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## Biota of Lake Mead: Annotated checklist and bibliography

Wesley E. Niles

*University of Nevada, Las Vegas*

Charles L. Douglas

*University of Nevada, Las Vegas*

National Park Service

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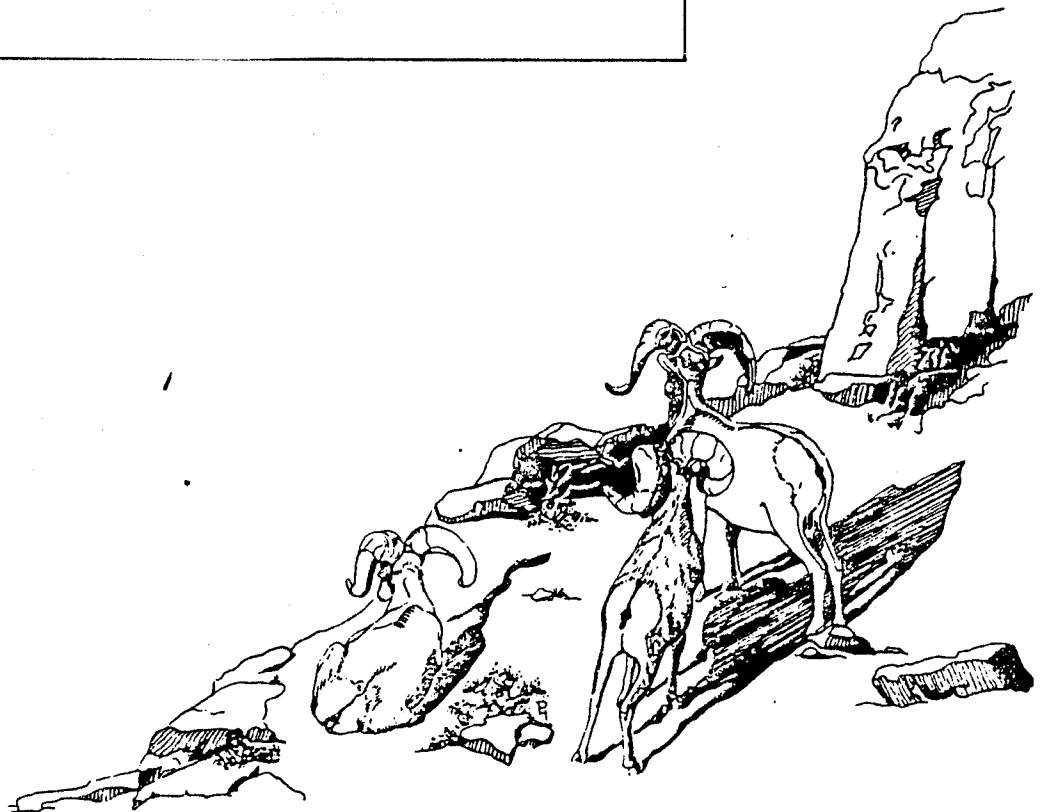
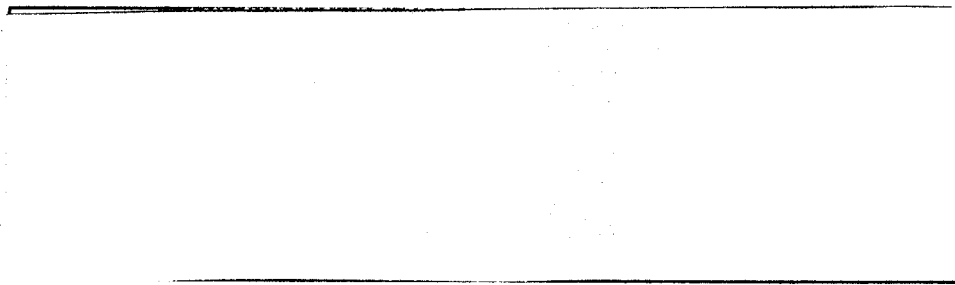
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# **Biota of Lake Mead**

**National Recreation Area**

**NEVADA - ARIZONA**



**Lake Mead Report Series**

**UNITED STATES DEPARTMENT OF THE INTERIOR - NATIONAL PARK SERVICE**

COOPERATIVE NATIONAL PARK RESOURCES STUDIES UNIT  
UNIVERSITY OF NEVADA/LAS VEGAS  
Department of Biological Sciences  
Las Vegas, Nevada 89153

Charles L. Douglas, Unit Leader  
Senior Research Scientist  
National Park Service

BIOTA OF LAKE MEAD NATIONAL RECREATION AREA

PROJECT REPORT NO. 1

ANNOTATED CHECKLIST AND BIBLIOGRAPHY

March 1977

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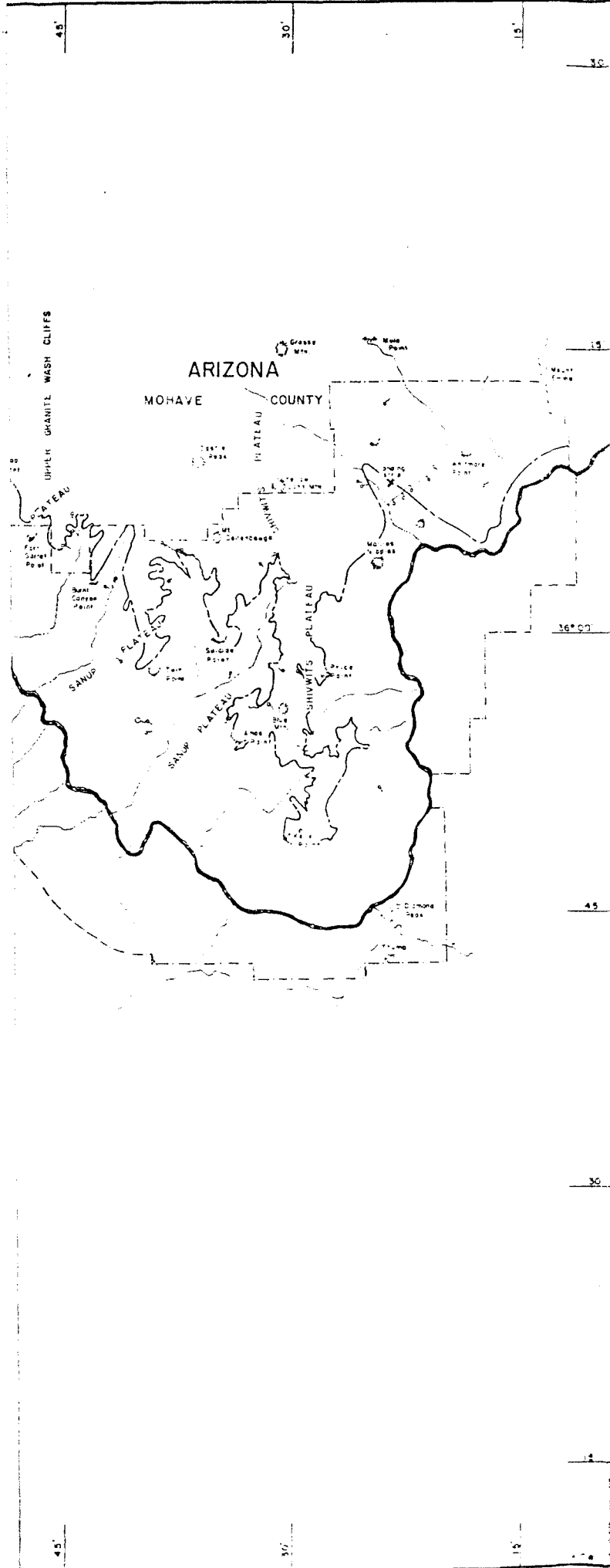
#### COOPERATIVE NATIONAL PARK RESOURCES STUDIES UNIT

University of Nevada/Las Vegas - National Park Service

The National Park Service and the University of Nevada signed a Master Agreement on November 4, 1971 that provided for the establishment and operation of this Unit on the Las Vegas Campus. The Unit, although located in the Department of Biological Sciences, is geared to provide a multidisciplinary approach that utilizes all talents on the University Campus to natural resources studies in areas administered by the National Park Service. Primary attention of this Unit is directed to Death Valley National Monument, California/Nevada; Lake Mead National Recreation Area, Nevada/Arizona; and Joshua Tree National Monument, California.

Through the direction and coordination of the Unit Leader, projects are undertaken in these areas that are designed to provide scientific facts upon which the park managers may make appropriate decisions and formulate and implement effective management action plans. Through close association with faculty members and through guidance of graduate students, a greater awareness of problems and needs of the Service are recognized and academic interests are channelized to participate with the National Park Service in studies of mutual interest and concern.





THE BIOTA OF LAKE MEAD NATIONAL RECREATION AREA  
NEVADA/ARIZONA

PROJECT REPORT NO. 1  
ANNOTATED CHECKLIST AND BIBLIOGRAPHY

Wesley E. Niles<sup>1</sup> 2  
Charles L. Douglas<sup>2</sup>  
Project Directors and Principal Authors

James Holland, Craig Downer, John Blake  
Jeffrey Schwartz and George T. Austin  
Contributing Authors<sup>1</sup>

March 1977

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<sup>1</sup>Department of Biological Sciences, University of  
Nevada/Las Vegas

<sup>2</sup>Cooperative National Park Resources Studies Unit/  
University of Nevada-Las Vegas

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## INTRODUCTION

In 1935 construction was completed on the Bureau of Reclamation's Hoover Dam, located near the bend of the historic Colorado River. Rising 726 feet within the rugged walls of Black Canyon, the structure is still recognized today as the highest concrete dam in the western hemisphere. Impoundment of water above Hoover Dam created Lake Mead, some 110 miles long, having a shoreline of 847 miles when the lake is at its maximum elevation of 1229 feet - this country's largest man-made reservoir. Below the dam, in Black Canyon and southward, the wild aspect of the Colorado River was altered by the control and regulation of water flow.

Hydro-electric power, flood control and irrigation were the principal reasons for the construction of Hoover Dam. But in the arid southwest the presence of such a large body of water provided an unusual and welcome potential for recreation. In 1964 the United States Congress recognized this potential and established the Lake Mead National Recreation Area, under the administration of the National Park Service, U. S. Department of the Interior.

The boundaries of Lake Mead National Recreation Area encompass some 2,500 square miles of both aquatic and terrestrial habitats (frontispiece). Included are the waters and shorelines of Lake Mead in their northward and eastward extension to the lower end of Grand Canyon; and below Hoover

Dam, the area of Lake Mohave, whose waters are formed by Davis Dam, 67 miles downstream. Lake Mohave has a shoreline of 254 miles when the lake is at its maximum elevation of 647 feet.

Within this area the National Park Service administers to the combined recreational needs of more than five million yearly visitors. Boating, fishing, swimming and other aquatic-related activities involve a growing number of participants. The varied topography and land forms within the Recreation Area are largely accessible on a 12-month basis and attract an uncounted but sizeable number of hikers, campers and explorers.

Much of this National Recreation Area is subjected to a high degree of human impact. The majority of visitors come from the nearby Las Vegas metropolitan area of Southern Nevada; but other contiguous or nearby states, Utah, Arizona and particularly southern California contribute to the number of users.

In 1974, Superintendent William J. Briggles had the foresight to initiate an inventory of natural resources within the Lake Mead National Recreation Area. It was anticipated that such an inventory would provide baseline information for more effective management and use of the area. This study is still in progress and is being coordinated through the Cooperative National Park Service Resources Studies Unit located at the University of Nevada, Las Vegas. Personnel from the Unit and from the Department of Biological Sciences are participating. In its initial phase the study was

concerned with a survey of the biota of the Recreation Area. Results of the study are being reported in a series of publications. This, the first of these reports, is a bibliography pertaining to the biota of Lake Mead National Recreation Area, viz. the plants, amphibians, reptiles, birds and mammals. Future publications will separately treat each of these categories and will discuss the occurrence, abundance and distribution of each species, and will provide distribution maps for each recorded taxon. This, and the publications to follow, should provide a data base from which reasoned, long-term management policies can be formulated.

The present report lists only those literature sources having direct applicability to the Lake Mead National Recreation Area. The location of unpublished reports is given where appropriate; in most instances, these reports are available at the UNLV library, or in the files at Lake Mead NRA. The species accounts and locality data are compiled exclusively from the literature, and do not contain the extensive and detailed collections we have made since 1974. Our rationale for compiling the species accounts in this manner was so that other researchers can better tell which sources are worthy of their attention. The large size of the manuscript when utilizing only bibliographic sources, and the changing nature of the present data base led to our decision to restrict this report to literature only. Other workers may not agree with our choices, and there remains the nagging expectation that we have inadvertently missed some bibliographic materials. We would greatly appreciate

any omissions being called to our attention in order that they can be included in later reports.

## ACKNOWLEDGMENTS

In a team project of this magnitude, numerous persons provided significant contributions of many kinds. One of the most rewarding aspects of the study to date is the willingness of persons peripheral to the study to make contributions to it. Such contributions range from providing original bibliographic sources that are rare and difficult to obtain to supplying new records of fauna or flora within the Recreation Area. The willingness of a professional to supply data on unpublished records of new species for the area speaks for itself. It is a rare occurrence in this publish-or-perish-world, and we are grateful for the trust and generosity that facilitated such exchange of information.

Of paramount importance to the success of the study were the graduate students and others of the research team that made it all possible. We are especially grateful for the contributions of the following persons who searched the literature and assembled their respective sections: Plants - James Holland; Fish - Craig Downer and John Blake; Amphibians and Reptiles - Jeffrey Schwartz and George Austin; Mammals - Jeffrey Schwartz and George Austin; Birds - John Blake. Sue Meyer assisted in plant identifications and Kent Wirtz drafted the maps. Mr. Vernon Bostick served as Field Coordinator from 1974 to 1975. George Austin presently is responsible for coordinating the field operations and report preparations.



