

**Western Riverside County
Multiple Species Habitat Conservation Plan (MSHCP)
Biological Monitoring Program**

**Incidental Observations of MSHCP
Covered Species in 2005**



July 7, 2006
(Revised September 19, 2006)

NOTE TO READER:

This report is an account of survey activities undertaken by the Biological Monitoring Program for the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP was permitted in June of 2004. The Biological Monitoring Program monitors the distribution and status of the 146 Covered Species within the Conservation Area to provide information to Permittees, land managers, the public and the Wildlife Agencies (i.e. the California Department of Fish and Game and the U.S. Fish and Wildlife Service). Monitoring Program activities are guided by the MSHCP Species Objectives for each Covered Species, the MSHCP information needs identified in Section 5.3 or elsewhere in the document, and the information needs of the Permittees.

The primary preparer of this report was Adam Malisch. If there are any questions about the information provided in this report, please contact the Monitoring Program Administrator. If you have questions about the MSHCP, please contact the Executive Director of the Western Riverside County Regional Conservation Authority (RCA). For further information on the MSHCP and the RCA, go to www.wrc-rca.org

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Incidental Observations of MSHCP Covered Species in 2005

Because many of the species objectives in the Western Riverside County MSHCP include documenting the distribution of Covered Species, and because some of these species are observed incidentally while conducting unrelated fieldwork, it is important to document incidental observations of Covered Species. The minimum data required by the Monitoring Program when documenting an incidental sighting are: date, observer, species name, and UTM coordinates. These data are typically recorded by marking a waypoint on a GPS and naming the waypoint appropriately. If additional data are warranted (*e.g.*, number of individuals, age, behavior, substrate, surrounding vegetation, time, reference to photos taken, other notes) this information is recorded on a paper Incidental Species Sighting Form.

Monitoring Program biologists recorded 360 incidental observations of Covered Species in 2005 (Table 1). Forty-one different animal species and three plant species were observed and recorded. Common species such as coyotes (*Canis latrans*) were recorded along with rare species such as peregrine falcons (*Falco peregrinus*). The majority of observations were located at routinely visited areas such as the Southwestern Riverside County Multi-Species Reserve (Lake Skinner), the Davis Unit of the San Jacinto Wildlife Area, the Potrero Unit of the San Jacinto Wildlife Area, Santa Rosa Plateau, Kabian Park, Lake Matthews/Estelle Mountain, Silverado Ranch and Johnson Ranch. Many additional observations were made at lesser-visited locations and along travel routes between sites.

Because of potential biases in data resulting from incidental observations, the uses for these data are limited. Varying abilities of biologists in the field to recognize Covered Species, imperfect survey timing relative to particular species phenology, and lack of methods directly tailored to detect various Covered Species result in a greater likelihood of observing some species rather than others. Additionally, because incidental observations are secondary to the goals of any given survey being conducted, not all observations of Covered Species are recorded. For example, if biologists stopped to record every San Diego black-tailed jackrabbit observed during a survey for Quino checkerspot butterfly this might impede their ability to effectively locate butterflies. Thus, lack of incidental observations of a species from an area can not be taken to indicate absence. Furthermore, tendencies to infer abundance and densities of species from incidental observations should be avoided.

The best use of these data is as an indication of where to begin targeted surveys for specific species or to highlight hotspots of diversity where community surveys might be appropriate. Presence data can also be used for predictive distribution modeling, but the potential biases associated with these data (*e.g.*, tendency of locations to be near roads, clustering of points, etc.) should be explicitly taken into account. Finally, incidental observations can be useful in documenting the presence of Covered Species within Core Areas, as identified in the MSHCP Species Objectives.

Table 1. MSHCP Covered Species incidentally observed in 2005. Coordinates are in Datum WGS84, Zone 11S. Additional information such as observers, whether or not photos were taken and notes are available from the Biological Monitoring Program.

