	s	0	1	1	0	0	0	0	0
Western Scrub Jay	r	11	10	8	5	6	10	15	10
American Crow	r	2	2	8	25	11	7	15	52
Common Raven	r	17	11	7	7	16	38	16	10
Tree Swallow	s	1	3	0	0	4	2	0	0
Violet-green Swallow	s	1	2	4	2	0	4	0	0
N. Rough-winged Swallow	s	2	10	0	5	0	18	2	0
Cliff Swallow	s	12	8	16	10	64	32	4	23
Barn Swallow	s	0	0	0	0	0	0	1	0
Oak Titmouse	r	11	18	12	3	11	11	15	10
Bush Tit	r	2	0	8	0	23	6	19	5
Bewick's Wren	r	34	31	25	28	16	32	42	20
House Wren	r	13	30	40	6	18	8	6	8

Table 1 (cont.). BIRDS OF THE SANTA CLARA RIVER BASIN, 2003: Santa Clara River from the mouth of Castaic Creek downstream to the Los Angeles/Ventura County Line.

Endangered Species and Species of Concern Shaded

SPECIES	STATUS	Dates of Surveys							
		4/20,24	5/1,4	5/16,18	5/31;6/2	6/11,12	6/23,25	7/4,5	7/14,15
Western Bluebird	r	2	12	8	5	10	7	5	16
American Robin	r	0	0	0	0	0	1	0	0
Wren-tit	r	6	6	6	5	8	12	6	11
Northern Mockingbird	r	0	1	0	0	0	0	2	0
California Thrasher	r	0	0	2	1	1	0	0	2
European Starling	r	4	14	14	12	21	0	17	0
Phainopepla	r	0	0	0	0	2	0	3	1
Orange-crowned Warbler	w,m	2	0	0	0	0	0	0	0
Nashville Warbler	m	0	1	0	0	0	0	0	0
Yellow Warbler	s,m	9	8	6	2	5	1	2	1
Yellow-rumped Warbler	w,m	1	6	0	0	0	0	0	0
Townsend's Warbler	m	0	1	0	0	0	0	0	0
Common Yellowthroat	r	4	16	16	13	9	19	11	3
Wilson's Warbler	m	3	1	1	0	0	0	0	0
Yellow-breasted Chat	s	3	7	9	7	7	6	7	3
Western Tanager	m	0	5	0	0	0	0	0	0
Spotted Towhee	r	12	13	7	24	17	15	5	3
California Towhee	r	18	20	12	12	26	14	30	18
Lark Sparrow	r	0	0	0	0	0	0	0	1
Savannah Sparrow	w,m	0	1	0	0	0			
Song Sparrow	r	52	48	52	56	60	64	54	36
Black-headed Grosbeak	s	23	29	15	8	7	13	12	4
Blue Grosbeak	s	2	3	0	4	5	4	7	10
Lazuli Bunting	s	0	0	1	0	0	0	3	5
Painted Bunting	m	0	1	0	0	0	0	0	0
Red-winged Blackbird	s	4	30	12	14	18	35	23	2
Brewer's Blackbird	r	12	0	0	0	0	0	10	0
Brown-headed Cowbird	s	14	3	10	3	7	7	6	5
Bullock's Oriole	s	0	18	2	0	6	7	12	2
House Finch	r	10	29	21	20	32	21	44	76
Lesser Goldfinch	r	4	1	14	2	2	0	2	5
Lawrence's Goldfinch	r	0	0	0	0	0	3	0	0
American Goldfinch	w,m,r	24	17	0	0	0	0	0	0

Status: m, migrant; r, resident; s, summer only; w, winter

Table 2. Birds of the Santa Clara River Basin, 2003: Santa Clara River from Los Angeles/Ventura County line to 1/2 mile below Las Brisas Crossing.