Former Superintendent William J. Briggie was responsible for originating the project and for soliciting funding from the National Park Service. His support and enthusiasm for the project have been invaluable. Mr. Norman Reigle, former Resource Management Specialist provided records of occurrence for various wildlife as such sightings were reported to his office. He also was instrumental in helping with the literature search in the Park files, and contributed to the field work.

Two local ornithologists have unselfishly provided us with new records of occurrence of various avian species within the Lake Mead National Recreation Area. Mr. Charles Lawson and Mr. Vincent Mowbray has extended themselves in many ways to making the project a success. Their exceptional generosity in providing unpublished data has made a lasting impression on all of use associated with the study. Our appreciation for their contributions is not diminished by the inadequacy of words to express our thanks.

Other persons have contributed in various ways include: Mr. John Baker, Dr. W. Glen Bradley, Dr. James E. Deacon, Mr. J. Scott Miller and Mr. Kenneth S. Moor. The librarians at the University of Nevada Las Vegas have provided a major service in assisting us to locate obscure manuscripts. To all of the numerous persons who have contributed in various ways, we can only say thank you.

Last, but certainly not least is the gratitude to Mr. Oscar V. Deming, who assembled the first bibliography of the southern Nevada area in 1953. We have utilized his

report continuously throughout our efforts. The existence of his report in the Special Collections at the UNLV library has made our task considerably easier. We hope he will be pleased with our efforts.

FLORA OF THE  
LAKE MEAD NATIONAL RECREATION AREA

James Holland

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## THE FLORA OF LAKE MEAD NATIONAL RECREATION AREA

Over the years LMNRA has been visited by numerous professional botanists. However, published records of their collections are few.

In the 1800's, several botanists traveling the historic route from Santa Fe to southern California, observed and probably collected plants in the area of "the Great Bend of the Colorado River." From information compiled by Ewan (1950), the first of these professional botanists may have been Gambel in 1844. Others among this group were Bestor, who traveled with the Emory expedition of 1846; and Rothrock of the Wheeler survey party in the early 1870's. Of these, reports of collections are available only for Rothrock, in his "Notes on economic botany," and "Catalogue of plants" (Rothrock 1878).

Other early botanists of note include the Frenchman, Remey (Ewan 1950), whose 1855 collections made while enroute from Salt Lake to St. George and Los Angeles are deposited at the Paris Museum of Natural History. Also, the surgeon - naturalist Newberry, attached to the Ives Exploring Expedition of 1856. Newberry ascended the Colorado River from its mouth to Fortification Rock, a landmark located near the bend of the Colorado River (Ives 1861).

A. L. Sider, a Mormon traveler from Kane County, Utah is reported by Ewan (1950) to have collected cacti in the

1890's along the walls of the Grand Canyon. His collections are deposited in the Gray and Missouri Botanical Garden herbaria.

In 1891 Coville, in his capacity as botanist for the Death Valley Expedition, made an 8-day collecting trip in the vicinity of Las Vegas, Las Vegas Wash and Black Canyon (of the Colorado River). An enumeration of his collections are reported in his "Botany of the Death Valley Expedition" (Coville 1893).

Among later-day collectors were L. N. Goodding and Marcus Jones (Ewan 1950). Goodding, in 1902, followed the Muddy River south to the Virgin and Colorado River. His plants from this area are preserved in the Rocky Mountain Herbarium and the New York Botanical Garden. Jones collected widely in the Western United States in the early 1900's. A set of his valuable collection is housed in the herbarium of Rancho Santa Ana Botanic Garden.

In more recent years the inner gorge of the Colorado River within Mohave County, Arizona has been the site for the majority of botanical effort in LMNRA. Among the first to work in this area were Clover and Jotter (1941, 1944), who studied the cacti and prepared a checklist for the riparian community. Martin (1971) and Martin et al. (1973) studied the vegetation along this section of the river. Phillips and Phillips (1974) and Phillips (1975) have provided information on plants occurring in the lower Grand Canyon. The Museum of Northern Arizona (1974) and Carothers et al. (1974) compiled a bibliography and preliminary

checklist for the Grand Canyon region. Information concerning late Pleistocene and modern plant communities for this area has been provided by Laudermilk and Munz (1934) and VanDevender and Mead (1976).

Another major portion of LMNRA lies in Clark County, Nevada. This area has been extensively collected by botanists at the University of Nevada, Las Vegas. These collections, and those made by personnel at the National Park Service headquarters, Boulder City, will be cited in a future publication in this series covering the biota of the Lake Mead area.

Information concerning the flora of Clark County has been provided by Deming (1953). This checklist was compiled primarily from the work of Clokey (1951) in the Spring Mountain Range. One of the few copies of Deming's manuscript is included in the special collection of the library at the University of Nevada, Las Vegas. Jonez and Sumner (1954) published a partial list of plants collected by them in the Lake Mead region. Among more recent publications treating the botany of Clark County, and relating in varying degree to LMNRA are those of Bradley (1966, 1967), Bradley and Deacon (1967) and Bradley and Niles (1970). These papers treat the northward extension of Sonoran Desert elements; a geographical analysis of the flora; biotic communities; and the ecology of Las Vegas Wash. Papers by Mehringer (1965) and Leskinen (1969) discuss aspects of late Pleistocene vegetation in southern Nevada.

A number of floras and manuals are available for portions of LMNRA. Among the more applicable are those for Utah and Nevada (Tidestrom 1925); Arizona (Kearney and Peebles 1969); California (Munz and Keck 1968); Southern California (Munz 1974); northern Arizona (McDougall 1973); the Intermountain Region (Holmgren and Reveal 1966, Cronquist et al. 1972); and a series of papers by various authors comprising the Contributions Toward a Flora of Nevada (U. S. Dept. Agric. 1940).

Taxa included in the following checklist are those which have been recorded from available literature. These plants have been reported as occurring within the boundaries of LMNRA, or else are reasonably located or otherwise disposed so as to warrant inclusion. Those of the latter category are identified with an asterisk (\*). The list is undoubtedly incomplete, and no verification of identifications have been made.

Key to Authors specifically cited in the Plant Checklist:

Ca	Carothers, S. W., et al.
CJ	Clover, E. U., and L. Jotter
CL	Clokey, I. W.
Cov	Coville, F. V.
D	Deming, O. V.
I	Ives, J. C.
KP	Kearney, T. H., and R. H. Peebles
M	Munz, P. A.
P	Phillips, A. M.
VM	VanDevender, T. R., and J. I. Mead

For Full Bibliographic Citations: Refer to Plant Bibliography, pages 71-80.

## PLANT CHECKLIST

### POLYPODIACEAE (Fern Family)

Adiantum capillus-veneris L. (Venus-hair fern)

MOHAVE COUNTY: Emory Falls (CJ, 1944; P, 1975);  
2 miles upstream from Emory Falls, (CJ, 1944);  
Mile 270 (P, 1974b); Evans Heaven, 9 miles  
upstream from Pierce Ferry (P, 1975).

Notholaena parryi D. C. Eaton (parry cloak fern)

MOHAVE COUNTY: Mouth of Spencer Canyon (CJ, 1944);  
Mile 193 (CJ, 1944); Rampart Cave Area (P,  
1975).

### PINACEAE (Pine Family)

Pinus monophylla Torr. & Frem. (piñon pine)

MOHAVE COUNTY: Peach Springs Wash (VM, 1876).

### CUPRESSACEAE

Juniperus monosperma (Engelm.) Sarg. (one seeded juniper)

MOHAVE COUNTY: Juniper Seep (Mile 268.4, L; P,  
1973); (ms).

Juniperus osteosperma (Torr.) Little (Utah juniper)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

### EPHEDRACEAE

Ephedra nevadensis Wats. (Mormon-tea)

MOHAVE COUNTY: Spencer Canyon (CJ, 1944); Widespread  
on rocky slopes, lower alluvial fans and dry



canyons, Grand Canyon (P, 1975); Peach  
Springs Wash (VM, 1976).

Ephedra torreyana Wats. (Mormon-tea)

MOHAVE COUNTY: Occasional on flat shelves in the  
Grand Canyon (P, 1975); Pierce Ferry (P,  
1975).

Ephedra trifurca Torr. (Mormon-tea)

CLARK COUNTY: Near Boulder Dock (CJ, 1944); Near  
Boulder Beach Landing (D, 1953).

Ephedra viridis Cov. (Mormon-tea)

MOHAVE COUNTY: Below Quartermaster Canyon (CJ,  
1944); 2 miles above Emory Falls (CJ, 1944);  
3 miles south of Temple Bar along the Temple  
Bar Road (P, 1973); Common on the rims and  
higher; not within the Canyon (P, 1975).

#### TYPHACEAE (Cat-tail Family)

Typha angustifolia L. (cat-tail)

CLARK COUNTY: Colorado River below Hoover Dam  
(D, 1953).

Typha domingensis Pers. (cat-tail)

MOHAVE COUNTY: Common in glens above Emory Falls  
(P, 1975).

#### GRAMINEAE (Grass Family)

Agrostis semiverticillata (Forsk.) Christ. (water bent)

MOHAVE COUNTY: Along the stream at Separation  
Rapids (CJ, 1944); Surprise Canyon (CJ, 1944).

Aristida adscensionis L. (six-weeks three-awn)

MOHAVE COUNTY: Mile 275-L, talus slope below

Rampart Cave (P, 1973).

Aristida glauca (Nees.) Walp. (reverchon three-awn)

MOHAVE COUNTY: Mouth of Diamond Creek (CJ, 1944);

Separation Rapids (CJ, 1944).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Aristida parishii Hitchc.

MOHAVE COUNTY: Mile 274.5-R Mauv Gate (P, 1973);

rocky slopes on north side of Canyon across from Rampart Cave (P, 1975).

Boutelona aristidoides (HBK.) Griseb. (needle grama)

CLARK COUNTY: Hemenway Wash (D, 1953).

Bouteloua barbata Lag. (six-weeks grama)

MOHAVE COUNTY: Along stream in Separation Canyon (CJ, 1944).

Bouteloua parryi (Fourn.) Griffiths (parry grama)

MOHAVE COUNTY: Separation Canyon (CJ, 1944).

Bouteloua trifida Thurb.

MOHAVE COUNTY: Surprise Canyon (CJ, 1944); Mile 274.5-R Mauv Gate (P, 1973); rare on Rocky slopes above Lake Mead in the Canyon (P, 1975).

Bromus arizonicus (Shear) Stebbins (brome-grass)

MOHAVE COUNTY: Occasional on lower slopes, Lake Mead mud flats and in small moist seeps (P, 1975).

Bromus rubens L. (foxtail chess)

MOHAVE COUNTY: Two miles above Emory Falls (CJ,

1944); Common along Lake Mead (CJ, 1944);  
Common on lower slopes, seeps and Lake Mead  
mud flats (P, 1975).

CLARK COUNTY: Common around the bases of desert  
ranges (D, 1953).

Cynodon dactylon (L.) Pers. (Bermudagrass)

MOHAVE COUNTY: At waters edge, Separation Canyon  
(CJ, 1944).

Distichlis spicata (L.) Greene var. stricta (Torr.) Beetle  
(saltgrass)

CLARK COUNTY: Colorado River below Hoover Dam (D, 1953).

Eragrostis cilianensis (All.) Mosher (stinkgrass)

MOHAVE COUNTY: Spencer Canyon (CJ, 1944); From  
Spencer Canyon to Emory Falls (CJ, 1944).

Erioneuron pulchellum (HBK.) Takeoka

[= Tridens pulchellus (HBK.) Hitchc.] (fluffgrass)

MOHAVE COUNTY: Separation Rapid (CJ, 1944); Wide-  
spread and common in all dry habitates in the  
canyon and north rim (P, 1975).

CLARK COUNTY: Valley of the Virgin River (Cov,  
1893); Boulder Dock (CJ, 1944) Near Hoover  
Dam (D, 1953).

Festuca octoflora Walt. (six-weeks fescue)

MOHAVE COUNTY: Common on steep slopes, in dry  
washes, dry side canyons and flat shelves in  
the Grand Canyon (P, 1975); Pierce Ferry  
(P, 1975).

CLARK COUNTY: In the creosote belt (D, 1953).  
Hilaria rigida (Thurb.) Benth ex. Scribn. (galleta)  
 MOHAVE COUNTY: Occasional on lower slopes and  
 dry side canyon in the Grand Canyon (P, 1975).  
Muhlenbergia porteri Scribn. (bush muhly)  
 MOHAVE COUNTY: Occasional on lower slopes and open  
 dry side canyons in the Grand Canyon (P,  
 1975).  
Oryzopsis hymenoides (Roem. & Schult.) Ricker (Indian ricegrass)  
 MOHAVE COUNTY: Separation Canyon (CJ, 1944).  
 CLARK COUNTY; Boulder Dock (CJ, 1944).  
Panicum hirticaule Presl.  
 MOHAVE COUNTY: Separation Rapid (CJ, 1944).  
Phragmites communis Trin. (reed)  
 MOHAVE COUNTY: Juniper Seep, Mile 268-L (P, 1975);  
 Peach Springs Wash (VM, 1976).  
 CLARK COUNTY: In Las Vegas Wash (Cov, 1893).  
Poa bigelovii Vasey & Scribn. (bluegrass)  
 MOHAVE COUNTY: Common on steep slopes, in small  
 seeps and in side canyons at lower elevations  
 in the Grand Canyon (P, 1975).  
Polypogon monspeliensis (L.) Desf. (rabbitfoot grass)  
 MOHAVE COUNTY: Separation Rapid (CJ, 1944); On  
 Lake Mead mud flats in the Grand Canyon (P,  
 1975).  
Sporobolus airoides (Torr.) Torr. (alkali sacaton)  
 CLARK COUNTY: In Las Vegas Wash (D, 1953).