Date	Location	Common_Name	Latin_Name	Easting	Northing
3/29/2005	Harford Springs Park	Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	467414	3741001
3/30/2005	Harford Springs Park	Coast horned lizard	<i>Phrynosoma coronatum</i>	467672	3741051
4/1/2005	Sage Road	Coast horned lizard	<i>Phrynosoma coronatum</i>	505656	3715870
4/1/2005	Sage Road	Coast horned lizard	<i>Phrynosoma coronatum</i>	505394	3715717
4/4/2005	Dirt Rd continuing from end of Wilson Valley Rd	Cactus wren	<i>Campylorhynchus brunneicapillus</i>	516288	3702909
4/4/2005	Dirt Rd continuing from end of Wilson Valley Rd	Coast horned lizard	<i>Phrynosoma coronatum</i>	515384	3704485
4/4/2005	Dirt Rd continuing from end of Wilson Valley Rd	Coast horned lizard	<i>Phrynosoma coronatum</i>	515384	3704485
4/4/2005	Dirt Rd continuing from end of Wilson Valley Rd	Granite spiny lizard	<i>Sceloporus orcutti</i>	516288	3702909
4/6/2005	Near Aguanga	Coast horned lizard	<i>Phrynosoma coronatum</i>	516854	3701098
4/8/2005	—	Coastal California gnatcatcher	<i>Polioptila californica</i>	486000	3715400
4/12/2005	Warm Springs	Granite spiny lizard	<i>Sceloporus orcutti</i>	486001	3715392
4/12/2005	Warm Springs	Granite spiny lizard	<i>Sceloporus orcutti</i>	477544	3720689
4/12/2005	Harford springs park	Munz's onion	<i>Allium munzii</i>	467594	3740087
4/13/2005	Oak Mountain	Bell's sage sparrow	<i>Amphispiza belli belli</i>	501387	3708386
4/13/2005	Oak Mountain	Coast horned lizard	<i>Phrynosoma coronatum</i>	502572	3708913
4/13/2005	Oak Mountain	Coast horned lizard	<i>Phrynosoma coronatum</i>	502972	3708633
4/13/2005	End of Lindberger Rd	Coastal western whiptail	<i>Cnemidophorus tigris</i>	486450	3720800
4/13/2005	Oak Mountain	Grasshopper sparrow	<i>Ammodramus bairdii</i>	501387	3708386
4/13/2005	Oak Mountain	Loggerhead shrike	<i>Lanius ludovicianus</i>	502522	3708929
4/13/2005	Oak Mountain	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	501713	3708296
4/14/2005	Pete's Crossing Dirt Road	Coast horned lizard	<i>Phrynosoma coronatum</i>	514980	3702893
4/14/2005	—	Northern harrier	<i>Circus cyaneus</i>	486224	3721190
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526311	3704168
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526977	3705240
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526794	3705794
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526259	3704194
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527401	3704811
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527403	3704802
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527468	3704940
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527263	3705047
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527241	3705048
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527201	3705048
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527001	3705116
4/14/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526993	3705169
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	518811	3706837