Endangered Species and Species of Concern Shaded									
SPECIES	STATUS	Dates of Surveys							
		4/24	5/4	5/16	5/31	6/11	6/25	7/5	7/15
Pied-billed Grebe	m	0	0	0	0	0	0	0	1
Great Blue Heron	m,w	0	0	0	0	0	2	0	0
Snowy Egret	m,w	4	0	0	0	0	0	0	0
Green Heron	r	1	0	2	0	1	4	0	1
Black-crowned Night-heron	m,w	0	1	1	0	5	2	2	0
Mallard	r	7	5	5	4	5	10	9	13
White-tailed Kite	r	0	0	0	0	0	0	1	0
Cooper's Hawk	r	0	0	0	0	0	1	0	0
Red-shouldered Hawk	r	2	0	1	1	1	1	0	1
Red-tailed Hawk	r	5	3	3	2	3	2	1	2
American Kestrel	r	0	0	0	0	1	0	0	0
California Quail	r	21	51	22	25	25	25	45	17
Killdeer	r	8	6	18	10	13	17	10	9
Spotted Sandpiper	s	0	0	0	2	4	4	4	6
Least Sandpiper	m	3	0	0	0	0	0	0	0
Wilson's Snipe	m,	0	0	0	0	0	0	0	1
Rock Dove	r	4	0	2	0	0	0	1	0
Mourning Dove	r	18	41	24	25	44	30	39	26
Vaux's Swift	m	0	42	0	0	0	0	0	0
White-th. Swift	r	0	0	3	0	0	0	0	0
Allen's Hummingbird	r,m	0	0	0	0	0	0	1	1
Black-chinned Hummingbird	s	2	0	1	0	0	0	2	6
Anna's Hummingbird	r	9	8	18	3	6	9	8	18
Belted Kingfisher	m	2	0	0	0	0	0	0	0
Acorn Woodpecker	r	2	0	0	2	0	0	0	0
Nuttall's Woodpecker	r	7	6	7	10	10	10	8	7
Downy Woodpecker	r	5	3	8	8	5	3	4	0
Hairy Woodpecker	r	1	2	0	0	4	2	0	0
Northern Flicker	r	1	0	0	1	0	0	0	0
Western Wood-Pewee	m	0	1	0	0	0	0	0	0
Pacific Slope Flycatcher	s	1	2	0	1	0	2	1	3
Black Phoebe	r	9	12	5	4	8	12	16	8
Say's Phoebe	r	0	0	0	0	0	0	1	0
Ash-throated Flycatcher	s	18	24	18	13	24	19	12	16
Cassin's Kingbird	s	0	0	0	0	1	0	0	0
Western Kingbird	s	0	0	1	1	2	2	4	3
Bell's Vireo	s	7	8	10	4	4	11	9	6
Warbling Vireo	m	0	1	2	0	0	0	1	0
Western Scrub Jay	r	23	15	20	19	13	8	14	4
American Crow	r	3	5	4	7	1	13	2	2
Common Raven	r	13	10	3	11	11	23	11	15
Violet-green Swallow	s	0	2	3	0	0	0	0	0
N. Rough-winged Swallow	s	0	15	3	3	0	12	0	2
Cliff Swallow	s	239	400	600	176	275	352	156	214