Sporobolus cryptandrus (Torr.) Gray (sand dropseed)

MOHAVE COUNTY: Separation Canyon (CJ, 1944).

Stipa speciosa Trin. & Rupr. (desert needlegrass)

MOHAVE COUNTY: Rampart Cave talus slope (P, 1975).

Tridens muticus (Torr.) Nash. (slim tridens)

MOHAVE COUNTY: Found only in the bottom of one  
dry side canyon on the north side of the Grand  
Canyon across from Rampart Cave (P, 1975).

#### CYPERACEAE (Sedge Family)

Carex subfusca Boott.

MOHAVE COUNTY: 2 miles above Emory Falls (CJ,  
1944).

Cladium californicum (Wats.) O'Neill in Tides. & Kittell

[= C. mariseus R. Br. var. californicum Wats.] (saw-grass)

MOHAVE COUNTY: Lava Falls (CJ, 1944).

Cyperus erythrorhizos Muhl.

MOHAVE COUNTY: Separation Rapids (CJ, 1944).

Eleocharis rostellata (Torr.) Torr. (spike-rush)

MOHAVE COUNTY: Lava Falls (CJ, 1944).

Scirpus americanus Pers.

CLARK COUNTY: Valley of the Virgin River (Ca,  
1893).

Scirpus olneyi Gray (bullrush)

MOHAVE COUNTY: Lava Falls (CJ, 1944).

#### JUNCACEAE

Juncus bufonius L. (toad rush)

MOHAVE COUNTY: Willow Beach (D, 1953).

Juncus cooperi Engelm.

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

Juncus torreyi Cov.

MOHAVE COUNTY: Separation Rapids (CJ, 1944).

LILIACEAE (Lily Family)

Calochortus flexuosus Wats. (mariposa-lily)

MOHAVE COUNTY: Common on flat shelves, lower slopes,  
side canyons and on the north rim of the Grand  
Canyon (P, 1975).

AGAVACEAE (Agave Family)

Agave utahensis Engelm. (century plant)

MOHAVE COUNTY: Mouth of Separation Canyon (CJ,  
1944); Peach Springs Wash (VM, 1976).

Nolina bigelovii (Torr.) Wats.

MOHAVE COUNTY: 2 miles east of Davis Dam (D, 1953).

CLARK COUNTY: 2 miles west of Davis Dam on State  
Hwy. 77 (D, 1953).

Nolina microcarpa Wats.

MOHAVE COUNTY: Mile 214.6 (M, 1970); Peach Springs  
Wash (VM, 1976).

Yucca baccata Torr. (banana-yucca)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Yucca newberryi McKelvey

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

ORCHIDACEAE (Orchid Family)

Epipactis gigantea Dougl. ex Hook (stream orchis)

MOHAVE COUNTY: 2 miles above Emory Falls (CJ, 1944).

SALICACEAE (Willow Family)

Populus fremontii Wats. (cottonwood)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

CLARK COUNTY: Colorado River below Hoover Dam  
(D, 1953).

Salix exigua Nutt. (narrow-leaf willow)

MOHAVE COUNTY: Lava Falls (CJ, 1944); Mile 192  
(CJ, 1944; M, 1970).

Salix gooddingii Wats.

MOHAVE COUNTY: Mile 195.5-L (M, 1970); Mile 200-L  
(M, 1970); Peach Springs Wash (VM, 1976).

FAGACEAE (Oak Family)

Quercus turbinella Greene (scrub oak)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

ULMACEAE (Elm Family)

Celtis reticulata Torr. (hackberry)

MOHAVE COUNTY: Lava Falls (CJ, 1944); Mile 192  
(CJ, 1944); Mile 197.5 (M, 1970); Occasional  
at the base of cliffs in deep side canyons  
above Emory Falls (P, 1975); Slopes below  
Mauv Caves (P, 1975).

URTICACEAE (Nettle Family)

Parietaria floridana Nutt. (pellitory)

MOHAVE COUNTY: Occasional in moist shady habits  
on rock sites and at the foot of north-facing  
cliffs (P, 1975).

Parietaria pennsylvanica Muhl. (pellitory)

MOHAVE COUNTY: Scattered in moist, shady sites

on steep slopes and in side canyons in the  
Grand Canyon (P, 1975).

VISCACEAE [= LORANTHACEAE] (Mistletoe Family)

Phoradendron californicum Nutt. (mistletoe)

MOHAVE COUNTY: Spencer Canyon (CJ, 1944); Mile  
192 and 217 (CJ, 1944); Common on Acacia  
greggii (P, 1975).

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

Phoradendron juniperinum Engelm. (mistletoe)

MOHAVE COUNTY: Common on juniper on the Shivwits  
Plateau (P, 1975).

POLYGONACEAE (Buckwheat Family)

Chorizanthe brevicornu Torr.

MOHAVE COUNTY: Vulture Canyon (P, 1975); rare on  
slopes above dry side canyons (P, 1975).

CLARK COUNTY: Boulder Dock (CJ, 1944).

Chorizanthe rigida (Torr.) T. & G.

MOHAVE COUNTY: Scattered on lower slopes and flat  
areas in the Grand Canyon (P, 1975).

CLARK COUNTY: Valley of the Virgin River (Cov,  
1893); Near Hoover Dam (D, 1953).

Eriogonum deflexum Torr.

MOHAVE COUNTY: Scattered on lower slopes below  
Rampart Cave (P, 1975).

CLARK COUNTY: Boulder Dock (CJ, 1944); Hemenway  
Wash (D, 1953).

Eriogonum fasciculatum Benth. (California buckwheat)

MOHAVE COUNTY: Mouth of Spencer Canyon (CJ, 1944);



Common in rocky areas on steep slopes and lower alluvial fans in the Grand Canyon (P, 1975).

CLARK COUNTY: Mountains south of Bunkerville (C1, 1952); Hemenway Wash (D, 1953).

Eriogonum inflatum Torr. & Frem. (desert trumpet)

MOHAVE COUNTY: Common and widespread in many open habitates in the Grand Canyon (P, 1953); Pierce Ferry (P, 1975).

CLARK COUNTY: Boulder Dock (CJ, 1944).

Eriogonum jonesii Wats.

MOHAVE COUNTY: Found only at the base of the Upper Grand Wash Cliffs (P, 1975).

Eriogonum nidularium Cov.

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Eriogonum reniforme Torr. & Frem.

MOHAVE COUNTY: Pierce Ferry (P, 1975).

Eriogonum thomasi Torr.

MOHAVE COUNTY: Occasional in side canyon of the Grand Canyon (P, 1975).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Polygonum argyrocoleon Steud. (knotweed)

MOHAVE COUNTY: Common on Lake Mead mud flats and moist side canyons (P, 1975).

Pterostegia drymarioides Fisch. & Meyer

MOHAVE COUNTY: Occasional in cracks in rock faces below Rampart Cave and side canyons in the

Grand Canyon (P, 1975).

Rumex crispus L. (dock)

MOHAVE COUNTY: Common on Lake Mead mud flats (P, 1975).

Rumex triangulivalvis (Danser) Rech. (dock)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

CHENOPODIACEAE (Goosefoot Family)

Allenrolfea occidentalis (Wats.) Kuntze

CLARK COUNTY: Valley of the Virgin River near St. Thomas (Cov, 1893); Moapa Valley (D, 1953).

Atriplex canescens (Pursh) Nutt. (four-wing saltbush)

MOHAVE COUNTY: Emory Falls and on the north rim (P, 1975).

Atriplex hymenelytra (Torr.) Wats. (desert holly)

MOHAVE COUNTY: 2 miles above Emory Falls (CJ, 1944); scattered on rocky slopes at low elevations in the Canyon (P, 1975); Pierce Ferry (P, 1975).

CLARK COUNTY: Valley of Fire (D, 1953); Roger Springs (D, 1953); Las Vegas Wash (Cov, 1953).

Atriplex lentiformis (Torr.) Wats. (saltbush)

CLARK COUNTY: Las Vegas Wash (Cov, 1893); Valley of the Virgin and Muddy Rivers (Cov, 1893).

Atriplex torreyi (Wats.) Wats. (saltbush)

CLARK COUNTY: Valley of the Virgin and lower Muddy River (Cov 1893).

Bassia hyssopifolia (Pall.) Kuntze

MOHAVE COUNTY: Separation Rapids (CJ, 1944).

Corispermum nitidum Kit. (bugseed)

MOHAVE COUNTY: Separation Rapid (CJ, 1944).

CLARK COUNTY: Wet sandy shore, Lake Mead (D, 1953).

Eurotia lanata (Pursh) Moq.

MOHAVE COUNTY: Occasional in side canyons on slopes  
and on the north rim (P, 1975).

Salsola iberica Stennen & Pau. (Russian-thistle)

MOHAVE COUNTY: Separation Rapids (CJ, 1944).

CLARK COUNTY: Near Boulder Dock (CJ, 1944).

Suaeda torreyana Wats. (sea-blite)

MOHAVE COUNTY: Common on small moist seeps and  
in glens in the Grand Canyon (P, 1975).

#### AMARANTHACEAE (Amaranth Family)

Amaranthus blitoides Wats.

MOHAVE COUNTY: Quartermaster Canyon (CJ, 1944).

Tidestromia lanuginosa (Nutt.) Standl.

MOHAVE COUNTY: Scattered along the shores of Lake  
Mead (P, 1975).

Tidestromia oblongifolia (Wats.) Standl.

MOHAVE COUNTY: Mouth of Diamond Creek (CJ, 1944);  
Mouth of Separation Canyon (CJ, 1944); 2  
miles above Emory Falls (CJ, 1944); Occasional  
on steep talus slopes and at Mauv Caves (P,  
1975).

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

#### NYCTAGINACEAE (Four-O'Clock Family)

Abronia villosa Wats. (sand-verbena)

CLARK COUNTY: Las Vegas Wash (D, 1953).

Allionia incarnata L. (windmills)

MOHAVE COUNTY: Occasional on flat shelves and  
at the base of the steep talus below Rampart  
Cave (P, 1975).

CLARK COUNTY: Hemenway Wash (Cov, 1893).

Boerhaavia wrightii Gray

MOHAVE COUNTY: Scattered in side canyons, Grand  
Canyon (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Mirabilis bigelovii Gray (four-o'clock)

MOHAVE COUNTY: Scattered in protected areas and  
in the bottom of dry side canyons, Grand  
Canyon (P, 1975).

Mirabilis multiflora (Torr.) Gray (four-o'clock)

MOHAVE COUNTY: Rampart Cave Area (P, 1975); South  
of Pierce Ferry (P, 1975).

Selinocarpus diffusus Gray

CLARK COUNTY: Overton (Cov, 1893).

#### CARYOPHYLLACEAE (Pink Family)

Arenaria macradenia Wats. (sandwort)

MOHAVE COUNTY: Emory Falls (P, 1975).

Silene antirrhina L. (catchfly)

MOHAVE COUNTY: Common at small seeps and on lower  
slopes in the Grand Canyon (P, 1975).

#### RANUNCULACEAE (Crowfoot Family)

Anemone tuberosa Rydb. (anemone)

MOHAVE COUNTY: Rampart Cave talus slope (P, 1975).

Aquilegia chrysantha Gray (columbine)

MOHAVE COUNTY: Emory Falls (CJ, 1944); 2 miles  
above Emory Falls (CJ, 1944); Evans Heaven,  
mile 270-L (P, 1975).

Delphinium parishii Gray (larkspur)

MOHAVE COUNTY: Common on steep slopes and open  
side canyons in the Grand Canyon (P, 1975).

Ranunculus sceleratus L. var. multifidus Nutt. (buttercup)

MOHAVE COUNTY: Rare on Lake Mead mud flats (P,  
1975).

PAPAVERACEAE (Poppy Family)

Arctomecon californicum Torr. & Frem. (bearclaw poppy)

MOHAVE COUNTY: Rare on both sides of the Grand  
Canyon (P, 1975).

CLARK COUNTY: Bitter Springs, Muddy Mts. (Cov,  
1893); Las Vegas Wash (D, 1953).

Argemone platyceras Link & Otto (pickly poppy)

MOHAVE COUNTY: Alluvial fans, steep slopes and  
dry side canyons of the Grand Canyon (P, 1975);  
Common on slopes below Rampart Cave (P, 1975).

Eschscholzia glyptosperma Greene (California poppy)

MOHAVE COUNTY: Locally abundant on lower slopes  
and flat areas in the Grand Canyon (P, 1975).

Eschscholzia minutiflora Wats.

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

BRASSICACEAE [= CRUCIFERAE] (Mustard Family)

Arabis perennans Wats. (rock-cress)

MOHAVE COUNTY: Scattered in dry side canyons at  
about 400 m in the Grand Canyon (P, 1975);  
Sanup Plateau 1475 m (P, 1975).

Caulanthus cooperi (Wats.) Pays.

MOHAVE COUNTY: Rare in dry side canyons near  
Rampart Cave (P, 1975).

Descurainia pinnata (Walt.) Britton (tansy-mustard)

CLARK COUNTY: St. Thomas (D, 1953).

Descurainia pinnata (Walt.) Britton

ssp. glabra (Woot. & Standl.) Detling (tansy-mustard)

MOHAVE COUNTY: Talus slopes below Rampart Cave,  
Mile 275-L (P, 1975).

Draba cuneifolia Nutt. ex T. & G. var. cuneifolia

MOHAVE COUNTY: Rampart Cave (Ca, 1974).

Draba cuneifolia Nutt. var. intergrifolia Wats.

