



**A Checklist of Plant and Animal Species at
Los Alamos National Laboratory and Surrounding Areas**

LA-UR-97-4501

November 1997

*Approved for public release;
distribution is unlimited.*

A Checklist of Plant and Animal Species at
Los Alamos National Laboratory and
Surrounding Areas

Compiled by Hector Hinojosa



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

CONTENTS

ABSTRACT	1
1.0 INTRODUCTION.....	1
2.0 ENVIRONMENTAL SETTING	2
2.1 GENERAL SETTING.....	2
2.2 FLOODPLAINS AND WETLANDS.....	5
2.3 PLANTS.....	5
2.3.1 <i>Vascular Plants</i>	5
2.3.2 <i>Non-Vascular Plants</i>	6
2.4 WILDLIFE.....	6
2.4.1 <i>Insects</i>	6
2.4.2 <i>Aquatic Macroinvertebrates</i>	7
2.4.3 <i>Reptiles and Amphibians</i>	7
2.4.4 <i>Birds</i>	7
2.4.5 <i>Fish</i>	7
2.4.6 <i>Mammals</i>	8
2.5 THREATENED, ENDANGERED, AND SENSITIVE SPECIES.....	9
2.5.1 <i>Plants</i>	9
2.5.2 <i>Wildlife</i>	9
3.0 DATA PRESENTATION	9
TABLE 1. PLANTS AT LANL AND SURROUNDING AREAS.....	10
TABLE 2. FUNGI AT LANL AND SURROUNDING AREAS	27
TABLE 3. BIRDS AT LANL AND SURROUNDING AREAS.....	33
TABLE 4. MAMMALS AT LANL AND SURROUNDING AREAS.....	37
TABLE 5. REPTILES AND AMPHIBIANS AT LANL AND SURROUNDING AREAS.....	39
TABLE 6. ANT SPECIES LIST FROM MACKAY ET AL. (1986).....	41
TABLE 7. TERRESTRIAL INSECTS AT LANL AND SURROUNDING AREAS.....	43
TABLE 8. NON-INSECT TERRESTRIAL ARTHROPODS	46
TABLE 9. AQUATIC INVERTEBRATES AT LANL AND ADJACENT AREAS	47
REFERENCES.....	57

**A CHECKLIST OF PLANT AND ANIMAL SPECIES
AT LOS ALAMOS NATIONAL LABORATORY
AND SURROUNDING AREAS**

Compiled by Hector Hinojosa

ABSTRACT

Past and current members of the Biology Team (BT) of the Ecology Group have completed biological assessments (BAs) for all of the land that comprises Los Alamos National Laboratory (LANL). These assessments include lists of plant and animal species with the potential to exist on LANL lands and the surrounding areas. To compile these lists, BT members examined earlier published and unpublished reports, surveys, and databases that pertained to the biota of this area or to areas that are similar. The species lists that are contained herein are compilations of the lists from these BAs, other lists that were a part of the initial research for the performance of these BAs, and more recent surveys.

1.0 INTRODUCTION

As part of Los Alamos National Laboratory's (LANL's) Ecology Program activities, the Biology Team (BT) of the Ecology Group (ESH-20) at LANL has completed a series of biological assessments for all of the areas within LANL boundaries. The purpose of each assessment was threefold: to ascertain before site characterization or construction if there were any plant or wildlife species or critical habitats that are protected under the Endangered Species Act; to identify any sensitive areas such as floodplains or wetlands and their general characteristics; and to provide baseline data about plant and animal species to help define the habitat types of the area. The compilation of baseline data pertaining to existing species involved the review of earlier published and unpublished reports, surveys, and databases, resulting in quite an extensive listing of plant and animal species with the potential to exist in this area. This checklist compiles the lists from all of the biological assessments (all of which have been included in the References) and other miscellaneous research documents into one publication.

2.0 ENVIRONMENTAL SETTING

2.1 General Setting

LANL is located in north-central New Mexico approximately 80 km (62 mi) by air north of Albuquerque and 32 km (22 mi) northwest of Santa Fe (Figure 1). The Laboratory is located on the Pajarito Plateau, an apron of volcanic sedimentary rocks stretching north-south for 32 to 40 km (20 to 25 mi), and east-west for 8 to 16 km (5 to 10 mi). The 2250-m (7500-ft) -high plateau slopes gently eastward toward the Rio Grande from the edge of the Jemez Mountains, a complex pile of volcanic rock along the northwest margin of the Rio Grande rift. At 1860 m (6200 ft), the plateau slopes steeply, a result of the down-cutting of the Rio Grande, which lies below the plateau at 1620 m (5400 ft).

Intermittent streams, draining adjacent mountains and tablelands, flow southeastward dissecting the plateau into a number of finger-like narrow mesas separated by deep canyons. Major canyons include Los Alamos, Sandia, Mortandad, Pajarito, Ancho, Potrillo, and Water Canyons. Chaquehui, Indio, Fence, and Cedro Canyons and Cañada del Buey all have smaller drainage areas.

Geological substrate, Bandelier Tuff, was deposited from volcanic eruptions in the Jemez Mountains about 1.1 to 1.4 million years ago (ESG 1988). The tuff overlaps other volcanics that are underlain by the conglomerate of the Puye Formation (ESG 1988). This conglomerate intermixes with Chino Mesa basalts along the Rio Grande.

The area is characterized by a semiarid, temperate mountain climate with summer temperatures typically ranging from a low of 10°C to a high of 27°C (50°F to 80°F) during a 24-h period (Bowen 1990). Winter temperatures generally range from -12°C to about 10°C (10°F to 50°F) during a 24-h period. The annual precipitation in the vicinity ranges from 33 to 46 cm (13 to 18 in.), with much of it occurring during summer rain showers in July and August.

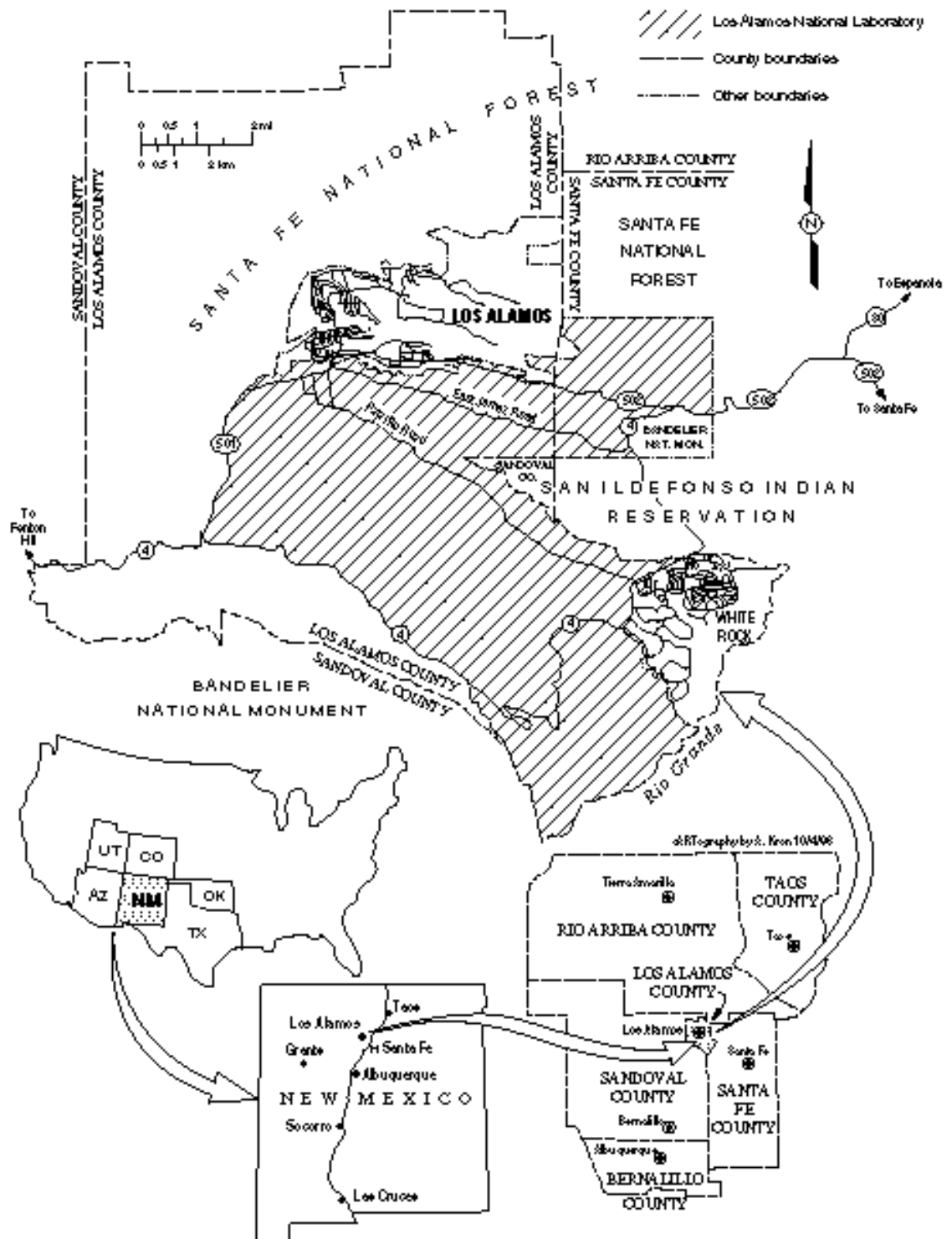


Figure 1. Location of Los Alamos National Laboratory.

The plant cover types on the Pajarito Plateau and surrounding Jemez Mountains are diverse. Five major plant cover types have been defined within the boundaries of LANL: juniper savannah, piñon-juniper woodlands, ponderosa pine forests, mixed conifer forests, and grasslands. Along ephemeral and perennial streams, riparian zones are common.

The juniper savannah is found predominantly in White Rock Canyon to an elevation of approximately 1829 m (6000 ft). The piñon-juniper woodlands range from elevations of approximately 1830 to 2129 m (6000 to 6988 ft). Blue grama (*Bouteloua gracilis*), galleta (*Hillaria jamesii*), and little bluestem (*Schizachyrium scoparius*) are common understory species.

Stands of ponderosa pine (*Pinus ponderosa*) make up the upper one-third of the plateau, ranging from an elevation of approximately 2121 to 2438 m (6960 to 8000 ft). At lower elevations these trees are found on the north-facing canyon walls, along streams, and within mixed conifer forests in the upper reaches of the canyons. The dominant grass species include mountain muhly (*Muhlenbergia montana*), pine dropseed (*Blephaneuron tricholepis*), and little bluestem.

At various elevations atop the Pajarito Plateau are grasslands created by turn-of-the-century agriculture and other human-caused disturbance. Other grasslands were created by the La Mesa fire of 1977 in LANL's Technical Area 49.

On the plateau, Frijoles, Los Alamos, and Guaje Canyons have natural perennial water flow. There is some baseflow in streams in Pajarito and Ancho Canyons as a result of springs.

Springs in the upper and lower part of Pajarito Canyon provide perennial flow in most parts of the canyon throughout the year. Springs and seeps that emerge from the walls of Ancho and Chaquehui Canyons in White Rock Canyon feed short stretches of perennial streams. Generally, most canyon streams flow only during spring snow melt and heavy rainstorms.

2.2 Floodplains and Wetlands

The Environmental Protection Agency required an identification of all wetlands in the watershed of lands owned by the Department of Energy for the Resource Conservation and Recovery Act and Hazardous and Solid Waste Act Part B Permit. Consequently, the US Fish and Wildlife Service (USFWS) undertook a project in 1990 to map and characterize those wetlands in accordance with the National Wetlands Inventory (NWI). More recently, ESH-20 has mapped additional wetlands areas—both human-created and natural.

The NWI includes all wetlands and deep-water habitats throughout the US, including rivers, lakes, streams, marshes, bogs, and ponds. In cooperation with other federal and state agencies, private organizations, and individuals, the USFWS developed a wetland definition for conducting an inventory of the Nation's wetlands. This definition was published in the "Classification of Wetlands and Deep-Water Habitats of the United States" (Cowardin et al. 1979). In the NWI, wetlands are defined as "lands transitional between aquatic and terrestrial systems where the water table is usually at or near the surface, or the land is covered by shallow water." In addition, the definition requires that the land support predominantly hydrophytes, and the substrate is drained hydric soils (Dunke et al. 1989).

2.3 Plants

2.3.1 Vascular Plants

Several surveys have been conducted since 1974 at LANL. Foxx and Tierney (1980) conducted comprehensive plant surveys of LANL in 1978. The results, published as "Status of the Flora of the Los Alamos National Environmental Research Park, Vol. I," recorded locations and habitats. Surveys were done on Material Disposal Area E as part of a greater study to determine the floristic composition of old waste sites (Tierney and Foxx 1982). "Status of the Flora of the Los Alamos National Environmental Research Park, Vol. II," (Foxx and Tierney 1984) reports field work done in 1979. These data and

data from current surveys are incorporated into an updated checklist by Foxx et al. (1996), and the development of a land cover map for this area is underway (Koch et al. 1996).

Guthrie (1981) and Moeur and Guthrie (1981) surveyed Frijoles Mesa after the La Mesa fire to determine habitat types for wildlife studies. Potter and Foxx (1979) studied revegetation after the La Mesa fire as part of a recovery and mortality investigation of ponderosa pine.

The listing of plants included in this report has two columns for scientific names. The first column is the names used by Martin and Hutchins (1980) while the second column represents the more current names (some of which have changed from 1980) found in the US Department of Agriculture's listing. A more comprehensive list of plant species occurrence can be found in "Annotated Checklist and Database for Vascular Plants of the Jemez Mountains," Foxx et al. (1997).

2.3.2 Non-Vascular Plants

Jarmie and Rogers (1996, 1997) undertook a survey for macromycetes at LANL, Bandelier National Monument, and Los Alamos County from 1991 to 1995 and cataloged 1048 specimens representing 175 species.

2.4 Wildlife

A limited number of studies since 1986 characterize the fauna of the area and are discussed below. Foxx et al. (1995) established ecological baseline data in a two-year project (1993 and 1994) for two canyon systems, Los Alamos and Guaje Canyons, to begin to understand what effect, if any, LANL activities have on the local ecology.

2.4.1 Insects

MacKay et al. (1986) collected ants during the summer of 1986 in Los Alamos County and Bandelier National Monument. Since the summer of 1991, the BT of ESH-20 has used pit traps to collect terrestrial insects in lower Ancho Canyon and other areas in and around LANL.

2.4.2 *Aquatic Macroinvertebrates*

Extensive field surveys have been conducted for macroinvertebrates throughout LANL and the surrounding areas. Cross (1995) reported on water quality and surveyed for aquatic macroinvertebrates in Sandia Canyon in 1994 and again in 1995 (Cross and Nottleman 1996).

2.4.3 *Reptiles and Amphibians*

In 1978, Charles Bogart, consultant to the Laboratory, surveyed reptiles and amphibians within Laboratory boundaries (Bogart 1978). Bogart collected specimens of collared lizard (*Crotophytus collaris*), eastern fence lizard (*Sceloporus undulatus*), and checkered whiptail (*Cnemidophorus* spp.) in the eastern portions of the Laboratory. Bowker and Ferenbaugh (1982) collected checkered whiptails, collared lizards, and tree lizards (*Urosaurus ornatus*).

Studies have been conducted by the BT for the past five years in Pajarito and Sandia Canyons.

2.4.4 *Birds*

The Pajarito Ornithological Society conducted a five-year study on the breeding birds of Los Alamos County (Travis 1992).

In 1977, the La Mesa fire decimated portions of LANL and Bandelier. Moeur and Guthrie (1981) studied how wildfire and the clearing of fire-killed trees affect birds. Wauer and Johnson (1981) published the results of a bird study that was begun before the La Mesa fire and then continued after the fire to assess the fire's effects on bird populations.

In addition to resident and breeding birds, the Pajarito Plateau is along the flight path and wintering areas for a number of species.

2.4.5 *Fish*

No definitive fish surveys have been conducted in and around LANL because there are no permanent water sources or perennial streams other than Rito de los Frijoles

in Frijoles Canyon, the Los Alamos Reservoir in Los Alamos Canyon, and the Guaje Reservoir in Guaje Canyon.

2.4.6 Mammals

Guthrie (1975) conducted a small mammal study in Alamo Canyon and in Frijoles Canyon in Bandelier National Monument. The purpose of the study was to determine the potential impact of the maximum floodpool level of Cochiti Reservoir on the fauna of the lower canyons. The capture-release studies were conducted in three habitats: river floodplain, riparian woodland, and juniper woodland below 1680 m (5512 ft). Guthrie did not census the medium or large mammals but recorded observations on nine species.

From 1975 through 1980, Guthrie and Large (1980) mist-netted bats at various elevations (i.e., 1910 m [6300 ft] in Capulin Canyon and at 1650 m [5143 ft] along the Rio Grande) at ponds, along streams, the Rio Grande, and sewage lagoons. They identified six foraging species of bats. 3-D Environmental Services mist-netted in the summer of 1992. The Midcontinent Ecological Science Center (MESC) has mist-netted bats since 1995. Over 1500 bats representing 15 species, including a couple of specimens of the state listed species, spotted bat (*Euderma maculata*), have been captured over this three-year timeframe.

Guthrie and Large (1980) published a distribution and status list of mammals in Bandelier National Monument.

A mammal study begun in 1977 before the La Mesa fire and continued after the fire assesses how wildfire and the clearing of fire-killed trees affects small mammals (Guthrie 1981, Mouer and Guthrie 1981). Guthrie reported increases in deer mouse (*Peromyscus maniculatus*), montane vole (*Microtus montanus*), long-tailed vole (*M. longicaudus*), least chipmunk (*Eutamias minimus*), and Colorado chipmunk (*E. quadrivittatus*). Moeur and Guthrie (1981) found no significant differences in small mammal populations between LANL and Bandelier sites.

More recent studies include a biological information document (Biggs 1995), which summarizes more recent biological studies, and reports about radionuclide

contaminants in relation to small mammals (Biggs et al. 1996) and medium-sized mammals (Hansen et al. 1997) at LANL.

2.5 Threatened, Endangered, and Sensitive Species

2.5.1 Plants

Foxx and Tierney (1980, 1984) surveyed for sensitive plant species.

Lochner, Inc., surveyed portions of White Rock Canyon for the Los Alamos Transportation Corridor in cooperation with the New Mexico State Highway and Transportation Department. These studies were primarily confined to the east side of the Rio Grande. They found no sensitive plant species.

2.5.2 Wildlife

Several threatened and endangered species studies have been conducted in and around LANL boundaries.

Guthrie and Large (1980) included bat distribution and status in their study. They did not net any spotted bats in Bandelier. This species had been collected only in the Jemez Mountains until 1997 when MESC identified roosting locations on Laboratory lands.

Eagle Ecological Services and Johnson (1988) assessed portions of the Pajarito Plateau for bald eagle (*Haliaeetus leucocephalus*) and peregrine falcon (*Falco peregrinus*) habitat. Other studies (Keller et al. 1996) have been conducted for Mexican spotted owl (*Strix occidentalis lucida*) and southwestern willow flycatcher (*Empidonax trailii extimus*) as well as other species of concern listed by the state of New Mexico.