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527825	3705148
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527526	3705050
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527189	3705045
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526633	3705051
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526393	3704002
4/14/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526400	3704057
4/15/2005	Harford Springs Park	Belding's orange-throated whiptail	<i>Cnemidophorus hyperthrus</i>	467497	3740908
4/19/2005	Hwy 371	Coast horned lizard	<i>Phrynosoma coronatum</i>	512960	3702304
4/19/2005	Hwy 371	Coastal western whiptail	<i>Cnemidophorus tigris</i>	516698	3702025
4/20/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526256	3704229
4/20/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	527902	3703885
4/20/2005	—	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	528774	3697692
4/21/2005	—	Black-crowned night heron	<i>Nycticorax nycticorax</i>	480813	3734453
4/21/2005	—	Great blue heron	<i>Ardea herodias</i>	456498	3737496
4/22/2005	Lake Riverside Estates	Black-crowned night heron	<i>Nycticorax nycticorax</i>	518990	3708558
4/22/2005	Lake Riverside Estates	Black-crowned night heron	<i>Nycticorax nycticorax</i>	479884	3734825
4/22/2005	—	Black-crowned night heron	<i>Nycticorax nycticorax</i>	518911	3708842
4/22/2005	Lake Riverside Estates	Great blue heron	<i>Ardea herodias</i>	518990	3708558
4/22/2005	Lake Riverside Estates	White-tailed kite	<i>Elanus leucurus</i>	479884	3734825
4/22/2005	Lake Riverside Estates	White-tailed kite	<i>Elanus leucurus</i>	475993	3731077
4/25/2005	S. Pern's Airport	Long-tailed weasel	<i>Mustela frenata</i>	479861	3735251
4/26/2005	Silverado Ranch	Loggerhead shrike	<i>Lanius ludovicianus</i>	525580	3704272
4/26/2005	Oak Mountain	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	502944	3708713
4/27/2005	Silverado Ranch	Belding's orange-throated whiptail	<i>Cnemidophorus hyperthrus</i>	527416	3704926
4/27/2005	Silverado Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	528943	3705430
4/27/2005	Silverado Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	528960	3705352
4/27/2005	Silverado Ranch	Coastal western whiptail	<i>Cnemidophorus tigris</i>	528866	3705406
4/28/2005	Santa Rosa Plateau	Coyote	<i>Canis latrans</i>	476532	3709965
4/28/2005	Santa Rosa Plateau	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476851	3710370
4/28/2005	Santa Rosa Plateau	Grasshopper sparrow	<i>Ammodramus bairdii</i>	477044	3710229
4/28/2005	Santa Rosa Plateau	White-tailed kite	<i>Elanus leucurus</i>	475545	3710497
4/29/2005	Potrero Canyon	California horned lark	<i>Eremophila alpestris</i>	464007	3760061
4/29/2005	Potrero Canyon	California horned lark	<i>Eremophila alpestris</i>	506090	3749436
4/29/2005	Potrero Canyon	Golden eagle	<i>Aquila chrysaetos</i>	504263	3747525
4/29/2005	Potrero Canyon	Loggerhead shrike	<i>Lanius ludovicianus</i>	506182	3748053
5/3/2005	Iron Springs	Coast horned lizard	<i>Phrynosoma coronatum</i>	529283	3703999

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
5/3/2005	Iron Springs	Coast horned lizard	<i>Phrynosoma coronatum</i>	529988	3702172
5/3/2005	—	Cooper's hawk	<i>Accipiter cooperii</i>	516641	3702160
5/3/2005	Iron Springs	Granite spiny lizard	<i>Sceloporus orcutti</i>	529058	3699610
5/3/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	516595	3702326
5/3/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	516604	3702129
5/3/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	516773	3702094
5/4/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	477000	3730645
5/4/2005	Kabian Park	Bell's sage sparrow	<i>Amphispiza belli belli</i>	477000	3730645
5/4/2005	Kabian Park	California horned lark	<i>Eremophila alpestris</i>	477110	3730399
5/4/2005	Silverado Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	525980	3704805
5/4/2005	Silverado Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	526541	3705381
5/4/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	525982	3704806
5/4/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	526541	3705381
5/4/2005	—	Coastal California gnatcatcher	<i>Polioptila californica</i>	476971	3730964
5/4/2005	Kabian Park	Coastal California gnatcatcher	<i>Polioptila californica</i>	476972	3730962
5/4/2005	Silverado Ranch	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526277	3704080
5/4/2005	Silverado Ranch	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526018	3704213
5/4/2005	Silverado Ranch	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526792	3705054
5/4/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526278	3704080
5/4/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526018	3704213
5/4/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	526790	3705053
5/4/2005	—	Cooper's hawk	<i>Accipiter cooperii</i>	477653	3730569
5/4/2005	Kabian Park	Cooper's hawk	<i>Accipiter cooperii</i>	477665	3730574
5/4/2005	Kabian Park	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476851	3731272
5/4/2005	Silverado Ranch	Quino checkerspot butterfly	<i>Euphydryas editha quino</i>	526584	3705414
5/4/2005	Kabian Park	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	477486	3730629
5/4/2005	Kabian Park	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	477345	3730722
5/6/2005	—	Wilson's warbler	<i>Wilsonia pusilla</i>	473120	3759688
5/6/2005	—	Wilson's warbler	<i>Wilsonia pusilla</i>	474180	3761213
5/10/2005	San Jacinto/Mystic Lake	Loggerhead shrike	<i>Lanius ludovicianus</i>	487918	3747549
5/10/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	487918	3747550
5/10/2005	Silverado Ranch	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	528179	3704354
5/11/2005	—	Cactus wren	<i>Campylorhynchus brunneicapillus</i>	516303	3702540
5/11/2005	Silverado Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	527648	3705113
5/12/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	469522	3737806
5/12/2005	Steele Peak	Black-crowned night heron	<i>Nycticorax nycticorax</i>	472075	3734648