MOHAVE COUNTY: Occasional in sandy beds of dry  
side canyons (P, 1975); Mouth of Rampart  
Cave (P, 1975).

Erysimum capitatum (Dougl.) Greene (wallflower)

MOHAVE COUNTY: Common on the Sanup Plateau  
(P, 1975).

Lepidium fremontii Wats. (peppergrass)

MOHAVE COUNTY: Rare on the steep slopes above the  
narrow canyon above Emory Falls (P, 1975).

CLARK COUNTY: In the Las Vegas Wash (Ca, 1893).

Lepidium lasiocarpum Nutt.

CLARK COUNTY: In the Las Vegas Wash 'Cov, 1983).

Lepidium lasiocarpum Nutt. var. lasiocarpum (peppergrass)

MOHAVE COUNTY: Rampart Cave (Ca, 1974); scattered on talus slopes at lower elevations in the canyon (P, 1975).

Lepidium lasiocarpum Nutt. var. wrightii (Gray) Hitchc.

MOHAVE COUNTY: Rampart Cave (Ca, 1974).

Lesquerella palmeri Wats. (bladder-pod)

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Lesquerella tenella Nelson (bladder-pod)

MOHAVE COUNTY: Occasional in side canyons in the Grand Canyon (P, 1975); Pierce Ferry (P, 1975).

Sisymbrium altissimum L. (tumble-mustard)

MOHAVE COUNTY: Diamond Creek, Mile 225 (Ca, 1974).

Sisymbrium ambigum (Wats.) Payson

MOHAVE COUNTY: Common on both lower rims, not found in the canyon (P, 1975).

Stanleya pinnata (Pursh) Britton (prince's plume)

MOHAVE COUNTY: Diamond River (I, 1860); Common on steep rocky slopes in the Grand Canyon (P, 1975); Sanup Plateau (P, 1975).

Streptanthus cordatus Nutt.

MOHAVE COUNTY: Sanup Plateau (P, 1975).

Streptanthus longirostris Wats.

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Thelypodium intergrifolium (Nutt.) Endl.

MOHAVE COUNTY: On Lake Mead, 2 miles above Emory

Falls (CJ, 1944); Rare in open areas near  
Mauv Caves (P, 1975); Juniper Seep (P, 1975).

Thelypodium lasiophyllum (Hook. & Arn.) Greene

MOHAVE COUNTY: Rare on small seeps at the base of  
cliffs near Rampart Cave (P, 1975).

Thysanocarpus amplexans Greene (lace-pod)

MOHAVE COUNTY: Rare on rocky slopes on the north  
side of the Grand Canyon (P, 1975).

#### CAPPARACEAE (Caper Family)

Cleome lutea Hook.

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Wislizenia refracta Engelm. (jackass-clover)

MOHAVE COUNTY: Mouth of Separation Canyon (CJ,  
1944).

#### RESEDACEAE (Mignonette Family)

Oligomeris linifolia (Vahl.) Macbr.

MOHAVE COUNTY: Scattered along Lake Mead mud flats  
(P, 1975).

#### CROSSOMATACEAE (Crossosoma Family)

Crossosoma bigelovii Wats.

MOHAVE COUNTY: Mouth of Rampart Cave, near Emory  
Falls and canyons on the north side of the  
river (P, 1975).

#### ROSACEAE (Rose Family)

Amelanchier utahensis Koehne (service-berry)

MOHAVE COUNTY: Scattered at the base of the Upper  
Grand Wash Cliffs and Shivwits Plateau (P,  
1975).



Cercocarpus betuloides Nutt. (mountain-mahogany)

MOHAVE COUNTY: Scattered at the base of the Upper  
Grand Wash Cliffs (P, 1975).

Cercocarpus montanus Raf. (mountain-mahogany)

MOHAVE COUNTY: Scattered at the base of the Upper  
Grand Wash Cliffs (P, 1975).

Coleogyne ramosissima Torr. (blackbrush)

MOHAVE COUNTY: In nearly pure stands on level  
ground along both rims of the Grand Canyon,  
elev. 1475 to 1800 m (P, 1975); Peach Springs  
Wash (VM, 1976).

Cowania mexicana Don (cliffrose)

MOHAVE COUNTY: Walls of Emory Falls Canyon (P,  
1975); Peach Springs Wash (VM, 1976).

Fallugia paradoxa (Don) Endl. (Apache-plume)

MOHAVE COUNTY: Scattered along the South rim of  
the Grand Canyon (P, 1975); Peach Springs  
Wash (VM, 1976).

Petrophytum caespitosum (Nutt.) Rydb. (rock-spiraea)

MOHAVE COUNTY: Seeps below Mauv Caves and Emory  
Falls (P, 1975).

Prunus fasciculata (Torr.) Gray (desert-almond)

MOHAVE COUNTY: In the bottom of one dry side canyon  
about 1 mile north of Lake Mead (P, 1975).

FABACEAE [= LEGUMINOSE] (Legume Family)

Acacia greggii Gray (catclaw)

MOHAVE COUNTY: Common at the Hurricane Fault,

mile 189 (CJ, 1944); Separation Canyon (CJ, 1944); Spencer Canyon (CJ, 1944); Emory Falls (CJ, 1944); Common and widespread, especially along streams and dry washes and around seeps near Rampart Cave (P, 1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Moapa Valley (D, 1975); Hemenway Wash (D, 1975).

Alhagi camelorum Fisch. (camel thorn)

MOHAVE COUNTY: Infrequent on Lake Mead mud flats (P, 1975).

Astragalus lentiginos Dougl. var. australis Barneby

MOHAVE COUNTY: South rim, Rampart Cave (P, 1975).

Astragalus lentiginos Dougl. var. mokiacensis  
(Gray) Jones

MOHAVE COUNTY: Common at Pierce Ferry (P, 1975).

Astragalus nuttallianus DC.

MOHAVE COUNTY: Occasional in dry side canyons in the Grand Canyon (P, 1975).

Astragalus praelongus Sheld.

CLARK COUNTY: Type locality, confluence of the Virgin and Muddy Rivers (CL, 1952).

Astragalus preussii Gray

CLARK COUNTY: Type locality, Virgin River (CL, 1952).

Astragalus virginensis Sheld.

CLARK COUNTY: In the Valley of the Virgin River (Cov, 1893).

Cassia armata Wats. (senna)

MOHAVE COUNTY: Willow Beach (D, 1953).

CLARK COUNTY: Great bend of the Colorado River  
(Cov, 1893).

Cassia covesii Gray (senna)

MOHAVE COUNTY: Along stream in Quartermaster  
Canyon (CJ, 1944); Whitmore Canyon (M, 1970).

Dalea amoena Wats.

MOHAVE COUNTY: Steep slopes in the Grand Canyon  
(P, 1975); Pierce Ferry (P, 1975).

Dalea californica Wats. (indigo bush)

CLARK COUNTY: Callville Wash (D, 1953).

Dalea fremontii Torr. (indigo bush)

MOHAVE COUNTY: Common on steep slopes, in dry  
side canyons, on flat shelves in the Grand  
Canyon (P, 1975); Pierce Ferry (P, 1975);  
Peach Springs Wash (VM, 1976).

Dalea mollis Benth.

CLARK COUNTY: Hemenway Wash (D, 1953).

Dalea mollissima (Rydb.) Munz

MOHAVE COUNTY: 3 miles south of Temple Bar (Ca,  
1974).

CLARK COUNTY: Near Hoover Dam (D, 1953).

Krameria grayi Rose & Painter (range ratany)

CLARK COUNTY: Hemenway Wash (D, 1953).

Krameria parvifolia Benth. (range ratany)

MOHAVE COUNTY: Whitmore Wash (M, 1970); Common on

steep slopes, in dry canyons, on flat shelves  
at Pierce Ferry and on the north rim (P,  
1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: In the valleys of the Virgin and  
Muddy Rivers (Cov, 1893).

Krameria parvifolia Benth. var. impata Macbr.

MOHAVE COUNTY: Mile 193, Colorado River (CJ,  
1944); Diamond Creek (CJ, 1944).

CLARK COUNTY: Boulder Dock (CJ, 1944).

Krameria parvifolia Benth. var. glandulosa Macbr.

CLARK COUNTY: Boulder Dock (D, 1953); Hoover Dam  
(D, 1953).

Lotus salsuginosus Greene (bird's foot trefoil)

MOHAVE COUNTY: Black Canyon (I, 1860).

Lupinus arizonicus (Wats.) Wats. (lupine)

CLARK COUNTY: Hemenway Wash (D, 1953).

Lupinus hirsutissimus Benth. (lupine)

MOHAVE COUNTY: Black Canyon (I, 1860).

Prosopis glandulosa Torr. var. torreyana (Benson) M. C. Jtn. (mesquite)

MOHAVE COUNTY: Black Canyon (I, 1860); Mile 193,  
225L, 217L, Separation and Spencer Canyons and  
2 miles above Emory Falls (CJ, 1944); Mile  
170 to Diamond Creek (M, 1970); Scattered at  
the base of cliffs on upper talus slopes;  
near Rampart and Mauv Caves (P, 1975); Peach  
Springs Wash (VM, 1976).

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Prosopis pubescens Benth. (screw-bean)

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

Vicia exigua Nutt. (vetch)

MOHAVE COUNTY: Scattered among shrubs in dry side  
canyons in the Grand Canyon (P, 1975).

GERANIACEAE (Geranium Family)

Erodium cicutarium (L.) L'Her.. (filaree)

MOHAVE COUNTY: Scattered on flat shelves, lower  
elevation washes and Lake Mead mud flats  
(P, 1975).

Erodium texanum Gray

MOHAVE COUNTY: Occasional on talus slopes below  
Rampart Cave (P, 1975).

LINACEAE (Flax Family)

Linum lewisii Pursh (flax)

MOHAVE COUNTY: Scattered on the Sanup Plateau  
(P, 1975).

ZYGOPHYLLACEAE (Caltrop Family)

Larrea tridentata (DC.) Cov. (creosote bush)

MOHAVE COUNTY: Hurricane Fault (CJ, 1944); Separation Canyon (CJ, 1944); lower elevations in Peach Springs Wash (VM, 1976); widespread, but especially common on flat shelves and lower slopes in the Grand Canyon (P, 1975); Pierce Ferry (P, 1975).

CLARK COUNTY: In the valley of the lower Muddy River (Cov, 1893); Boulder Dock (CJ, 1944).

RUTACEAE (Rue Family)

Ptelea pallida Greene

MOHAVE COUNTY: Rare in areas of moist side canyons above Emory Falls (P, 1975).

Thamnosma montana Torr. & Frem. (turpentine-broom)

MOHAVE COUNTY: Canyon of the Diamond River (I, 1860); Common in dry side canyons in the Grand Canyon and on the rims (P, 1975); Peach Springs Wash (VM, 1976).

SIMAROUBACEAE (Quassia Family)

Castela emoryi (Gray) Moran & Felger

MOHAVE COUNTY: Diamond Creek (M, 1970); Peach Springs Wash (VM, 1976).

MALPIGHIACEAE (Malpighia Family)

Janusia gracilis Gray

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

EUPHORBIACEAE (Spurge Family)

Bernardia incana Morton

MOHAVE COUNTY: Lava Falls (M, 1940 ms); Common and widespread on rocky slopes, in dry side canyons and on the Sanup Plateau (P, 1975).

Ditaxis neomexicana (Muell. -Arg.) Heller

MOHAVE COUNTY: Separation Canyon (CJ, 1944); Spencer Canyon (CJ, 1944); Common in dry side canyons on both sides of the Grand Canyon (P, 1975); Pierce Ferry (P, 1975).

Euphorbia arizonica Engelm. (spurge)

CLARK COUNTY: Hemenway Wash (D, 1953).

Euphorbia polycarpa Benth. var. hirtella Boiss. (spurge)

MOHAVE COUNTY: Common on flat shelves, lower slopes, and the sandy floors of dry side canyons in the Grand Canyon (P, 1975).

CLARK COUNTY: Abundant near Boulder Dock (CJ, 1944); Hemenway Wash (D, 1953).

ANACARDACEAE (Sumac Family)

Rhus trilobata Nutt. (squawbush)

MOHAVE COUNTY: Whitmore Wash (M, 1970 ms); Common on the Canyon rims (P, 1975); Peach Springs Wash (VM, 1976).

CELASTRACEAE (Staff-Tree Family)

Mortonia utahensis (Cov.) A. Nels.

MOHAVE COUNTY: Common on steep slopes at intermediate elevations and on the north rim (P, 1975).

Glossopetalon nevadense Gray

MOHAVE COUNTY: Base of the Upper Grand Wash Cliffs (P, 1975).

CLARK COUNTY: Overton (Cov, 1893).

RHAMNACEAE (Buckthorn Family)

Ceanothus greggii Gray

MOHAVE COUNTY: Base of the Upper Grand Wash Cliffs (P, 1975); Shivwits Plateau (P, 1975).

Condaliopsis lycioides (Gray) Suesseng. var. canescens (Gray) Suesseng.

[ = Condalia lycioides (Gray) Weberb. var canescens  
(Gray) Trel.]

MOHAVE COUNTY: Mile 201 (M, 1970); Peach Springs  
Wash (VM, 1976).

VITACEAE (Grape Family)

Vitis arizonica Engelm. (grape)

MOHAVE COUNTY: Mile 193 (CJ, 1944); Abundant 2  
miles above Emory Falls on Lake Mead (CJ, 1944).

MALVACEAE (Mallow Family)

Eremalche rotundifolia (Gray) Green

[ = Malvastrum rotundifolium Gray]

MOHAVE COUNTY: Common along the lake shore at  
Pierce Ferry (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Horsfordia newberryi (Wats.) Gray

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Sphaeralcea ambigua Gray (globemallow)

MOHAVE COUNTY: Common at Spencer Canyon (CJ, 1944);  
Common and widespread in the drier, open  
habitat and on rocky, north facing slopes near  
Rampart Cave (P, 1975).