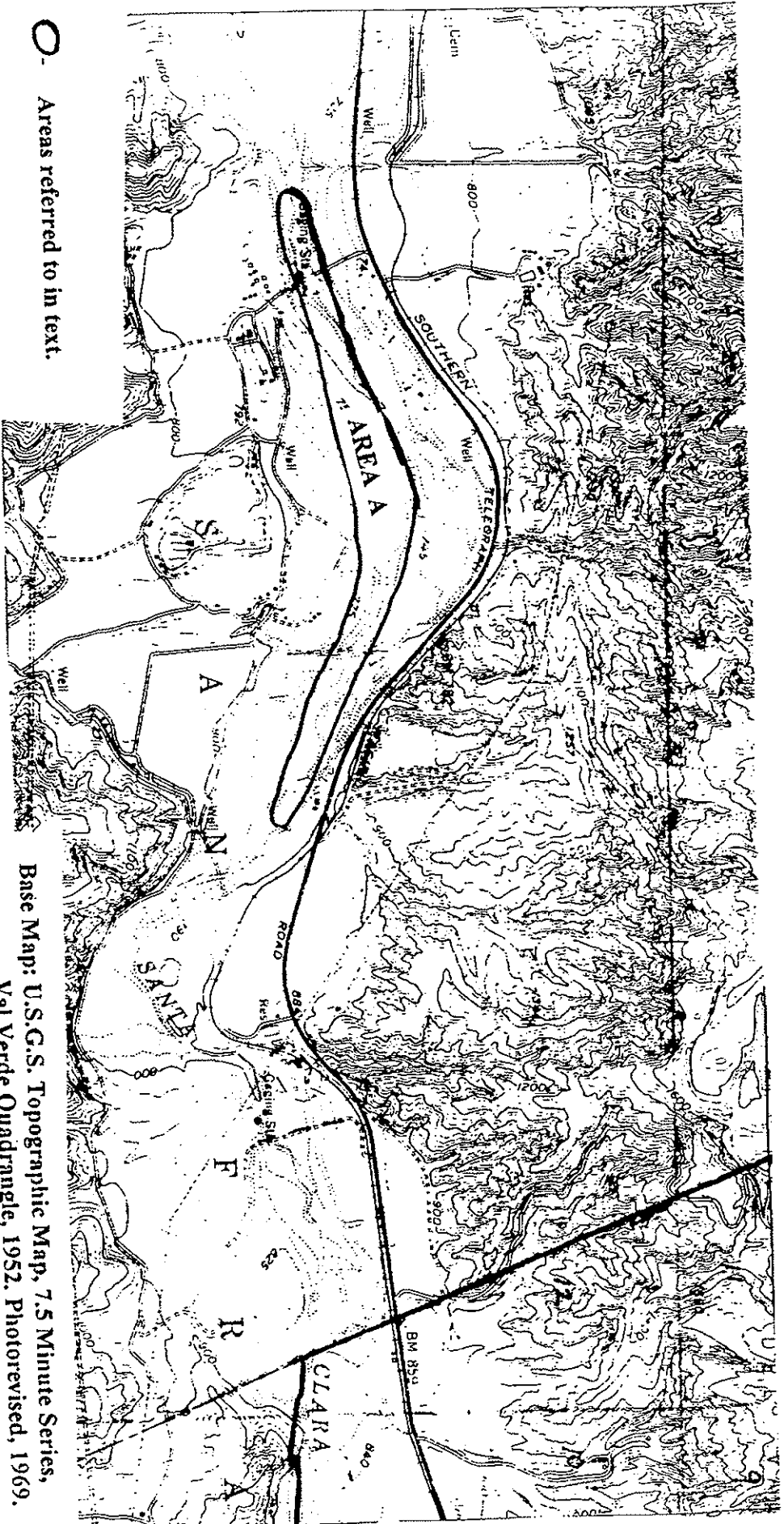
Table 2.(cont.) Birds of the Santa Clara River Basin, 2003: Santa Clara River from Los Angeles/Ventura County line to 1/2 mile below Las Brisas Crossing.

Endangered Species and Species of Concern Shaded

SPECIES	STATUS	Dates of Surveys							
		4/24	5/4	5/16	5/31	6/11	6/25	7/5	7/15
Barn Swallow	s	0	1	0	0	0	0	0	0
Violet-green Swallow	s	0	2	3	0	0	0	0	0
N. Rough-winged Swallow	s	0	15	3	3	0	12	0	2
Cliff Swallow	s	239	400	600	176	275	352	156	214
Barn Swallow	s	0	1	0	0	0	0	0	0
Oak Titmouse	r	13	7	0	6	12	13	4	4
Bushtit	r	12	10	31	20	26	35	3	6
White-breasted Nuthatch	r	1	0	0	0	0	0	0	0
Canyon Wren	r	1	0	0	0	0	0	0	0
Bewick's Wren	r	72	44	53	47	29	40	32	37
House Wren	r	13	30	40	6	18	0	0	2
Western Bluebird	r	3	4	2	1	2	0	9	1
American Robin	r	1	1	3	0	1	0	0	0
Wrentit	r	12	29	14	11	13	17	11	28
Northern Mockingbird	r	0	0	0	1	0	0	1	0
California Thrasher	r	3	6	2	1	2	8	2	3
European Starling	r	6	15	1	9	201	49	4	0
Cedar Waxwing	w,m	9	25	3	0	0	0	0	0
Phainopepla	r	2	2	5	4	6	1	4	3
Orange-crowned Warbler	w,m	3	0	1	0	0	0	0	0
Yellow Warbler	s,m	13	8	5	4	4	3	3	1
Yellow-rumped Warbler	w,m	8	6	0	0	0	0	0	0
Common Yellowthroat	r	46	25	24	23	28	62	68	24
Wilson's Warbler	m	1	22	7	0	0	0	0	0
Yellow-breasted Chat	s	6	9	2	7	3	3	1	2
Western Tanager	m	0	8	0	0	0	0	0	0
Spotted Towhee	r	29	82	34	27	53	23	16	32
California Towhee	r	52	78	56	46	39	43	44	32
Lark Sparrow	r	0	0	0	0	0	3	7	0
Song Sparrow	r	113	85	83	78	74	120	100	84
Black-headed Grosbeak	s	28	34	17	19	12	12	28	18
Blue Grosbeak	s	2	4	1	1	0	1	4	0
Lazuli Bunting	s	2	0	1	1	2	5	0	3
Red-winged Blackbird	s	4	6	10	10	254	9	17	37
Great-tailed Grackle	r	0	2	0	0	0	0	0	0
Brewer's Blackbird	r	3	3	0	0	0	9	16	4
Brown-headed Cowbird	s	30	26	9	12	19	20	26	23
Hooded Oriole	s	0	5	0	0	2	0	0	0
Bullock's Oriole	s	4	13	10	6	12	5	5	6
House Finch	r	33	41	19	30	38	35	37	68
Lesser Goldfinch	r	21	36	22	20	30	33	29	17
Lawrence's Goldfinch	r	0	0	0	0	0	0	4	2
American Goldfinch	w,m,r	23	10	2	3	9	3	0	3