3.0 Data Presentation

What follows are the tables that have been compiled from earlier published and unpublished reports, surveys, and databases that pertained to the biota of this area or to areas that are similar. The plant species are all included in one table while the various animal species are divided by type.

Table 1. Plants at LANL and Surrounding Areas

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Aceraceae	ACGLN2	<i>Acer glabrum</i> var. <i>neomexicanum</i>	<i>Acer glabrum</i> var. <i>neomexicanum</i>	New Mexico maple
Aceraceae	ACNEI2	<i>Acer negundo</i> var. <i>interius</i>	<i>Acer negundo</i> var. <i>interius</i>	boxelder maple
Agavaceae	YUBA	<i>Yucca baccata</i>	<i>Yucca baccata</i>	banana yucca
Agavaceae	YUGL	<i>Yucca glauca</i>	<i>Yucca glauca</i>	narrowleaf yucca
Amaranthaceae	AMRE	<i>Amaranthus retroflexus</i>	<i>Amaranthus retroflexus</i>	green amaranth, pigweed
Anacardiaceae	TORAR	<i>Rhus radicans</i>	<i>Toxicodendron radicans</i> spp. <i>radicans</i>	poison ivy
Anacardiaceae	RHTR	<i>Rhus trilobata</i>	<i>Rhus trilobata</i>	skunkbush
Apiaceae	CYBU	<i>Cymopterus bulbosus</i>	<i>Cymopterus bulbosus</i>	wafer parsnip
Apiaceae	HEMA80	<i>Heracleum lanatum</i>	<i>Heracleum maximum</i>	cow parsnip
Apiaceae	LIPO	<i>Ligusticum porteri</i>	<i>Ligusticum porteri</i>	lovage
Apiaceae	OSDE	<i>Osmorhiza obtusa</i>	<i>Osmorhiza depauperata</i>	bluntseed sweet cicely
Apiaceae	PSMO	<i>Pseudocymopterus montanus</i>	<i>Pseudocymopterus montanus</i>	mountain parsley
Apocynaceae	APANA	<i>Apocynum androsaemifolium</i> spp. <i>androsaemifolium</i>	<i>Apocynum androsaemifolium</i> spp. <i>androsaemifolium</i>	spreading dogbane
Araliaceae	ARRA	<i>Aralia racemosa</i>	<i>Aralia racemosa</i>	American spicknard
Asclepiadaceae	ASASA	<i>Asclepias asperula</i> spp. <i>asperula</i>	<i>Asclepias asperula</i> spp. <i>asperula</i>	antelope horns, immortal
Asclepiadaceae	ASSP	<i>Asclepias speciosa</i>	<i>Asclepias speciosa</i>	showy milkweed
Asclepiadaceae	ASSU2	<i>Asclepias subverticillata</i>	<i>Asclepias subverticillata</i>	poison milkweed
Asclepiadaceae	ASTUI	<i>Asclepias tuberosa</i> spp. <i>terminalis</i>	<i>Asclepias tuberosa</i> spp. <i>interior</i>	butterflyweed
Aspleniaceae	ASTR2	<i>Asplenium trichomanes</i>	<i>Asplenium trichomanes</i>	maidenhair spleenwort

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Asteraceae	ACMIO	<i>Achillea millefolium</i> var. <i>occidentalis</i>	<i>Achillea millefolium</i> var. <i>occidentalis</i>	yarrow
Asteraceae	AMAR2	<i>Ambrosia artemisiifolia</i>	<i>Ambrosia artemisiifolia</i>	common ragweed
Asteraceae	AMPS	<i>Ambrosia psilostachya</i>	<i>Ambrosia psilostachya</i>	ragweed
Asteraceae	ANMA	<i>Anaphalis margaritacea</i>	<i>Anaphalis margaritacea</i>	pearly everlasting
Asteraceae	ANMA5	<i>Antennaria marginata</i>	<i>Antennaria marginata</i>	pussytoes
Asteraceae	ANPA4	<i>Antennaria parvifolia</i>	<i>Antennaria parvifolia</i>	pussytoes
Asteraceae	ARBI3	<i>Artemisia bigelovii</i>	<i>Artemisia bigelovii</i>	Bigelow sagebrush
Asteraceae	ARCA14	<i>Artemisia carruthii</i> var. <i>wrightii</i>	<i>Artemisia carruthii</i>	Carruth wormwood
Asteraceae	ARDR4	<i>Artemisia dracunculus</i>	<i>Artemisia dracunculus</i>	false tarragon
Asteraceae	ARFI2	<i>Artemisia filifolia</i>	<i>Artemisia filifolia</i>	sand sagebrush
Asteraceae	ARFR4	<i>Artemisia frigida</i>	<i>Artemisia frigida</i>	estafiata
Asteraceae	ARLUA	<i>Artemisia ludoviciana</i>	<i>Artemisia ludoviciana</i>	wormwood
Asteraceae	ARTR2	<i>Artemisia tridentata</i>	<i>Artemisia tridentata</i>	big sagebrush
Asteraceae	ASLAH2	<i>Aster hesperius</i>	<i>Aster lanceolatus</i> spp. <i>hesperius</i>	marsh aster
Asteraceae	ASLA5	<i>Aster laevis</i>	<i>Aster laevis</i>	smooth aster
Asteraceae	ASNO	<i>Aster novae-angliae</i>	<i>Aster novae-angliae</i>	New England aster
Asteraceae	BADI	<i>Bahia dissecta</i>	<i>Bahia dissecta</i>	field chrysanthemum
Asteraceae	BRCA3	<i>Brickellia californica</i>	<i>Brickellia californica</i>	California brickelbush
Asteraceae	BRGR	<i>Brickellia grandiflora</i>	<i>Brickellia grandiflora</i>	tasseflower
Asteraceae	HEVIV	<i>Chrysopsis villosa</i>	<i>Heterotheca villosa</i> var. <i>villosa</i>	leafy golden aster
Asteraceae	ERNAB2	<i>Chrysothamnus nauseosus</i>	<i>Ericameria nauseosa</i>	rabbitbrush
Asteraceae	CHVIV4	<i>Chrysothamnus viscidiflorus</i>	<i>Chrysothamnus viscidiflorus</i>	rabbitbrush

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Asteraceae	CINE	<i>Cirsium neomexicanum</i>	<i>Cirsium neomexicanum</i>	New Mexico thistle
Asteraceae	CIPA5	<i>Cirsium pallidum</i>	<i>Cirsium pallidum</i>	pale thistle
Asteraceae	COCA5	<i>Conyza canadensis</i>	<i>Conyza canadensis</i>	horseweed
Asteraceae	COPA12	<i>Cosmos parviflorus</i>	<i>Cosmos parviflorus</i>	cosmos
Asteraceae	ERDI4	<i>Erigeron divergens</i>	<i>Erigeron divergens</i>	fleabane daisy
Asteraceae	ERFL	<i>Erigeron flagellaris</i>	<i>Erigeron flagellaris</i>	spreading fleabane
Asteraceae	ERFL	<i>Erigeron nudiflorus</i>	<i>Erigeron flagellaris</i>	spreading fleabane
Asteraceae	ERPH	<i>Erigeron philadelphicus</i>	<i>Erigeron philadelphicus</i>	common fleabane
Asteraceae	ERSU2	<i>Erigeron subtrinervis</i>	<i>Erigeron subtrinervis</i>	three-nerve fleabane
Asteraceae	AMAC2	<i>Franseria acanthicarpa</i>	<i>Ambrosia acanthicarpa</i>	bursage
Asteraceae	AMCO3	<i>Franseria confertiflora</i>	<i>Ambrosia confertiflora</i>	bursage
Asteraceae	GAPU	<i>Gaillardia pulchella</i>		firewheel, blanketflower
Asteraceae	GRNUA	<i>Grindelia aphanactis</i>	<i>Grindelia nuda</i> var. <i>aphanactis</i>	gumweed
Asteraceae	GUSA2	<i>Gutierrezia sarothrae</i>	<i>Gutierrezia sarothrae</i>	snakeweed
Asteraceae	MAGR10	<i>Haplopappus gracilis</i>	<i>Machaeranthera gracilis</i>	goldenweed
Asteraceae	HASP	<i>Haplopappus spinulosus</i>		spiny goldenweed
Asteraceae	HEAN3	<i>Helianthus annuus</i>	<i>Helianthus annuus</i>	common sunflower
Asteraceae	HEPE	<i>Helianthus petiolaris</i>	<i>Helianthus petiolaris</i>	prairie sunflower
Asteraceae	HYFI	<i>Hymenopappus filifolius</i>	<i>Hymenopappus filifolius</i>	white ragweed, yellow cutleaf
Asteraceae	TEACN	<i>Hymenoxys argentea</i>	<i>Tetranneuris acaulis</i> var. <i>nana</i>	perky sue
Asteraceae	HYRIF	<i>Hymenoxys richardsonii</i> var. <i>floribunda</i>	<i>Hymenoxys richardsonii</i> var. <i>floribunda</i>	bitterweed, pinque
Asteraceae	IVXA	<i>Iva xanthifolia</i>	<i>Iva xanthifolia</i>	marsh elder

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Asteraceae	BREUC2	<i>Kuhnia chlorolepis</i>	<i>Brickellia eupatorioides</i> var. <i>chlorolepis</i>	false boneset
Asteraceae	LASE	<i>Lactuca serriola</i>	<i>Lactuca serriola</i>	prickly lettuce
Asteraceae	CHER2	<i>Leucelene ericoides</i>	<i>Chaetopappa ericoides</i>	sand aster
Asteraceae	LIPU	<i>Liatris punctata</i>	<i>Liatris punctata</i>	dotted gayfeather
Asteraceae	MABI	<i>Machaeranthera bigelovii</i>	<i>Machaeranthera bigelovii</i>	Bigelow aster
Asteraceae	PEAN	<i>Pectis angustifolia</i>	<i>Pectis angustifolia</i>	fetid marigold
Asteraceae	PECA10	<i>Pericome caudata</i>	<i>Pericome caudata</i>	taperleaf
Asteraceae	RACO3	<i>Ratibida columnifera</i>	<i>Ratibida columnifera</i>	prairie coneflower
Asteraceae	RUHI2	<i>Rudbeckia hirta</i>	<i>Rudbeckia hirta</i>	black-eyed susan
Asteraceae	RULA3	<i>Rudbeckia laciniata</i>	<i>Rudbeckia laciniata</i>	cutleaf coneflower
Asteraceae	SECY	<i>Senecio cymbalarioides</i>	<i>Senecio cymbalarioides</i>	groundsel
Asteraceae	SEERM	<i>Senecio eremophilus</i> var. <i>macdougalii</i>	<i>Senecio eremophilus</i> var. <i>macdougalii</i>	groundsel
Asteraceae	SEFE	<i>Senecio fendleri</i>	<i>Senecio fendleri</i>	Fendler's groundsel
Asteraceae	SESPM	<i>Senecio multicapitatus</i>	<i>Senecio spartioides</i> var. <i>multicapitatus</i>	groundsel, butterweed
Asteraceae	SEMU3	<i>Senecio multilobatus</i>	<i>Senecio multilobatus</i>	groundsel, butterweed
Asteraceae	SOCAC3	<i>Solidago canadensis</i> var. <i>canadensis</i>	<i>Solidago canadensis</i> var. <i>canadensis</i>	Canadian goldenrod
Asteraceae	SOMU	<i>Solidago multiradiata</i>	<i>Solidago multiradiata</i>	alpine goldenrod
Asteraceae	SOVE6	<i>Solidago sparsiflora</i>	<i>Solidago velutina</i>	few-flowered goldenrod
Asteraceae	SOAS	<i>Sonchus asper</i>	<i>Sonchus asper</i>	spiny-leaved sow-thistle
Asteraceae	STPA4	<i>Stephanomeria pauciflora</i>	<i>Stephanomeria pauciflora</i>	skeletonweed
Asteraceae	TAOF	<i>Taraxacum officinale</i>	<i>Taraxacum officinale</i>	dandelion
Asteraceae	TECA2	<i>Tetradymia canescens</i>	<i>Tetradymia canescens</i>	Horsebush

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Asteraceae	THME	<i>Thelesperma megapotamicum</i>	<i>Thelesperma megapotamicum</i>	Indian tea, Navajo tea
Asteraceae	THFIF	<i>Thelesperma trifidum</i>	<i>Thelesperma filifolium</i> var. <i>filifolium</i>	green thread
Asteraceae	TOIN	<i>Townsendia incana</i>	<i>Townsendia incana</i>	Townsend's aster
Asteraceae	TOEX2	<i>Townsendia exscapa</i>	<i>Townsendia exscapa</i>	Easter daisy
Asteraceae	TRDU	<i>Tragopogon dubius</i>	<i>Tragopogon dubius</i>	salisfy, goatsbeard
Asteraceae	VEENE3	<i>Verbesina encelioides</i> spp. <i>encelioides</i>	<i>Verbesina encelioides</i> spp. <i>encelioides</i>	crownbeard
Asteraceae	HEMUM	<i>Viguiera multiflora</i>	<i>Heliomeris multiflora</i> var. <i>multiflora</i>	goldeneye
Asteraceae	XASTC	<i>Xanthium strumarium</i> var. <i>canadense</i>	<i>Xanthium strumarium</i> var. <i>canadense</i>	cocklebur
Berberidaceae	BEFE	<i>Berberis fendleri</i>	<i>Berberis fendleri</i>	Fendler's barberry
Berberidaceae	MARE11	<i>Berberis repens</i>	<i>Mahonia repens</i>	creeping mahonia
Betulaceae	ALINT	<i>Alnus tenuifolia</i>	<i>Alnus incana</i> spp. <i>tenuifolia</i>	thinleaf alder
Betulaceae	BEOC2	<i>Betula occidentalis</i>	<i>Betula occidentalis</i>	water birch
Boraginaceae	CRFE3	<i>Cryptantha fendleri</i>	<i>Cryptantha fendleri</i>	Fendler hiddenflower
Boraginaceae	CRCIJ	<i>Cryptantha jamesii</i>	<i>Cryptantha cinerea</i> var. <i>jamesii</i>	James hiddenflower
Boraginaceae	LAOCO	<i>Lappula redowskii</i>	<i>Lappula occidentalis</i> var. <i>occidentalis</i>	stickseed
Boraginaceae	LAOCC	<i>Lappula texana</i>	<i>Lappula occidentalis</i> var. <i>cupulata</i>	stickseed
Boraginaceae	LIIN2	<i>Lithospermum incisum</i>	<i>Lithospermum incisum</i>	fringed puccoon
Boraginaceae	LIMU3	<i>Lithospermum multiflorum</i>	<i>Lithospermum multiflorum</i>	puccoon, many-flowered stoneseed
Boraginaceae	MELAN4	<i>Mertensia lanceolata</i> var. <i>fendleri</i>	<i>Mertensia lanceolata</i> var. <i>navalis</i>	bluebells
Boraginaceae	MELAL2	<i>Mertensia lanceolata</i> var. <i>lanceolata</i>	<i>Mertensia lanceolata</i> var. <i>lanceolata</i>	bluebells

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Brassicaceae	DEINV	<i>Descurainia richardsonii</i> spp. <i>viscosa</i>	<i>Descurainia incana</i> spp. <i>viscosa</i>	tansy mustard
Brassicaceae	DIWI2	<i>Dithyrea wislizeni</i>	<i>Dimorphocarpa wislizeni</i>	spectacle pod
Brassicaceae	ERCA14	<i>Erysimum capitatum</i>	<i>Erysimum capitatum</i>	western wallflower
Brassicaceae	LEVIM	<i>Lepidium medium</i>	<i>Lepidium virginicum</i> var. <i>medium</i>	peppergrass
Brassicaceae	LEVIP	<i>Lepidium medium</i> var. <i>pubescens</i>	<i>Lepidium virginicum</i> var. <i>pubescens</i>	peppergrass
Brassicaceae	RONA2	<i>Rorippa nasturtium-aquaticum</i>	<i>Rorippa nasturtium-aquaticum</i>	watercress
Brassicaceae	THWR	<i>Thelypodium wrightii</i>	<i>Thelypodium wrightii</i>	Wright's thelypody
Brassicaceae	THMOM	<i>Thlaspi alpestre</i>	<i>Thlaspi montanum</i> var. <i>montanum</i>	mountain candytuft
Cactaceae	ESVIV	<i>Coryphantha vivipara</i>	<i>Escobaria vivipara</i> var. <i>vivipara</i>	pincushion cactus
Cactaceae	ECFE	<i>Echinocereus fendleri</i>	<i>Echinocereus fendleri</i>	Fendler hedgehog
Cactaceae	ECTRT	<i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i>	<i>Echinocereus triglochidiatus</i> var. <i>triglochidiatus</i>	hedgehog cactus
Cactaceae	ECVIV	<i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>	<i>Echinocereus viridiflorus</i> var. <i>viridiflorus</i>	strawberry cactus
Cactaceae	OPIM	<i>Opuntia imbricata</i>	<i>Opuntia imbricata</i>	walkingstick cactus
Cactaceae	OPPHP	<i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>	<i>Opuntia phaeacantha</i> var. <i>phaeacantha</i>	prickly pear cactus
Cactaceae	OPPOP	<i>Opuntia polyacantha</i> var. <i>polyacantha</i>	<i>Opuntia polyacantha</i> var. <i>polyacantha</i>	prickly pear cactus
Campanulaceae	CARO2	<i>Campanula rotundifolia</i>	<i>Campanula rotundifolia</i>	harebell
Campanulaceae	LOCAG2	<i>Lobelia cardinalis</i> spp. <i>graminea</i>	<i>Lobelia cardinalis</i> spp. <i>graminea</i>	cardinal lobelia

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Cannabaceae	HULUL	<i>Humulus lupulus</i> spp. <i>americanus</i>	<i>Humulus lupulus</i> var. <i>lupuloides</i>	hop
Capparaceae	CLSE	<i>Cleome serrulata</i>	<i>Cleome serrulata</i>	Rocky moutain beeplant
Capparaceae	PODOT	<i>Polanisia trachysperma</i>	<i>Polanisia dodecandra</i> spp. <i>trachysperma</i>	clammyweed
Caprifoliaceae	SARAR3	<i>Sambucus microbotrys</i>	<i>Sambucus racemosa</i> var. <i>racemosa</i>	elderberry
Caprifoliaceae	SYM	<i>Symphoricarpos</i> spp.	<i>Symphoricarpos</i> spp.	snowberry
Caryophyllaceae	ARFEF3	<i>Arenaria fendleri</i> var. <i>fendleri</i>	<i>Arenaria fendleri</i> var. <i>fendleri</i>	Fendler sandwort
Caryophyllaceae	CEAR4	<i>Cerastium arvense</i>	<i>Cerastium arvense</i>	chickweed
Caryophyllaceae	PSJA2	<i>Stellaria jamesiana</i>	<i>Pseudostellaria jamesiana</i>	Jame's starwort
Celastraceae	PAMY	<i>Paxistima myrsinites</i>	<i>Paxistima myrsinites</i>	myrtle boxleaf
Chenopodiaceae	ATCA2	<i>Atriplex canescens</i>	<i>Atriplex canescens</i>	fourwing saltbush
Chenopodiaceae	CHAL7	<i>Chenopodium album</i>	<i>Chenopodium album</i>	lamb's quarters
Chenopodiaceae	CHSI2	<i>Chenopodium gigantospermum</i>	<i>Chenopodium simplex</i>	goosefoot
Chenopodiaceae	CHGR2	<i>Chenopodium graveolens</i> var. <i>neomexicanum</i>	<i>Chenopodium graveolens</i>	fetid goosefoot
Chenopodiaceae	CHLE4	<i>Chenopodium leptophyllum</i>	<i>Chenopodium leptophyllum</i>	goosefoot
Chenopodiaceae	KOSC	<i>Kochia scoparia</i>	<i>Kochia scoparia</i>	summer cypress
Convolvulaceae	COAR4	<i>Convolvulus arvensis</i>	<i>Convolvulus arvensis</i>	bindweed
Convolvulaceae	IPCO3	<i>Ipomoea coccinea</i>	<i>Ipomoea coccinea</i>	star glory
Cornaceae	COSES	<i>Cornus stolonifera</i>	<i>Cornus sericea</i> spp. <i>sericea</i>	red-osier dogwood
Cupressaceae	JUCO6	<i>Juniperus communis</i>	<i>Juniperus communis</i>	dwarf juniper
Cupressaceae	JUMO	<i>Juniperus monosperma</i>	<i>Juniperus monosperma</i>	one-seed juniper
Cupressaceae	JUSC2	<i>Juniperus scopulorum</i>	<i>Juniperus scopulorum</i>	Rocky mountain juniper
Cyperaceae	CANE2	<i>Carex nebrascensis</i>	<i>Carex nebrascensis</i>	Nebraska sedge
Cyperaceae	ELPA3	<i>Eleocharis macrostachya</i>	<i>Eleocharis palustris</i>	pail spikerush

