

NMOS BULLETIN



**NEW MEXICO
ORNITHOLOGICAL
SOCIETY**

Vol. 33
No. 3-4
2005

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**First Nesting Records of Lazuli Bunting (*Passerina amoena*)
in Grant County, New Mexico**

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In the western United States, the southern breeding range of Lazuli Bunting (*Passerina amoena*) extends across northwestern Baja California, southern California, southern Nevada, central Arizona, central New Mexico, and central Texas (AOU 1998). In Texas, it was reported as a probable but rare breeder in the northern Panhandle, with singing males in the Trans-Pecos region and the Edwards Plateau with two nests reported in 1903 in Kerr County (Kostecke et al. 2004). In Arizona, several sources document the Lazuli Bunting as a casual late summer breeder along the San Pedro River and Arivaca (Wise-Gervais 2005, D. Krueper pers. comm.). In New Mexico, Hubbard (1978) notes that Lazuli Bunting is "occasional in summer near Glenwood," citing as dates June and July 1968 and June 1972. Hubbard also says "casual near Cliff" and cites a specimen taken in June 1927 in the Cincinnati Museum of Natural History. None of these, however, are confirmed breeding records. Lazuli Bunting is listed as a regular breeder in San Juan, Bernalillo, and Taos counties, with probable breeding in Los Alamos and Rio Arriba counties (BISON-M). In far southwestern Hidalgo County, Lazuli Buntings are considered migrant or vagrant species (Black 1997). Although Zimmerman (1995) cites that "Lazuli buntings are uncommon residents that breed in the Gila National Forest," he supports my records for Grant County (Zimmerman pers. comm.). I document here the first recorded nesting of Lazuli Buntings in Grant County, New Mexico, the farthest south that this species has been reported nesting in NM.

In the Gila-Cliff Valley (32° 55' N, 108° 34' W, elev. 1360-1400 m) of Grant County, New Mexico, during July and August 2000, I monitored five Lazuli Bunting nests to determine nesting success. According to New Mexico ornithologists possessing a knowledge of state records for the area, these observations apparently constitute a regional first (S. Williams, D. Zimmerman, pers. comm.), and represent the farthest south the species has been reported nesting in New Mexico. Scott Stoleson (U.S.D.A. Northeastern Research Station) and Roland Shook (Western New Mexico University) confirmed the Lazuli Bunting nesting activity.

Since the summer of 2000, there have been no further reports or documentation of Lazuli Buntings nesting in the Cliff-Gila valley (2001-2005, K. Brodhead pers. comm.). However, efforts to find Lazuli Bunting nests have not been as robust as in previous years due to fewer field biologists working in the area

and a narrowed focus of research efforts toward endangered species. Below I summarize my Lazuli Bunting breeding observations for Grant County.

Nest site. Of the five nests found, the average nest height was 1.9 m (range 1.0–2.6 m) above the ground, while mean nest distance below the top of the nest plant was 0.96 m (range 0.5–1.6 m). Several species of shrubs were used as nest substrates: box elder (*Acer negundo*), hackberry (*Celtis reticulata*), soapberry (*Sapindus saponaria*), and canyon grape (*Vitis arizonica*). The mean nest plant height was 2.92 m (range 1.6–3.8) and mean diameter at breast height (dbh) was 3.66 cm (range 1.0–6.6). The majority of nests (80%) were located at the edge of the patch (from 0.0 to 2.0 m; mean for all nests = 2.34 m; range 0.0–6 m). Of these, two were in shrubs at the beginning slope of a small hill and were well-shaded by hackberry and Goodding's willow (*Salix gooddingi*) or honey mesquite (*Prosopis glandulosa*). All successful nests (see below) were well-shaded and camouflaged. The nest plant distance-to-water averaged 245.4 m (range 9–600 m). All nests were placed in the vertical fork of a branch, supported by other branches of the same or neighboring plants.

Clutch size. Lazuli Buntings laid a mean of 3.4 eggs, ranging from 3 to 4 eggs per clutch. The earliest date that I first discovered eggs was 25 July and the latest was 9 August. One Lazuli Bunting pair still had a viable egg in the nest as late as 14 August (one egg, two nestlings). The latest date chicks were last seen in the nest before fledging was 23 August (discovered fledged on 25 August). The last dates that viable eggs were discovered in three of the Gila-Cliff Valley nests (8 Aug, 9 Aug, 14 Aug) well exceed by an average of two weeks the last documented dates of eggs found in nests of second-brooded Lazuli Buntings (Greene et al. 1996). However, in comparison to the annual cycle chart summarizing breeding information for Lazuli Bunting populations throughout the entire range, the dates for eggs and nestlings appear to fall within the “outlier” data (Greene et al. 1996). Phenology for Lazuli Buntings in New Mexico may be similar to that in southeastern Arizona (Wise-Gervais 2005, D. Krueper pers. comm.).

Nesting outcomes. I observed all five Lazuli Bunting nests until fledging or failure. Of these, four were successful and one failed. The one nest failure was located in an isolated soapberry sapling patch with poor cover (2 m distance to both east and west edges and poorly developed canopy). After observing four eggs in the nest on two occasions and finding it empty on the third, I speculate that either the eggs or nestlings were depredated. None of the nests was parasitized by Brown-headed Cowbirds (*Molothrus ater*).