Status: m, migrant; r, resident; s, summer only; w, winter

Figure 1. Survey Area in Ventura County.



Base Map: U.S.G.S. Topographic Map, 7.5 Minute Series,
Val Verde Quadrangle, 1952. Photorevised, 1969.

Topographic map of the Caspian Sea region. The map shows the Caspian Sea at the bottom, with the Volga River flowing into it. Three areas are highlighted with circles and labeled: AREA A (near the Volga River), AREA B (near the Caspian Sea), and AREA C (near the Volga River). The map includes contour lines, roads, and other geographical features. A legend at the bottom left indicates that areas referred to in the text are marked with a circle.

Base Map: U.S.G.S. 7.5 minute topographic map for Val Verde, California, 1952, photorevised 1969.

Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Santa Clara River: Newhall Ranch, Los Angeles County ~~Total~~ Site No _____

Was site surveyed in previous year? Yes ☐ No ☐ Drainage Santa Clara River

If yes, what site name was used? lower Santa Clara River

County Los Angeles State CA USGS Quad Name Val Verde

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? X ☐ Yes ☐ No

Site Coordinates: Start: N 34 25.300 W 118 36.755 UTM

Stop: N 34 24.197 W 118 41.307 UTM Zone _____

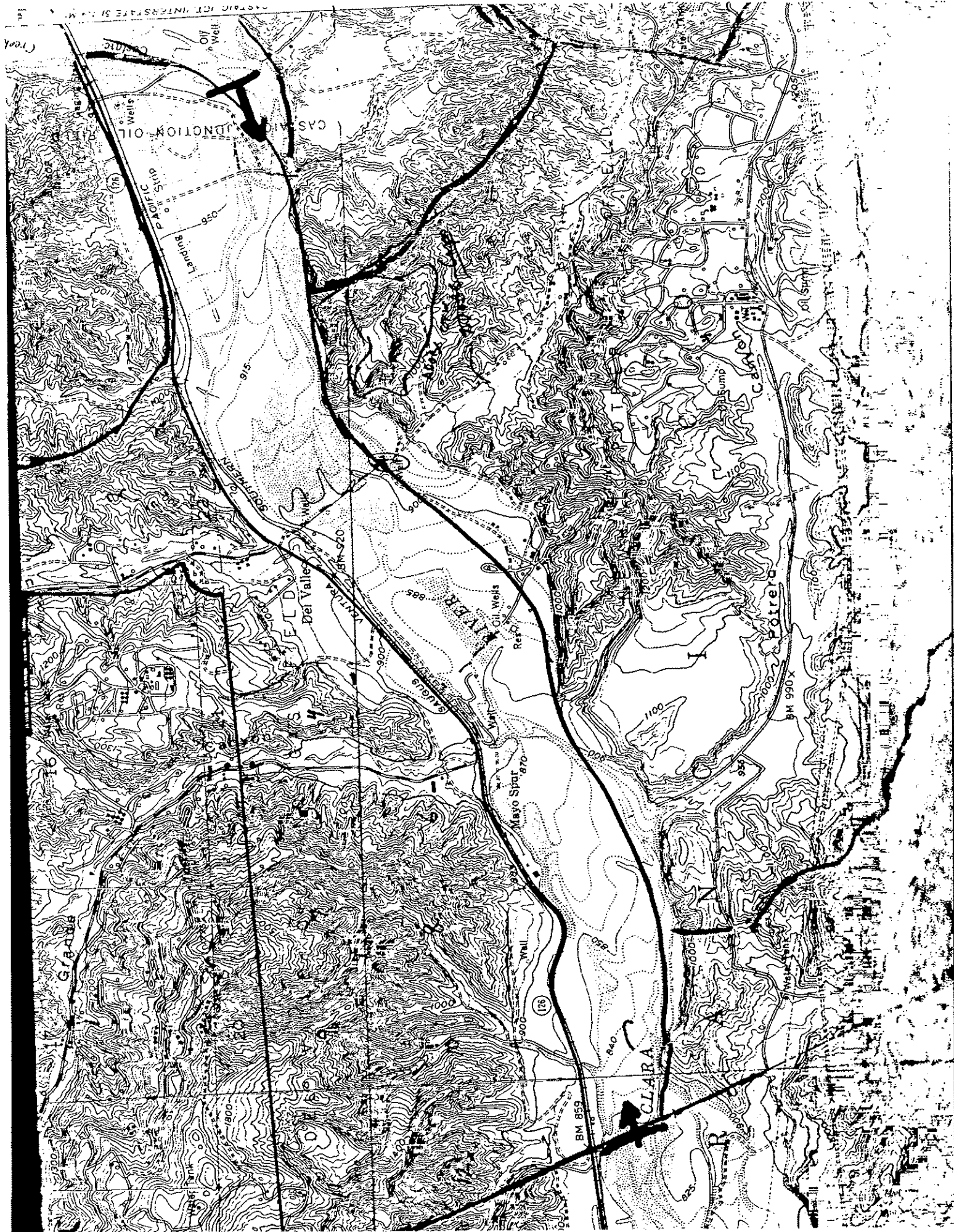
Elevation 840-950 ft. feet / meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
D. Guthrie _____ _____	Date 5/16,18 start 7-9:30 6:30-7:30 total hrs 2.5	0	0	0	n	Y	Y	
D. Guthrie _____ _____	Date 6/11,12 Start 6:30-9 6 - 7 total hrs 3.5	0	0	0	n	Y	Y	
D. Guthrie _____ _____	Date 6/23,25 Start 6:30-8:45 6-7 total hrs 3.25	0	0	0	n	Y	Y	
D. Guthrie _____ _____	Date 7/4,5 start 6 - 8:15 6-7 total hrs 2.25	0	0	0	n	Y	Y	Immature of the year?
D. Guthrie _____ _____	Date 7/14,15 start 6-6:45 6 - 8 total hrs 2.75	0	0	0	n	Y	Y	
Overall Site Summary (Total only resident WIFLs)		Adults 0	Pairs 0	Territories 0	Nests 0	Were any WIFLs color-banded? No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs 14.25								