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
5/12/2005	Steele Peak	California horned lark	<i>Eremophila alpestris</i>	471900	3735263
5/12/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	529550	3699369
5/12/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	472028	3735522
5/12/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	493553	3713182
5/12/2005	Steele Peak	Coast horned lizard	<i>Phrynosoma coronatum</i>	472028	3735529
5/12/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	528174	3704163
5/12/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	529545	3699130
5/12/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	529231	3703901
5/12/2005	—	Granite spiny lizard	<i>Sceloporus orcutti</i>	529782	3699340
5/12/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	529672	3699431
5/13/2005	Johnson Ranch	Burrowing owl	<i>Athene cunicularia</i>	490640	3712665
5/13/2005	—	California horned lark	<i>Eremophila alpestris</i>	493663	3712806
5/13/2005	—	California horned lark	<i>Eremophila alpestris</i>	493721	3714334
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493615	3713398
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	491457	3713080
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493674	3713327
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493323	3714255
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493531	3714279
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493721	3714315
5/13/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	493696	3714267
5/13/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	493739	3712850
5/18/2005	—	Arroyo toad	<i>Bufo microscaphus californicus</i>	502814	3701785
5/18/2005	—	Burrowing owl	<i>Athene cunicularia</i>	491280	3713642
5/18/2005	Johnson Ranch	Burrowing owl	<i>Athene cunicularia</i>	491696	3714105
5/18/2005	Johnson Ranch	Coast horned lizard	<i>Phrynosoma coronatum</i>	493036	3714182
5/18/2005	Johnson Ranch	Coastal western whiptail	<i>Cnemidophorus tigris</i>	493786	3713054
5/18/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	491521	3713120
5/18/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	490746	3713292
5/18/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	491070	3713513
5/18/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	491709	3713697
5/18/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	492220	3713265
5/19/2005	Lake Skinner	California horned lark	<i>Eremophila alpestris</i>	497293	3714573
5/19/2005	—	California horned lark	<i>Eremophila alpestris</i>	497292	3714593
5/19/2005	Skinner Reservoir	Coastal California gnatcatcher	<i>Poliotila californica</i>	497600	3717895
5/19/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	497530	3715416
5/19/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	497107	3715340

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
5/19/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	497382	3714465
5/19/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	497542	3714704
5/19/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	497525	3715066
5/19/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	497496	3715129
5/19/2005	Skinner Reservoir	Western pond turtle	<i>Clemmys marmorata</i>	496774	3715266
5/19/2005	Skinner Reservoir	White-tailed kite	<i>Elanus leucurus</i>	495966	3715820
5/19/2005	Skinner Reservoir	Yellow warbler	<i>Dendroica petechia</i>	495966	3715820
5/20/2005	Lake Skinner	Bell's sage sparrow	<i>Amphispiza belli belli</i>	498747	3716005
5/20/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliopitila californica</i>	498000	3716040
5/20/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliopitila californica</i>	497340	3715301
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	475077	3708979
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476466	3710100
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476708	3710272
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476782	3710199
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476567	3709969
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476549	3710126
5/20/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	476289	3710553
5/22/2005	Estelle Mountain	Bobcat	<i>Lynx rufus</i>	459687	3736301
5/24/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	460606	3718348
5/24/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	460518	3718394
5/24/2005	San Juan Creek Trib 2A	Coast range newt	<i>Taricha torosa torosa</i>	460606	3718348
5/24/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	461680	3718412
5/24/2005	—	Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	462044	3718439
5/24/2005	—	Turkey vulture	<i>Cathartes aura</i>	461342	3719397
5/25/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	496572	3715103
5/25/2005	Lake Skinner	Bell's sage sparrow	<i>Amphispiza belli belli</i>	496589	3715073
5/25/2005	Lake Skinner	Bell's sage sparrow	<i>Amphispiza belli belli</i>	496592	3715044
5/25/2005	Lake Skinner	California horned lark	<i>Eremophila alpestris</i>	497318	3715299
5/25/2005	—	Coastal California gnatcatcher	<i>Poliopitila californica</i>	496549	3715025
5/25/2005	—	Coastal California gnatcatcher	<i>Poliopitila californica</i>	497154	3715021
5/25/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliopitila californica</i>	496541	3715027
5/25/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliopitila californica</i>	497139	3715041
5/25/2005	Lake Skinner	Coastal western whiptail	<i>Cnemidophorus tigris</i>	497101	3715601
5/25/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	496931	3714842
5/25/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	497184	3715191
5/25/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	496579	3715135