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Cyperaceae	SCCA11	<i>Scirpus californicus</i>	<i>Schoenoplectus californicus</i>	rush
Dryopteridaceae	CYFR2	<i>Cystopteris fragilis</i>	<i>Cystopteris fragilis</i>	fragile fern
Elaeagnaceae	ELAN	<i>Elaeagnus angustifolia</i>	<i>Elaeagnus angustifolia</i>	Russian olive
Equisetaceae	EQHY	<i>Equisetum hyemale</i>	<i>Equisetum hyemale</i>	horsetail
Equisetaceae	EQLA	<i>Equisetum laevigatum</i>	<i>Equisetum laevigatum</i>	smooth horsetail
Ericaceae	ARUV	<i>Arctostaphylos uva-ursi</i>	<i>Arctostaphylos uva-ursi</i>	bearberry, kinnikinnik
Euphorbiaceae	CRTE4	<i>Croton texensis</i>	<i>Croton texensis</i>	doveweed
Euphorbiaceae	EUDE4	<i>Euphorbia dentata</i>	<i>Euphorbia dentata</i>	wild poinsetta
Euphorbiaceae	CHSES	<i>Euphorbia serpyllifolia</i>	<i>Chamaesyce serpyllifolia</i> spp. <i>serpyllifolia</i>	thymeleaf spurge
Fabaceae	ASMIM5	<i>Astragalus missouriensis</i> var. <i>missouriensis</i>	<i>Astragalus missouriensis</i> var. <i>missouriensis</i>	milkvetch
Fabaceae	GLLE3	<i>Glycyrrhiza lepidota</i>	<i>Glycyrrhiza lepidota</i>	licorice
Fabaceae	LALAL3	<i>Lathyrus arizonicus</i>	<i>Lathyrus lanszwertii</i> var. <i>leucanthus</i>	peavine
Fabaceae	LOWR	<i>Lotus wrightii</i>	<i>Lotus wrightii</i>	deervetch
Fabaceae	LUCAA	<i>Lupinus caudatus</i> spp. <i>argophyllus</i>	<i>Lupinus caudatus</i> spp. <i>argophyllus</i>	lupine
Fabaceae	LUKI	<i>Lupinus kingii</i>	<i>Lupinus kingii</i>	King's lupine
Fabaceae	MELU	<i>Medicago lupulina</i>	<i>Medicago lupulina</i>	black medic
Fabaceae	MESA	<i>Medicago sativa</i>	<i>Medicago sativa</i>	alfalfa
Fabaceae	MEOF	<i>Melilotus albus</i>	<i>Melilotus officinalis</i>	yellow sweet clover
Fabaceae	MEOF	<i>Melilotus officinalis</i>	<i>Melilotus officinalis</i>	white sweet clover
Fabaceae	DACAC	<i>Petalostemon candidus</i>	<i>Dalea candida</i> var. <i>candida</i>	white prairie clover
Fabaceae	DAPUP	<i>Petalostemon purpureus</i>	<i>Dalea purpurea</i> var. <i>purpurea</i>	purple prairie clover
Fabaceae	RONE	<i>Robinia neomexicana</i>	<i>Robinia neomexicana</i>	New mexico locust

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Fabaceae	THDI4	<i>Thermopsis pinetorum</i>	<i>Thermopsis divaricarpa</i>	big golden-pea
Fabaceae	TRCA5	<i>Trifolium procumbens</i>	<i>Trifolium campestre</i>	clover
Fabaceae	TRRE3	<i>Trifolium repens</i>	<i>Trifolium repens</i>	white clover
Fabaceae	VIAMA3	<i>Vicia americana</i> spp. <i>americana</i>	<i>Vicia americana</i> spp. <i>americana</i>	American vetch
Fagaceae	QUGA	<i>Quercus gambelii</i>	<i>Quercus gambelii</i>	Gambel oak
Fagaceae	QUGR3	<i>Quercus grisea</i>	<i>Quercus grisea</i>	gray oak
Fagaceae	QUTU2	<i>Quercus turbinella</i>	<i>Quercus turbinella</i>	shrub live oak
Fagaceae	QUPA4	<i>Quercus undulata</i>	<i>Quercus X pauciloba</i>	wavyleaf oak
Fumariaceae	COAU2	<i>Corydalis aurea</i>	<i>Corydalis aurea</i>	golden smoke
Gentianaceae	GEAF	<i>Gentiana bigelovii</i>	<i>Gentiana affinis</i>	gentian
Geraniaceae	ERCI6	<i>Erodium cicutarium</i>	<i>Erodium cicutarium</i>	cranesbill
Geraniaceae	GECA3	<i>Geranium caespitosum</i>	<i>Geranium caespitosum</i>	James geranium
Geraniaceae	GERI	<i>Geranium richardsonii</i>	<i>Geranium richardsonii</i>	Richardson's geranium
Grossulariaceae	RICE	<i>Ribes cereum</i>	<i>Ribes cereum</i>	wild currant
Grossulariaceae	RICEP	<i>Ribes inebrians</i>	<i>Ribes cereum</i> var. <i>pedicellare</i>	gooseberry
Grossulariaceae	RIIN2	<i>Ribes inerme</i>	<i>Ribes inerme</i>	gooseberry
Grossulariaceae	RILE	<i>Ribes leptanthum</i>	<i>Ribes leptanthum</i>	gooseberry
Hydrangeaceae	FERUR	<i>Fendlera rupicola</i> var. <i>rupicola</i>	<i>Fendlera rupicola</i> var. <i>rupicola</i>	Fendler bush
Hydrangeaceae	JAAM	<i>Jamesia americana</i>	<i>Jamesia americana</i>	cliffbush
Hydrangeaceae	PHMIM	<i>Philadelphus microphyllus</i> var. <i>microphyllus</i>	<i>Philadelphus microphyllus</i> var. <i>microphyllus</i>	mockorange
Hydrophyllaceae	PHCO	<i>Phacelia</i> spp.	<i>Phacelia</i> spp.	scorpiontail
Juncaceae	JUIN2	<i>Juncus interior</i>	<i>Juncus interior</i>	interior rush
Lamiaceae	MAVU	<i>Marrubium vulgare</i>	<i>Marrubium vulgare</i>	horehound
Lamiaceae	MEAR4	<i>Mentha arvensis</i>	<i>Mentha arvensis</i>	mint
Lamiaceae	MOFIM2	<i>Monarda menthifolia</i>	<i>Monarda fistulosa</i> spp. <i>fistulosa</i> var. <i>menthifolia</i>	horsemint, beebalm
Lamiaceae	MOPE	<i>Monarda pectinata</i>	<i>Monarda pectinata</i>	ponymint

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Lamiaceae	PRVU	<i>Prunella vulgaris</i>	<i>Prunella vulgaris</i>	selfheal
Lamiaceae	SARE3	<i>Salvia reflexa</i>	<i>Salvia reflexa</i>	salvia
Lemnaceae	LEMI3	<i>Lemna minor</i>	<i>Lemna minor</i>	duckweed
Liliaceae	ALCEO	<i>Allium cernuum</i> var. <i>obtusum</i>	<i>Allium cernuum</i> var. <i>obtusum</i>	nodding onion
Liliaceae	ALTE	<i>Allium textile</i>	<i>Allium textile</i> .	wild onion
Liliaceae	CANU3	<i>Calochortus nuttallii</i>	<i>Calochortus nuttallii</i>	sego lily
Linaceae	LILE3	<i>Linum lewisii</i>	<i>Linum lewisii</i>	Western blue flax
Linaceae	LINE	<i>Linum neomexicanum</i>	<i>Linum neomexicanum</i>	New Mexico yellow flax
Loasaceae	MEAL6	<i>Mentzelia albicaulis</i>	<i>Mentzelia albicaulis</i>	white-stemmed blazing star
Loasaceae	MEPUP	<i>Mentzelia pumila</i>	<i>Mentzelia pumila</i>	stickleaf
Malvaceae	SPCOE	<i>Sphaeralcea coccinea</i> var. <i>elata</i>	<i>Sphaeralcea coccinea</i> spp. <i>elata</i>	red globe mallow
Monotropaceae	MOHY3	<i>Monotropa latisquama</i>	<i>Monotropa hypopithys</i>	pinemap
Monotropaceae	PTAN2	<i>Pterospora andromedea</i>	<i>Pterospora andromedea</i>	pinedrops
Nyctaginaceae	MIMU	<i>Mirabilis multiflora</i>	<i>Mirabilis multiflora</i>	showy four o'clock
Nyctaginaceae	MILI3	<i>Oxybaphus linearis</i>	<i>Mirabilis linearis</i>	four o'clock
Oleaceae	FOPUP	<i>Forestiera neomexicana</i>	<i>Forestiera pubescens</i> var. <i>pubescens</i>	New Mexico olive
Onagraceae	EPAN2	<i>Epilobium angustifolium</i> .	<i>Epilobium angustifolium</i>	fireweed
Onagraceae	EPCI	<i>Epilobium ciliatum</i>	<i>Epilobium ciliatum</i>	willowweed
Onagraceae	GACO5	<i>Gaura coccinea</i>	<i>Gaura coccinea</i>	guara
Onagraceae	OECE2	<i>Oenothera cespitosa</i>	<i>Oenothera cespitosa</i>	white stemless evening primrose
Onagraceae	OECO2	<i>Oenothera coronopifolia</i>	<i>Oenothera coronopifolia</i>	evening primrose
Onagraceae	OELH2	<i>Oenothera hookeri</i>	<i>Oenothera elata</i> spp. <i>hookeri</i>	Hooker's evening primrose
Orchidaceae	CABU	<i>Calypso bulbosa</i>	<i>Calypso bulbosa</i>	fairy slipper
Orchidaceae	COMA4	<i>Corallorrhiza maculata</i>	<i>Corallorrhiza maculata</i>	spotted coralroot

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Orchidaceae	COST	<i>Corallorrhiza striata</i>	<i>Corallorrhiza striata</i>	striped coralroot
Orchidaceae	EPGI	<i>Epipactis gigantea</i>	<i>Epipactis gigantea</i>	giant helleborine orchid
Orchidaceae	PLSPS	<i>Habenaria sparsiflora</i>	<i>Platanthera sparsiflora</i> var. <i>sparsiflora</i>	bog orchid
Orchidaceae	MAMA 13	<i>Malaxis soulei</i>	<i>Malaxis macrostachya</i>	orchid
Orobanchaceae	ORFA	<i>Orobanche fasciculata</i> var. <i>lutea</i>	<i>Orobanche fasciculata</i>	broomrape
Orobanchaceae	ORLUM	<i>Orobanche multiflora</i>	<i>Orobanche ludoviciana</i> spp. <i>multiflora</i>	broomrape
Pinaceae	ABCO	<i>Abies concolor</i>	<i>Abies concolor</i>	white fir
Pinaceae	PIPU	<i>Picea pungens</i>	<i>Picea pungens</i>	blue spruce
Pinaceae	PIED	<i>Pinus edulis</i>	<i>Pinus edulis</i>	pinon pine
Pinaceae	PIFL2	<i>Pinus flexilis</i>	<i>Pinus flexilis</i>	limber pine
Pinaceae	PIPOS	<i>Pinus ponderosa</i> var. <i>scopulorum</i>	<i>Pinus ponderosa</i> var. <i>scopulorum</i>	ponderosa pine
Pinaceae	PSMEG	<i>Pseudotsuga menziesii</i>	<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	Douglas fir
Plantaginaceae	PLMA2	<i>Plantago major</i>	<i>Plantago major</i>	rippleseed plantain
Plantaginaceae	PLPA2	<i>Plantago purshii</i>	<i>Plantago patagonica</i>	woolly Indian wheat
Poaceae	AGDE2	<i>Agropyron desertorum</i>	<i>Agropyron desertorum</i>	Russian wheatgrass
Poaceae	ELALL	<i>Agropyron latiglume</i>	<i>Elymus alaskanus</i> spp. <i>latiglumis</i>	wheatgrass
Poaceae	PASM	<i>Agropyron smithii</i>	<i>Pascopyrum smithii</i>	western wheatgrass
Poaceae	ELTRT	<i>Agropyron trachycaulum</i>	<i>Elymus trachycaulus</i> spp. <i>trachycaulus</i>	slender wheatgrass
Poaceae	AGGI2	<i>Agrostis alba</i>	<i>Agrostis gigantea</i>	red top
Poaceae	BOBAB	<i>Andropogon barbinodis</i>	<i>Bothriochloa barbinodis</i> var. <i>barbinodis</i>	slender wheatgrass

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Poaceae	ANGE	<i>Andropogon gerardii</i>	<i>Andropogon gerardii</i>	big bluestem
Poaceae	SCSCS2	<i>Andropogon scoparius</i>	<i>Schizachyrium scoparium</i> spp. <i>scoparium</i>	little bluestem
Poaceae	ARAD	<i>Aristida adscensionis</i>	<i>Aristida adscensionis</i>	six-weeks three-awn
Poaceae	ARDI5	<i>Aristida divaricata</i>	<i>Aristida divaricata</i>	poverty three-awn
Poaceae	ARPUL	<i>Aristida longiseta</i>	<i>Aristida purpurea</i> var. <i>longiseta</i>	red three-awn
Poaceae	BLTR	<i>Blepharoneuron tricholepis</i>	<i>Blepharoneuron tricholepis</i>	pine dropseed
Poaceae	BOCU	<i>Bouteloua curtipendula</i>	<i>Bouteloua curtipendula</i>	side-oats grama
Poaceae	BOER4	<i>Bouteloua eriopoda</i>	<i>Bouteloua eriopoda</i>	black grama
Poaceae	BOGR2	<i>Bouteloua gracilis</i>	<i>Bouteloua gracilis</i>	blue grama
Poaceae	BRAN	<i>Bromus anomalus</i>	<i>Bromus anomalus</i>	nodding brome
Poaceae	BRFR2	<i>Bromus frondosus</i>	<i>Bromus frondosus</i>	weeping brome
Poaceae	BRTE	<i>Bromus tectorum</i>	<i>Bromus tectorum</i>	cheatgrass, downy chess
Poaceae	BUDA	<i>Buchloe dactyloides</i>	<i>Buchloe dactyloides</i>	buffalo grass
Poaceae	DAGL	<i>Dactylis glomerata</i>	<i>Dactylis glomerata</i>	orchard grass
Poaceae	ECCR	<i>Echinochloa crus-galli</i>	<i>Echinochloa crus-galli</i>	barnyard grass
Poaceae	ELCA4	<i>Elymus canadensis</i>	<i>Elymus canadensis</i>	Canada wildrye
Poaceae	VUOCO	<i>Festuca octoflora</i>	<i>Vulpia octoflora</i> var. <i>octoflora</i>	six-weeks fescue
Poaceae	FEOV	<i>Festuca ovina</i>	<i>Festuca ovina</i>	sheep fescue
Poaceae	PLJA	<i>Hilaria jamesii</i>	<i>Pleuraphis jamesii</i>	galleta
Poaceae	HOJU	<i>Hordeum jubatum</i>	<i>Hordeum jubatum</i>	foxtail barley
Poaceae	LOPE	<i>Lolium perenne.</i>	<i>Lolium perenne</i>	perennial rye
Poaceae	LYPH	<i>Lycurus phleoides</i>	<i>Lycurus phleoides</i>	wolftail
Poaceae	MUMO	<i>Muhlenbergia montana</i>	<i>Muhlenbergia montana</i>	mountain muhly
Poaceae	MUTO2	<i>Muhlenbergia torreyi</i>	<i>Muhlenbergia torreyi</i>	ring muhly
Poaceae	MUWR	<i>Muhlenbergia wrightii</i>	<i>Muhlenbergia wrightii</i>	spike muhly

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Poaceae	ACHY	<i>Oryzopsis hymenoides</i>	<i>Achnatherum hymenoides</i>	Indian ricegrass
Poaceae	PIMI7	<i>Oryzopsis micrantha</i>	<i>Piptatherum micranthum</i>	littleseed ricegrass
Poaceae	PACA6	<i>Panicum capillare</i>	<i>Panicum capillare</i>	witchgrass
Poaceae	PHPR3	<i>Phleum pratense</i>	<i>Phleum pratense</i>	common timothy
Poaceae	POFE	<i>Poa fendleriana</i>	<i>Poa fendleriana</i>	muttongrass
Poaceae	POIN	<i>Poa interior</i>	<i>Poa interior</i>	inland bluegrass
Poaceae	POPR	<i>Poa pratensis</i>	<i>Poa pratensis</i>	common timothy
Poaceae	PEAM4	<i>Setaria lutescens</i>	<i>Pennisetum americanum</i>	bristlegrass
Poaceae	ELELE	<i>Sitanion hystrix</i>	<i>Elymus elymoides</i> spp. <i>elymoides</i>	bottlebrush squirreltail
Poaceae	SPCO4	<i>Sporobolus contractus</i>	<i>Sporobolus contractus</i>	spike dropseed
Poaceae	SPCR	<i>Sporobolus cryptandrus</i>	<i>Sporobolus cryptandrus</i>	sand dropseed
Poaceae	HECOC8	<i>Stipa comata</i>	<i>Hesperostipa comata</i> spp. <i>comata</i>	needle-and-thread grass
Polemoniaceae	IPAGA3	<i>Ipomopsis aggregata</i> spp. <i>aggregata</i>	<i>Ipomopsis aggregata</i> spp. <i>aggregata</i>	scarlet trumpet, skyrocket
Polemoniaceae	IPLO2	<i>Ipomopsis longiflora</i>	<i>Ipomopsis longiflora</i>	blue gilia
Polemoniaceae	POFOF3	<i>Polemonium foliosissimum</i> var. <i>foliosissimum</i>	<i>Polemonium foliosissimum</i> var. <i>foliosissimum</i>	Jacob's ladder
Polygonaceae	ERCE2	<i>Eriogonum cernuum</i>	<i>Eriogonum cernuum</i>	nodding buckwheat
Polygonaceae	EREF	<i>Eriogonum effusum</i>	<i>Eriogonum effusum</i>	wild buckwheat
Polygonaceae	ERJA	<i>Eriogonum jamesii</i>	<i>Eriogonum jamesii</i>	James buckwheat
Polygonaceae	ERPO4	<i>Eriogonum polycladon</i>	<i>Eriogonum polycladon</i>	sorrel wild buckwheat
Polygonaceae	POAV	<i>Polygonum aviculare</i>	<i>Polygonum aviculare</i>	knotweed
Polygonaceae	POCO10	<i>Polygonum convolvulus</i>	<i>Polygonum convolvulus</i>	black bindweed
Polygonaceae	PORA3	<i>Polygonum ramosissimum</i>	<i>Polygonum ramosissimum</i>	knotweed
Polygonaceae	RUCR	<i>Rumex crispus</i>	<i>Rumex crispus</i>	curly dock