Spacing / Territoriality. The approximate average distance between (C. and M.) conspecifics in one study site (n = 3) was 800 m, interspersed with successful Blue Grosbeak (*Passerina caerulea*) nests located approximately midway between Lazuli Bunting nests. The one Indigo Bunting nest located in the same site was approximately 800 m from the closest Lazuli Bunting nest in habitat dissimilar from the latter (taller canopy, little understory, evidence of cattle

grazing, larger trees, no slopes). Although historically it was unusual to have both these two ecologically very similar species breeding and co-occurring in the same place, habitat alteration by colonists on the Great Plains created woody cover that enabled both species to extend their ranges (Greene et al. 1996). Indigo and Lazuli Buntings now co-exist, share songs, and occasionally hybridize (but defend inter-specific territories) in the western Great Plains (Payne 1992:8) and central Texas (Kostecke et al. 2004). Similarly, Greene et al. (1996) consider Lazuli and Indigo Bunting co-existence and hybridization “extensive,” occurring in South Dakota, Nebraska, Oklahoma, Colorado, Kansas, Wyoming, Utah, and recently in western Montana, along the Alberta-British Columbia border, and California (Rowe and Cooper 1997). In New Mexico, Indigo Buntings have increased their range since populations first established in the state in the 1960s (Payne 1992, citing Hubbard 1978) and are now reported within Lazuli Bunting range (S.O. Williams pers. comm.); there have been reports of hybrids in a number of places, including the Corrales bosque (D. Krueper pers. comm.). This summer’s observations now definitively document and add Grant County, New Mexico, to the list of places within New Mexico where Lazuli and Indigo Buntings breed and co-occur. However, more extensive study is needed to accurately document whether the two species hybridize here.

Questions to consider. Many questions can be raised regarding why Lazuli Buntings were documented in an area heretofore undocumented as breeders in 2000 in what is probably the second- or third-most heavily birded county in the state. It would seem unlikely that they were overlooked in previous years. If indeed this was their first nesting season in Grant County (and not just simply the first documentation), then it is germane to speculate why they appeared in this of all years. A possible explanation is that they opportunistically took advantage of suitable habitat, which is speculated to occur throughout the western United States (D. Krueper pers. comm.) Alternatively, it is plausible that fires earlier in the season (e.g., in Los Alamos) or drought conditions on their breeding grounds to the north may have interrupted or delayed their breeding cycle. With their nesting habitat destroyed or their prey base inadequate, the Lazuli Buntings may have moved farther south in search of suitable nesting habitat. Once found, they began either a first or second brood. Certainly the dates given above for nests found with eggs bring up the question of whether summer 2000’s observations represented second nesting attempts or delayed nesting. However, it is importation to note that Lazuli Buntings, in general, tend to be a late migrant and to nest somewhat late; young were in a nest in Cedar Crest (Bernalillo County) on 27 July 2000 (S.O. Williams pers. comm.). Also in NM in 2000, there was late nesting by other species that was attributed to the onset of rains in July and later, not to fires in the north. In 2002, Lazuli Buntings did not appear in mist nets of the MAPS station on the Gila River Farm until after 1 August (Fugagli, pers. comm.). Another hypothesis is that for some reason the Lazuli Buntings delayed their departure from their wintering grounds and never even arrived on their “customary” breeding grounds, stopping instead in the Cliff-Gila Valley at a time when food resources were abundant. (Median passage dates vary from early April in Texas to southern California; early to late May for the Great Basin includ-

ing Wyoming, Colorado, and the Dakotas; to mid-June in Alberta, the northern extent of their range [Greene et al. 1996].) Certainly there were reports earlier in the season of southwestern Willow Flycatchers (*Empidonax traillii extimus*) still on their wintering grounds in Central America at a time when they normally are setting up territories in the Gila-Cliff Valley (Stoleson, pers. comm.).

The significance of such a report may be more than an isolated incidence and indicate a trend in species range expansion, perhaps related to global warming and changes in distribution of resources. Although most reports of avian range expansion in the temperate zone related to global warming concern species breeding north of their historical range limits, other impacts could result in east-west and southerly movement (Inkley et al. 2004, Root et al. 2003, Price and Glick 2002). It is interesting to note that Greene et al. (1996, citing Hubbard 1978) cite northern New Mexico as the southern distribution of Lazuli Buntings; by the 1998 publication date of the AOU Checklist, this southern range boundary has extended southward to central New Mexico.

Although the real reasons for this phenomenon may never be known, it points to the importance of carefully recording and documenting observations and possible breeding activity of neotropical migrants in non-traditional areas that may at the time seem trivial or of no real importance at the time of sighting.

ACKNOWLEDGMENTS

I thank S. Stoleson, J. Findley, and D. Krueper for their comments and review of this paper and D. Zimmerman for encouraging me to follow the Lazuli Buntings beyond the end of the study until the nesting outcomes could be determined. R. Shook was essential in helping verify species identification of nesting Lazuli Buntings. K. Arnold, K. Brodhead, T. Corman, K. Dahl, R. Erickson, B. Freeman, R. Kostecke, D. Krueper, and S.O. Williams provided additional information on breeding ranges of Lazuli Buntings in the Southwest. I extend special appreciation to P. Boucher and R. Pope, Gila National Forest, for authorization to conduct research in the Gila National Forest Bird Habitat Area and to J. Runyan for permission to survey birds on his property. These observations were made while conducting research for S. Stoleson, formerly of the USDA Forest Service, Rocky Mountain Research Station, Albuquerque, NM.

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NMOS Bulletin 33(3-4): 44-70; 2005

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Nesting Associations of Western Kingbird (*Tyrannus verticalis*) With Two *Buteo* Species in the Estancia Valley of Central New Mexico

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Western Kingbirds (*Tyrannus verticalis*) are known to often share nest trees with birds of other species (Gamble and Bergin 1996). In North Dakota, species they associate with during nesting include two raptors, Ferruginous Hawk (*Buteo regalis*) and Swainson's Hawk (*B. swainsoni*) (Konrad and Gilmer 1982). This note is to report a similar pattern in the Estancia Valley of central New Mexico.

The Estancia Valley in Tarrant and Santa Fe Counties (mean elevation = 1,890 m) is a topographically closed basin with pinyon (*Pinus edulis*) – juniper (*Juniperus monosperma*) woodland on the lower surrounding slopes. The valley bottom supports a blue grama (*Bouteloua gracilis*)-dominated grassland with large numbers of juniper typically clustered along small ridges or arroyos. Non-native trees consist chiefly of elms (*Ulmus*), which occur as isolated trees, in rows along field edges, or even in small groves.