Sphaeralcea grossulariaefolia (Hook. & Arn.) Rydb.

var. pedata (Torr.) Kearney (globemallow)

MOHAVE COUNTY: Mouth of Separation Canyon (CJ,  
1944).

TAMARICACEAE (Tamarisk Family)

Tamarix aphylla (L.) Karst. (tamarisk)



MOHAVE COUNTY: Rare on Lake Mead mud flats (P, 1975).

Tamarix gallica L. (tamarisk)

MOHAVE COUNTY: 2 miles above Lava Falls (CJ, 1944); Separation Rapids (CJ, 1944).

CLARK COUNTY: Common around Overton (D, 1953).

Tamarix pentandra Pall. (tamarisk)

MOHAVE COUNTY: Forms continuous thickets along the shores of Lake Mead in the Rampart Cave area (P, 1975).

#### LOASACEAE (Loasa Family)

Eucnide urens Parry (rock nettle)

MOHAVE COUNTY: Occasional at Separation Rapids (CJ, 1944); Common on rock faces along the shore of Lake Mead (P, 1975).

Mentzelia affinis Greene

MOHAVE COUNTY: 3 miles south of Temple Bar (P, 1973 ms).

Mentzelia albicaulis (Hook.) T. & G.

MOHAVE COUNTY: 3 miles south of Temple Bar (P, 1973); Common on flat shelves in the Grand Canyon, especially below Rampart Cave (P, 1975).

Mentzelia nitens Greene var. jonesii (Urban & Gily)

Darl.

MOHAVE COUNTY: Sandy areas at Pierce Ferry (P, 1975).

Mentzelia puberula Darl.

MOHAVE COUNTY: Common rocky slopes of dry side

canyons on both sides of the Grand Canyon  
(P, 1975).

Mentzelia pumila (Nutt.) Torr. & Gray

MOHAVE COUNTY: Rare on rocky slopes at intermediate  
elevations (P, 1975).

Mentzelia tricuspis Gray

MOHAVE COUNTY: 3 miles south of Temple Bar (P,  
1970); Scattered on rocky talus slopes above  
side canyons in the Grand Canyon (P, 1975).

Petalonyx parryi Gray

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

Petalonyx thurberi Gray

CLARK COUNTY: Common near Boulder Dock (CJ, 1944);  
Near Hoover Dam (D, 1953).

#### FOUQUIERIACEAE (Ocotillo Family)

Fouquieria splendens Engelm. (ocotillo)

MOHAVE COUNTY: 3 miles below Lava Falls (CJ, 1944);  
On high ledges, mile 192 and 193 (CJ, 1944);  
Separation Rapids (CJ, 1944); Quartermaster  
Canyon (CJ, 1944); Emory Falls to Pierce  
Ferry on Lake Mead (CJ, 1944); Scarce in the  
Pierce Ferry area (P, 1975); Common on rocky  
slopes and flat shelves in the Grand Canyon  
(P, 1975); Peach Springs Wash (VM, 1976).

#### CACTACEAE (Cactus Family)

Coryphantha vivipara (Nutt.) Britton & Rose var.  
arizonica (Engelm.) Marshall

MOHAVE COUNTY: Scattered on both rims but not  
found within the Grand Canyon (P, 1975).

Echinocactus polycephalus Engelm. & Bigel. (cotton-top cactus)

MOHAVE COUNTY: Abundant 2 miles above Emory Falls  
(CJ, 1944); Spencer Canyon (CJ, 1944); Common  
on steep, rocky slopes and open, dry side  
canyons in the Grand Canyon and on the rims  
(P, 1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Valleys of the Muddy and Virgin  
Rivers (Cov, 1893).

Echinocereus engelmannii (Parry) Lemaire (hedgehog cactus)

MOHAVE COUNTY: Mile 193 (CJ, 1944); Mile 205 (CJ,  
1944); Surprise Canyon (CJ, 1944); 2 miles  
above Emory Falls (CJ, 1944); Common on the  
rocky slopes, flat shelves, dry side canyons  
and rims of the Grand Canyon (P, 1975); Peach  
Springs Wash (VM, 1976).

CLARK COUNTY: Muddy Mts (Cov, 1893).

Echinocereus triglochidiatus Engelm. (Mohave mound cactus)

MOHAVE COUNTY: Scattered on the Sanup and Shivwits  
Plateaus (P, 1975); Peach Springs Wash (VM,  
1976).

Ferocactus acanthodes (Lemaire) Britt. & Rose (barrel cactus)

MOHAVE COUNTY: Lava Falls (CJ, 1944); Mile 193  
(CJ, 1944); Separation Canyon (CJ, 1944);  
Spencer Canyon (CJ, 1944); Common on rock  
faces, steep rocks, slopes, dissected lower

slopes and flat areas within the Grand Canyon  
(P, 1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Mesa between the valleys of the  
Muddy and Virgin Rivers (Cov, 1893).

Mammillaria microcarpa Engelm.

MOHAVE COUNTY: Scattered over rocky areas in the  
Grand Canyon (P, 1975); Common at Rampart  
Cave (P, 1975).

Mammillaria tetrancistra Engelm. (fishhook cactus)

MOHAVE COUNTY: Abundant at Separation Canyon (CJ,  
1944); Spencer Canyon (CJ, 1944); 2 miles  
above Emory Falls on Lake Mead (CJ, 1944).

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

Neolloydia johnsonii (Parry) Benson (pigmy barrel cactus)

MOHAVE COUNTY: Abundant south of Pierce Ferry  
(CJ, 1944); Scattered at intermediate eleva-  
tions on rocky hillsides in the Grand Canyon  
(P, 1975).

CLARK COUNTY: Las Vegas Wash (Cov, 1893); Boulder  
Dock (CJ, 1944).

Opuntia acanthocarpa Engelm. & Bigelow (buckhorn cholla)

MOHAVE COUNTY: Mile 205 (CJ, 1944); Quartermaster  
Canyon (CJ, 1944); Surprise Canyon (CJ, 1944);  
Common on the flat shelves, lower slopes,  
within the Grand Canyon and lower rims (P,  
1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Virgin River Valley (Cov, 1897);  
Boulder Dock (CJ, 1944).

Opuntia basilaris Engelm. & Bigel. (beavertail cactus)

MOHAVE COUNTY: Mile 193 (CJ, 1944); Mile 205 (CJ, 1944); Abundant at Spencer Canyon (CJ, 1944); 2 miles above Emory Falls (CJ, 1944); Common on flat shelves, lower slopes, and dry side canyons at low elevations (P, 1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Valley of the Virgin and Muddy Rivers (Cov, 1893); Boulder Dock (CJ, 1944).

Opuntia bigelovii Engelm. (jumping cholla)

MOHAVE COUNTY: Mile 193 (CJ, 1944); Spencer Canyon (CJ, 1944); Peach Springs Wash (VM, 1976).

CLARK COUNTY: From Searchlight to the Colorado River (D, 1953).

Opuntia chlorotica Engelm. & Bigel. (pancake-pear)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Opuntia echinocarpa Engelm. & Bigel. (silver cholla)

MOHAVE COUNTY: Mouth of Spencer Canyon (CJ, 1944); Scattered on flat shelves in the Grand Canyon (P, 1975).

Opuntia erinacea Engel. & Bigel. var. utahensis (Engel.)

Benson (old man cactus)

MOHAVE COUNTY: Spencer Canyon (CJ, 1944).

Opuntia phaeacantha Engelm. (Mohave prickly-pear)

MOHAVE COUNTY: Scattered on ledges in steep side canyons above Emory Falls (P, 1975); Peach Springs Wash (VM, 1976).

Opuntia whipplei Engelm. & Bigel. (Whipple cholla)

MOHAVE COUNTY: Lava Falls (CJ, 1944); Mile 225  
(CJ, 1944); Rare in dry side canyon in the  
Grand Canyon (P, 1975); Common the North rim  
(P, 1975); Peach Springs Wash (VM, 1976).

Pediocactus simpsonii (Engelm.) Britton & Rose

MOHAVE COUNTY: Scattered on the Shivwits Plateau  
(P, 1975).

ONAGRACEAE (Evening-Primrose Family)

Camissonia brevipes (Gray) Raven

MOHAVE COUNTY: Abundant on talus slope below Rampart  
Cave (P, 1975); Very common along roadside  
south of Pierce Ferry (P, 1975).

CLARK COUNTY: In the canyon above Hemenway Wash  
(D, 1953).

Camissonia clavaeformis (Torr. & Frem.) Raven

var. aurantiaca (Wats.) Raven

MOHAVE COUNTY: Pierce Ferry (P, 1975).

Camissonia multijuga Wats.

MOHAVE COUNTY: 2 miles above Emory Falls (CJ,  
1944); Scattered in side canyons (Emory Falls)  
and flat areas in the Grand Canyon (P, 1975).

Camissonia multijuga Wats. var. parviflora (Wats.)

Munz

MOHAVE COUNTY: Separation Canyon (CJ, 1944); below  
Spencer Canyon (CJ, 1944).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Camissonia refracta (Wats.) Raven

MOHAVE COUNTY: Scattered on lower slopes and in side canyons in the Grand Canyon (P, 1975).

CLARK COUNTY: Lake Mead (D, 1953).

Oenothera cavernae Munz

MOHAVE COUNTY: Occasional on steep slopes near Rampart Cave and above Emory Falls (P, 1975).

APIACEAE [= UMBELLIFERAE] (Parsley Family)

Bowlesia incana Ruiz & Pavon

MOHAVE COUNTY: Black Mountains (I, 1860); Scattered in seeps and glens, as at Emory Falls (P, 1975).

Cymopterus purpurascens (Gray) Jones

MOHAVE COUNTY: Scattered on the North Rim and on the Shivwits Plateau (P, 1975).

PRIMULACEAE (Primrose Family)

Primula specuicola Rydb. (primrose)

MOHAVE COUNTY: Abundant on walls near Emory Falls (CJ, 1944).

Samolus ebracteatus HBK. (water-pimpernel)

CLARK COUNTY: Along the Muddy River (KP, 1969).

PLUMBAGINACEAE (Plumbago Family)

Limonium californicum (Boiss.) Heller (sea-lavender)

CLARK COUNTY: Abundant in Las Vegas Wash (I, 1893); Las Vegas Wash, Nevada side of the Colorado River, near Lake Mead (KP, 1969).

OLEACEAE (Olive Family)

Fraxinus cuspidata Torr. (ash)

MOHAVE COUNTY: Found only in the lower woodland

at the base of the Grand Wash Cliffs (P, 1975).

Fraxinus pennsylvanica Marshall [= F. velutina Torr.] (ash)

MOHAVE COUNTY: 2 miles above Emory Falls (CJ,

1944); Evans Heaven, mile 271 (Ca, 1974; P,

1975); In glens and moist side canyons near

the Lake at Ash Seep, Mile 272 (P, 1975);

Peach Springs Wash (VM, 1976).

#### GENTIANACEAE (Gentian Family)

Centaurium calycosum (Buckl.) Fernald. (centaury)

CLARK COUNTY: Colorado River below Hoover Dam

(D, 1953).

Frasera albomarginata Wats. (green gentian)

MOHAVE COUNTY: Scattered on the Shivwits Plateau

(P, 1975).

#### APOCYNACEAE (Dogbane Family)

Amsonia eastwoodiana Rydb.

MOHAVE COUNTY: Steep talus slope above Emory

Falls (P, 1975).

#### ASCLEPIADACEAE (Milkweed Family)

Sarcostemma cynanchoides Decne.

ssp. hartwegii (Vail) Holm.

MOHAVE COUNTY: Found in the vicinity of one small

seep on the north shore of the Lake at Mile

274 (P, 1975); Emory Falls Canyon, just above

the Falls (P, 1975).

Sarcostemma hirtellum (Gray) Holm.



MOHAVE COUNTY: Common in moist side canyons, especially

Emory Falls Canyon (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

CONVOLVULACEAE (Morning-Glory Family)

Cressa truxillensis HBK. (alkali weed)

CLARK COUNTY: Valley of the Virgin River (Cov, 1893).

Cuscuta denticulata Englem. (dodder)

CLARK COUNTY: Parasitic on Larrea at Boulder City  
(CJ, 1944).

POLEMONIACEAE (Phlox Family)

Eriastrum diffusum (Gray) Mason

MOHAVE COUNTY: Mouth of Granite Park Creek (mile 209)  
(P, 1974).

Eriastrum sapphirinum (Eastw.) Mason

ssp. ambiguum (Jones) Mason

CLARK COUNTY: Near the mouth of Las Vegas Wash (Cov, 1893).

Gilia filiformis Parry ex. Gray

CLARK COUNTY Canyon above Hemenway Wash (D, 1953).

Gilia latifolia Wats.

MOHAVE COUNTY: Found only along the Lake Shore at  
Pierce Ferry (P, 1975).

Gilia scopulorum Jones

MOHAVE COUNTY: Common, steep slopes and lower alluvial fans  
in the Grand Canyon and at Pierce Ferry (P, 1975).

Ipomopsis polycladon (Torr.) Grant

CLARK COUNTY: Valley of the Virgin River (Cov, 1893).

Langlosia schottii (Torr.) Greene

CLARK COUNTY: Near Las Vegas Wash (Cov, 1893).

Langlosia setosissima (Torr. & Gray) Greene

MOHAVE COUNTY: Rare on lower slopes in the Grand Canyon (P, 1975).

Linanthus aureus (Nutt.) Greene

MOHAVE COUNTY: Rare on lower slopes in the Grand Canyon (P, 1975).

Linanthus bigelovii (Gray) Greene

MOHAVE COUNTY: 3 miles south of Temple Bar along the Temple Bar Road (P, 1973).