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
5/26/2005	—	Arroyo toad	<i>Bufo microscaphus californicus</i>	459688	3719613
5/26/2005	—	California horned lark	<i>Eremophila alpestris</i>	458505	3743190
5/26/2005	Lake Mathews-North Shore Rd	California horned lark	<i>Eremophila alpestris</i>	462274	3744371
5/26/2005	Lake Mathews-North Shore Rd	Double-crested cormorant	<i>Phalacrocorax auritus</i>	459672	3743585
5/26/2005	—	Double-crested cormorant	<i>Phalacrocorax auritus</i>	463330	3744245
5/26/2005	Lake Mathews-North Shore Rd	Grasshopper sparrow	<i>Ammodramus bairdii</i>	458510	3743193
5/26/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	462249	3744104
5/26/2005	—	White-tailed kite	<i>Elanus leucurus</i>	461792	3744830
5/26/2005	Lake Mathews-North Shore Rd	White-tailed kite	<i>Elanus leucurus</i>	461793	3744834
5/26/2005	Lake Mathews-North Shore Rd	White-tailed kite	<i>Elanus leucurus</i>	462814	3744596
5/27/2005	—	California horned lark	<i>Eremophila alpestris</i>	458481	3743196
5/27/2005	Lake Mathews	Double-crested cormorant	<i>Phalacrocorax auritus</i>	463330	3744245
5/27/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	458263	3743444
5/31/2005	San Jacinto	Heart-leaved pitcher sage	<i>Lepechinia cardiophylla</i>	489140	3750205
5/31/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	489634	3750480
5/31/2005	—	Northern harrier	<i>Circus cyaneus</i>	489639	3751014
5/31/2005	—	White-faced ibis	<i>Plegadis chihi</i>	489878	3750497
5/31/2005	San Jacinto	Yellow warbler	<i>Dendroica petechia</i>	489881	3751056
6/1/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	489140	3750205
6/1/2005	—	Yellow warbler	<i>Dendroica petechia</i>	489881	3751056
6/2/2005	Arroyo del torro	Coastal California gnatcatcher	<i>Polioptila californica</i>	470120	3730922
6/3/2005	Estelle Mt. Res.	California horned lark	<i>Eremophila alpestris</i>	458321	3741048
6/3/2005	Lake Mathews/Estelle Mountain	California horned lark	<i>Eremophila alpestris</i>	457972	3740791
6/3/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	464364	3712419
6/3/2005	Estelle Mt. Res.	Cooper's hawk	<i>Accipiter cooperii</i>	456180	3741549
6/3/2005	—	Cooper's hawk	<i>Accipiter cooperii</i>	456181	3741547
6/3/2005	Lake Mathews/Estelle Mountain	Cooper's hawk	<i>Accipiter cooperii</i>	456181	3741547
6/3/2005	Estelle Mt. Res.	Grasshopper sparrow	<i>Ammodramus bairdii</i>	458321	3741048
6/3/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	458321	3741048
6/3/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	457923	3740694
6/3/2005	—	Grasshopper sparrow	<i>Ammodramus bairdii</i>	457950	3740655
6/3/2005	Estelle Mt. Res.	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	461073	3736986
6/3/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	461068	3736991
6/3/2005	Lake Mathews/Estelle Mountain	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	456116	3741531
6/3/2005	Estelle Mt. Res.	White-tailed kite	<i>Elanus leucurus</i>	458320	3741375
6/3/2005	—	White-tailed kite	<i>Elanus leucurus</i>	458319	3741381