During raptor surveys in early June 2005, occupied nests of three Ferruginous Hawk pairs and two Swainson's Hawk pairs were located. The surveys were limited in scope and the nesting pairs that were discovered likely represented only a small fraction of the total Estancia Valley nesting population of these two species (see Cartron et al. 2002). Two of the three Ferruginous Hawk nests were in lone elm trees surrounded by grassland. The third Ferruginous Hawk nest was on a wooden pole fitted with a nesting platform for raptors, also in grassland. One of the two Swainson's Hawk nests was in a small grove of elm trees adjacent to an abandoned building. The second nest was in a row of elm trees at the edge of a field. All three Ferruginous Hawk nests had partly or fully feathered young (all observed on 3-6 June). The contents of the two Swainson's Hawk nests could not be ascertained, but a later visit to the first of the two nests (on 9 July) revealed two partially feathered young (about 3-4 weeks old).

The two lone elms with Ferruginous Hawk nests also had Western Kingbird nests, both with eggs. The Western Kingbird nests were located on different branches from those supporting the Ferruginous Hawk nests. In one instance, Ferruginous Hawk and Western Kingbird nests were situated at similar heights (about 2 m above ground); in the other, the nest of the Western Kingbird was 2 m above ground while the Ferruginous Hawk nest was substantially higher (3.5 m above ground). At the wooden pole nest site, the Ferruginous Hawk nest rested on the nesting platform. The Western Kingbird nest was tucked underneath and even inside the base of the Ferruginous Hawk nest.

No Western Kingbird nest was found in the two Swainson's Hawk nest trees, but occupied Western Kingbird nests were found in adjacent trees. At one location in

particular, several pairs of Western Kingbirds nested in the same small grove used by the Swainson's Hawk pair.

Konrad and Gilmer (1982) reported 5 cases of nesting association between Western Kingbirds and Swainson's Hawks and 25 cases of nesting association between Western Kingbirds and Ferruginous Hawks in North Dakota. Although based on a limited number of observations (presented here), the same patterns of associations appear to be true in the Estancia Valley.

Nesting associations between passerines and birds of prey have been at the center of a long-standing discussion (e.g., Durango 1949, Ewins et al. 1994). It is not clear whether passerines occasionally select the same nest sites as raptors owing to a limited availability of nest sites, or because they derive a benefit from the association (enhanced protection from predators and/or increased availability of insect food). In this study, Western Kingbirds had eggs at the time that Ferruginous Hawks were raising older nestlings. Egg-laying for the three Ferruginous Hawks can be back-dated to April using Palmer's (1988) estimate of the species' incubation period (i.e., 32-33 days). The Swainson's Hawk has an incubation period of 34-35 days (Olendorff 1973, Fitzner 1980), indicating that one of the two observed nests of that species (where young were later observed) had eggs by mid-May. The dates for nest building of Western Kingbirds in the Estancia Valley have not been documented, but range from 3 May through the first week of June in the Trans-Pecos area of Texas (Gamble 1985). Thus, it appears that in the Estancia Valley Western Kingbirds must have selected their nest sites much later than Ferruginous Hawks. Given that Swainson's Hawks may require 1-2 weeks to build their nest (Fitzner 1980), it is likely (although not certain) that Western Kingbirds began nesting also after Swainson's Hawks.

Olendorff (1993) does not list the Western Kingbird among all documented prey species of the Ferruginous Hawk (from 20 different studies). However, the Ferruginous Hawk does take birds as a small part of its diet, including in the Estancia Valley (Cartron et al. 2004b). Meanwhile, the Western Kingbird has not been shown to be a prey of the Swainson's Hawk in New Mexico (see Pilz 1983, Bednarz 1988, Cartron et al. 2004a), but birds can make up a large proportion of the species' diet (see England et al. 1997). Whether in the thin foliage of elm trees or directly under the nest of a raptor, protection against the risk of predation appears less than optimal. Yet, elm trees in particular occur in large numbers in the Estancia Valley, and many of them were inspected without finding a Western Kingbird nest. This pattern may indicate preferential nest selection of Western Kingbirds near Ferruginous Hawk and Swainson's Hawk nests rather than limited availability of nest sites.

Acknowledgments—I thank Bruce Neville and two anonymous reviewers, all of whom provided very helpful comments and suggestions on a draft of this manuscript.

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NEW MEXICO ORNITHOLOGICAL SOCIETY
44 Annual Meeting
Saturday 20 May 2006

CALL FOR PAPERS

The 44th Annual Meeting of the New Mexico Ornithological Society will be held Saturday 20 May 2006 at the Airport University Inn, 1901 University Blvd SE, Albuquerque, NM 87106. Oral presentations will be allotted 15 minutes, with an additional five-minute period of questions. Papers may range from technical reports of original research to general observations. Poster presentations are also encouraged. Poster sizes should be no larger than 36" H X 48" W.

Please submit abstracts containing the following:

TITLE (in all capital letters) of no more than 20 words.

Names and addresses of author(s) in the following form:

Bear, V.L. and C. Finch, Dept. Ornithology, University of
Central New Mexico, Birdsville, NM 88666

Body of abstract as one single-spaced paragraph.

If at all possible, please email a copy of your abstract, including the entire abstract in the body of the email, NOT as an attachment. This will prevent any problems with incompatible word processing formats.

Email abstract on or before 14 April to: wolf@unm.edu *ONLY if you do not have access to email*, you may mail a copy of the abstract, postmarked no later than 10 April to:

Dr. Blair Wolf
UNM Biology, MSC03-2020
1 University of New Mexico
Albuquerque, NM 87131-0001

The abstracts will be distributed at the meeting and will be published in the *NMOS Bulletin*

NMOS RESEARCH GRANT PROGRAM

The NMOS now offers two \$1000 research grants each year to help support student research on New Mexico birds. The criteria for the grants are:

- 1) the grant money must be spent while conducting research on birds in New Mexico; and
- 2) the recipient must either present their findings at an annual NMOS Meeting or submit an article on their research to the *NMOS Bulletin*.