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Portulacaceae	POOL	<i>Portulaca oleracea</i>	<i>Portulaca oleracea</i>	common purslane
Primulaceae	ANSES4	<i>Androsace septentrionalis</i> var. <i>subulifera</i>	<i>Androsace septentrionalis</i> spp. <i>subulifera</i>	rock-jasmine
Pteridaceae	CHFE	<i>Cheilanthes feei</i>	<i>Cheilanthes feei</i>	Fee's lip fern
Ranunculaceae	ACRUA8	<i>Actaea arguta</i> var. <i>viridiflora</i>	<i>Actaea rubra</i> spp. <i>arguta</i>	western baneberry
Ranunculaceae	ANCY	<i>Anemone cylindrica</i>	<i>Anemone cylindrica</i>	candle anemone
Ranunculaceae	CLLI2	<i>Clematis ligusticifolia</i>	<i>Clematis ligusticifolia</i>	western virgin's bower
Ranunculaceae	CLCOC2	<i>Clematis pseudoalpina</i>	<i>Clematis columbiana</i> var. <i>columbiana</i>	Rocky mountain clematis
Ranunculaceae	PUPAM	<i>Pulsatilla ludoviciana</i>	<i>Pulsatilla patens</i> spp. <i>multifida</i>	pasque flower
Ranunculaceae	RACA4	<i>Ranunculus cardiophyllus</i>	<i>Ranunculus cardiophyllus</i>	buttercup
Ranunculaceae	RAIN	<i>Ranunculus inamoenus</i>	<i>Ranunculus inamoenus</i>	homely buttercup
Ranunculaceae	RAMA3	<i>Ranunculus macranthus</i>	<i>Ranunculus macranthus</i>	showy buttercup
Ranunculaceae	THFEF	<i>Thalictrum fendleri</i> var. <i>fendleri</i>	<i>Thalictrum fendleri</i> var. <i>fendleri</i>	Fendler meadowrue
Rhamnaceae	CEFE	<i>Ceanothus fendleri</i>	<i>Ceanothus fendleri</i>	buckbrush
Rosaceae	AGST	<i>Agrimonia striata</i>	<i>Agrimonia striata</i>	agrimony
Rosaceae	AMUT	<i>Amelanchier utahensis</i>	<i>Amelanchier utahensis</i>	serviceberry
Rosaceae	CEMOM4	<i>Cercocarpus montanus</i>	<i>Cercocarpus montanus</i>	mountain mahogany
Rosaceae	FAPA	<i>Fallugia paradoxa</i>	<i>Fallugia paradoxa</i>	Apache plume
Rosaceae	FRVEA2	<i>Fragaria americana</i>	<i>Fragaria vesca</i> spp. <i>americana</i>	wild strawberry
Rosaceae	PEFL15	<i>Potentilla fruticosa</i>	<i>Pentaphylloides floribunda</i>	shrubby cinquefoil
Rosaceae	POHI6	<i>Potentilla hippiana</i>	<i>Potentilla hippiana</i>	cinquefoil
Rosaceae	PONO3	<i>Potentilla norvegica</i>	<i>Potentilla norvegica</i>	Norway cinquefoil

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Rosaceae	POPU9	<i>Potentilla pulcherrima</i>	<i>Potentilla pulcherrima</i>	beauty cinquefoil
Rosaceae	PRVIM	<i>Prunus virginiana</i> var. <i>melanocarpa</i>	<i>Prunus virginiana</i> var. <i>melanocarpa</i>	chokecherry
Rosaceae	ROWOW	<i>Rosa woodsii</i> var. <i>fendleri</i>	<i>Rosa woodsii</i> var. <i>woodsii</i>	Fendler's rose
Rosaceae	RUPA	<i>Rubus parviflorus</i>	<i>Rubus parviflorus</i>	thimbleberry
Rosaceae	RUIDS2	<i>Rubus strigosus</i> var. <i>arizonicus</i>	<i>Rubus idaeus</i> spp. <i>strigosus</i>	wild raspberry
Rubiaceae	GAAP2	<i>Galium aparine</i>	<i>Galium aparine</i>	bedstraw
Rubiaceae	GAMEA	<i>Galium asperrimum</i>	<i>Galium mexicanum</i> spp. <i>asperrimum</i>	roughstemmed bedstraw
Rubiaceae	GABO2	<i>Galium boreale</i>	<i>Galium boreale</i>	northern bedstraw
Rubiaceae	GAFE	<i>Galium fendleri</i>	<i>Galium fendleri</i>	Fendler bedstraw
Rubiaceae	GAMI	<i>Galium microphyllum</i>	<i>Galium microphyllum</i>	littleleaf bedstraw
Rubiaceae	GATRS2	<i>Galium tinctorium</i> var. <i>subbiflorum</i>	<i>Galium trifidum</i> spp. <i>subbiflorum</i>	bedstraw
Rutaceae	PTTRA	<i>Ptelea trifoliata</i> spp. <i>angustifolia</i>	<i>Ptelea trifoliata</i> spp. <i>angustifolia</i>	narrowleaf hoptree
Salicaceae	POAN3	<i>Populus angustifolia</i>	<i>Populus angustifolia</i>	narrowleaf cottonwood
Salicaceae	PODEW	<i>Populus fremontii</i> var. <i>wislizeni</i>	<i>Populus deltoides</i> spp. <i>wislizeni</i>	Rio Grande cottonwood
Salicaceae	POTR5	<i>Populus tremuloides</i> var. <i>aurea</i>	<i>Populus tremuloides</i>	aspen
Salicaceae	SAEX	<i>Salix exigua</i>	<i>Salix exigua</i>	sandbar willow
Santalaceae	COUMP	<i>Comandra pallida</i>	<i>Comandra umbellata</i> spp. <i>pallida</i>	bastard toadflax
Saxifragaceae	HEPA11	<i>Heuchera parvifolia</i>	<i>Heuchera parvifolia</i>	alumroot
Scrophulariaceae	CAIN14	<i>Castilleja integra</i>	<i>Castilleja integra</i>	Indian paintbrush
Scrophulariaceae	CALI4	<i>Castilleja linariifolia</i>	<i>Castilleja linariifolia</i>	Wyoming paintbrush
Scrophulariaceae	CALI5	<i>Castilleja lineata</i>	<i>Castilleja lineata</i>	yellow paintbrush
Scrophulariaceae	CAMI12	<i>Castilleja miniata</i>	<i>Castilleja miniata</i>	paintbrush
Scrophulariaceae	MIGLJ	<i>Mimulus glabratus</i> var. <i>fremontii</i>	<i>Mimulus glabratus</i> var. <i>jamesii</i>	smooth monkeyflower

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Scrophulariaceae	ORLU2	<i>Orthocarpus luteus</i>	<i>Orthocarpus luteus</i>	yellow owl-clover
Scrophulariaceae	ORPU2	<i>Orthocarpus purpureoalbus</i>	<i>Orthocarpus purpureoalbus</i>	purple owl-clover
Scrophulariaceae	PEBAT	<i>Penstemon barbatus</i> spp. <i>torreyi</i>	<i>Penstemon barbatus</i> spp. <i>torreyi</i>	scarlet bugler
Scrophulariaceae	PESE11	<i>Penstemon secundiflorus</i>	<i>Penstemon secundiflorus</i>	penstemon
Scrophulariaceae	PEVI4	<i>Penstemon virgatus</i>	<i>Penstemon virgatus</i>	variegated penstemon
Scrophulariaceae	VETH	<i>Verbascum thapsus</i>	<i>Verbascum thapsus</i>	mullein
Scrophulariaceae	VEAM2	<i>Veronica americana</i>	<i>Veronica americana</i>	American brooklime
Solanaceae	LYPA	<i>Lycium pallidum</i>	<i>Lycium pallidum</i>	wolfberry
Solanaceae	PHHEF	<i>Physalis hederifolia</i> var. <i>cordifolia</i>	<i>Physalis hederifolia</i> var. <i>fendleri</i>	ground cherry
Solanaceae	SOEL	<i>Solanum elaeagnifolium</i>	<i>Solanum elaeagnifolium</i>	horse-nettle
Tamaricaceae	TAGA	<i>Tamarix gallica</i>	<i>Tamarix gallica</i>	salt cedar
Typhaceae	TYLA	<i>Typha latifolia</i>	<i>Typha latifolia</i>	broad-leaved cattail
Ulmaceae	CELAR	<i>Celtis reticulata</i>	<i>Celtis laevigata</i> var. <i>reticulata</i>	western hackberry
Ulmaceae	ULPU	<i>Ulmus pumila</i>		Siberian elm
Urticaceae	URDIG	<i>Urtica gracilis</i>	<i>Urtica dioica</i> spp. <i>gracilis</i>	stinging nettle
Valerianaceae	VAACA	<i>Valeriana capitata</i> spp. <i>acutiloba</i>	<i>Valeriana acutiloba</i> var. <i>acutiloba</i>	valeriana
Verbenaceae	GLWR	<i>Verbena wrightii</i>	<i>Glandularia wrightii</i>	Wright's vervain
Violaceae	VIAD	<i>Viola adunca</i>	<i>Viola adunca</i>	Western dog violet
Violaceae	VICA	<i>Viola canadensis</i>		Canadian violet
Violaceae	VIPE2	<i>Viola pedatifida</i>	<i>Viola pedatifida</i>	larkspur violet
Viscaceae	ARDI3	<i>Arceuthobium divaricatum</i>	<i>Arceuthobium divaricatum</i>	mistletoe
Viscaceae	ARDO	<i>Arceuthobium douglasii</i>	<i>Arceuthobium douglasii</i>	mistletoe

Table 1. Plants at LANL and Surrounding Areas (cont.)

Family	Symbol	Martin and Hutchins 1980 Names	USDA Plants Database Name	Common Name
Viscaceae	ARVAC	<i>Arceuthobium vaginatum</i> spp. <i>cryptopodum</i>	<i>Arceuthobium vaginatum</i> spp. <i>cryptopodum</i>	mistletoe
Viscaceae	PHJU	<i>Phoradendron juniperinum</i>	<i>Phoradendron juniperinum</i>	juniper mistletoe
Vitaceae	PAQUQ	<i>Parthenocissus inserta</i>	<i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	Virginia creeper
Vitaceae	VIAR2	<i>Vitis arizonica</i>	<i>Vitis arizonica</i>	canyon grape
Zygophyllaceae	TRTE	<i>Tribulus terrestris</i>	<i>Tribulus terrestris</i>	puncture vine

Table 2. Fungi at LANL and Surrounding Areas

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
<i>Agaricus</i>	<i>augustus</i>	Agaricaceae	Agaricales	The prince
	<i>barrowsii</i>			
	<i>bitorquis</i>			
	<i>campestris</i>			Meadow mushroom
	<i>haemorrhoidarius</i>			
	<i>silvicola</i>			
	<i>xanthodermus</i>			
<i>Agrocybe</i>	<i>pediades</i> cf.	Bolbitiaceae		
	<i>praecox</i> cf.			
<i>Amanita</i>	<i>bisporigera</i> cf.	Amanitaceae		Destroying angel
	<i>caesarea</i>			Caesar's mushroom
	<i>constricta</i>			
	<i>fulva</i>			
	<i>magniverrucata</i> cf.			
	<i>muscaria</i> var. <i>muscaria</i>			Fly agaric
	<i>pantherina</i>			
	<i>vaginata</i>			Grisette
<i>Arcyria</i>	<i>denudata</i>	Trichiaceae	Trichiales	Slime mold
<i>Armillaria</i>	<i>albolanaripes</i>	Tricholomataceae	Agaricales	
	<i>mellea</i> cf.			Honey mushroom
	<i>straminia</i> cf.			
	<i>tabescens</i> cf.			
<i>Astraeus</i>	<i>hygrometricus</i>	Astraeaceae	Sclerodermatales	
<i>Auricularia</i>	<i>auricula</i>	Auriculariaceae	Auriculariales	Tree ear
<i>Auriscalpium</i>	<i>vulgare</i>	Hydnaceae	Aphyllophorales	
<i>Battarrea</i>	<i>phalloides</i>	Tulostomataceae	Tulostomatales	
<i>Bisporella</i>	<i>citrina</i>	Leotiaceae	Helotiales	
<i>Bjerkandera</i>	<i>adusta</i>	Polyporaceae	Aphyllophorales	
<i>Boletus</i>	<i>barrowsii</i>	Boletaceae	Agaricales	
	<i>calopus</i>			
	<i>chalciporus</i> cf.			
	<i>chrysenteron</i> cf.			
	<i>edulis</i>			
	<i>haematinus</i>			
	<i>rubripes</i>			
<i>Caloporus</i>	<i>dichrous</i>	Polyporaceae	Aphyllophorales	
<i>Calvatia</i>	<i>gigantea</i>	Lycoperdaceae	Lycoperdales	Giant puffball
<i>Cantharellus</i>	<i>cibarius</i>	Cantharellaceae	Aphyllophorales	Chanterelle
<i>Catathelasma</i>	<i>ventricosa</i>	Tricholomataceae	Agaricales	
<i>Ceratiomyxa</i>	<i>fruticulosa</i>	Ceratiomyxaceae	Ceratiomyxales	Slime mold
<i>Cheimonophyllum</i>	<i>candidissimus</i>	Tricholomataceae	Agaricales	

Table 2. Fungi at LANL and Surrounding Areas (cont.)

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
<i>Chlorociboria</i>	<i>aeruginascens</i>	Dermatiaceae	Helotiales	Blue stain
<i>Chlorophyllum</i>	<i>molybdites</i>	Lepiotaceae	Agaricales	
<i>Chroogomphus</i>	<i>tomentosus</i>	Gomphidiaceae		
	<i>vinicolor</i>			
<i>Clavariadelphus</i>	<i>lovejoyae</i>	Clavariaceae	Aphyllophorales	
	<i>pistillaris</i>			
	<i>truncatus</i>			
<i>Clavicornia</i>	<i>pyxidata</i>			Coral mushroom
<i>Clavulina</i>	<i>cristata</i> cf.			Coral mushroom
	<i>rugosa</i> cf.			Coral mushroom
<i>Clavulinopsis</i>	<i>corniculata</i>			
<i>Clitocybe</i>	<i>dealbata</i>	Tricholomataceae	Agaricales	
	<i>dilatata</i>			
	<i>gibba</i>			
	<i>gigantea</i> cf.			
<i>Collybia</i>	<i>dryophila</i>			
	<i>lentinioides</i> cf.			
	<i>spongiosa</i> cf.			
<i>Coltricia</i>	<i>perennis</i>	Polyporaceae	Aphyllophorales	
<i>Coniophora</i>	<i>puteana</i>	Coniophoraceae	Aphyllophorales	Wet rot
<i>Conocybe</i>	<i>lactea</i> cf.	Bolbitiaceae	Agaricales	
	<i>tenera</i> cf.			
<i>Coprinus</i>	<i>altramentarius</i>	Coprinaceae		Inky cap
	<i>comatus</i>			Shaggy mane
	<i>lagopus</i> cf.			
	<i>micaceus</i>			
<i>Coriollus</i>	<i>carbonarius</i>	Polyporaceae	Aphyllophorales	
<i>Coriolopsis</i>	<i>gallica</i>			
<i>Cortinarius</i>	<i>alboviolaceus</i> cf.	Cortinariaceae	Agaricales	
	<i>anomalous</i>			
	<i>calochrous</i>			
	<i>glaucopus</i> cf.			
<i>Crepidotus</i>	<i>applanatus</i> cf.	Crepitodaceae		
	<i>herbarum</i> cf.			
	<i>mollis</i>			
<i>Crucibulum</i>	<i>laeve</i>	Nidulariaceae	Nidulariales	Bird's nest
<i>Cudonia</i>	<i>circinans</i>	Leotiaceae	Helotiales	
<i>Cyathus</i>	<i>striatus</i>	Nidulariaceae	Nidulariales	
<i>Cyptotrama</i>	<i>chrysopeplum</i>	Tricholomataceae	Agaricales	
<i>Cystoderma</i>	<i>amianthinum</i> cf.			
	<i>granulosum</i> cf.			
<i>Dacrymyces</i>	<i>palmatus</i>	Dacrymycetaceae	Dacrymycetales	

Table 2. Fungi at LANL and Surrounding Areas (cont.)

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
<i>Daedaleopsis</i>	<i>confragosa</i>	Polyporaceae	Aphylophorales	
<i>Daldinia</i>	<i>concentrica</i> cf.	Xylariaceae	Sphaeriales	
<i>Flammulina</i>	<i>velutipes</i>	Tricholomataceae	Agaricales	Velvet foot
<i>Fomitopsis</i>	<i>canjanderi</i>	Polyporaceae	Aphylophorales	
	<i>pinicola</i>			
<i>Fuligo</i>	<i>septica</i>	Physacaceae	Physarales	Slime mold
<i>Galerina</i>	<i>autumnalis</i>	Cortinariaceae	Agaricales	
<i>Ganoderma</i>	<i>applanatum</i>	Polyporaceae	Aphylophorales	Artist's conk
<i>Gautieria</i>	<i>mexicana</i>	Gautieriaceae	Gautieriales	
<i>Geastrum</i>	<i>coronatum</i>	Geastraceae	Lycoperdales	Earth star
	<i>saccatum</i>			Earth star
	<i>triplex</i>			Earth star
<i>Globifomes</i>	<i>graveolens</i> cf.	Polyporaceae	Aphylophorales	Sweet knot
<i>Gloeophyllum</i>	<i>sepiarium</i>			
<i>Gomphidius</i>	<i>glutinosus</i>	Gomphidiaceae	Agaricales	
	<i>oregonensis</i>			Insidious gomphus
<i>Gomphus</i>	<i>bonari</i>	Cantharellaceae	Aphylophorales	
	<i>floccosus</i>			
<i>Guepiniopsis</i>	<i>alpinus</i>	Dacrymycetaceae	Dacrymycetales	
<i>Gymnopolis</i>	<i>sapineus</i>	Cortinariaceae	Agaricales	
<i>Gymnosporangium</i>	<i>speciosus</i> cf.	Pucciniaceae	Uredinales	Juniper rust
<i>Gyromitra</i>	<i>esculenta</i>	Helvellaceae	Pezizales	
	<i>infula</i>			
<i>Hebeloma</i>	<i>crustulinifrome</i>	Cortinariaceae	Agaricales	Poison pie
	<i>sinapizans</i> cf.			
<i>Helvella</i>	<i>acetabulum</i>	Helvellaceae	Pezizales	Cup fungus
	<i>crispa</i>			Saddle mushroom
	<i>elastica</i> cf.			Saddle mushroom
	<i>lacunosa</i>			Saddle mushroom
<i>Hemitrichia</i>	<i>clavata</i> cf.	Trichiaceae	Trichiales	Slime mold
<i>Hericium</i>	<i>abeitis</i>	Hydnaceae	Aphylophorales	
<i>Hohenbuehelia</i>	<i>petaloides</i> cf.	Tricholomataceae	Agaricales	
<i>Humaria</i>	<i>hemisphaeria</i>	Pyronemataceae	Pezizales	
<i>Hygrophoropsis</i>	<i>aurantiaca</i>	Paxcillaceae	Agaricales	False chanterelle
<i>Hygrophorus</i>	<i>acutoconica</i> cf.	Hygrophoraceae		
	<i>chrysodon</i>			
	<i>conicus</i>			Witch's hat
	<i>marginatus</i> cf.			
	<i>pudorinus</i>			
	<i>speciosus</i>			

Table 2. Fungi at LANL and Surrounding Areas (cont.)