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
6/4/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	456116	3741531
6/5/2005	Box Springs	Coyote	<i>Canis latrans</i>	473407	3761006
6/5/2005	Box Springs	Coyote	<i>Canis latrans</i>	473040	3760886
6/5/2005	Box Springs	Coyote	<i>Canis latrans</i>	471738	3760120
6/6/2005	—	Coyote	<i>Canis latrans</i>	473407	3761006
6/6/2005	—	Coyote	<i>Canis latrans</i>	473040	3760886
6/6/2005	—	Coyote	<i>Canis latrans</i>	471737	3760120
6/6/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	471101	3753886
6/6/2005	Sycamore Canyon	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	470988	3756057
6/7/2005	Lake Skinner	Bell's sage sparrow	<i>Amphispiza belli belli</i>	497581	3715954
6/7/2005	Lake Skinner	California horned lark	<i>Eremophila alpestris</i>	495715	3717975
6/7/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliophtila californica</i>	495711	3718067
6/7/2005	Lake Skinner	Heart-leaved pitcher sage	<i>Lepechinia cardiophylla</i>	471101	3753886
6/7/2005	Lake Skinner	Osprey	<i>Pandion haliaetus</i>	495795	3717576
6/7/2005	—	Osprey	<i>Pandion haliaetus</i>	495796	3717576
6/7/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	495702	3718112
6/7/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	496641	3718496
6/7/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	498421	3717975
6/7/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	470988	3756057
6/8/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	497581	3715954
6/9/2005	Santa Rosa Plateau	California horned lark	<i>Eremophila alpestris</i>	477909	3709690
6/9/2005	—	Coyote	<i>Canis latrans</i>	473475	3708300
6/9/2005	Santa Rosa Plateau	Grasshopper sparrow	<i>Ammodramus bairdii</i>	477691	3709804
6/9/2005	—	White-faced ibis	<i>Plegadis chihi</i>	473712	3707546
6/10/2005	—	Coyote	<i>Canis latrans</i>	488737	3760355
6/10/2005	—	Least Bell's vireo	<i>Vireo bellii pusillus</i>	488948	3760217
6/10/2005	—	Yellow-breasted chat	<i>Icteria virens</i>	488740	3760361
6/13/2005	Estelle Mountain	California horned lark	<i>Eremophila alpestris</i>	460262	3737196
6/13/2005	Estelle Mountain	Grasshopper sparrow	<i>Ammodramus bairdii</i>	461063	3736591
6/13/2005	Estelle Mountain	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	460262	3737196
6/14/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	470623	3732344
6/14/2005	Steele Peak	Bell's sage sparrow	<i>Amphispiza belli belli</i>	470623	3732344
6/14/2005	—	California horned lark	<i>Eremophila alpestris</i>	469234	3730116
6/14/2005	Steele Peak	California horned lark	<i>Eremophila alpestris</i>	471162	3732451
6/14/2005	Steele Peak	California horned lark	<i>Eremophila alpestris</i>	469234	3730116
6/14/2005	—	Coastal California gnatcatcher	<i>Poliophtila californica</i>	471203	3732444