Linanthus demissus (Gray) Greene

MOHAVE COUNTY: Fort Mohave (Cov, 1893); Scattered near Rampart Cave, in side canyons in the Grand Canyon, also at Pierce Ferry (P, 1975).

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

Linanthus jonesii (Gray) Greene

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

#### HYDROPHYLLACEAE (Waterleaf Family)

Eucrypta chrysanthemifolia (Benth.) Greene

MOHAVE COUNTY: Common in washes of alluvial fans and in dry side canyons at low elevations on both sides of the Grand Canyon (P, 1975).

Eucrypta micrantha (Torr.) Heller

MOHAVE COUNTY: Common in small open seeps and washes of gentle slopes, especially near Rampart Cave (P, 1975).

Nama demissum Gray (purple-mat)

MOHAVE COUNTY: Occasional on flat shelves near  
Rampart Cave and at Pierce Ferry (P, 1975).

CLARK COUNTY: In Las Vegas Wash (Cov, 1893);  
Canyon above Hemenway Wash (D, 1953).

Phacelia coerulea Greene

MOHAVE COUNTY: Scattered on steep talus slopes  
below Rampart Cave (P, 1975).

Phacelia crenulata Torr.

MOHAVE COUNTY: Scattered on gentle slopes at low  
elevations in the Grand Canyon and Pierce  
Ferry (P, 1975).

CLARK COUNTY: Hoover Dam (D, 1953).

Phacelia cryptantha Greene

MOHAVE COUNTY: Scattered among shrubs on flat  
shelves, in dry side canyons, and at Pierce  
Ferry (P, 1975).

Phacelia distans Benth.

MOHAVE COUNTY: Diamond Creek, Mile 225 (P, 1973).

Phacelia glechomaefolia Gray

MOHAVE COUNTY: Common and widespread on alluvial  
fans and talus slopes in the Grand Canyon  
(P, 1975).

Phacelia ivesiana Torr.

MOHAVE COUNTY: Diamond River Canyon (I, 1860).

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Phacelia laxiflora Howell

MOHAVE COUNTY: Rare in moist shady seeps above  
Emory Falls (P, 1975).

Phacelia lemmonii Gray

CLARK COUNTY: Las Vegas Wash, opposite gypsum  
cliffs (Cov, 1893).

Phacelia palmeri Torr. ex. Wats.

CLARK COUNTY: Las Vegas Wash (D, 1953).

Phacelia pulchella Gray

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Phacelia rotundifolia Torr. ex. Wats.

MOHAVE COUNTY: Infrequent in shady areas in dry  
side canyons and at Pierce Ferry (P, 1975).

Pholistoma auritum (Lindl.) Lilja

MOHAVE COUNTY: Occasional in rocky areas of lower  
slopes and dry side canyons in the Grand  
Canyon (P, 1975).

Tricardia watsonii Torr. ex. Wats.

MOHAVE COUNTY: Rare on slopes below Mauv Caves  
(P, 1975).

#### BORAGINACEAE (Borage Family)

Amsinckia intermedia Fisch. & Meyer (fiddleneck)

MOHAVE COUNTY: Scattered in small seeps below  
Rampart Cave (P, 1975).

Amsinckia tessellata Gray (fiddleneck)

CLARK COUNTY: Mouth of Las Vegas Wash (Cov, 1893).

Coldenia canescens DC.

MOHAVE COUNTY: Occasional on the Canyon rims (P,  
1975).

CLARK COUNTY: Near Bunkerville, Nevada (Cov,  
1893).

Coldenia hispidissima (Torr.) Gray

MOHAVE COUNTY: Occasional on slopes and dry side  
canyons, especially in Emory Falls Canyon  
(P, 1975).

Coldenia plicata (Torr.) Cov.

CLARK COUNTY: Near Boulder Boat Dock (CJ, 1944);  
Along road near Hoover Dam and Lake Mead (D,  
1953).

Cryptantha angustifolia (Torr.) Greene

MOHAVE COUNTY: Pierce Ferry (P, 1975).

CLARK COUNTY: Las Vegas Wash (Cov, 1893).

Cryptantha barbigera (Gray) Greene

MOHAVE COUNTY: Scattered on steep, rocky slopes  
near Rampart Cave (P, 1975).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Cryptantha holoptera (Gray) Macbr.

MOHAVE COUNTY: Scattered on steep, rocky slopes  
near Rampart Cave (P, 1975).

Cryptantha inaequata Johnst.

MOHAVE COUNTY: Common on steep, rocky slopes in  
the Grand Canyon and at Pierce Ferry (P, 1975).

Cryptantha intermedia (Gray) Greene

CLARK COUNTY: In the Las Vegas Wash (Cov, 1893).

Cryptantha micrantha (Torr.) Johnst.

MOHAVE COUNTY: Scattered in sandy areas on lower

slopes in the Grand Canyon and at Pierce Ferry (P, 1975).

Cryptantha nevadensis Nels. & Kenn.

MOHAVE COUNTY: Widespread and common in dry areas at low elevations in the Grand Canyon and Pierce Ferry (P, 1975).

Cryptantha pterocarya (Torr.) Greene

MOHAVE COUNTY: Common and widespread at lower elevations in the Grand Canyon (P, 1975).

Cryptantha pterocarya (Torr.) Greene var. cycloptera (Greene) Macbr.

MOHAVE COUNTY: Diamond Creek (Mile 225) and the Rampart Cave area (Ca, 1974).

Cryptantha racemosa (Wats.) Greene

MOHAVE COUNTY: In gravel bed on north side of Lake Mead (P, 1975).

Cryptantha utahensis (Gray) Greene

MOHAVE COUNTY: Evan's Heaven, Mile 271, and Rampart Cave Area (P, 1975).

Cryptantha virginensis (Jones) Pays.

MOHAVE COUNTY: Rare on rocky slopes in the side canyon just upstream from Rampart Cave (P, 1975).

Heliotropium curassavicum L. var. oculatum (Heller)

Johnst. (heliotrope)

MOHAVE COUNTY: Spencer Canyon (CJ, 1944); Scattered on Lake Mead mud flats below Rampart Cave (P, 1975).

CLARK COUNTY: Near St. Thomas (Cov, 1893).

Pectocarya heterocarpa (Johnst.) Johnst.

MOHAVE COUNTY: Common on flats and lower slopes  
near Rampart Cave and at Pierce Ferry (P,  
1975).

Pectocarya platycarpa (Munz & Johnst.) Munz & Johnst.

MOHAVE COUNTY: Common on flats and lower slopes  
near the bottom of the Canyon and at Pierce  
Ferry (P, 1975).

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

Plagiobothrys arizonicus (Gray) Greene

MOHAVE COUNTY: Rare on flat shelves, on traver-  
tine flats on the north side of Lake Mead  
at Mile 275 (P, 1975).

#### VERBENACEAE (Vervain Family)

Lippia lanceolata Michx.

CLARK COUNTY: Along ditches at St. Thomas (D,  
1953).

Lippia wrightii Gray

MOHAVE COUNTY: Rare on rocky slopes in the Grand  
Canyon, common on both rims (P, 1975); Peach  
Springs Wash (VM, 1976).

Verbena bracteata Lag. & Rodr. (verbena)

MOHAVE COUNTY: Along the lakeshore at Pierce  
Ferry (P, 1975).

Verbena ciliata Benth. (verbena)

MOHAVE COUNTY: Scattered along the south rim of

the Grand Canyon above Emory Falls (P, 1975).

Verbena gooddingii Briq. (verbena)

MOHAVE COUNTY: Common on rocky slopes in dry side canyons and along the shore of Lake Mead in the Grand Canyon (P, 1975).

CLARK COUNTY: Eldorado Canyon (D, 1953).

LAMIACEAE [= LABIATAE] (Mint Family)

Hedeoma nanum (Torr.) Briq. (mock pennyroyal)

MOHAVE COUNTY: Separation Canyon (CJ, 1944); Common on rock faces, steep slopes and dry side canyons of the Grand Canyon (P, 1975).

Salazaria mexicana Torr. (bladder-sage)

MOHAVE COUNTY: Scattered on rocky slopes and on the north rim of the Grand Canyon (P, 1975).

CLARK COUNTY: Muddy Mts. (Cov, 1893); Hemenway Wash (D, 1953).

Salvia columbariae Benth. (chia)

MOHAVE COUNTY: White Hills between Temple Bar and Pierce Ferry (P, 1973).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Salvia dorrii (Kell.) Abrams ssp. dorrii

[= Salvia carnosa Dougl. ssp. pilosa Jeps.] (sage)

MOHAVE COUNTY: White Hills between Temple Bar and Pierce Ferry (P, 1973); Infrequent in dry side canyons and on the north rim of the Grand Canyon (P, 1975); Peach Springs Wash (VM, 1976).



SOLANACEAE (Nightshade Family)

Datura meteloides DC. (Jimsonweed)

MOHAVE COUNTY: Common on Lake Mead between Spencer Canyon and Emory Falls (CJ, 1944); Above Emory Falls (P, 1975); Peach Springs Wash (VM, 1976).

Lycium andersonii Gray

MOHAVE COUNTY: Scattered on steep rocky slopes in the Grand Canyon (P, 1975); Lower elevations in Peach Springs Wash (VM, 1976).

CLARK COUNTY: Grapevine Canyon (Cov, 1893).

Lycium fremontii Gray

MOHAVE COUNTY: Rare, Juniper Seep, Mile 268 (P, 1975).

Lycium pallidum Miers.

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Lycium torreyi Gray

CLARK COUNTY: Valley of the Muddy River, St. Thomas (Cov, 1893).

Nicotiana trigonophylla Dunal. in A. DC. (tobacco)

MOHAVE COUNTY: Common on steep rocky slopes, side canyons in the Grand Canyon and mud flats along Lake Mead (P, 1975).

Physalis crassifolia Benth. (ground-cherry)

MOHAVE COUNTY: Common at Separation Rapid and Spencer Canyon (CJ, 1944); Common on rocky slopes and in side canyons in the Grand Canyon (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Solanum americanum Mill. (nightshade)

MOHAVE COUNTY: Rare in side canyons in the Grand Canyon and on Lake Mead mud flats (P, 1975).

Solanum douglasii Dunal. (nightshade)

MOHAVE COUNTY: Separation Canyon (CJ, 1944).

Solanum rostratum Dunal. (buffalo-bur)

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

SCROPHULARIACEAE (Figwort Family)

Antirrhinum filipes Gray

MOHAVE COUNTY: Type locality: Fort Mohave (Cov, 1893); Occasional on steep rock slopes in the Grand Canyon (P, 1975):

Castilleja chromosa Nels. (paint-brush)

MOHAVE COUNTY: White Hills between Temple Bar and Pierce Ferry (P, 1973); Common among shrubs on the lower rims of the Grand Canyon and in a dry side canyon just above Rampart Cave (P, 1975).

Maurandya antirrhiniflora Humb. & Bonpl.

MOHAVE COUNTY: Canyon of the Diamond River (I, 1860); Separation and Quartermaster Canyons

(CJ, 1944); Common in glens, seeps, and moist shady habitats in the Grand Canyon (P, 1975).

Mimulus bigelovii Gray (monkey-flower)

MOHAVE COUNTY: Rare on rocky slopes in the Grand Canyon and at Pierce Ferry (P, 1975).

Mimulus cardinalis Dougl. (monkey-flower)

MOHAVE COUNTY: Emory Falls and Quartermaster Canyon (CJ, 1944); Common in glens, seeps and moist side canyons in the Grand Canyon (P, 1975).

Mohavea breviflora Cov.

MOHAVE COUNTY: Rare on rocky slopes in the Grand Canyon (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Penstemon eatonii Gray var. undosus (Jones) Keck

MOHAVE COUNTY: Common in dry side canyons in the Canyon (P, 1975).

Penstemon palmeri Gray (beard-tongue)

MOHAVE COUNTY: Occasional in open side canyons in the Grand Canyon (P, 1975).

Penstemon subulatus Jones

MOHAVE COUNTY: Base of the Upper Grand Wash Cliffs (P, 1975).

Veronica anagallis-aquatica L. (speedwell)

MOHAVE COUNTY: Common in moist side canyons and glens in the Grand Canyon (P, 1975).

#### BIGNONIACEAE (Bignonia Family)

Chilopsis linearis (Cov.) Sweet (desert-willow)

MOHAVE COUNTY: Separation Rapids (CJ, 1944);  
Peach Springs Wash (VM, 1976).

PLANTAGINACEAE (Plantain Family)

Plantago insularis Eastw. (plantain)

MOHAVE COUNTY: Common on lower slopes and flat  
areas and in dry side canyons of the Grand  
Canyon (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Plantago major L. (common plantain)

CLARK COUNTY: Colorado River below Hoover Dam  
(D, 1953).

Plantago patagonica Jacq.

CLARK COUNTY: Valley of the Virgin River (Cov,  
1893).

RUBIACEAE (Madder Family)

Galium aparine L. (bedstraw)

MOHAVE COUNTY: Scattered along streams and in  
moist side canyons in the Grand Canyon (P,  
1975).

Galium stellatum Kellogg. (bedstraw)

MOHAVE COUNTY: Common in the cracks on rock faces  
and on steep rocky slopes in the Grand  
Canyon (P, 1975).

CUCURBITACEAE (Gourd Family)

Marah fabaceus (Naud.) Greene (wild cucumber)

MOHAVE COUNTY: Black Canyon (I, 1860).

CAMPANULACEAE (Bellflower Family)

Nemacladus glanduliferus Jeps.

MOHAVE COUNTY: Scattered in small seeps and the bottoms of dry side canyons within the Grand Canyon (P, 1975).