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
<i>Hypomyces</i>	<i>chrysospermum</i>	Hypocreaceae	Sphaeriales	
	<i>hyalinus</i> cf.			
	<i>lactiflorum</i>			Lobster mushroom
<i>Hypomyces</i>	<i>luteovirens</i>			
<i>Inocybe</i>	<i>albodisca</i> cf.	Cortinariaceae	Agaricales	
	<i>fastigiata</i>			
	<i>lanuginosa</i>			
	<i>maculata</i> cf.			
	<i>sororia</i>			
<i>Inonotus</i>	<i>tomentosus</i>	Polyporaceae	Aphylliphorales	
<i>Irpex</i>	<i>lacteus</i>			
<i>Laccaria</i>	<i>amethystina</i> cf.	Tricholomataceae	Agaricales	
	<i>bicolor</i>			
	<i>laccata</i>			
<i>Lactarius</i>	<i>barrowsii</i>	Russulaceae		
	<i>controversus</i> cf.			
	<i>deliciosus</i>			
	<i>olivaceoumbrinus</i>			
	<i>rubrilacteus</i>			
	<i>torminosus</i>			
	<i>uvidus</i> cf.			
<i>Leccinum</i>	<i>aurantiacum</i>	Boletaceae		
	<i>insigne</i>			
<i>Lentinellus</i>	<i>omphalodes</i> cf.	Tricholomataceae		
	<i>ursinus</i> cf.			
<i>Lentinus</i>	<i>ponderosus</i>			
<i>Lenzites</i>	<i>betulina</i>	Polyporaceae	Aphylliphorales	
<i>Lepiota</i>	<i>clypeolaria</i>	Lepiotaceae	Agaricales	
	<i>crystata</i>			
	<i>rhacodes</i>			
<i>Leucopaxillus</i>	<i>amarus</i>	Tricholomataceae		
<i>Leucophleps</i>	<i>spinispora</i>	Leucogastraceae	Leucogastrales	
<i>Lycogala</i>	<i>epidendrum</i>	Reticulariaceae	Liceales	Wolf's phart
	<i>flavofuscum</i>			Slime mold
<i>Lycoperdon</i>	<i>americanum</i>	Lycoperdaceae	Lycoperdales	Puffball
	<i>echinatum</i>			Puffball
	<i>perlatum</i>			Puffball
	<i>pyriforme</i>			Puffball
<i>Marasmius</i>	<i>oreades</i>	Tricholomataceae	Agaricales	Fairy ring mushroom
<i>Melanoleuca</i>	spp.			
<i>Morchella</i>	<i>augusticeps</i>	Morchellaceae	Pezizales	Morel
	<i>elata</i>			Morel
	<i>esculenta</i>			Morel
<i>Mycena</i>	<i>haemotopus</i>	Tricholomataceae	Agaricales	

Table 2. Fungi at LANL and Surrounding Areas (cont.)

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
<i>Nidula</i>	<i>candida</i>	Nidulariaceae	Nidulariales	Bird's nest mushroom
<i>Nolanea</i>	spp.	Entolomataceae	Agaricales	
<i>Panaeolus</i>	<i>foenisecii</i>	Coprinaceae		Hay-makers mushroom
<i>Panaeolus</i>	<i>retirugis</i> cf.			
<i>Paxillus</i>	<i>atrotomentosus</i>	Paxillaceae		
<i>Peniophora</i>	<i>gigantea</i>	Corticaceae	Aphyllaphorales	
	<i>rufa</i>			
<i>Peziza</i>	<i>repanda</i>	Pezizaceae	Pezizales	
	<i>succosa</i>			
<i>Phaeolus</i>	<i>schweinitzii</i>	Polyporaceae	Aphyllaphorales	Dye polypore
<i>Phallus</i>	<i>impudicus</i>	Phallaceae	Phallales	Stinkhorn
<i>Phlebia</i>	spp.	Corticaceae	Aphyllaphorales	
<i>Pholiota</i>	<i>aurivella</i> cf.	Strophariaceae	Agaricales	
	<i>destruens</i>			
	<i>limonella</i> cf.			
	<i>lubrica</i> cf.			
	<i>squarrosa</i>			
<i>Phylloporus</i>	<i>rhodoxanthus</i>	Paxillaceae		Gilled bolete
<i>Phyllotopsis</i>	<i>nidulans</i>	Tricholomataceae		
<i>Pleurotus</i>	<i>ostreatus</i>			
	<i>sapidus</i>			Oyster mushroom
<i>Pluteus</i>	<i>cervinus</i>	Pluteaceae		Fawn mushroom
	<i>cervinus</i> var. <i>alba</i>			
	<i>lutescens</i>			
<i>Polyporus</i>	<i>aricularius</i>	Polyporaceae	Aphyllaphorales	
	<i>badius</i> cf.			
	<i>elegans</i>			
	<i>squamosus</i>			
	<i>varius</i>			
<i>Poria</i>	<i>corticola</i> cf.			
	<i>spissa</i>			
<i>Psathyrella</i>	<i>carbonicola</i>	Coprinaceae	Agaricales	
	<i>velutina</i>			
<i>Pseudohydnum</i>	<i>gelatinosum</i>	Tremellaceae	Tremellales	
<i>Psilocybe</i>	spp.	Strophariaceae	Agaricales	
<i>Pycnoporellus</i>	<i>alboluteus</i>	Polyporaceae	Aphyllaphorales	
<i>Pycnoporus</i>	<i>cinnabarinus</i>			
<i>Ramaria</i>	<i>vinosimaculus</i> cf.	Clavariaceae		Coral mushroom
<i>Rhizopogon</i>	<i>subsalmionius</i>	Rhizopogonaceae	Hymenogastrales	
<i>Russula</i>	<i>aeruginea</i> cf.	Russulaceae	Agaricales	

Table 2. Fungi at LANL and Surrounding Areas (cont.)

GENUS	SPECIES	FAMILY	ORDER	COMMON NAME
	<i>brevipes</i>			
	<i>emetica</i> cf.			
	<i>maculata</i> cf.			
	<i>rosacea</i> cf.			
<i>Sarcoscypha</i>	<i>coccinea</i>	Sarcoscyphaceae	Pezizales	
<i>Scutellinia</i>	<i>erinaceus</i> cf.	Pyronemataceae		Yellow eye-lash
<i>Scutellinia</i>	<i>scutellata</i>			Eye-lash cup
<i>Sparassis</i>	<i>crispa</i>	Clavariaceae	Aphylliphorales	
	<i>radicata</i>			Cauliflower mushroom
<i>Spathularia</i>	<i>flavida</i>	Geoglossaceae	Helotiales	
<i>Spongipellis</i>	<i>pachyodon</i>	Polyporaceae	Aphylliphorales	
<i>Steccherium</i>	<i>ochraceum</i>	Hydnaceae		
<i>Stemonitis</i>	<i>splendens</i>	Stemonitaceae	Stemonitales	Slime mold
<i>Stereum</i>	<i>complicatum</i>	Stereaceae	Aphylliphorales	
	<i>hirsutum</i> cf.			Parchment fungus
	<i>striatum</i>			
<i>Stropharia</i>	<i>coronilla</i> cf.	Strophariaceae	Agaricales	
	<i>kauffmanii</i>			
<i>Suillus</i>	<i>granulatus</i>	Boletaceae		
	<i>lakei</i>			
	<i>sibiricus</i>			
<i>Tarzetta</i>	<i>cupularis</i>	Pyronemataceae	Pezizales	
<i>Thelephora</i>	<i>terrestris</i>	Thelephoraceae	Aphylliphorales	
<i>Tremella</i>	<i>mesenterica</i> cf.	Tremellaceae	Tremellales	Jelly fungus
<i>Trichaptum</i>	<i>abietinus</i>	Polyporaceae	Aphylliphorales	
	<i>subchartaceum</i>			
<i>Trichia</i>	<i>scabra</i> cf.	Trichiaceae	Trichiales	Slime mold
<i>Tricholoma</i>	spp.	Tricholomataceae	Agaricales	
<i>Tricholomopsis</i>	<i>platyphylla</i>			
	<i>rutilans</i>			
<i>Truncocolumella</i>	<i>citrina</i>	Rhizopogonaceae	Hymenogastrales	
<i>Tubifera</i>	spp.	Reticulariaceae	Liceales	Slime mold
<i>Tulostoma</i>	<i>brumale</i> cf.	Tulostomataceae	Tulostomatales	
	<i>simulans</i>			
<i>Tyromyces</i>	<i>guttulatus</i> cf.	Polyporaceae	Aphylliphorales	
<i>Vascellum</i>	<i>lloydianum</i> cf.	Lycoperdaceae	Lycoperdales	
<i>Volvariella</i>	<i>bombycina</i>	Pluteaceae	Agaricales	
<i>Xeromphalina</i>	<i>campanella</i>	Tricholomataceae		
<i>Xerula</i>	<i>americana</i>			

Data for this table were taken from Jarmie and Rogers (1996).

Table 3. Birds at LANL and Surrounding Areas

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
GAVIIDAE	<i>Gavia immer</i>	Common loon	8
	<i>G. stellata</i>	Red-throated loon	8
ARDEIDAE	<i>Ardea herodias</i>	Great blue heron	8
CATHARTIDAE	<i>Cathartes aura</i>	Turkey vulture	2, 9
ANATIDAE	<i>Chen caerulescens</i>	Snow goose	8
	<i>Anas platyrhynchos</i>	Mallard	1, 8
	<i>Mergus merganser</i>	Common merganser	8
ACCIPITRIDAE	<i>Accipiter cooperii</i>	Cooper's hawk	1, 3
	<i>A. gentilis</i>	Northern goshawk	1
	<i>A. striatus</i>	Sharp-shinned hawk	1
	<i>Aquila chrysaetos</i>	Golden eagle	2, 8
	<i>Buteo jamaicensis</i>	Red-tailed hawk	1, 2, 4, 9
	<i>B. albonotatus</i>	Zone-tailed hawk	1
	<i>Circus cyaneus</i>	Northern harrier	14
	<i>Haliaeetus luecocephalus</i>	Bald eagle	13
FALCONIDAE	<i>Falco sparverius</i>	American kestrel	1, 2, 9
	<i>F. mexicanus</i>	Prairie falcon	8
	<i>F. peregrinus</i>	Peregrine falcon	10
PHASIANIDAE	<i>Callipepla gambelli</i>	Gambel's quail	1
	<i>Dendragapus obscurus</i>	Blue grouse	1
	<i>Meleagris gallopavo</i>	Wild turkey	1
RALLIDAE	<i>Fulica americana</i>	American coot	8
	<i>Rallus limicola</i>	Virginia rail	12
GRUIDAE	<i>Grus americana</i>	Whooping crane	9
	<i>G. canadensis</i>	Sandhill crane	9
SCOLOPACIDAE	<i>Actitis macularia</i>	Spotted sandpiper	1
COLUMBIDAE	<i>Columba fasciata</i>	Band-tailed pigeon	2
	<i>C. livia</i>	Rock dove	
	<i>Zenaida macroura</i>	Mourning dove	2, 3
CUCULIDAE	<i>Geococcyx californianus</i>	Greater roadrunner	14
STRIGIDAE	<i>Glaucidium gnoma</i>	Northern pygmy-owl	1
	<i>Aegolius acadicus</i>	Northern saw-whet owl	1
	<i>Bubo virginianus</i>	Great horned owl	1
	<i>Otus flammeolus</i>	Flammulated owl	1, 2
	<i>O. kennicottii</i>	Western screech owl	8
	<i>Strix occidentalis lucida</i>	Mexican spotted owl	1, 2
CAPRIMULGIDAE	<i>Caprimulgus vociferus</i>	Whip-poor-will	8
	<i>Chordeiles minor</i>	Common nighthawk	1
	<i>Phalaenoptilus nuttallii</i>	Common poorwill	1
APODIDAE	<i>Aeronautes saxatalis</i>	White-throated swift	1, 4
TROCHILIDAE	<i>Selasphorus platycercus</i>	Broad-tailed hummingbird	1, 3, 4, 11
	<i>Archilochus alexandri</i>	Black-chinned hummingbird	1, 2
PICIDAE	<i>Colaptes auratus</i>	Northern flicker	1, 2, 3, 9, 11
	<i>Melanerpes lewis</i>	Lewis' woodpecker	2
	<i>M. formicivorus</i>	Acorn woodpecker	1, 2

Table 3. Birds at LANL and Surrounding Areas (cont.)

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
PICIDAE	<i>Picoides pubescens</i>	Downy woodpecker	1
	<i>P. villosus</i>	Hairy woodpecker	1, 2, 3, 11
	<i>P. tridactylus</i>	Three-toed woodpecker	1, 3
	<i>P. scalaris</i>	Ladder-backed woodpecker	1
	<i>Sphyrapicus nuchalis</i>	Red-naped sapsucker	1
	<i>S. thyroideus</i>	Williamson's sapsucker	1
	<i>S. varius</i>	Yellow-bellied sapsucker	6
TYRANNIDAE	<i>Contopus borealis</i>	Olive-sided flycatcher	1
	<i>C. sordidulus</i>	Western wood-pewee	1, 2, 3
	<i>Empidonax hammondi</i>	Hammond's flycatcher	1, 3
	<i>E. oberholseri</i>	Dusky flycatcher	1
	<i>E. occidentalis</i>	Cordilleran flycatcher	1, 3
	<i>E. trailli extimus</i>	Southwestern willow flycatcher	15
	<i>E. wrightii</i>	Gray flycatcher	1, 2
	<i>Myiarchus cinerascens</i>	Ash-throated flycatcher	1, 3, 4
	<i>Tyrannus vociferans</i>	Cassin's kingbird	1, 2
	<i>Sayornis saya</i>	Say's phoebe	1, 2
	<i>S. nigricans</i>	Black phoebe	1
HIRUNDINIDAE	<i>Tachycineta thalassina</i>	Violet-green swallow	1, 4
	<i>Hirundo pyrrhonota</i>	Cliff swallow	1
CORVIDAE	<i>Aphelocoma coerulescens</i>	Scrub jay	1, 9
	<i>Cyanocitta stelleri</i>	Steller's jay	1, 2, 3, 9
	<i>Gymnorhinus cyanocephalus</i>	Piñon jay	1, 11
	<i>Corvus brachyrhynchus</i>	American crow	1
	<i>Corvus corax</i>	Common raven	1, 2, 9, 11
	<i>Corvus cryptoleucus</i>	Chihuahuan raven	14
	<i>Nucifraga columbiana</i>	Clark's nutcracker	1, 2, 4
	<i>Perisoreus canadensis</i>	Gray jay	1
	<i>Pica pica</i>	Black-billed magpie	1, 2
PARIDAE	<i>Parus gambeli</i>	Mountain chickadee	1, 2, 3
	<i>P. inornatus</i>	Plain titmouse	1, 2
AEGITHALIDAE	<i>Psaltriparus minimus</i>	Bushtit	1, 5
SITTIDAE	<i>Sitta canadensis</i>	Red-breasted nuthatch	1
	<i>S. carolinensis</i>	White-breasted nuthatch	1, 3, 4
	<i>S. pygmaea</i>	Pygmy nuthatch	1, 2, 3
CERTHIIDAE	<i>Certhia americana</i>	Brown creeper	
TROGLODYTIDAE	<i>Troglodytes aedon</i>	House wren	1, 2, 3
	<i>T. troglodytes</i>	Winter wren	1
TROGLODYTIDAE	<i>Catherpes mexicanus</i>	Canyon wren	1, 3
	<i>Salpinctes obsoletus</i>	Rock wren	1, 3, 4
	<i>Thryomanes bewickii</i>	Bewick's wren	1
CINCLIDAE	<i>Cinclus mexicanus</i>	American dipper	1
MUSCICAPIDAE	<i>Catharus guttatus</i>	Hermit thrush	1, 3
	<i>Myadestes townsendi</i>	Townsend's solitaire	1, 3, 11
	<i>Polioptila caerulea</i>	Blue-grey gnatcatcher	1, 3

Table 3. Birds at LANL and Surrounding Areas (cont.)

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
MUSCICAPIDAE	<i>Regulus calendula</i>	Ruby-crowned kinglet	1
	<i>R. satrapa</i>	Golden-crowned kinglet	5
	<i>Sialia currucoides</i>	Mountain bluebird	1, 2, 4
	<i>S. mexicana</i>	Western bluebird	1, 2, 4
	<i>Turdus migratorius</i>	American robin	1, 2, 3
MIMIDAE	<i>Mimus polyglottos</i>	Northern mockingbird	1
STURNIDAE	<i>Sturnus vulgaris</i>	European starling	2
VIREONIDAE	<i>Vireo gilvus</i>	Warbling vireo	1, 3
	<i>V. solitarius</i>	Solitary vireo	1, 2, 3
EMBERIZIDAE	<i>Vermivora celata</i>	Orange-crowned warbler	1, 11
	<i>V. virginiae</i>	Virginia's warbler	1, 11
	<i>Dendroica petechia</i>	Yellow warbler	2
	<i>D. caerulescens</i>	Black-throated blue warbler	1, 5
	<i>D. coronata</i>	Yellow-rumped warbler	1, 2, 3
	<i>D. nigrescens</i>	Black-throated grey warbler	1
	<i>D. graciae</i>	Grace's warbler	1, 3
	<i>Oporornis tolmiei</i>	MacGillivray's warbler	1
	<i>Wilsonia pusilla</i>	Wilson's warbler	8
	<i>Piranga flava</i>	Hepatic tanager	1
	<i>P. ludoviciana</i>	Western tanager	1, 2
	<i>P. rubra</i>	Summer tanager	14
	<i>Guiraca caerulea</i>	Blue grosbeak	1
	<i>Pheucticus melanocephalus</i>	Black-headed grosbeak	1, 2
	<i>Passerina amoena</i>	Lazuli bunting	1
	<i>P. cyanea</i>	Indigo bunting	1
	<i>Pipilo chlorurus</i>	Green-tailed towhee	1, 4
	<i>Psaltriparus fuscus</i>	Canyon towhee	1, 5
	<i>P. maculatus</i>	Spotted towhee	1, 2
	<i>Aimophila ruficeps</i>	Rufous-crowned sparrow	1
	<i>Melospiza lincolni</i>	Lincoln's sparrow	1
<i>M. melodia</i>	Song sparrow	1	
<i>Pooecetes gramineus</i>	Vesper sparrow	1	
<i>Spizella passerina</i>	Chipping sparrow	1, 2, 4	
<i>S. atrogularis</i>	Black-chinned sparrow	8, 9	
<i>Junco hyemalis</i>	Dark-eyed junco	1, 2	
<i>Sturnella neglecta</i>	Western meadowlark	1	
<i>Agelaius phoeniceus</i>	Red-winged blackbird	1	
<i>Euphagus cyanocephalus</i>	Brewer's blackbird	1	
<i>Molothrus ater</i>	Brown-headed cowbird	1	
<i>Chondestes grammacus</i>	Lark sparrow	1, 2, 3	
<i>Icterus bullockii</i>	Bulluck's oriole	1	
<i>I. parisorum</i>	Scott's oriole	1	
<i>Zonotrichia leucophrys</i>	White-crowned sparrow	2	
FRINGILLIDAE	<i>Carduelis pinus</i>	Pine siskin	1, 3
	<i>C. psaltria</i>	Lesser goldfinch	1, 3, 4
	<i>Carpodacus cassinii</i>	Cassin's finch	3

Table 3. Birds at LANL and Surrounding Areas (cont.)