A short research proposal (2 pages maximum), plus names of three references, must be submitted describing the nature of the project and how the allocated funds are to be spent (on gas, tape recording, specific equipment, etc.). Research proposals must be received by April 30, 2006. Priority will be given to student research projects. Please submit your proposal to:

Dr. Roland Shook
Western New Mexico University
Silver City, NM 88061
(shookr@wnmu.edu).

2006 North American Migration Count Call for Participants

The North American Migration Count (NAMC) is held each year on the 2nd Saturday of May, which this year is the 14th. The counts are conducted within a given county. New Mexico generally has good coverage, but there are a few counties that have not yet participated. If you would like to participate in an existing count, please see the County Compiler. Compiler names are listed in the report of the 2004 NAMC in the previous issue of the Bulletin. Any changes to the compiler list will be posted to the NMOS Website. To start a new count, please see the State Compiler, Steve West, at wthrsswift@carlsbadnm.com.

REPORTING NEW MEXICO BIRD OBSERVATIONS

It is common knowledge that birders have added greatly to our understanding of the bird life of New Mexico. In fact, birders now account for the majority of new data on species distribution and field identification of North American birds generally. However, unless field observations are properly documented and submitted for consideration, they have no way of becoming part of the ornithological record. For New Mexico, bird records are published seasonally in *North American Birds*, the American Birding Association's journal (now in its 56th year) dedicated to documenting the continent's bird life, and subsequently in the *NMOS Field Notes*, published quarterly by the New Mexico Ornithological Society.

Sandy Williams is New Mexico's Regional Editor for *North American Birds* as well as Editor of *NMOS Field Notes*; he also maintains the NMOS Archives, including all written bird sighting submissions as well as the Photo-Tape File, which includes prints, slides, audio tapes, video tapes, digital images, and compact disks. The year is divided into four seasons (see below), and observers are asked to submit their records to Sandy promptly at the close of each season. All submissions become part of the NMOS Archives; even if all your reports are not published, they remain on file and available to future workers.

All New Mexico birders are encouraged to submit their sightings, especially of uncommon species, nesting birds, and early, late, or out-of-range birds. Please submit your records in taxonomic order and make sure all records include the date, exact location, numbers of birds, age and sex/color morph, if applicable, and the name(s) and contact information (including e-mail address) of observer(s).

Please provide details for unusual records. Details are usually needed for sightings of birds appearing in light-faced type in the NMOS Field Checklist of New Mexico Birds. Written details and other documentation of very rare species will be circulated to the New Mexico Bird Records Committee for evaluation. Written details may be submitted on a report form (available by mail from Sandy Williams or electronically from the NMOS web page), although any written format is acceptable. If photographs are submitted, please include on the photo/slide your name, date the picture was taken, and the exact location.

Below are the seasons for reporting New Mexico bird observations. Don't procrastinate—send your reports as soon as possible after the close of a reporting period.

Autumn	August 1 – November 30	(= 4 months)
Winter	December 1 – February 28/29	(= 3 months)
Spring	March 1 – May 31	(= 3 months)
Summer	June 1 – July 31	(= 2 months)

Seasonal reports and other records should be submitted to:

Sartor O. Williams III
New Mexico Bird Records Committee
1819 Meadowview Dr NW
Albuquerque, NM 87104-2511
e-mail: sunbittern@earthlink.net

NMOS BULLETIN

The *Bulletin* is published four times a year; subscription is by membership in NMOS. The *Bulletin* serves two primary purposes: (1) to publish articles of scientific merit concerning the distribution, abundance, status, behavior, and ecology of the avifauna of New Mexico and its contiguous regions and (2) to publish news and announcements deemed of interest to the New Mexico ornithological community.

NMOS members are encouraged to submit articles and news. Articles received are subject to review and editing. Published articles are noted in major abstracting services, e.g., the AOU's "Recent Ornithological Literature" section of *The Auk*. Please submit news and articles in double-spaced hard copy or, preferably, electronically on disk or by e-mail to the Editor, Bruce Neville, 2105 Lakeview Road SW, Albuquerque, NM 87105, e-mail bneville@unm.edu.

ANNUAL DUES

Membership in the New Mexico Ornithological Society is open to anyone with an interest in birds. Memberships are for the calendar year and annual dues are payable 1 January.

Dues are: Regular \$10, Family \$15, Student \$5, Supporting \$35, and Life \$300.

Dues and membership applications may be sent to the New Mexico Ornithological Society, P.O. Box 3068, Albuquerque, NM 87190-3068 or to the Treasurer, Jerry Oldenettel, 499 Farm-to-Market Road, Socorro, NM 87801.

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This issue of the *NMOS Bulletin* was published 17 March 2006

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AREHART, RICHARD D	1405 SAN CARLOS DR SW #1	ALBUQUERQUE	NM	87104-1060
ARTHUR, MARY LOU	744 PARKSIDE DR NE	ALBUQUERQUE	NM	87123-2208
BASHAM, PAT	P O BOX 1646	SOCORRO	NM	87801-1646
BATKIN, JONATHAN	4 MONTE ALTO CT	SANTA FE	NM	87508-8884
BEATTY, DAVID J	P O BOX 2632	SILVER CITY	NM	88062-2632
BEAULIEU, EILEEN	1173 MESA LOOP	LOS LUNAS	NM	87031-8323
BENKMAN, CRAIG W	UNIVERSITY OF WYOMING	LARAMIE	WY	82070-3166
BESSER, RICHARD	22 VENADO RD	TIJERAS	NM	87059-7600
BIXLER, SHERRY M	205 TIERRA BERRENDA	ROSWELL	NM	88201-7869
BLANEY, JED	2900 VISTA DEL REY NE	ALBUQUERQUE	NM	87112-2198
BLEAKLY, DAVID L	3813 MONROE NE	ALBUQUERQUE	NM	87110-1105
BLINN, JERRY	7 CALLE PINON	PLACITAS	NM	87043-9316
BOETTCHER, GARY & KAREN	187 SKYLAND	TIJERAS	NM	87059-8118
BROCK, PEGGY	P O BOX 35771	ALBUQUERQUE	NM	87176-5771
BROWNELL, TERRY	P O BOX 2111	CORRALES	NM	87048-2111
BROZEK, CELESTYN M	1426A ADAMS ST NE	ALBUQUERQUE	NM	87110-5047
BRYANT, NOLINA	P O BOX 507	SOCORRO	NM	87801-0507
BULOW, TAMIE H	#99 SOUTH HOLLAND ST.	LAKEWOOD	CO	80266-1066
CARTER, WILLIAM A	P O BOX 2209	ADA	OK	74821-2209
CARTRON, JEAN-LUC	3101 DAKOTA NE	ALBUQUERQUE	NM	87110-2610
CATES, ROBERT G	2317 MALPAIS RD SW	ALBUQUERQUE	NM	87105-7217
CLEARY, DAVID J	P O BOX 221	MAXWELL	NM	87728-0221
CORS, PAUL B	1409 E GARFIELD ST	LARAMIE	WY	82070-4135
COTTON, KATHLEEN M	16 SALLY DRIVE	LOS LUNAS	NM	87031-6338
COX, STEVE & NANCY	4426 SAN ISIDRO NW	ALBUQUERQUE	NM	87107-2841