ASTERACEAE [= COMPOSITAE] (Sunflower Family)

Acamptopappus sphaerocephalus (Harv. & Gray) Gray (goldenhead)

MOHAVE COUNTY: Rare on lower slopes below Rampart Cave near Lake Mead (P, 1975).

Ambrosia acanthicarpa Hook. (sand-bur)

MOHAVE COUNTY: Separation Canyon (CJ, 1944); low elevations in Peach Springs Wash (VM, 1976).

Ambrosia dumosa (Gray) Payne (bur-sage)

MOHAVE COUNTY: Common and widespread in all habitats below the Rim except seeps (P, 1975); Dominant at Pierce Ferry (P, 1975).

CLARK COUNTY: Boulder Dock (CJ, 1944); Boulder City (D, 1953).

Amphipappus fremontii Torr. & Gray (chaff-bush)

MOHAVE COUNTY: Common on lower slopes and flat shelves on both sides of Lake Mead in the Grand Canyon (P, 1975).

CLARK COUNTY: Bunkerville (Cov, 1893).

Artemisia ludoviciana Nutt.

MOHAVE COUNTY: Seeps and side canyons at lower elevations in the Grand Canyon (P, 1975); South rim of the Grand Canyon (P, 1975).

Artemisia tridentata Nutt. (sagebrush)

MOHAVE COUNTY: Abundant on the Shivwits Plateau  
(P, 1975); Peach Springs Wash (VM, 1976).

Aster arenosus (Heller) Blake

[= A. hirtifolius Blake] (aster)

MOHAVE COUNTY: Rare on the South rim of the Grand  
Canyon (P, 1975).

Atrichoseris platyphylla Gray (tobacco-weed)

MOHAVE COUNTY: 3 miles south of Temple Bar (P,  
1973); Scattered in seeps, side canyons, and  
on flats at low elevations in the Grand Canyon  
and Pierce Ferry (P, 1975).

CLARK COUNTY: Mouth of Las Vegas Wash and in  
the Valley of the Virgin River near St. Thomas  
(Cov, 1893).

Baccharis emoryi Gray (seep-willow)

MOHAVE COUNTY: Mile 214 (M, 1970); Common along  
the Lake shore and glens in the Grand Canyon  
(P, 1975).

Baccharis glutinosa Pers. (mule fat)

MOHAVE COUNTY: Separation, Spencer, and Quarter-  
master Canyons (CJ, 1944); Common in moist  
side canyons in the Grand Canyon (P, 1975);  
Peach Springs Wash (VM, 1976).

CLARK COUNTY: Valleys of the Virgin and Muddy  
Rivers (Cov, 1893). Colorado River below  
Hoover Dam (D, 1953).

Baccharis sarathroides Gray (broom baccharis)

MOHAVE COUNTY: Mile 205 (CJ, 1944).

Baccharis sergiloides Gray (squaw waterweed)

MOHAVE COUNTY: Scattered in moist seeps and on mud flats near the lakeshore (P, 1975).

Baileya multiradiata Harv. & Gray (desert-marigold)

MOHAVE COUNTY: Occasional on the upper mud flats along the lakeshore (P, 1975); Pierce Ferry (P, 1975).

Baileya pleniradiata Harv. & Gray (desert-marigold)

CLARK COUNTY: Hemenway Wash (D, 1953).

Bebbia juncea (Benth.) Greene (sweet bush)

MOHAVE COUNTY: Common on rocky areas in side canyons on both sides of the Grand Canyon (P, 1975).

Brickellia arguta Rob. [= B. atractyloides Gray]

MOHAVE COUNTY: Separation Canyon (CJ, 1944); Common in dry side canyons within the Grand Canyon and on the lower rims (P, 1975); Peach Springs Wash (VM, 1976).

Brickellia coulteri Gray

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Brickellia longifolia Wats.

MOHAVE COUNTY: 2 miles above Emory Falls (CJ, 1944); Common in dry side canyons and along the lakeshore in the Grand Canyon (P, 1975); Peach Springs Wash (VM, 1976).

Calycoseris wrightii Gray

MOHAVE COUNTY: 3 miles south of Temple Bar (P, 1973).

Chaenactis carphoclinia Gray

CLARK COUNTY: Valley of the Virgin River, near St. Thomas (Cov, 1893); Canyon above Hemenway Wash (D, 1953).

Chaenactis fremontii Gray

MOHAVE COUNTY: Common on flat shelves and lower slopes in the Grand Canyon, also at Pierce Ferry (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Chrysothamnus depressus Nutt. (rabbit-brush)

MOHAVE COUNTY: Shivwits Plateau (P, 1975).

Chrysothamnus nauseosus (Pall.) Britt. (rabbit-brush)

MOHAVE COUNTY: Base of the upper Grand Wash Cliffs (P, 1976).

Chrysothamnus paniculatus (Gray) Hall (rabbit-brush)

CLARK COUNTY: Mouth of Las Vegas Wash (Cov, 1893).

Cirsium undulatum (Nutt.) Spreng. (thistle)

MOHAVE COUNTY: 2 miles above Emory Falls (CJ, 1944).

Dyssodia pentachaeta (DC.) Rob.

MOHAVE COUNTY: Occasional in dry side canyons in the Grand Canyon (P, 1975).

Dyssodia thurberi (Gray) Nels.

MOHAVE COUNTY: Occasional on flat shelves and



near the lakeshore, in the Grand Canyon (P,  
1975).

Encelia farinosa Gray ex Torr. (brittle-bush)

MOHAVE COUNTY: Common and widespread in all habitats  
below the Rims in the Grand Canyon (P, 1975);  
Pierce Ferry (P, 1975); Low elevations in  
Peach Springs Wash (VM, 1976).

Encelia frutescens Gray

MOHAVE COUNTY: Ash Seep, Mile 268 (P, 1975).

Enceliopsis covillei (Nels.) Blake [= Enceliopsis  
argophylla (D.C. Eat.) Nels. var. grandiflora (Jones)  
Jeps.]

CLARK COUNTY: Gypsum cliffs in Las Vegas Wash  
(Cov, 1893); Hemenway Harbor (P, 1953).

Erigeron concinnus (Hook. & Arn.) Torr. & Gray (fleabane)

MOHAVE COUNTY: Scattered on the Shivwits Plateau  
(P, 1975).

Erigeron divergens T. & G. (fleabane)

CLARK COUNTY: Black Canyon (I, 1860).

Erigeron lobatus Nels. (fleabane)

MOHAVE COUNTY: Separation Canyon (CJ, 1944);  
Uncommon in protected areas in side canyons  
in the Grand Canyon (P, 1975).

Eriophyllum lanosum Gray

MOHAVE COUNTY: Common on shelves and lower slopes  
in dry side canyons in the Grand Canyon (P,  
1975); Pierce Ferry (P, 1975).

CLARK COUNTY: In the Valley of the Virgin River  
near St. Thomas (Cov, 1893); Lake Mead (D,  
1953).

Eriophyllum wallacei Gray in Torr.

MOHAVE COUNTY: Uncommon on lower slopes and in  
dry side canyons in the Grand Canyon (P,  
1975).

Filago californica Nutt.

MOHAVE COUNTY: Scattered in dry sandy washes of  
lower slopes below Rampart Cave (P, 1975).

Geraea canescens T. & G. [= Encelia eriocephala Gray] (desert-gold)

CLARK COUNTY: Valley of the Virgin River (Cov,  
1893); Hemenway Wash (D, 1953).

Gnaphalium chilense Spreng. (everlasting)

CLARK COUNTY: Colorado River (D, 1953).

Gnaphalium palustre Nutt. (everlasting)

MOHAVE COUNTY: On Lake Mead mud flats, Mile 271  
(P, 1975).

Gnaphalium wrightii Gray (everlasting)

MOHAVE COUNTY: Common on Lake Mead mud flats in  
the lower portions of the Grand Canyon (P,  
1975).

Gutierrezia microcephala (DC.) Gray (snakeweed)

MOHAVE COUNTY: Common in all habitats in the Grand  
Canyon except glens (P, 1975).

Haplopappus acradenius (Greene) Blake

MOHAVE COUNTY: Separation Rapids (CJ, 1944);

Scattered in side canyons and near the lake-shore below Rampart Cave (P, 1975); Peach Springs Wash (VM, 1976).

Haplopappus gooddingii (Nels.) M & J

MOHAVE COUNTY: 2 miles above Emory Falls on Lake Mead (CJ, 1944); Common at all locations within the Grand Canyon below the Rims (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Haplopappus linearifolius DC.

MOHAVE COUNTY: North rim of the Grand Canyon on the Sanup Plateau (P, 1975); Peach Springs Wash (VM, 1976).

Hymenoclea salsola Torr. & Gray var. salsola

CLARK COUNTY: Hemenway Wash (D, 1953).

Hymenoclea salsola Torr. & Gray var. pentalepis (Rydb.)

Benson

MOHAVE COUNTY: 3 miles south of Temple Bar (P, 1973).

CLARK COUNTY: Black Canyon (I, 1860).

Machaeranthera canescens (Pursh) Gray

CLARK COUNTY: Type locality: Near St. Thomas (Cov, 1893); Lake Mead (D, 1953).

Machaeranthera tortifolia (Gray) Cronq. & Keck.

MOHAVE COUNTY: Occasional in dry side canyons bottoms within the Grand Canyon (P, 1975).

Malacothrix glabrata Gray

MOHAVE COUNTY: Common in sandy washes at Pierce Ferry (P, 1975).

Melampodium leucanthum Torr. & Gray

MOHAVE COUNTY: Near mouth of Separation Canyon  
(CJ, 1944); Peach Springs Wash (VM, 1976).

Palafoxia linearis (Cav.) Lag.

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

Parthenium incanum HBK.

MOHAVE COUNTY: Peach Springs Wash (VM, 1976).

Perezia wrightii Gray

MOHAVE COUNTY: Rare in shady, protected habitats  
in the Grand Canyon (P, 1975); Occasional on  
the North Rim of the Grand Canyon (P, 1975).

Perityle emoryi Torr. in Emory

MOHAVE COUNTY: Occasional in dry side canyons on  
both sides of the Grand Canyon often in rocky  
areas (P, 1975).

CLARK COUNTY: Hemenway Wash (D, 1953).

Peucephyllum schottii Gray (pigmy-cedar)

MOHAVE COUNTY: Between Spencer Canyon and Emory  
Falls (CJ, 1944); Occasional on slopes above  
side canyons and in rocks along formerly  
flooded shoreline in the Grand Canyon (P,  
1975); Low elevations in Peach Springs Wash  
(VM, 1976).

CLARK COUNTY: Hemenway Wash (D, 1953).

Pleurocoronis pluriseta (Gray) King & Robinson

[= Hofmeisteria pluriseta Gray]

MOHAVE COUNTY: Separation Rapids (CJ, 1944);

Mile 214 (M, 1970); Common on rock faces, steep rock slopes, and in dry side canyons in the Grand Canyon (P, 1975); Lower elevations in Peach Springs Wash (VM, 1976).

CLARK COUNTY: Hemenway Wash (D, 1953).

Pluchea sericea (Nutt.) Cov. (arrow-weed)

MOHAVE COUNTY: Common on Lake Mead mud flats and in moist side canyons in the Grand Canyon (P, 1975); Prevelant along shoreline at Pierce Ferry (P, 1975); Peach Springs Wash (VM, 1976).

CLARK COUNTY: Along the Colorado River (D, 1953).

Porophyllum gracile Benth.

MOHAVE COUNTY: Widespread on rocky slopes within the Grand Canyon (P, 1975); Peach Springs Wash (VM, 1976).

Psathyrotes ramosissima Torr. in Emory

CLARK COUNTY: In Las Vegas Wash (Cov, 1893).

Rafinesquia neomexicana Gray (desert-chichory)

MOHAVE COUNTY: Common on lower slopes in the Grand Canyon and at Pierce Ferry (P, 1975).

Sonchus asper (L.) Hill (sow-thistle)

MOHAVE COUNTY: Scattered on Lake Mead mud flats and seeps at low elevations (P, 1975).

Stephanomeria exigua Nutt.

MOHAVE COUNTY: Scattered on lower slopes and in side canyons in the Grand Canyon (P, 1975).

CLARK COUNTY: Canyon above Hemenway Wash (D, 1953).

Trixis californica Kellogg

MOHAVE COUNTY: Diamond River Canyon (I, 1860);  
Rare on steep rocky slopes within the Grand  
Canyon (P, 1975); Peach Springs Wash (VM,  
1976).

Viguiera deltoidea Gray

MOHAVE COUNTY: Common on rocky slopes and in  
dry side canyons in the Grand Canyon (P, 1975);  
Peach Springs Wash (VM, 1976).

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LAKE MEAD NATIONAL RECREATION AREA

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## THE VERTEBRATES OF THE LAKE MEAD NATIONAL RECREATION AREA

The large expanse of territory within the Lake Mead National Recreation Area (LMNRA) has a wide diversity of biotic communities from aquatic to xeric which provide suitable habitats for a large number of vertebrate species. Descriptions of the biotic communities of Arizona and southern Nevada have been presented by Lowe (1964) and Bradley and Deacon (1967). Certain parts of this area, especially in the vicinity of the Colorado River and the lakes, are well known but other, more remote, regions of LMNRA are nearly totally unknown biologically.

Records included in the following checklist were drawn from numerous sources in the literature. Most are from within the LMNRA boundaries. In certain instances, however, reports from other localities outside the LMNRA have been included. Boulder City, located a few miles beyond the boundary was included since there are a large number of, especially bird, records from within the city which add importantly to the distribution in the overall region. Overton, located in the Muddy River Valley, approximately one mile beyond the boundary was included for similar reasons. Las Vegas Wash presents a slightly different problem, stretching as it does from the shore of Lake Mead to several

miles beyond the border of the recreation area. Reports of vertebrates within the Las Vegas Wash may have limited value unless the location within the wash is known. These records, however, are important as Las Vegas Wash has had intensive study. One other locality outside the recreation area of importance, Fort Mohave, is discussed below under birds. Throughout this report, localities not within the actual LMNRA have been labeled with an asterisk (\*).