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
	<i>Catherpes mexicanus</i>	House finch	3, 9
	<i>Coccothraustes vespertinus</i>	Evening grosbeak	1
	<i>Loxia curvirostra</i>	Red crossbill	1, 2, 3
PASSERIDAE	<i>Passer domesticus</i>	House sparrow	1
<p>*Source: 1 = Travis (1992); 2 = BT observation sheets; 3 = Wauer and Johnson (1981); 4 = Moeur and Guthrie (1981); 5 = Kent and Hickman (1986); 6 = Morrison (1990); 7 = Wenzel and Kent (1986); 8 = Guthrie (1975); 9 = Lochner (1990); 10 = Johnson (1988); 11 = Foxx and Tierney (1987); 12 = Biggs (1996a); 13 = Biggs (1995); 14 = New Mexico Birding (1997); 15 = Keller (1997)</p>			

Table 4. Mammals at LANL and Surrounding Areas

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
CANIDAE	<i>Canis latrans</i>	Coyote	1, 6, 11
	<i>Vulpes vulpes</i>	Red fox	1
	<i>Urocyon cinereoargenteus</i>	Gray fox	6, 11
CERVIDAE	<i>Cervus elaphus</i> subsp. <i>nelsoni</i>	Elk	1, 6
	<i>Odocoileus hemionus</i>	Mule deer	1, 6
EQUIDAE	<i>Equus asinus</i>	Feral ass	6
ERETHIZONTIDAE	<i>Erethizon dorsatum</i>	Porcupine	1
FELIDAE	<i>Lynx rufus</i>	Bobcat	1, 11
	<i>Felis concolor</i>	Mountain lion	1
GEOMYIDAE	<i>Thomomys bottae</i>	Bottae's pocket gopher	1, 9
HETEROMYIDAE	<i>Perognathus flavus</i>	Silky pocket mouse	1, 3
	<i>P. flavescens</i>	Plains pocket mouse	12
	<i>P. intermedius</i>	Rock pocket mouse	12
LEPORIDAE	<i>Sylvilagus audubonii</i>	Desert cottontail	1, 6
	<i>S. nuttallii</i>	Nuttall's cottontail	14
MOLOSSIDAE	<i>Nyctinomops macrotis</i>	Big free-tailed bat	15
	<i>Tadarida brasiliensis</i>	Brazilian free-tailed bat	7
MURIDAE	<i>Clethrionomys gapperi</i>	Boreal red-backed vole	14
	<i>Mus musculus</i>	House mouse	10
	<i>Microtus longicaudus</i>	Long-tailed vole	3, 5, 6
	<i>M. montanus</i>	Montane vole	1, 2, 3, 4
	<i>Neotoma albigula</i>	White-throated woodrat	10
	<i>N. cinerea</i>	Bushy-tailed woodrat	16
	<i>N. mexicana</i>	Mexican woodrat	1, 9, 10
	<i>Peromyscus boylii</i>	Brush mouse	3, 5, 10
	<i>P. leucopus</i>	White-footed mouse	5, 6, 10
	<i>P. maniculatus</i>	Deer mouse	1, 2, 3, 4
	<i>P. nastutus</i>	Rock mouse	16
	<i>P. truei</i>	Piñon mouse	1, 2, 3
	<i>Reithrodontomys megalotis</i>	Western harvest mouse	1, 8, 10
	<i>Sigmodon hispidus</i>	Cotton rat	14
MUSTELIDAE	<i>Mustela erminea</i>	Ermine weasel	6, 16
	<i>M. frenata</i>	Long-tailed weasel	1
	<i>Taxidea taxus</i>	Badger	1

Table 4. Mammals at LANL and Surrounding Areas (cont.)

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
MUSTELIDAE	<i>Mephitis mephitis</i>	Striped skunk	13
OCHOTONIDAE	<i>Ochotona princeps nigrescens</i>	Goat Peak pika	16
PROCYONIDAE	<i>Bassariscus astutus</i>	Ringtail cat	6
	<i>Procyon lotor</i>	Raccoon	6
SCIURIDAE	<i>Cynomys gunnisonni</i>	Gunnison's prairie dog	
	<i>Eutamias minimus</i>	Least chipmunk	3, 6, 10
	<i>Eutamias quadrivittatus</i>	Colorado chipmunk	1, 3, 4, 5
	<i>Sciurus aberti</i>	Abert's squirrel	1, 6
	<i>S. spilosoma</i>	Spotted ground squirrel	6
	<i>Spermophilus lateralis</i>	Golden-mantled ground squirrel	14
	<i>S. variegatus</i>	Rock squirrel	6, 9, 10
	<i>Tamiasciurus hudsonicus</i>	Red squirrel	14
SORICIDAE	<i>Sorex vagrans</i>	Vagrant shrew	3
	<i>S. nanus</i>	Dwarf shrew	14
	<i>S. palustris</i>	Northern water shrew	14
URSIDAE	<i>Ursus americanus</i>	Black bear	5, 6, 11
VERSPER- TILIONIDAE	<i>Antrozous pallidus</i>	Pallid bat	1, 7, 15
	<i>Eptesicus fuscus</i>	Big brown bat	1, 6, 7, 15
	<i>Euderma maculatum</i>	Spotted bat	15
	<i>Lasionycteris noctivagans</i>	Silver-haired bat	1, 6, 7, 15
	<i>Lasiurus cinereus</i>	Hoary bat	1, 6, 7, 15
	<i>Myotis californicus</i>	California myotis	1, 7, 15
	<i>M. ciliolabrum</i>	Western small-footed myotis	15
	<i>M. evotis</i>	Long-eared myotis	1, 6, 7, 15
	<i>M. leibii</i>	Small-footed myotis	7
	<i>M. thysanodes</i>	Fringed myotis	1, 7, 15
	<i>M. yumanensis</i>	Yuma myotis	7, 15
	<i>M. volans</i>	Long-legged myotis	1, 6, 7, 15
	<i>Plecotus townsendii</i>	Townsend's big-eared bat	7, 15
	<i>Pipistrellus hesperus</i>	Western pipistrelle	7, 15

*Source: 1 = Guthrie and Large (1980); 2 = Wright (1981); 3 = Guthrie (1981); 4 = Moeur and Guthrie (1981); 5 = Kent (1981); 6 = BT observations (1991); 7 = Tyrell and Brack (1992); 8 = Felthouser (1980); 9 = Morrison (1986); 10 = Raymer and Biggs (1994); 11 = Foxx (1985); 12 = Kent (1986); 13 = Edeskuty, Foxx, and Raymer (1992); 14 = Biggs (1996a); 15 = Bogan et al. (1996); 16 = NM Species List (1997).

Table 5. Reptiles and Amphibians at LANL and Surrounding Areas

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
Reptiles			
COLUBRIDAE	<i>Diadophis punctatus</i>	Ringneck snake	1, 2, 4
	<i>Elphae guttata</i>	Corn snake	1
	<i>Hypsiglena torquata</i>	Night snake	2
	<i>Masticophis taeniatus</i>	Striped whipsnake	1, 3
	<i>M. flagellum</i>	Coachwhip snake	3
	<i>Pituophis melanoleucus</i>	Gopher snake	2, 3
	<i>Salvadora grahamiae</i>	Mountain patch-nosed snake	1, 4
	<i>Thamnophis cyrtopsis</i>	Black-headed garter snake	2
	<i>Thamnophis elegans</i>	Western terrestrial garter snake	1, 2, 3
	<i>Opheodrys vernalis</i>	Smooth green snake	2
	<i>Pituophis melaonleucus sayi</i>	Bull snake	2
VIPERIDAE	<i>Crotalus atrox</i>	Western diamondback rattlesnake	2
	<i>Crotalus viridis</i> sub. <i>viridis</i>	Prairie rattlesnake	1, 2, 3
IGUANIDAE	<i>Crotophytus collaris</i>	Collared lizard	2, 3
	<i>Phrynosoma douglassi</i>	Short-horned lizard	1, 2, 3
	<i>Sceloporus undulatus</i>	Eastern fence lizard	1, 2, 3
	<i>Sceloporus undulatus tristichus</i>	Southern plateau lizard	1
	<i>Urosaurus ornatus</i>	Tree lizard	2
SCINCIDAE	<i>Eumeces multivirgatus</i>	Many-lined skink	2, 3
	<i>Eumeces obsoletus</i>	Great Plains skink	2
TEIIDAE	<i>Cnemidophorus exanguis</i>	Chihuahuan spotted whiptail	2, 3
	<i>C. inoranatus</i>	Little striped whiptail	2
	<i>C. neomexicanus</i>	New Mexico whiptail	3
	<i>Cnemidophorus velox</i>	Plateau striped whiptail	1, 2, 3
Amphibians			
AMBYSTOMATID AE	<i>Ambystoma tigrinum</i>	Tiger salamander	1, 2
	<i>Plethodon neomexicanus</i>	Jemez Mountains salamander	2
BUFONIDAE	<i>Bufo woodhousei</i>	Woodhouse's toad	1, 2, 3
	<i>Bufo punctatus</i>	Red spotted toad	1, 2

Table 5. Reptiles and Amphibians at LANL and Surrounding Areas (cont.)

FAMILY	SCIENTIFIC NAME	COMMON NAME	SOURCE*
Amphibians			
HYLIDAE	<i>Pseudacris triseriata</i>	Western chorus frog	1, 2
	<i>Hyla arenicolor</i>	Canyon tree frog	1, 2
PELOBATIDAE	<i>Scaphiopus couchi</i>	Couch's spadefoot toad	2
	<i>S. multiplicatus</i>	New Mexican spadefoot toad	1, 2
*Source: 1 = Bogart 1978; 2 = BT observations; 3 = Biggs and Cross 1995; 4 = Guthrie 1975			

Table 6. Ant Species List from MacKay et al. (1986)

SUBFAMILY	SCIENTIFIC NAME	HABITAT TYPE	AUTHORITY
DOLICHODERINAE	<i>Acanthomyops interjectus</i>	Ponderosa	Mayr
	<i>A. latipes</i>	Ponderosa-riparian	Walsh
	<i>Brachymyrmex depilis</i>	Ponderosa	Emery
	<i>Camponotus herculeanus</i>	Aspen, spruce and riparian	Linnaeus
	<i>C. laevigatus</i>	Ponderosa-riparian	F. Smith
	<i>C. sansabeanus</i>	Ponderosa	Buckley
	<i>C. vicinus</i>	Ponderosa and ponderosa-riparian	Mayr
	<i>Formica altipetens</i>	Disturbed	Wheeler
	<i>F. argentea</i>	Disturbed and ponderosa-riparian	Wheeler
	<i>F. densiventris</i>	Ponderosa-riparian	Viereck
	<i>F. fusca</i>	Ponderosa-riparian	Linnaeus
	<i>F. hewitti</i>	Ponderosa-grass, ponderosa-riparian, riparian and aspen	Wheeler
	<i>F. lasioides</i>	Ponderosa-riparian	Emery
	<i>F. limata</i>	Ponderosa-riparian	Wheeler
	<i>F. microgyna</i>	Aspen	Wheeler
	<i>F. neogagates</i>	Disturbed	Emery
	<i>F. neorufibarbis</i>	Riparian, spruce and aspen	Emery
	<i>F. obscuripes obscuripes</i>	Ponderosa-riparian	Forel
	<i>F. obscuriventris clivia</i>	Ponderosa-riparian	Creighton
	<i>F. obtusopilosa</i>	Aspen	Emery
	<i>F. occulta</i>	Ponderosa-riparian and aspen	Francoeur
	<i>F. pergandei</i>	Disturbed and aspen	Emery
	<i>F. planipilis</i>	Ponderosa-riparian	Creighton
	<i>F. podzolica</i>	Disturbed, riparian, spruce and aspen	Francoeur
	<i>F. subnuda</i>	Ponderosa	Emery
	<i>Lasius alienus</i>	Ponderosa-riparian	Foerster
	<i>L. crypticus</i>	Ponderosa-riparian	Wilson
	<i>L. flavus</i>	Ponderosa-riparian	Fabricius
	<i>L. neoniger</i>	Ponderosa-riparian	Emery
	<i>L. niger</i>	Ponderosa-riparian	Linnaeus
	<i>L. pallitarsis</i>	Ponderosa and Ponderosa-riparian	Provancher

Table 6. Ant Species List (cont.)

SUBFAMILY	SCIENTIFIC NAME	HABITAT TYPE	AUTHORITY
DOLICHODERINAE	<i>L. sitiens</i>	Ponderosa	Wilson
	<i>L. subumbratus</i>	Ponderosa-riparian	Viereck
	<i>Liometopum apiculatum</i>	Ponderosa-riparian	Mayr
	<i>L. luctuosum</i>	Ponderosa-riparian	Wheeler
	<i>Polyergus breviceps</i>	Ponderosa	Emery
	<i>Tapinoma sessile</i>	Ponderosa-riparian	Mayr
MYRMICINAE	<i>Crematogaster cerasi</i>	Ponderosa and riparian	Fitch
	<i>C. colei</i>	Disturbed	Buren
	<i>Leptothorax crassipilis</i>	Ponderosa-riparian	Wheeler
	<i>L. muscorum</i>	Ponderosa and ponderosa-riparian	Nylander
	<i>L. nitens</i>	Disturbed and ponderosa-riparian	Emery
	<i>L. obliquicanthus</i>	Disturbed	Cole
	<i>L. provacheri</i>	Riparian	Emery
	<i>L. texanus texanus</i>	Ponderosa-riparian	Wheeler
	<i>L. tricarinatus</i>	Ponderosa-riparian	Emery
	<i>Monomorium cyaneum</i>	Disturbed	Wheeler
	<i>M. minimum</i>	Ponderosa-riparian	Buckley
	<i>Myrmecina americana</i>	Ponderosa-riparian	Emery
	<i>Myrmica brevispinosa</i>	Riparian	Wheeler
	<i>M. emeryana</i>	Ponderosa-riparian	Forel
	<i>M. hamulata</i>	Ponderosa-riparian	Weber
	<i>M. incompleta</i>	Riparian and aspen	Provancher
	<i>Pheidole ceres</i>	Ponderosa, disturbed, burned ponderosa and ponderosa-riparian	Wheeler
	<i>P. soritis</i>	Disturbed	Wheeler
	<i>P. wheelerorum</i>	Disturbed and ponderosa-riparian	MacKay
	<i>Pogonomyrmex occidentalis</i>	Ponderosa and ponderosa-riparian	Cresson
	<i>Solenopsis molesta</i>	Disturbed, ponderosa-riparian and riparian	Say
	<i>Stenamma occidentale</i>	Ponderosa-riparian	M. R. Smith

Table 7. Terrestrial Insects at LANL and Surrounding Areas

ORDER	FAMILY	COMMON NAME
Thysanura (Bristletails)	Lepismatidae	Silverfish
	Machilidae	Jumping bristletail
Collembola (Springtails)	Sminthuridae	Globular springtail
	Entomobryidae	Slender springtail
	Isotomidae	Smooth springtail
	Hypogastruridae	Elongate-bodied springtail
Odonata (Dragon and damselflies)	Aeshnidae	Darner
	Libellulidae	Common skimmer
	Coenagrionidae	Narrow-winged damselfly
	Gomphidae	Clubtail
Orthoptera (Grasshoppers and crickets)	Acrididae	Short-horned grasshopper
	Gryllacrididae	Camel cricket
	Gryllidae	True cricket
Phasmida (Walkingsticks)	Heteronemiidae	Common walkingstick
Plecoptera (Stoneflies)	Perlidae	Common stonefly
Dermaptera (Earwigs)	Forficulidae	Common earwig
Thysanoptera (Thrips)	Thripidae	Common thrip
Hemiptera (True bugs)	Belostomatidae	Giant water bug
	Miridae	Plant bug
	Reduviidae	Assassin bug
	Phymatidae	Ambush bug
	Lygaeidae	Seed bug
	Cydnidae	Burrower bug
	Scutelleridae	Shield-backed bug
	Pentatomidae	Stink bug
	Anthocoridae	Minute pirate bug
	Coreidae	Squash bug
	Nabidae	Damsel bug
Homoptera (Cicadas and kin)	Cicadidae	Cicada
	Aphididae	Aphids
	Cercopidae	Spittlebugs
	Cicadellidae	Leafhoppers
	Coccidae	Soft scales
	Delphacidae	Planthoppers
	Eriosomatidae	Gall-making aphids
	Psyllidae	Jumping plantlice
Neuroptera (Net-veined insects)	Myrmeleontidae	Antlion
	Hemerobiidae	Brown lacewings
	Raphidiidae	Snakefly
Coleoptera (Beetles)	Cicindelidae	Tiger beetle
	Carabidae	Ground beetle
	Silphidae	Carrion beetle
	Lampyridae	Firefly

Table 7. Terrestrial Insects at LANL and Surrounding Areas (cont.)

ORDER	FAMILY	COMMON NAME
Coleoptera (Beetles)	Cantharidae	Soldier beetle
	Lycidae	Net-winged beetle
	Buprestidae	Metallic wood-boring beetle
	Staphylinidae	Rove beetle
	Erotylidae	Pleasing fungus beetle
	Nitidulidae	Sap beetle
	Coccinellidae	Ladybird beetle
	Tenebrionidae	Darkling beetle
	Meloidae	Blister beetle
	Cerambycidae	Long-horned beetle
	Lucanidae	Stag beetle
	Scarabaeidae	Scarab beetle
	Chrysomelidae	Leaf beetle
	Curulionidae	Weevil
	Dermestidae	Dermestid beetle
	Lepidoptera (Butterflies, moths)	Papilionidae
Lycaenidae		Copper
Hesperiidae		Skipper
Pieridae		White, sulphur, and orange
Nymphalidae		Brush-footed butterfly
Satyridae		Satyr, nymph, and artic
Noctuidae		Noctuid moth
Sphingidae		Sphinx moth
Saturniidae		Giant silkworm moth
Gelechiidae		Gelechiid moth
Geometridae		Measuring worms
Pterophoridae		Plume moth
Diptera (Flies)	Tabanidae	Horse and deer flies
	Therevidae	Stiletto fly
	Asilidae	Robber fly
	Bombyliidae	Bee fly
	Syrphidae	Hover fly
	Tachinidae	Tachinid fly
Hymenoptera (Bees, ants, wasps)	Ichneumonidae	Ichneumonid wasp
	Cynipidae	Gall wasp
	Mutillidae	Velvet ant
	Scoliidae	Scoliid wasp
	Formicidae	Ant

Table 7. Terrestrial Insects at LANL and Surrounding Areas (cont.)