CRAIG, ALAN M & NARCA MOORE-CRAIG	P O BOX 16361	PORTAL	AZ	85632-1361
CRUZ, HARVEY	280 CAMINO ENCANTADO	LOS ALAMOS	NM	87544-2505
CURSON, DAVID	112 S WASHINGTON ST	BALTIMORE	MD	21231-1937
DARGAIN, VANESSA	3305 CALLE CUERVO NW APT 533	ALBUQUERQUE	NM	87114-9236
DAVIS, CAROL K	2828 DON PANCHO RD NW	ALBUQUERQUE	NM	87104-3054
DAY, MARIAN	P O BOX 2226	CORRALES	NM	87048-2226
DECKER, LINDA MCCULLOUGH	307 SOUTH ALU ROAD	WAILUKU, MAUI	HI	96793-1509
DESMOND, MARTHA	1425 SUE COURT	LAS CRUCES	NM	88007-5524
DICLEMENTE, JOHN	3446 N SUMMIT AVE	MILWAUKEE	WI	53211-2931
DIRCKX, F J	240 JADE STREET	BROOMFIELD	CO	80020-2257
DOSTER, ROBERT	6119 BLACK RIDGE NW	ALBUQUERQUE	NM	87120-2183
DOUGLAS, JOHN & LINDA	916 LARK PLACE	LAS CRUCES	NM	88007-5437
DUNCAN, RUSSELL B	6111 BOBCAT LANE	TUCSON	AZ	85743-9273
EITNIEAR, JACK	218 CONWAY DRIVE	SAN ANTONIO	TX	78209-1716
ELLENBERG, RICHARD D	1714 UPPER CANYON ROAD	SANTA FE	NM	87501-6142
ELLIS, LISA M	604 WELLESLEY DR NE	ALBUQUERQUE	NM	87106-2158
EMKALNS, DOUGLAS	2105 LAKEVIEW RD. SW	ALBUQUERQUE	NM	87105-6104
EPPELSON, KAREN	P. O. BOX 2698	RANCHOS DE TAOS	NM	87557-2698
EPPICH, JOHN W	116 E GLADDEN DR	FARMINGTON	NM	87401-6126
FAIR, JEANNE M	156 COUNTY ROAD 113	SANTA FE	NM	87506-9714
FENNER, ANDREW	P O BOX 174	CERRILLOS	NM	87010-0174
FETTIG, STEPHEN	947 QUARTZ STREET	LOS ALAMOS	NM	87544-2940
FINDLEY, JAMES S	P O BOX 44	CORRALES	NM	87048-0044
FOY, BERNARD R	214 SPRUCE ST	SANTA FE	NM	87501-1624
FRANKLIN, PAT	726-33 TRAMWAY	ALBUQUERQUE	NM	87122-0000
FROELICH, GARY K	5209 VISTA BONITA NE	ALBUQUERQUE	NM	87111-5743
FRY, LAVINA	587 KNOWLES ROAD	CLAYTON	NM	88415-4717

GARBER, GAIL	820 WESTERN HILLS DR	RIO RANCHO	NM	87124-6114
GELUSO, KEITH	9005 SNOWHEIGHTS BLVD NE	ALBUQUERQUE	NM	87112-2720
GENNARO, DR ANTONIO L (TONY)	816 W 19TH	PORTALES	NM	88130-7104
GERSHEN, SHEILA	P O BOX 292	SANTA FE	NM	87504-0292
GIBSON, AGNES	HCR71, BOX 21	EAGLE NEST	NM	87718-9701
GOMEZ, ALICE	3124 INDIANA NE	ALBUQUERQUE	NM	87110-2629
GORBET, LARRY P	DEPT ANTHROPOLOGY - UNM	ALBUQUERQUE	NM	87131-1086
GRACEY, M REBECCA	2400 PLAZA VIZCAYA NW	ALBUQUERQUE	NM	87104-2936
GRANILLO, KATHY & LUIS	875 TRAMWAY LANE CT NE	ALBUQUERQUE	NM	87122-1442
GREISEN, EIRC	121 STALLION CIRCLE	SOCORRO	NM	87801-4453
HAAS, RUTH B	6 BOBCAT HILL RD	SANDIA PARK	NM	87047-9401
HAMMOND, ROGER & KATHERINE	13500 SUNSET CANYON DR NE	ALBUQUERQUE	NM	87111-3057
HARRISON, CHARLES & LINDA RAWSON	181 CHISHOLM TRAIL	SANTA FE	NM	87506-9576
HAWKINS, LES G	7532 BEAR CANYON RD NE	ALBUQUERQUE	NM	87109-3847
HAWKSWORTH, DAVE	USFS LAB-333 BROADWAY SE	ALBUQUERQUE	NM	87102-3498
HAYES, JEANNE	1601 W MARR	HOBBS	NM	88242-0757
HAYWARD, DR BRUCE J	HCR 88067 20 VILLAGE RD	SILVER CITY	NM	88061-8631
HEALY, JOSEPH F	RIO VISTA PL #405	SANTA FE	NM	87501-1514
HEMMER, WILLIAM & KELLY	P O BOX 228	GLENWOOD	NM	88039-0228
HERRMANN, LOIS C	530 CALLE CORVO	SANTA FE	NM	87501-2711
HILCHEY, MICHAEL	4805 MCKNIGHT AVE NE	ALBUQUERQUE	NM	87110-5050
HINES, TOM J	2221 NORTH CANAL	CARLSBAD	NM	88220-9609
HOFFMAN, DICK & JEAN	3079 E OVERLOOK RD	CLEVELAND HTS	OH	44118-2462
HOPPE, ROGER	1526 EAGLE RIDGE DR NE	ALBUQUERQUE	NM	87122-1150
HOPWOOD, LEE	7522 EDITH BLVD NE	ALBUQUERQUE	NM	87113-1204
HOWARD, MELISSA	3028 SOMBRA DEL RIO NW	ALBUQUERQUE	NM	87107-2977
HOWE, WILLIAM	P O BOX 461	ALBUQUERQUE	NM	87103-0461