Name of Reporting Individual Dan Guthrie Date Report Completed 7/20/03

Submit the original of this form. Retain a copy for your records.



Willow Flycatcher Survey and Detection Form (rev. 4/98)

Site Name Santa Clara River, Newhall Ranch, Ventura Co. Total Site No

Was site surveyed in previous year? **Yes** ☐ **No** ☒ Drainage Santa Clara River

If yes, what site name was used? Lower Santa Clara River

County Ventura State CA USGS Quad Name Val Verde

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? ☒ **Yes** ☐ **No**

Site Coordinates: Start: N 34 24.197 W 118 41.307 UTM
Stop: N 34 24.265 W 118 44.370 UTM Zone

Elevation 725-850 ft. feet / meters (circle one)

**** Fill in additional site information on back of this page ****

Survey # Observer(s)	Date (m/d/y) Survey time	Number of WIFLs Found	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign Y or N	Comments about this survey (e.g., evidence of pairs or breeding, number of nests, nest contents or number of fledges seen; potential threats)
D. Guthrie J. Sugden	Date 5/16 start 6:45 stop 9:15 total hrs 2.5	0	0	0	n	Y	n	
D. Guthrie J. Sugden	Date 6/11 Start 6:15 Stop 9:15 total hrs 3	0	0	0	n	Y	N	
D. Guthrie J. Sugden	Date 6/25 Start 7 Stop 9 total hrs 2.0	0	0	0	n	Y	N	
D. Guthrie J. Sugden	Date 7/5 start 6:45 stop 8:45 total hrs 2.0	0	0	0	n	Y	N	Immature of the year?
D. Guthrie J. Sugden	Date 7/15 start 6:45 stop 8:45 total hrs 2.0	0	0	0	n	Y	N	
Overall Site Summary (Total only resident WIFLs) Total survey hrs 11.5 Sugden. 5.0 guthrie		Adults 0	Pairs 0	Territories 0	Nests 0	Were any WIFLs color-banded? No If yes, report color combination(s) in the comments section on back of form		

Name of Reporting Individual Dan Guthrie Date Report Completed 7/20/03

Submit the original of this form. Retain a copy for your records.

Comments (attach additional sheets if necessary):