ORDER	FAMILY	COMMON NAME
Hymenoptera (Bees, ants, wasps)	Pompilidae	Spider wasp
	Eumenidae	Euminid wasp
	Vespidae	Vespid wasp
	Sphecidae	Sphecid wasp
	Halictidae	Metallic wasp
	Megachilidae	Leafcutting bee
	Apidae	Honey and bumble bees

Table 8. Non-Insect Terrestrial Arthropods

Class/Order	Family	
Chilopoda (centipedes)	Geophilidae	
	Lithobiidae	
Diplopoda (millipedes)	Julidae	
Arachnida/Acarina (spiders/mites)	Anystis	
	Ascidae	
	Bdellidae	
	Bryobiidae	
	Calligonellidae	
	Cryptognathidae	
	Cunaxidae	
	Erythraeidae	
	Eupodidae	
	Gymnodamaeidae	
	Laelapidae	
	Nanorchestidae	
	Paratydaeidae	
	Phytoseiidae	
	Rhagidiidae	
	Rhaphignathidae	
	Scutacaridae	
	Stigmaeidae	
	Tenuipalpidae	
	Terpnacaridae	
	Trombidiidae	
	Tydeidae	
	Tarsonemidae	
	Zerconidae	
	Arachnida/Araneida	Agelenidae
		Amaurobiidae
		Anyphaenidae
Araneidae		
Clubionidae		
Dictynidae		
Gnaphosidae		
Hahniidae		
Linyphiidae		
Lycosidae		
Micryphantidae		
Miryphantidae		
Oonopidae		
Pholcidae		
Tetragnathidae		
Arachnida/Opiliones	Salticidae	
	Theridiidae	
	Thomisidae	
	Phalangiiidae	

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Collembola (Springtails)				
Plecoptera (Stoneflies)	Capniidae	<i>Capnia</i>		F
	Capniidae			F, L
	Chloroperlidae	<i>Chloroperla</i>		F
	Chloroperlidae	<i>Paraperla</i>	<i>frontalis</i>	G, L
	Chloroperlidae	<i>Paraperla</i>		F
	Chloroperlidae	<i>Sweltsa</i>	<i>coloradensis</i>	F
	Chloroperlidae	<i>Sweltsa a</i>	<i>lamba</i>	F
	Chloroperlidae			F, G, L, P, SG
	Chloroperlidae	<i>Suwallia</i>		G, L
	Leuctridae	<i>Despoxia</i>		G
	Leuctridae	<i>Paraleuctra</i>	<i>vershina</i>	F
	Nemouridae	<i>Amphinemura</i>		F, G
	Nemouridae	<i>Amphinemura</i>	<i>banksi</i>	F, G, L, P, SG
	Nemouridae	<i>Malenka</i>	<i>coloradensis</i>	F
	Nemouridae	<i>Malenka</i>		G, L
	Nemouridae	<i>Nemoura</i>		F, G
	Nemouridae	<i>Podmosta</i>	<i>delicatula</i>	G, L, S
	Nemouridae	<i>Zapada</i>	<i>cinctipes</i>	F, L
	Nemouridae	<i>Zapada</i>	<i>frigida</i>	L
	Perlidae	<i>Acroneuria</i>	<i>abnormis</i>	F
	Perlidae	<i>Hesperoperla</i>	<i>pacifica</i>	F, L, SG
	Perlodidae	<i>Cultus</i>	<i>aestivalis</i>	G, L
	Perlodidae	<i>Isoperla</i>	<i>fulva</i>	F
	Perlodidae	<i>Isoperla</i>	<i>quinquepuncta</i> <i>ta</i>	F
	Perlodidae	<i>Isoperla</i>		F, G, L, S
	Perlodidae	<i>Kogotus</i>	<i>modestus</i>	G, L
	Perlodidae	<i>Skwala</i>	<i>parallela</i>	G
	Pteronarcyidae	<i>Pteronarcella</i>	<i>badia</i>	F, G
	Pteronarcyidae	<i>Pteronarcella</i>		F
	Pteronarcyidae	<i>Pteronarcys</i>	<i>californica</i>	G
	Pteronarcyidae	<i>Pteronarcys</i>		G
	Taeniopterygidae	<i>Taenionema</i>		F
Ephemeroptera (Mayflies)	Baetidae	<i>Acentrella</i>	<i>insignificans</i>	F
	Baetidae	<i>Baetis</i>	<i>bicaudatus</i>	F
	Baetidae	<i>Baetis</i>	<i>tricaudatus</i>	A, D, F, G, L, PS, RS, S
		<i>Baetis</i>		A, C, F, G, H, L, P, PS, S, SG, 128

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
	Baetidae	<i>Callibaetis</i>		G, L, P, PS, S, RS, 48
	Ephemerellidae	<i>Drunella</i>	<i>coloradensis</i>	G, L
	Ephemerellidae	<i>Drunella</i>	<i>doddsi</i>	F, G
	Ephemerellidae	<i>Drunella</i>	<i>grandis</i>	F, G
	Ephemerellidae	<i>Ephemerella</i>	<i>doddsi</i>	G
	Ephemerellidae	<i>Ephemerella</i>	<i>inermis</i>	F, G, L
	Ephemerellidae	<i>Ephemerella</i>	<i>infrequens</i>	F, G
	Ephemerellidae	<i>Ephemerella</i>		F
	Heptageniidae	<i>Cinygmula</i>		G, L
	Heptageniidae	<i>Epeorus</i>	<i>longimanus</i>	F, G, L
	Heptageniidae	<i>Epeorus</i>		F, G, L
	Heptageniidae	<i>Heptagenia</i>		G
	Heptageniidae	<i>Nixe</i>	<i>simplicoides</i>	L
	Heptageniidae	<i>Rhithrogena</i>		F, G
	Leptophlebiidae	<i>Paraleptophlebia</i>		F, G, L
	Siphonuridae	<i>Ameletus</i>		F, G, L, S, SG
	Siphonuridae	<i>Siphonurus</i>	<i>occidentalis</i>	F, L
	Siphonuridae	<i>Siphonurus</i>		F
	Tricorythidae	<i>Tricorythodes</i>	<i>minutus</i>	S
Odonata				
suborder Anisoptera (Dragonflies)	Aeshnidae	<i>Aeshna</i>		A, C, F, I, S
	Aeshnidae	<i>Anax</i>		H, P, S, 48
	Aeshnidae	<i>Boyeria</i>		L, S
	Cordulegastridae	<i>Cordulegaster</i>		F, S
	Corduliidae	<i>Belonia</i>		A, C, P
	Corduliidae	<i>Neurocordulia</i>		RS
	Gomphidae			L, P
	Libellulidae	<i>Leucorrhina</i>		I
	Libellulidae	<i>Libellula</i>		
	Libellulidae	<i>Pantala</i>		A, C
	Libellulidae	<i>Platyhemis</i>		P
	Libellulidae	<i>Sympetrum</i>		PS
	Libellulidae			A, F, PS
suborder Zygoptera (Damselflies)	Agriidae	<i>Argion</i>		A
	Agriidae	<i>Hetaerina</i>		A, PS, RS
	Coenagriidae	<i>Argia</i>		A, C, F, P, RS, S, PS
	Coenagriidae	<i>Enallagma</i>		I, S
	Coenagriidae	<i>Hyponeura</i>		F
	Coenagriidae	<i>Ishnura</i>	<i>perparua</i>	F
	Coenagriidae	<i>Ishmura</i>		H, S
	Coenagriidae	<i>Zoniagrion</i>		S

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
suborder Zygoptera (Damselflies)	Lestidae	<i>Archilestes</i>		PS, RS, S
	Lestidae	<i>Lestes</i>		A, C, S
Hemiptera (True bugs)	Corixidae	<i>Corisella</i>		F
	Corixidae	<i>Sigara</i>		F
	Corixidae	<i>Trichocorixa</i>		A, P, S
	Gerridae	<i>Gerris</i>	<i>marginatus</i>	F
	Gerridae	<i>Gerris</i>	<i>notabilis</i>	F
	Gerridae	<i>Gerris</i>		A, D, F, G, H, I, L, PS, RS, S
	Gerridae	<i>Metrobates</i>		PS
	Gerridae	<i>Trepobates</i>		H, S
	Naucoridae	<i>Ambrysus</i>	<i>mormon</i>	A, C, PS, RS
	Notonectidae	<i>Notonecta</i>	<i>undulata</i>	F
	Notonectidae	<i>Notonecta</i>		C, S
	Salididae			RS
	Veliidae	<i>Microvelia</i>		A, F, G, L
	Veliidae	<i>Rhagovelia</i>		A, S
	Veliidae			A, PS
Trichoptera (Caddisflies)	Brachycentridae	<i>Amiocentrus</i>		F
	Brachycentridae	<i>Brachycentrus</i>	<i>americanus</i>	F
	Brachycentridae	<i>Brachycentrus</i>		F
	Brachycentridae	<i>Micrasema</i>		F, G, L
	Brachycentridae pupae	<i>Micrasema</i>		G
	Calamoceratidae	<i>Phylloicus</i>		F
	Glossosomatidae	<i>Agapetus</i>		G
	Glossosomatidae	<i>Anagapetus</i>		G
	Glossosomatidae	<i>Glossosoma</i>		F, G, L
	Glossosomatidae pupae	<i>Glossosoma</i>		G
	Helicosychidae	<i>Helicopsyche</i>	<i>borealis</i>	A, F, G, L, PS, R, S
	Helicosychidae	<i>Helicopsyche</i>		F
	Hydropsychidae	<i>Arctopsyche</i>	<i>grandis</i>	A, F, G, L, S, PS
	Hydropsychidae	<i>Cheumatopsyche</i>		G, PS, RS
	Hydropsychidae	<i>Hydropsyche</i>	<i>occidentalis</i>	PS
	Hydropsychidae	<i>Hydropsyche</i>	<i>oslari</i>	A, F, RS, S
	Hydroptilidae	<i>Alisotrichia</i>		PS
	Hydroptilidae	<i>Hydroptila</i>		A, P, PS, RS, S
	Hydroptilidae	<i>Leucotrichia</i>		PS

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Trichoptera (Caddisflies)	Hydroptilidae	<i>Ochrotrichia</i>		S
	Hydroptilidae	<i>Stactobiella</i>		A, L, PS, RS
	Lepidostomatidae	<i>Lepidostoma</i>		F, G, L, S, SG
	Lepidostomatidae			G
	Leptoceridae	<i>Oecetis ?</i>		G, L, P, S
	Limnephilidae	<i>Dicosmoecus</i>		F
	Limnephilidae	<i>Hesperophylax</i>		G, L, P, RS, S, SG
	Limnephilidae pupae	<i>Hesperophylax</i>		G, L
	Limnephilidae	<i>Limnephilus</i>		F, G, L, PW, RS, S
	Limnephilidae	<i>Oligophlebodes</i>		F, G, L, PS
	Limnephilidae pupae	<i>Oligophlebodes</i>		G
	Limnephilidae	<i>Psychoronia</i>		F, G
	Odontoceridae	<i>Namamyia</i>		G
	Philopotamidae	<i>Chimarra</i>		A, PS, RS
	Philopotamidae	<i>Dolophilodes</i>	<i>aequalis</i>	F
	Philopotamidae	<i>Dolophilodes</i>	<i>sortosa</i>	F, G
	Philopotamidae	<i>Dolophilodes</i>		G, L
	Philopotamidae	<i>Wormaldia</i>		F, PS, RS
	Polycentropidae	<i>Polycentropus</i>		F, RS
	Rhyacophilidae	<i>Atopsyche</i>		L
	Rhyacophilidae	<i>Rhyacophila</i>	<i>acropedes</i>	F, G
	Rhyacophilidae	<i>Rhyacophila</i>	<i>brunea</i> complex	F, G, L
	Rhyacophilidae	<i>Rhyacophila</i>	<i>coloradensis</i>	F
	Rhyacophilidae	<i>Rhyacophila</i>	<i>hyalinata</i>	F, G
	Rhyacophilidae	<i>Rhyacophila</i>	<i>valuma</i>	F, G
	Rhyacophilidae	<i>Rhyacophila</i>		F
	Rhyacophilidae	<i>Rhyacophila</i>	Type A	A
	Sericostomatidae	<i>Gumaga</i>		RS
Megaloptera (Nerve- wings)	Corydalidae	<i>Neohermes?</i>		G, L
Lepidoptera (Butterflies, moths)	Noctuidae			G, L, PS
	Pyralidae			G, S
	Pyralidae	<i>Paraponyx</i>		PS
	Pyralidae	<i>Paragyraetis</i>	<i>kearfottalis</i>	F, PS
	Pyralidae	<i>Petrophila</i>		PS, RS, S
Coleoptera (Beetles)	Amphizoidae	<i>Amphizoa</i>		G
	Curculionidae	<i>Phytonomus</i>		G, L, S
	Curculionidae			D, F

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Coleoptera (Beetles)	Curculionidae adult			G
	Dryopidae	<i>Helichus</i>	<i>suturalis</i>	F
	Dryopidae	<i>Helichus</i>	<i>striatus</i>	F
	Dryopidae adult	<i>Helichus</i>		F, G, L, S, P, PS, RS
	Dytiscidae	<i>Agabus</i>		A, C, D, L, P, RS, S
	Dytiscidae	<i>Agabus</i>	<i>cordatus</i>	F
	Dytiscidae	<i>Agabus</i>	<i>tristus</i>	F
	Dytiscidae	<i>Deronectes</i>	<i>striatellus</i>	F
	Dytiscidae	<i>Deronectes</i>		L
	Dytiscidae	<i>Dytiscus</i>		F
	Dytiscidae	<i>Hydroporus</i>	<i>vilis</i>	F
	Dytiscidae	<i>Hydroporus</i>		S
	Dytiscidae	<i>Hygrotus</i>		S
	Dytiscidae	<i>Rhantus</i>		RS
	Dytiscidae			L, RS, S
	Dytiscidae adult			G, L, PS, S
	Dytiscidae adult		Type A	M, S
	Dytiscidae adult		Type B	M, S
	Dytiscidae adult		Type C	S
	Dytiscidae adult	<i>Hydaticus</i>		G, L, PS, S
	Elmidae	<i>Cleptelmis</i>	<i>addenda</i>	F
	Elmidae	<i>Cylloepus</i>		F
	Elmidae	<i>Dubiraphia</i>		G
	Elmidae	<i>Heterelmis</i>		A, RS
	Elmidae	<i>Heterlimnius</i>	<i>corpulentis</i>	F, G, L, PS, RS, S, SG
	Elmidae adult	<i>Heterlimnius</i>	<i>corpulentis</i>	G, L, PS, SG
	Elmidae	<i>Microcylloepus</i>		PS, RS
	Elmidae	<i>Narpus</i>	<i>concolor</i>	F
	Elmidae	<i>Narpus</i>		F, G, L
	Elmidae adult	<i>Narpus</i>		G, L
	Elmidae	<i>Optioservus</i>	<i>castanipennis</i>	F
	Elmidae	<i>Optioservus</i>	<i>divergens</i>	F
	Elmidae	<i>Optioservus</i>		D, F, L, PS, S
	Elmidae	<i>Rhizelmis</i>		F
	Elmidae	<i>Zaitzevia</i>	<i>parvula</i>	D, F, L
	Elmidae adult	<i>Zaitzevia</i>		C, G, L, S
	Elmidae			G, L, S

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Coleoptera (Beetles)	Elmidae adult			G, L, S
	Gyrinidae	<i>Gyrinus</i>		A, F, S, PS, RS
	Haliplidae	<i>Haliplus</i>		IC
	Haliplidae	<i>Peltodytes</i>		G
	Helodidae	<i>Prionocyphon</i>		G
	Hydrophilidae	<i>Ametor</i>	<i>scabrosus</i>	F
	Hydrophilidae	<i>Ametor</i>		A, C, G, L, S
	Hydrophilidae adult	<i>Ametor</i>		G
	Hydrophilidae	<i>Berosus</i>	<i>styliferous</i>	F
	Hydrophilidae	<i>Crenitis</i>		F
	Hydrophilidae	<i>Cymbiodyta</i>	<i>dorsalis</i>	F
	Hydrophilidae	<i>Enochrus ?</i>		G
	Hydrophilidae	<i>Helphorus</i>		L
	Hydrophilidae	<i>Hydrobius</i>		L
	Hydrophilidae	<i>Hydrochus</i>		G
	Hydrophilidae adult	<i>Hydrochus</i>		G
	Hydrophilidae			G, L, P, RS, S
	Hydrophilidae adult			G
	Psephenidae	<i>Psphenus ?</i>		C, P, 48
	Psephenidae			G
Diptera (Flies)	Blephariceridae			F
	Ceratopogonidae (Heleidae)	<i>Bezzia</i>		G, L, RS, S
	Ceratopogonidae (Heleidae)	<i>Culicoides ?</i>		RS
	Ceratopogonidae (Heleidae)			F, G, P, S, PS
	Chironomidae	<i>Ablabesmyia</i>		F, RS
	Chironomidae	<i>Brillia</i>		F, G, L, S
	Chironomidae	<i>Cardiocladius</i>		F, G, S
	Chironomidae	<i>Chaetocladius</i>		S
	Chironomidae	<i>Chironomus</i>		F
	Chironomidae	<i>Corynoneura</i>		A, G, L, PS, RS
	Chironomidae	<i>Cricotopus</i>		F, RS
	Chironomidae	<i>Chironomus</i>		F
	Chironomidae	<i>Corynoneura</i>		A, G, L, PS, RS
	Chironomidae	<i>Cricotopus</i>		A, F, G, PS, RS, S

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Diptera (Flies)	Chironomidae	<i>Cryptochironomus</i>		F
	Chironomidae	<i>Cryptotendipes</i>		A
	Chironomidae	<i>Diamesa</i>		S
	Chironomidae	<i>Eukiefferiella</i>		A, F, G, L, S
	Chironomidae	<i>Labrundinia</i>		RS
	Chironomidae	<i>Micropsectra</i>		A, F, L, RS, PS
	Chironomidae	<i>Microtendipes</i>		D, F
	Chironomidae	<i>Nanocladius</i>		F
	Chironomidae	<i>Nostocladius</i>		A, F, G, PS
	Chironomidae	<i>Nostococladius</i>		A, F, G, PS
	Chironomidae	<i>Orthocladius</i>		A, F, PS, RS, S
	Chironomidae	<i>Pagastia</i>		L, S
	Chironomidae	<i>Parametriocnemus</i>		L, RS, S
	Chironomidae	<i>Paraphaenocladus</i>		S
	Chironomidae	<i>Phaenopsectra</i> ?		RS
	Chironomidae	<i>Polypedilum</i>		A, F
	Chironomidae	<i>Procladius</i>		F, RS
	Chironomidae	<i>Pseudochironomus</i>		A, RS
	Chironomidae	<i>Pseudosmittia</i>		G
	Chironomidae	<i>Rheotanytarsus</i>		A, F, PS, RS
	Chironomidae	<i>Stempellina</i>		G
	Chironomidae	<i>Stempelinealla</i> ?		L
	Chironomidae	<i>Thienemannimyia</i>		A, L, RS, S
	Chironomidae	<i>Thienimanniella</i>		A
	Chironomidae	<i>Tvetenia</i>		F, L, PS, S
	Chironomidae	<i>Zavrelia</i>		F
	Chironomidae	<i>Zavrelimyia</i>		RS
	Chironomidae, Macropelopini			L, RS
	Chironomidae, Orthoclaadiinae			A, L, PS, RS
	Chironomidae		Type A	C, G, H, L, P, PS, S, SG, 128
	Chironomidae		Type B	G, L, P, S, PS
	Chironomidae		Type C	G, H, L, P, S, 128
	Chironomidae		Type D	G, L, P, S, PS
	Chironomidae		Type E	G, L, PS
	Chironomidae		Type F	G, L, S