HUBBARD, DR JOHN P	10 URRACA LANE	SANTA FE	NM	87506-2769
HUEY, BILL	P O BOX 381	TESUQUE	NM	87574-0381
HUNDETMARK, CHARLES & MARJORIE	2546 LAKE MEADOW	LAFAYETTE	CO	80026-9162
HUNING, TYLER	P O BOX 542	MOUNTAINAIR	NM	87036-0542
HUSSEY, BARBARA R	3708 GEN CHENNAULT NE	ALBUQUERQUE	NM	87111-3258
JACKMAN, THOMAS	P O BOX 3175	RANCHOS DE TAOS	NM	87557-3175
JENKS, RANDOLPH	2146 E 4TH ST	TUCSON	AZ	85719-5116
JENSEN, CHARLES L	4044 RANCHO GUSTO NW	ALBUQUERQUE	NM	87120-5814
JERVIS, CARLYN	109 DAYBREAK	SANTA FE	NM	87509-9551
JEWELL, JESSIE & DELONG, JOHN	2314 HOLLYWOOD AVE NW	ALBUQUERQUE	NM	87104-1626
JOHNSON, LARRY L	730 ARDEN RD	PASADENA	CA	91106-4410
JOHNSON, GARY & CAROL	33 TETILLA ROAD	SANTA FE	NM	87508-2202
JOHNSON, KRIS	20 EAGLE ROAD	TIJERAS	NM	87059-8012
JOHNSON, TERRELL H	P O BOX 63	LA JARA	NM	87027-0063
JOST, RONALD C	297 FARGO AVE	BUFFALO	NY	14213-2440
KERSTING, CECIL C	401 RUE SAINT PETER #228	METAIRIE	LA	70005-4620
KIFF, LLOYD	5668 W FLYING HAWK LANE	BOISE	ID	83709-7289
KILROY, THOMAS J, JR.	469 SHELTON AVE	SHELTON	CT	06484-2829
KLEWENO, WALTER P	2908 CALLE DEL BOSQUE NW	ALBUQUERQUE	NM	87104-3133
KRAMER, CLIFFORD & PATRICIA	2720 DECKER AVE NW	ALBUQUERQUE	NM	87107-2969
KREHBIEL, FRANCES M (MRS ADOLF J)	323 MAPLE APT 2	CLAYTON	NM	88415-3015
KRUEPER, DAVID & JANET RUTH	105 MISSION RIDGE ROAD	CORRALES	NM	87048-6407
KUEHN, WOODY	102 PALACIO RD	CORRALES	NM	87048-9648
LA POLLA, VALERIE	941 CALLE MEJIA #602	SANTA FE	NM	87501-1464
LABEAUDE, DANIEL	5 ESTAMBRE CT	SANTA FE	NM	87505-2204
LACOSS, JET & DENNIS	1207 LA RAMBLA	SANTA FE	NM	87505-5971
LAMKIN, JANET	2033A 45TH ST	LOS ALAMOS	NM	87544-1713

LEARN, G EMERSON & DR. CHERYL	P O BOX 69	SAN ANTONIO	NM	87832-0069
LECKMAN, LANE	521 SOLANO DR	ALBUQUERQUE	NM	87108-1047
LEE, COLIN K	P O BOX 1246	SOCORRO	NM	87801-1246
LEFKOFSKY, LAURA J	8002 MORROW RD NE	ALBUQUERQUE	NM	87110-4834
LEONARD, BILLY P	913 NAKOMIS DR NE APT D	ALBUQUERQUE	NM	87112-6298
LESPERANCE, H H	1801 N WAGNER	FARMINGTON	NM	87401-4267
LEWIS, DR W BURTON	6100 CORTADERIA NE APT 3411	ALBUQUERQUE	NM	87111-8009
LEWIS, EUGENE R & EULALIA M	2011 YUCCA ST	SILVER CITY	NM	88061-5763
LEWIS, JANE & RICK	4003 KENDALL #107	SAN ANTONIO	TX	78212-2439
LIGON, DR J DAVID	DEPT OF BIOLOGY - UNM	ALBUQUERQUE	NM	87131-0001
LINDSAY, BERT W	2910 UTAH NE	ALBUQUERQUE	NM	87110-2464
LINGEMAN, STANLEY D	10501 LAGRIMA DE ORO NE 3 #208	ALBUQUERQUE	NM	87111-3739
LITTLEFIELD, CARROLL D	P O BOX 44	RODEO	NM	88056-0044
LOCKNER, RUTH & AVERY	1111 MONTE ALTO CT NE	ALBUQUERQUE	NM	87123-1853
LOVEKIN, ANNE D.	5105 GUADALUPE TR. NW	ALBUQUERQUE	NM	87107-3344
MALONE, LARRY	1420 SALONA RD SW	DEMING	NM	88030-7712
MARTIN, SUE	5524 AGUSTA TRAIL	FORT COLLINS	CO	80528-9183
McBRIDE JR, JOHN T	P O BOX 78483	SHREVEPORT	LA	71137-8483
MCCARTHY, NIKKI	1843 FIELD DR NE	ALBUQUERQUE	NM	87112-2833
McCASLAND, PAT	P O BOX 718	EUNICE	NM	88231-0718
McCONNELL, PAUL E	605 AUTUMNWOOD PL SE	ALBUQUERQUE	NM	87123-4348
MCGREEVY, SUSAN	1851 CAMINO CORRALES	SANTA FE	NM	87505-7507
MCINTOSH, PATRICIA	1200 CAMINO DE LA CRUZ	TAOS	NM	87571-0000
McKNIGHT, DANIEL & BARBARA	2026 BRIARWOOD LANE	LAS CRUCES	NM	88005-1523
MCKNIGHT, JOHN R	137 WEST ZIA RD.	SANTA FE	NM	87505-5750
MEANS, MICHAEL	4833 MESA PRIETA CT NW	ALBUQUERQUE	NM	87120-4620
MEHLHOP, PATRICIA	1819 MEADOWVIEW DR NW	ALBUQUERQUE	NM	87104-2511