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
6/14/2005	Steele Peak	Coastal California gnatcatcher	<i>Poliottila californica</i>	471203	3732444
6/14/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	468603	3730459
6/14/2005	Steele Peak	Loggerhead shrike	<i>Lanius ludovicianus</i>	468603	3730456
6/14/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	469742	3730383
6/14/2005	Steele Peak	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	469742	3730383
6/14/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	470238	3758634
6/14/2005	Sycamore Canyon	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	470238	3758634
6/15/2005	—	California horned lark	<i>Eremophila alpestris</i>	471162	3732451
6/15/2005	Potrero Canyon	California horned lark	<i>Eremophila alpestris</i>	506113	3749930
6/15/2005	Potrero Canyon	Grasshopper sparrow	<i>Ammodramus bairdii</i>	506103	3749814
6/15/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	506072	3750406
6/15/2005	Potrero Canyon	Loggerhead shrike	<i>Lanius ludovicianus</i>	506072	3750406
6/15/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	506070	3750407
6/15/2005	Potrero Canyon	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	506070	3750407
6/16/2005	—	California horned lark	<i>Eremophila alpestris</i>	506113	3749930
6/16/2005	Potrero Canyon	Loggerhead shrike	<i>Lanius ludovicianus</i>	499823	3752169
6/16/2005	Potrero Canyon	Loggerhead shrike	<i>Lanius ludovicianus</i>	499823	3752169
6/16/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	499823	3752169
6/16/2005	Potrero Canyon	Mountain lion	<i>Puma concolor californicus</i>	501100	3749108
6/16/2005	Potrero Canyon	Mountain lion	<i>Puma concolor californicus</i>	501269	3749168
6/16/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	506119	3749931
6/16/2005	Potrero Canyon	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	506119	3749931
6/17/2005	—	Mountain lion	<i>Puma concolor californicus</i>	501100	3749108
6/20/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	498747	3716005
6/20/2005	—	Coastal California gnatcatcher	<i>Poliottila californica</i>	498000	3716040
6/20/2005	—	Coastal California gnatcatcher	<i>Poliottila californica</i>	497340	3715301
6/23/2005	Skinner/Diamond	Bell's sage sparrow	<i>Amphispiza belli belli</i>	486553	3721904
6/23/2005	Skinner/Diamond	Bell's sage sparrow	<i>Amphispiza belli belli</i>	496424	3721839
6/23/2005	Skinner/Diamond	Coast horned lizard	<i>Phrynosoma coronatum</i>	499674	3723853
6/23/2005	Skinner/Diamond	Coastal California gnatcatcher	<i>Poliottila californica</i>	497310	3722414
6/23/2005	Skinner/Diamond	Coastal California gnatcatcher	<i>Poliottila californica</i>	496512	3721851
6/23/2005	—	Coastal California gnatcatcher	<i>Poliottila californica</i>	500744	3724283
6/23/2005	Skinner/Diamond	Cooper's hawk	<i>Accipiter cooperii</i>	498435	3722149
6/23/2005	Skinner/Diamond	Coyote	<i>Canis latrans</i>	497310	3722414
6/23/2005	Skinner/Diamond	Grasshopper sparrow	<i>Ammodramus bairdii</i>	499394	3723655
6/23/2005	Skinner/Diamond	Grasshopper sparrow	<i>Ammodramus bairdii</i>	500510	3724158

Table 1. Continued from previous page.

Date	Location	Common Name	Latin Name	Easting	Northing
6/23/2005	Skinner/Diamond	Loggerhead shrike	<i>Lanius ludovicianus</i>	496907	3722055
6/23/2005	Skinner/Diamond	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	497310	3722414
6/23/2005	Lake Skinner	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	499305	3720885
6/23/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	499305	3720885
7/8/2005	—	Burrowing owl	<i>Athene cunicularia</i>	491475	3747748
7/8/2005	—	Burrowing owl	<i>Athene cunicularia</i>	491540	3748392
7/8/2005	Lake Skinner	Coast horned lizard	<i>Phrynosoma coronatum</i>	498597	3716028
7/8/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	498597	3716028
7/8/2005	Lake Skinner	Coastal California gnatcatcher	<i>Poliophtila californica</i>	498486	3717492
7/8/2005	—	Coastal California gnatcatcher	<i>Poliophtila californica</i>	498486	3717485
7/8/2005	Lake Skinner	Least Bell's vireo	<i>Vireo bellii pusillus</i>	496989	3715980
7/8/2005	—	Least Bell's vireo	<i>Vireo bellii pusillus</i>	496989	3715980
7/8/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	491449	3748484
7/8/2005	—	Peregrine falcon	<i>Falco peregrinus</i>	491265	3748660
7/8/2005	—	Western pond turtle	<i>Clemmys marmorata</i>	497817	3717053
7/9/2005	San Jacinto Wildlife Area	Peregrine falcon	<i>Falco peregrinus</i>	491265	3748660
7/10/2005	San Jacinto Wildlife Area	Burrowing owl	<i>Athene cunicularia</i>	491475	3747748
7/11/2005	San Jacinto Wildlife Area	Burrowing owl	<i>Athene cunicularia</i>	491540	3748392
7/12/2005	Teledyne	Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456927	3765957
7/12/2005	Teledyne	Delhi Sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456933	3765978
7/12/2005	San Jacinto Wildlife Area	Loggerhead shrike	<i>Lanius ludovicianus</i>	491449	3748484
7/13/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	476063	3741431
7/13/2005	—	Coastal California gnatcatcher	<i>Poliophtila californica</i>	476158	3740888
7/13/2005	—	Coyote	<i>Canis latrans</i>	476262	3740974
7/13/2005	—	San Diego black-tailed jackrabbit	<i>Lepus californicus bennettii</i>	476045	3741400
7/13/2005	—	White-tailed kite	<i>Elanus leucurus</i>	476009	3741425
7/14/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	457041	3765163
7/14/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	457100	3765923
7/15/2005	Santa Rosa Plateau	Northern harrier	<i>Circus cyaneus</i>	478236	3709380
7/15/2005	Santa Rosa Plateau	Northern harrier	<i>Circus cyaneus</i>	475744	3710962
7/15/2005	—	Northern harrier	<i>Circus cyaneus</i>	478236	3709380
7/15/2005	—	Northern harrier	<i>Circus cyaneus</i>	475744	3710962
7/18/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	457118	3765924
7/18/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456988	3765976
7/18/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	457019	3765951
7/20/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456950	3765913