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Diptera (Flies)	Chironomidae		Type G	A, C, G, H, L, P, PS, S
	Chironomidae pupae		Type G	G
	Chironomidae		Type H	L, S
	Chironomidae		Type I	SG
	Chironomidae		Type M	RS
	Chironomidae		Type P	G
	Chironomidae		Type R	L
	Chironomidae pupae			C, G, I, L, S
	Chironomidae		Type PA	G, L
	Chironomidae		Type PB	S
	Chironomidae pupae		Type PC	S
	Culicidae	<i>Aedes</i>		F
	Culicidae	<i>Chaoborus</i>		I, 48
	Culicidae	<i>Culex</i>		F, H, RS, 128
	Culicidae	<i>Culiseta</i>		D, H, M, 48, 128
	Dixidae	<i>Dixa</i>		F, G, L, PS, RS
	Dixidae	<i>Dixa</i>	<i>californica</i>	F
	Dixidae		Type A	G, L, P, PS
	Dixidae			F, G, L, PS, RS
	Empididae	<i>Chelifera</i>		F, G, L, RS, S
	Empididae	<i>Oreogeton</i>		C, F, G, L, P, S
	Empididae			A, H
	Empididae pupae	<i>Hemerodromia</i>		G, S
	Ephydriidae	<i>Brachydeutera</i>		S
	Ephydriidae pupae			S
	Heleidae			C, P
	Muscidae	<i>Limnophora</i>	<i>aequifrons</i>	F
	Muscidae	<i>Limnophora</i>		A, D, L, S, SG
	Muscidae			RS, S
	Psychodidae	<i>Maruina</i>		G, L, PS, RS, S
	Psychodidae	<i>Pericome</i>		F, G, L
	Psychodidae pupae			S

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

INSECTS				
ORDER (COMMON NAME)	FAMILY	GENUS	SPECIES	LOCATION*
Diptera (Flies)	Ptychopteridae	<i>Bittocomorpha</i>		A, G, L, S
	Ptychopteridae			G
	Simulidae			D, F, G, L, S, SG
	Simulidae			A, F, G, L, S
	Simulidae			A, F, G, L, PS, RS, S
	Simulidae pupae			G, L, S
	Simulidae pupae		Type PA	G
	Stratiomyidae			F
	Stratiomyidae			G, PS, S
	Syrphidae		<i>bastardii</i>	F
	Tabanidae			F, G, L, S
	Tabanidae			H, M
	Tabanidae			PW, S, 128
	Tanyderidae			F
	Tipulidae			G, L, S
	Tipulidae		<i>monticola</i>	F, G
	Tipulidae			F, G, L, PS, S, SG
	Tipulidae			F, L, RS
	Tipulidae		<i>grandis</i>	F
	Tipulidae			RS
	Tipulidae			F, RS, S
	Tipulidae			F, L
	Tipulidae			D, F, G, L, PS, RS, S
	Tipulidae		Type B	G, L, RS, S
	Tipulidae			G, RS
NON-INSECTS				
PHYLUM or SUBPHYLUM (COMMON NAME)	CLASS, ETC.	COMMON NAME	LOCATION*	
Annelida (Segmented worms)	Hirudinea	Leech	A, F	
	Megadrilli		RS	
	Oligochaeta, Lumbriculidae <i>Eiseniella tetraedra</i>	Aquatic earthworms	F	
	Oligochaeta, Lumbriculidae	Aquatic earthworms	A, F, G, L, PS, RS, S, SG	
	Oligochaeta B, Lumbriculidae	Aquatic earthworms	G	

Table 9. Aquatic Invertebrates at LANL and Adjacent Areas (cont.)

PHYLUM or SUBPHYLUM (COMMON NAME)	CLASS, ETC.	COMMO N NAME	LOCATION
Annelida (Segmented worms)	Oligochaeta, Naididae	Coil worms	F, G, L, RS, S
	Oligochaeta, Tubificidae	Tubifex worms	RS, S
Arthropoda, Arachnodea (spiders, ticks, and mites)	family Hydracarina	Water mites	C, F, G, L, PS, S
Aschelminthes (round worms and hairworms)	Nematomorpha	Horsehair worm	C, F, G, L, P, S
	Nematomorpha, Gordioidea, Gordiidae, <i>Gordius</i>	Horsehair worm	F, G
Crustacea (crustaceans)	Amphipoda, Gammaridae, <i>Gammarus</i>	Scuds	RS
	Amphipoda, Talidridae, <i>Hyatella azteca</i>	Scuds	A, C, PS, RS
	Cladocera	Water fleas	O
	Copepoda	Copepods	S
	Ostracoda	Seed shrimp	C, RS, S, SG
Mollusca (mollusks)	Lymnaeidae, <i>Lymnaea</i>	Snails	A, G, L, P, RS, S
	Physidae, <i>Physella gyrina</i>	Snails	A, F, RS
	Physidae, <i>Physella</i>	Snails	A
	Physidae, <i>Physa</i>	Snails	F, S
	Planorbidae, <i>Gyrulus parvus</i>	Snails	G, IC, S
	Sphaeriidae, <i>Pisidium casertanum</i>	Clams	F, G, L, PS, RS
	Sphaeriidae, <i>Pisidium compressa</i>	Clams	H
	Gastropoda	Snails	SG
	Gastropoda, Type A	Snails	G, L
Nematoda (round worms)		Free-living roundworm	F, G, L, PS, RS
Platyhelminthes (flat worms)	Turbellaria	Planaria	A, C, F, G, L, PS, RS, S, SG

*Location: All specimens are larvae unless otherwise noted. Locations: A = Ancho Canyon, C = Chaquehui Canyon, D = DP Canyon, F = Rio Frijoles and Frijoles Canyon, G = Guaje Canyon, H = High explosives wastewater stream, I = Ice house pond off West Jemez Road, L = Los Alamos Canyon, O = Otowi firestation pond, M = Mortandad Canyon, PW = Pajarito Wetlands, PS = Pajarito Springs, RS = Rio Springs, S = Sandia Canyon, SG = Starmer's Gulch, 48 = TA-48 pond, 128 = outfall 128

REFERENCES

- Banar, A., "Biological Assessment for Environmental Restoration Program, Operable Unit 1157; TA-8, TA-9, TA-23, and TA-69," Los Alamos National Laboratory report LA-UR-93-4184 (1996).
- Banar, A., "Biological Assessment for Environmental Restoration Program, Operable Unit 1148; TA-54 and TA-51," Los Alamos National Laboratory report LA-UR-93-1054 (1996).
- Benson, J., S. Cross, and T. Foxx, "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program; Operable Unit 1085; TAs 14 and 67," Los Alamos National Laboratory report LA-UR-95-648 (1996).
- Biggs, J. R., "Biological and Floodplain/Wetlands Assessment for Environmental Restoration Program, Operable Unit 1071, TAs 0, 19, 26, 73 and 74," Los Alamos National Laboratory report LA-UR-93-1168 (1996a).
- Biggs, J. R., "Biological Assessment for Environmental Restoration Program, Operable Unit 1079, TAs 10, 31, 32, and 45," Los Alamos National Laboratory report LA-UR-93-1169 (1996b).
- Biggs, J. R., "Biological Information Document for the Radioactive Liquid Waste Treatment Facility," Los Alamos National Laboratory report LA-UR-95-2681 (1995).
- Biggs, J., and S. Cross, "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program; Operable Unit 1140; TA-46," Los Alamos National Laboratory report LA-UR-95-3716 (1995).
- Biggs, J. R., K. D. Bennett, and P. R. Fresquez, "Radionuclide Contaminant Analysis of Small Mammals at Area G, Technical Area 54, 1996 (With Cumulative Summary for 1994–1996)," Los Alamos National Laboratory report LA-13345-MS (1996).
- Bogan, M. A., T. J. O'Shea, P. M. Cryan, A. M. Ditto, W. H. Schaedla, and L. Ellison, "Status and Trends of Bat Populations at Los Alamos National Laboratory and Bandelier National Monument, Jemez Mountains, New Mexico," Los Alamos National Laboratory report LA-UR-96-3526 (1996).
- Bogart, C., "The Amphibians and Reptiles of the Los Alamos National Environmental Research Park," Los Alamos Scientific Laboratory unpublished report (1978).
- Bowen, B. M., "Los Alamos Climatology," Los Alamos National Laboratory report LA-11735-MS (1990).
- Bowker, R. G., and R. W. Ferenbaugh, "Temperature Regulation and Energetics of Lizards," in: Annual Environmental Surveillance Report, Los Alamos National Laboratory (1982).
- Cowardin, L. M., V. Carter, F. C. Glet, and E. T. LaRoe, "Classification of Wetlands and Deep-Water Habitats of the United States," US Fish and Wildlife Service publication FWS/OBS-79/31 (1979).

Cross, S., "Biological Evaluation for Environmental Restoration Program; Operable Unit 1114; Technical Areas 3, 30, 59, 60, 61, and 64," Los Alamos National Laboratory report LA-UR-94-21 (1996).

Cross, S., "Biological Assessment for Environmental Restoration Program; Operable Unit 1130; TAs 36, 68, and 71," Los Alamos National Laboratory report LA-UR-94-26 (1996).

Cross, S., Aquatic Macroinvertebrates and Water Quality of Sandia Canyon, Los Alamos National Laboratory, November 1993 to October 1994," Los Alamos National Laboratory report LA-12971-SR (1995).

Cross, S. P., and J. Davila, "Aquatic Macroinvertebrates and Water Quality in Guaje and Los Alamos Canyons, 1995," Los Alamos National Laboratory report LA-UR-95-998 (1996).

Cross, S., and H. Nottelman, "Aquatic Macroinvertebrates and Water Quality of Sandia Canyon, Los Alamos National Laboratory report LA-UR-96-3684 (1996).

Dunham, D., "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program; Operable Unit 1129; TAs -4, -5, -35, -42, -48, -52, -55, 63, and -66; and Operable Unit 1147, TA-50," Los Alamos National Laboratory report LA-UR-93-1055 (1996).

Dunham, D., "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program; Operable Unit 1132; TA-39," Los Alamos National Laboratory report LA-UR-95-204 (1995).

Dunke, F., R. Hamner, R. Page, and W. Scaling, "Federal Manual for Identifying and Delineating Jurisdictional Wetlands," An Interagency Cooperative Publication, US Army Corps of Engineers and US Environmental Protection Agency, (US Fish and Wildlife Service 1989).

Edeskuty, B., T. S. Foxx, and D. F. Raymer, "Potential Use of NPDES Outfalls for Wildlife Watering," Los Alamos National Laboratory unpublished report (1992).

Environmental Surveillance Group, "Environmental Surveillance at Los Alamos during 1988," Los Alamos National Laboratory report LA-11628 (1988).

Felthausen, M., "Summary of Small Mammal Trapping," Los Alamos Scientific Laboratory unpublished report (1980).

Foxx, T. S., "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program; Operable Unit 1122; TA-33 and TA-70," Los Alamos National Laboratory report LA-UR-93-106 (1996).

Foxx, T. S., "Biological Survey of Area L," Los Alamos National Laboratory unpublished data (1985).

Foxx, T. S., A. Banar, K. Bennett, J. Biggs, S. Cross, D. Dunham, T. Haarmann, M. Salisbury, and D. Keller, "Ecological Baseline Studies in Los Alamos and Guaje Canyons, County of Los Alamos, New Mexico; A Two-Year Study," Los Alamos National Laboratory report LA-13065 (1995).

Foxx, T. S., and G. D. Tierney, "Status of the Flora of the Los Alamos National Environmental Research Park," Los Alamos Scientific Laboratory report LA-8050-NERP Vol. I (1980).

Foxx, T. S., and G. D. Tierney, "Status of the Flora of the Los Alamos National Environmental Research Park, A Historical Perspective" Los Alamos National Laboratory report LA-8050-NERP Vol. II (1984).

Foxx, T. S., and G. D. Tierney, "Vegetation/Ecology Survey of Upper Mesita del Buey, Areas L and J TRU-Waste Plant," Los Alamos National Laboratory unpublished data (1987).

Foxx, T. S., L. Pierce, G. D. Tierney, and L. A. Hansen, "Annotated Checklist and Database for Vascular Plants of the Jemez Mountains," Los Alamos National Laboratory report LA-UR-96-3542 (1996).

Foxx, T. S., L. Pierce, G. D. Tierney, and L. A. Hansen, "Annotated Checklist and Database for Vascular Plants of the Jemez Mountains," Los Alamos National Laboratory report in preparation (1997).

Guthrie, D. A., "Ecological Assessment of the Lower Canyons, Bandelier National Monument," Bandelier National Monument report (1975).

Guthrie, D. A., "Effects of Fire on Small Mammals within Bandelier National Monument," in *La Mesa Fire Symposium*, Los Alamos National Laboratory report LA-9236-NERP (1981).

Guthrie, D. A., and N. Large, "Mammals of Bandelier National Monument, New Mexico," National Park Service report PX7029-7-0807 (1980).

Hansen, L. A., R. Robinson, P. Fresquez, and J. Huchton, "Movements of and Contaminants in Medium-Sized Mammals around a Liquid Waste Lagoon at Los Alamos National Laboratory," Los Alamos National Laboratory abstract LA-UR-97-3754 submitted to The Second Symposium of Biological Research in the Jemez Mountains, New Mexico (1997).

Jarmie, N., and F. J. Rogers, "A Survey of Los Alamos County and Bandelier National Monument for Macroscopic Fungi," Los Alamos National Laboratory report LA-UR-96-3581 (1996).

Jarmie, N., and F. J. Rogers, "A Survey of Macromycete Diversity at Los Alamos National Laboratory, Bandelier National Monument, and Los Alamos County; A Preliminary Report," Los Alamos National Laboratory report LA-13384-MS (1997).

Johnson, T. H., "Biological Assessment of the Effects of the Proposed Santa Fe-Los Alamos Highway on the Whooping Crane, Bald Eagle, and Peregrine Falcon," Los Alamos National Laboratory unpublished report (1985).

Johnson, T. H., "The Bald Eagle near Cochiti Reservoir: 1986–1988," US Army Corp of Engineers report (1988).

Keller, D. C., "Survey for Southwestern Willow Flycatcher, 1995–1997," Los Alamos National Laboratory report in preparation (1997).

Keller, D. C., J. R. Biggs, and T. H. Johnson, "Threatened and Endangered Species Surveys and Habitat Management at Los Alamos National Laboratory (National Environmental Research Park)," Los Alamos National Laboratory report LA-UR-96-3444 (1996).

Kent, J., "Small Mammal Survey in Mortandad Canyon," Los Alamos National Laboratory unpublished data (1986).

Kent, J., "Small Mammal Survey," Los Alamos National Laboratory unpublished data (1981).

Kent, J., and Hickman, "Breeding Bird Census," Los Alamos National Laboratory unpublished data (1986).

Koch, S. W., T. K. Budge, S. G. Ferran, L. F. Sandoval, M. A. Mullen, K. D. Bennett, and R. G. Balice, "Preliminary Land Cover Map for Los Alamos National Laboratory," Los Alamos National Laboratory report LA-UR-96-3362 (1996).

Lochner, H. W., "Biological Resources Assessment, Santa Fe-Los Alamos Transportation Corridor Study," in cooperation with the New Mexico State Highway and Transportation Department and the Federal Highway Administration (1990).

MacKay, W., D. Lowrie, A. Fisher, E. MacKay, F. Barnes, and D. Lowrie, "The Ants of Los Alamos County, New Mexico (*Hymenoptera Formicidae*)," Los Alamos National Laboratory unpublished report (1986).

Martin, W. C., and C. H. Hutchins, *A Flora of New Mexico*, (J. Cramer, Germany 1980).

Moeur, S., and D. A. Guthrie, "The Effects of Clearing Fire-Killed Trees on Wildlife," in *La Mesa Fire Symposium*, Los Alamos National Laboratory report LA-9233-NERP (1981).

Morrison, J., "Small Mammal Trapping in Water Canyon," Los Alamos National Laboratory unpublished data (1986).

Morrison, J., "Small Mammal Surveys," Los Alamos National Laboratory unpublished data (1990).

New Mexico Birding, <http://www.interaktv.com/NM/NMBirds.html> (1997).

New Mexico Species List, <http://www.fw.vt.edu/fishex/states/nm.htm> (1997).

Potter, L. D., and T. S. Foxx, "Recovery and Delayed Mortality of Ponderosa Pine after Wildfire," Los Alamos Scientific Laboratory report under contract no. 16-608-GR EC-291, Part 1 (1979).

Raymer, D. F., "Biological and Floodplain/Wetland Assessment for Environmental Restoration Program, Operable Unit 1082, TAs 11, 13, 16, 24, 37, and 38," Los Alamos National Laboratory report LA-UR-93-4182 (1996).

Raymer, D. F., "Biological Assessment for Environmental Restoration Program; Operable Unit 1144; Technical Area 49," Los Alamos National Laboratory report LA-UR-93-105 (1996).

- Raymer, D., and J. Biggs, "Comparison of Small Mammal Species Diversity near Wastewater Outfalls, Natural Streams, and Dry Canyons," Los Alamos National Laboratory report LA-12725-MS (1994).
- Tierney, G. D., and T. S. Foxx, "Floristic Composition and Plant Succession on Near Surface Radioactive Waste Disposal Sites," Los Alamos National Laboratory report LA-9219-MS (1982).
- Travis, J. R., "Atlas of the Breeding Birds of Los Alamos County," Los Alamos National Laboratory report LA-12206 (1992).
- Tyrell, K., and V. Brack, "Survey for Bats in the Los Alamos National Environmental Research Park with Special Emphasis on the Spotted Bat, *Euderma maculatum*," 3-D Environmental Services, Inc., project report (1992).
- Wauer, R. H., and T. Johnson, "La Mesa Fire Effect on Avifauna," in *La Mesa Fire Symposium*, Los Alamos National Laboratory report LA-9236-NERP (1981).
- Wenzel, W. J., and J. S. Kent, "Initial Fauna Study in Potrillo Canyon," Los Alamos National Laboratory memorandum 4/3/86 (1986).
- Wright, B. R., "Small Mammal Populations on Los Alamos National Laboratory Land Burned by the La Mesa Fire," Los Alamos National Laboratory unpublished data (1981).