MEHLMAN, DAVID W	322 TYLER ROAD NW	ALBUQUERQUE	NM	87107-6136
MEYER, RAYMOND	449 EL PRADO AVE	LAS CRUCES	NM	88005-2972
MEYERS, JEFFRY D	5210 EAKES ROAD NW	ALBUQUERQUE	NM	87107-5536
MILLER, DARWIN D	10501 LAGRIMA DE ORO NE 3 #208	ALBUQUERQUE	NM	87111-3739
MILLER, JULIUS & DORIS	2901 CITY ST	T OR C	NM	87901-7901
MOORE, BILL	P O BOX 298	TYRONE	NM	88065-0298
MOORE, MARION	P O BOX 298	TYRONE	NM	88065-0298
MORRIS, LETITIA/NMMNH	1801 MOUNTAIN ROAD NW	ALBUQUERQUE	NM	87104-1375
MOSELEY, LYNN	2232 COTTAGE SAN ROAD	SILVER CITY	NM	88061-8970
MUNRO, BILL	5272 DABINAWA DR	M CLOUTH	KS	66054-4164
NEELY, LANNOIS F	5212 MARCADAS NW	ALBUQUERQUE	NM	87114-4370
NELSON, ALAN P	611 ASHURST DR	FARMINGTON	NM	87401-5762
NELSON-MOORE, JAMES	40 IMMANUEL	SANTA FE	NM	87508-0000
NEVILLE, BRUCE D	2105 LAKEVIEW RD, SW	ALBUQUERQUE	NM	87105-6104
NORRIS, BILL & DENISE FRIEDRICK	P O BOX 3061	SILVER CITY	NM	88062-3061
NOVEROSKE, DIANE	702 JEFFREY PL	WHITE ROCK	NM	87544-3516
OATMAN, FRANK	P O BOX 618	ARROYO HONDO	NM	87513-0618
OLDENETTEL, JERRY R	499 FARM-TO-MARKET ROAD	SOCORRO	NM	87801-5814
OSTERHOUSE, JO	2255 CALLE CACIQUE	SANTA FE	NM	87505-4909
PANTLE,DAVID(WILLIAM D) & SHERILL	1826 FLORA CT	CANON CITY	CO	81212-4577
PARKER, GARY	1401 PENNSYLVANIA NE #2133	ALBUQUERQUE	NM	87110-7548
PARMETER, JOHN	1325 PAISANO NE	ALBUQUERQUE	NM	87112-4523
PARMETER, BENJAMIN & RUTHMARY	2500 EMERSON ST	NAPA	CA	94558-4611
PENN, GARETH	4990 SHORELINE HWY	STINSON BEACH	CA	94970-9701
PETERSON, ROGER S	1750 CAMINO CORRALES	SANTA FE	NM	87505-7502
PLACE, JAMES R	10443 CALLE MIRLO NW	ALBUQUERQUE	NM	87114-5235
PORTER, BEN	9312 JEFFERSON ST NE	ALBUQUERQUE	NM	87110-0000

POWELL, ANITA	100 MOUNTAIN VIEW DRIVE	RUIDOSO	NM	88345-7609
PRICKETT, ROBERT J	2633 SOL Y LUZ LP	SANTA FE	NM	87505-5294
PULCINELLA, NICHOLAS J	613 HOWARD RD	WEST CHESTER	PA	19380-3977
RANDALL DAVEY AUDUBON CENTER	P O BOX 9314	SANTA FE	NM	87504-9314
REBERT, PAULA & PHILLIP MELNICK	1319 CAMINO AMPARO NW	ALBUQUERQUE	NM	87107-2605
REEVES, TIM D & LINDA MARY	5101 PINON HILLS BLVD	FARMINGTON	NM	87402-1731
RINI, JIM	P O BOX 4508	ALBUQUERQUE	NM	87196-4508
RISTOW, MARY	1517 1/2 CANYON ROAD	SANTA FE	NM	87501-6135
ROEDEL, MICHAEL	P O BOX 844	CERRILLOS	NM	87010-0844
ROMINGER, ANDREW J	915 ROMA NW	ALBUQUERQUE	NM	87102-1941
ROOT, MARY ALICE	1108 COLUMBIA NE	ALBUQUERQUE	NM	87106-2602
ROOT, TERRY L	656 JUNIPERO SERRA	STANFORD	CA	94305-8444
RUSTAY, CHRISTOPHER	1824 STANFORD NE	ALBUQUERQUE	NM	87106-2538
SAGER, LAWRY	P O BOX 203	CERRILLOS	NM	87010-0203
SANBORN, CAROLYN R	1110 PRINCETON NE	ALBUQUERQUE	NM	87106-2615
SANDERS, JEFFREY	1577 WINNETKA ROAD	GLENVIEW	IL	60025-1821
SCHNEIDER, KENNETH C.	2701 SW 193RD TERRACE	MIRAMAR	FL	33029-2478
SCHOLES, DR AND MRS ROBERT	P O BOX 117	RODEO	NM	88056-0117
SEYFFERT, KENNETH D	2206 S LIPSCOMB ST	AMARILLO	TX	79109-2239
SHANE, THOMAS G	1706 BELMONT	GARDEN CITY	KS	67846-4609
SHOOK, ROLAND	DEPT NATURAL SCIENCES WNMU	SILVER CITY	NM	88062-0680
SHREVE, JEREMY	307 1/2 E LOGAN AVE	GALLUP	NM	87301-6135
SLOWEN, FRANK & RITA	1940 QUAIL RUN LP NE	ALBUQUERQUE	NM	87122-1134
SMITH, BRAHAM W	116 PIEDRA LOOP	LOS ALAMOS	NM	87544-3828
SNIDER, PAT	4801 SAN MATEO LANE NE #181	ALBUQUERQUE	NM	87109-2403
SPITZER, WAYNE	BOX 13	FAYWOOD	NM	88034-0013
ST HILAIRE, ROGER (LYNDA D)	8528 MERRIMAC CT NE	ALBUQUERQUE	NM	87109-5031