Table 1. Continued from previous page.

Date	Location	Common_Name	Latin_Name	Easting	Northing
7/31/2005	Skunk Cabbage Meadow	Northern goshawk	<i>Accipiter gentilis</i>	530624	3737263
8/9/2005	—	Belding's orange-throated whiptail	<i>Cnemidophorus hyperthrus</i>	457078	3765975
8/9/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456894	3765898
8/9/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	456984	3765908
8/9/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	457153	3765914
8/9/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	457174	3765864
8/9/2005	—	Delhi sands flower-loving fly	<i>Rhaphiomidas terminatus abdominalis</i>	457231	3765817
8/11/2005	—	Bell's sage sparrow	<i>Amphispiza belli belli</i>	477565	3731686
8/11/2005	Kabian Park	Bell's sage sparrow	<i>Amphispiza belli belli</i>	477565	3731686
8/11/2005	—	Coastal California gnatcatcher	<i>Polioptila californica</i>	477663	3731325
8/11/2005	Kabian Park	Coastal California gnatcatcher	<i>Polioptila californica</i>	477668	3731325
8/11/2005	—	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	477725	3731539
8/11/2005	Kabian Park	Southern CA rufous-crowned sparrow	<i>Aimophila ruficeps</i>	477725	3731539
8/19/2005	Fuller Ridge/Pacific Crest Trail	Northern goshawk	<i>Accipiter gentilis</i>	525256	3744285
8/26/2005	Fuller Ridge/Pacific Crest Trail	MacGillivray's warbler	<i>Oporornis tolmiei</i>	525804	3743947
8/29/2005	Steele Peak	Bell's sage sparrow	<i>Amphispiza belli belli</i>	470345	3734919
9/1/2005	—	Coast horned lizard	<i>Phrynosoma coronatum</i>	457171	3765859
9/1/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	457251	3765935
9/2/2005	—	Coastal western whiptail	<i>Cnemidophorus tigris</i>	457162	3765902
9/14/2005	—	Engelmann oak	<i>Quercus engelmannii</i>	499523	3721333
9/14/2005	—	Engelmann oak	<i>Quercus engelmannii</i>	499455	3721303
9/14/2005	—	Loggerhead shrike	<i>Lanius ludovicianus</i>	499660	3721752
9/16/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	474979	3710169
9/16/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	474697	3709784
9/30/2005	—	Granite spiny lizard	<i>Sceloporus orcutti</i>	506447	3747501
9/30/2005	—	Northern red-diamond rattlesnake	<i>Crotalus ruber ruber</i>	506566	3747593
10/19/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	462100	3710079
10/19/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	463255	3710329
10/20/2005	—	Coast range newt	<i>Taricha torosa torosa</i>	464661	3708075
10/26/2005	—	Bobcat	<i>Lynx rufus</i>	506233	3746781
10/26/2005	—	Granite night lizard	<i>Xantusia henshawi</i>	506471	3747675
11/8/2005	—	Northern harrier	<i>Circus cyaneus</i>	490143	3749648
11/8/2005	San Jacinto Wildlife Area	Northern harrier	<i>Circus cyaneus</i>	490143	3749648
11/8/2005	—	White-tailed kite	<i>Elanus leucurus</i>	489217	3749899
11/8/2005	San Jacinto Wildlife Area	White-tailed kite	<i>Elanus leucurus</i>	489217	3749899
12/28/2005	—	Bobcat	<i>Lynx rufus</i>	472978	3709960
12/30/2005	—	Coyote	<i>Canis latrans</i>	476436	3709905