STACEY, DR PETER B	DEPT OF BIOLOGY - UNM	ALBUQUERQUE	NM	87131-0001
STAHLECKER, DALE W	30 FONDA RD	SANTA FE	NM	87505-8815
STALEY, TAMMY	6911 GUADALUPE TRAIL NW	ALBUQUERQUE	NM	87107-6605
STANLEY, CHRISTY R	900 E GARCIA ST	SANTA FE	NM	87505-2864
STANLEY, FRANCIS E	P O BOX 44	POLVADERA	NM	87828-0044
STEVENS, EDWARD M	P O BOX 1947	TIJERAS	NM	87059-1947
STEVENSON, MARK	4201 E MONTE VISTA DR #J207	TUCSON	AZ	85712-5554
STINNETT, KEN	BOX 1137	MESILLA	NM	88046-1137
STONE, JULIE	P O BOX 191	TUCUMCARI	NM	88401-0191
STUART, JAMES	6620 HENSCH AVE NE	ALBUQUERQUE	NM	87109-3733
SYZMANSKI, REBECCA	3412 ST ANDREWS DR	RIO RANCHO	NM	87124-2175
TAKAMINE, JOYCE	5449 OMAHA PL	BOULDER	CO	80303-4101
TELANDER, TODD	915 CALLE CONQUISTADOR	TAOS	NM	87571-4346
TEUBER, ROSS L	1612 KENTUCKY NE	ALBUQUERQUE	NM	87110-6934
THOMPSON, BRUCE	P O BOX 25112	SANTA FE	NM	87504-5112
TOKUDA, SEI	3008 MARBLE NE	ALBUQUERQUE	NM	87106-2043
TRAVIS, DR JAMES R & GLORIA	9420 AVENIDA DE LA LUNA NE	ALBUQUERQUE	NM	87111-1601
TURISK, MICHAEL	4071 FAIRVIEW PARKWAY	BLADELL	NY	14219-2432
VANBUSKIRK, RAYMOND	1801 KIRBY CT NE	ALBUQUERQUE	NM	87112-3514
VAUGHN, JAMES B (BRAD)	6709 ORPHELIA NE	ALBUQUERQUE	NM	87109-6935
VAUGHN, NICK	1309 WELLESLEY DR NE	ALBUQUERQUE	NM	87106-1133
WALKER, HIRA	DEPT OF BIOLOGY - UNM	ALBUQUERQUE	NM	87131-1091
WATSON, MARK	6663 VOOSCANE	COCHITI LAKE	NM	87083-6003
WEBSTER, R E & R A ROWLETT	P O BOX 16412	PORTAL	AZ	85632-0412
WEST, STEVE	1105 OCOTILLO CANYON	CARLSBAD	NM	88220-3160
WEST, WOODY & BO	10 KACHINA	LOS ALAMOS	NM	87544-2519
WEST, BILL	2599 CAMINO CHUECO	SANTA FE	NM	87505-5261

WIEDENMANN, RICK	1504 GRANT	CARLSBAD	NM	88220-4130
WIGGINS, DAVID A	FUNBO, HALLKVED	S-755.97 UPPS		SWEDEN
WILCOX, ROBERT M	507 E 34TH ST	SILVER CITY	NM	88061-5913
WILLARD, BILL & ANITA	3005 LA MANCHA NW	ALBUQUERQUE	NM	87104-3010
WILLIAMS III, SARTOR O	1819 MEADOWVIEW DR NW	ALBUQUERQUE	NM	87104-2511
WILLIAMS, MARJORIE	3440 VAIL AVE SE APT B	ALBUQUERQUE	NM	87106-2418
WILLIAMS, MORRIS D	120 HURRICANE CREEK RD	LAWRENCEBURG	TN	38464-8202
WITTMAN, BILL	4905 CRESTA DEL SUR CT NE	ALBUQUERQUE	NM	87111-2993
WOLF, BLAIR & COLE	1100 COLUMBIA DR NE	ALBUQUERQUE	NM	87106-2602
WOLF, CYNTHIA	P O BOX 236	GILA	NM	88038-0236
WOODWARD, HOPE	BOX 42125 RWFM	LUBBOCK	TX	79409-2125
ZABRISKIE & SCOTT, JIMMY & MARCY	10455 IRONSHOE RD	LAS CRUCES	NM	88007-6000
ZIMMER, BARRY R	8016 TONTO PLACE	EL PASO	TX	77904-3124
ZIMMERMAN, DR DALE & MARIAN	1011 W FLORENCE ST	SILVER CITY	NM	88061-3905

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