This compilation represents the occurrences of vertebrates within or adjacent to the LMNRA as reported in the literature. No attempt was made to distinguish between verified records. This list, therefore, contains some records which require specimen support for complete acceptance. A later report will consider the merits of each recorded occurrence.

The fish fauna of LMNRA received relatively little attention until comparatively recently. The Lake Mead fishery was reported on in some detail by Moffett (1942, 1943). The status of the LMNRA fish was further reported on by Wallis (1951). LaRivers and Trelease (1952) and LaRivers (1962) published listings of Nevada fishes as did Minckley (1973) for Arizona. The ecological distribution of fishes in two tributaries to the Colorado River in southern Nevada were investigated by Deacon and Bradley (1972) and Cross (1975). Additional studies of introduced fish and the effects of the latter and man on native fish were reported by several authors (Miller and Alcorn 1946, Miller 1952, Deacon et al. 1964, Hubbs and Deacon 1964). Overall

distribution, taxonomy and history of the southwestern fish fauna were discussed by Miller (1946a, 1948, 1959, 1961), Hubbs and Miller (1948a, b) and Miller and Hubbs (1960).

Amphibians and reptiles of the LMNRA are relatively poorly known. The first extensive surveys of the herpetology of northwestern Arizona and southern Nevada were conducted during the early explorations of the region, the results of which were reported by Yarrow (1875), Yarrow and Henshaw (1878) and Stejneger (1893). Later work was conducted by van Denburgh and Slevin (1921), Klauber (1932), Cowles and Bogert (1936), LaRivers (1942), Bradley and Deacon (1966a) and others. A checklist for the LMNRA was compiled by Grater (1939), for the state of Nevada by Linsdale (1940) and for Arizona in Lowe (1964). A summary of herpetological studies in western United States was published by Banta and Tanner (1964) in which are cited many useful references.

Investigations into the ornithology of what is now the recreation area began long before the construction of either dam. W. J. Hoffman, who joined the Wheeler Survey in Carlin, Nevada, made observations of birds from that location to the southernmost part of the state (Hoffman 1881). A. K. Fisher (1893) published the records of explorations and observations made by the Death Valley Expedition in 1891. The Museum of Vertebrate Zoology of the University of California, sent out many field expeditions that made collections and observations of birds along the Colorado River; these and other records were compiled into the first listing of the birds of Nevada (Linsdale 1936, 1951). A recent study of the distribution

of the birds of Arizona (Phillips et al. 1964) points to the relative lack of information for the Arizona portions of LMNRA.

A center of considerable ornithological work in the early days was Fort Mohave which was formerly located on the Arizona shore of the Colorado River approximately 10 miles south of the present site of Davis Dam. Although the fort was outside the boundary of the LMNRA, records from this area are included in the present report. The relatively short distance that separated the fort from what is now the recreation area makes it quite likely that most of the species recorded from Fort Mohave and adjacent areas of Nevada also occurred further north along the river. Before the changes in the Colorado River caused by the dams, the habitat along the river north of the fort was probably very similar to that at the fort itself. Some observations made at the fort constitute the northernmost recorded occurrence of certain species. These occurrences so close to the recreation area are worth noting.

The first checklist of birds of the LMNRA was produced by R. K. Grater (1934), then a naturalist with the National Park Service. Supplemental observations and collections made subsequently have added numerous species to this original list. The changes in the Colorado River system and the addition of new aquatic and riparian habitat brought about by the formation of the lakes and development of recreation areas have had major influences on the composition of bird

fauna of this area. Consequently, the LMNRA bird list is not static; new species are frequently observed while known ranges of other species within the recreation area are expanding.

Recent investigations into the avifauna of the LMNRA have been conducted by members of the Department of Biological Sciences, University of Nevada, Las Vegas, and by several local birdwatchers.

Mammalian distribution in the Lake Mead area are reported in several regional works most notable of which are Cockrum (1960) and Hoffmeister and Nader (1963) for Arizona and Burt (1934) and Hall (1946) for Nevada. Several additional smaller publications exist which consider distributional records of one or more species (i.e., Cockrum and Musgrove 1964, Ryser 1964, Bradley and Hansen 1965, Bradley 1965, Bradley and Moor 1965). A checklist of the mammals of LMNRA was compiled by Baldwin (1944) and revised by Bentley (1957).



## FISH

### Key to Authors specifically cited in the Fish Checklist:

A	Arizona Fish and Game Department
ABL	Allen, R. C., D. Bancroft, and D. V. Lockard
B	Baldwin, G. C.
BD	Bradley, W. G., and J. E. Deacon
Bu	Burns, J. W.
C	Cross, J. N.
De	Deacon, J. E.
DB	Deacon, J. E., and W. G. Bradley
D	Deming, O. V.
Do	Douglas, P. A.
Di	Dill, W. A.
E	Ellis, M. M.
ED	Espinosa, F. A., and J. E. Deacon
H	Hancock, R. J.
JS	Jonez, A., and E. C. Summer
K	Killian, J.
L	LaRivers, I.
LT	LaRivers, I., and T. J. Trelease
M	Miller, R. R.
MA	Miller, R. R., and J. R. Alcorn
ML	Miller, R. R., and C. H. Lowe
Mi	Minckley, W. L.
Mid	Minckley, W. L., and J. E. Deacon
Mo	Moffett, J. W.
SM	Sigler, W. F., and R. R. Miller
W	Wallis, O. L.
WDB	Wilson, B. L., J. E. Deacon, and W. G. Bradley

For Full Bibliographic Citations: Refer to Fish Bibliography,  
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FISHES OF THE  
LAKE MEAD NATIONAL RECREATION AREA

Craig Downer and John Blake

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## FISH CHECKLIST

### ANGUILLIDAE

Anguilla sp. Freshwater Eel.

Overton Arm, Las Vegas Bay (records of single individuals in 1972; Mi, 1973).

### CLUPEIDAE

Dorosoma petenense. Threadfin Shad.

Lake Mohave (K, 1956; BD, 1965); Lake Mead, lower 5-10 miles (K, 1956); introduced into Overton Arm in 1953 (L, 1962); Lake Mead south through Lake Mead National Recreation Area (L, 1962; Bu, 1966a); Lake Mead; Colorado River (BD, 1965); Las Vegas Wash (De, 1971a; b; c); Callville Bay (De, 1971a).

### SALMONIDAE

Oncorhynchus kisutch. Coho Salmon.

Las Vegas Wash (De, 1971b; 1971c); introduced into Lake Mohave in 1967, Lake Mead in 1969 (Mi, 1973).

Oncorhynchus nerka. Sockeye Salmon.

Lake Mohave (BD, 1965); introduced into Lake Mohave in 1960's, probably none still existing (Mi, 1973).

Salmo clarki. Cutthroat Trout.

Willow Beach, Lake Mohave (D, 1953); uncommon in Lake Mead (Mi, 1973).

Salmo gairdneri. Rainbow Trout.

Lake Mohave (A, 1951; W, 1951; JS, 1954; ABL, 1970; Mi, 1973); Lake Mead (W, 1951; D, 1953; JS, 1954; Mi, 1973); mouth of Eldorado Canyon; Willow Beach (D, 1953); below Davis Dam (JS, 1954); Las Vegas Wash; Callville Bay (De, 1971b).

Salmo trutta. Brown Trout.

Las Vegas Wash arm (W, 1951); Lake Mead; Lake Mohave (JS, 1954; BD, 1965).

#### CYPRINIDAE

Cyprinus carpio. Carp.

Lake Mead (MA, 1946; W, 1951; D, 1953; JS, 1954; BD, 1965; Mi, 1973); Lake Mohave (A, 1951; W, 1951; D, 1953; JS, 1954; BD, 1965; Mi, 1973); below Davis Dam (JS, 1954); Colorado River (BD, 1965; Bu, 1966b); Moapa River (WDB, 1966; DB, 1972); Las Vegas Wash; Callville Bay (De, 1971a; c).

Notemigonus crysoleucus. Golden Shiner.

Lake Mead (BD, 1965).

Carassius auratus. Goldfish.

Lake Mead (W, 1951; D, 1953); Lake Mohave (D, 1953); lakes Mead and Mohave (L, 1962).

Gila atraria. Utah Chub.

Below Hoover Dam (M1, 1964).

Gila robusta. Roundtail Chub.

Below Hoover Dam (Mo, 1942; W, 1951; JS, 1954); Lake Mead (Mo, 1943; W, 1951; JS, 1954); Lake Mohave (A, 1951; JS, 1954; Mi, 1973); main Colorado River channel (LT, 1952; L, 1962); tributaries of Colorado River in southern Nevada (LT, 1952); below Davis Dam (JS, 1954); lower Virgin River (L, 1962; Mi, 1973); Moapa River (WDB, 1966; DB, 1972).

Gila cypha. Humpback Chub.

Formerly downstream to below Hoover Dam (M, 1955).

Plagopterus argentissimus. Woundfin.

Colorado River (BD, 1965).

Ptychocheilus lucius. Colorado Squawfish.

Below Hoover Dam (Mo, 1942); Lake Mead (Mo, 1943; D, 1953); Lake Mohave (A, 1951; D, 1953; JS, 1954; BD, 1965); Eldorado landing (W, 1951); below Davis Dam (JS, 1954); Colorado River (BD, 1965); lower Colorado River (MiD, 1968); population greatly declined, probably extinct in LMNRA (Mi, 1973).

Notropis lutrensis. Red Shiner.

Lake Mohave (K, 1956); Lake Mead, Colorado River (BD, 1965; Mi, 1973); lower Moapa River (WBD, 1966; DB, 1972; C, 1975).

Pimephales promelas. Fathead Minnow.

Colorado River (BD, 1965; Mi, 1973); Moapa River (DB, 1972); Lake Mohave, Lake Mead (Mi, 1973).

#### CATOSTOMIDAE

Catostomus latipennis. Flannelmouth Sucker.

Lake Mohave (JS, 1954; BD, 1965); tributaries to Colorado River above Lake Mead (M, 1955); Colorado River (BD, 1965); Colorado River upstream from Lake Mead (Mi, 1973).

Pantosteus platyrhynchus. Bonneville Mountain Sucker.

Lake Mead (W, 1951); considered as P. delphinus, from bait box or stray from Virgin River (SM, 1963).

Pantosteus sp. Dusky Mountain Sucker.

Lake Mohave (JS, 1954).

Xyrauchen texanus. Humpback Sucker.

Near Fort Mohave (E, 1914); below Hoover Dam (Mo, 1942; Mi, 1973); Lake Mead (Mo, 1943; W, 1951; LT, 1952; JS, 1954; BD, 1965; Mi, 1973); Lake Mohave (A, 1951; W, 1951; LT, 1952; JS, 1954; BD, 1965; Mi, 1973); below Davis Dam (Do, 1952; JS, 1954); river mouths along Colorado River (LT, 1952); shore of Lake Mead (Sm, 1963; Mi, 1973); Colorado River (BD, 1965); nearing extinction in Colorado River below Lake Mohave (Mi, 1973).

## ICTALURIDAE

### Ictalurus punctatus. Channel Catfish.

Below Hoover Dam (Mo, 1942); Lake Mead (Mo, 1943; W, 1951; D, 1953; JS, 1954; BD, 1965; Mi, 1973); Pierce Ferry area (W, 1951; D, 1953); Lake Mohave (A, 1951; D, 1953; BD, 1965; Mi, 1973); lower portions of the Colorado River (LT, 1952); below Davis Dam (JS, 1954); Las Vegas Wash (De, 1971a; c); lower Moapa River (DB, 1972); in river throughout LMNRA (Mi, 1973).

### Ictalurus melas. Black Bullhead.

Boulder Beach (W, 1951); Temple Bar (W, 1951; D, 1953); Hemenway Wash (D, 1953); Lake Mohave (JS, 1954; BD, 1965); Lake Mead (JS, 1954; BD, 1965; Mi, 1973); mouth of Muddy River (JS, 1954); lower Moapa River (DB, 1972).

### Ictalurus natalis. Yellow Bullhead.

Lake Mohave, Lake Mead, Colorado River (Mi, 1973).

## CYPRINODONTIDAE

### Cyprinodon diabolis. Devil's Hole Pupfish.

Below Hoover Dam, in man-made refugium (H, 1974).

## POECILIIDAE

### Gambusia affinis. Mosquito Fish.

Lake Mead (Mo, 1943; JS, 1954; ML, 1964); mouth of Moapa River (MA, 1946); Lake Mead near mouth of Virgin River (L, 1962); Colorado River (BD, 1965); Moapa River (WDB, 1966; DB, 1972); throughout LMNRA (Mi, 1973).

Poecilia mexicanus. Shortfin Molly.

Moapa River (WDB, 1966; DB, 1972).

#### SERRANIDAE

Roccus saxatalis. Striped Bass.

Las Vegas Wash (De, 1971a); below Davis Dam,  
introduced into Lake Mead in late 1960's (Mi,  
1973).

#### CENTRARCHIDAE

Micropterus dolomieu. Smallmouth Bass.

Near mouth of Muddy River (MA, 1946); Lake Mead  
(LT, 1952); below Davis Dam (Mi, 1973).

Micropterus salmoides. Largemouth Bass.

Below Hoover Dam (Mo, 1942; Di, 1944; D, 1953);  
Lake Mead (Mi, 1943; B, 1945; W, 1951, D, 1953;  
JS, 1954; L, 1962; BD, 1965; ED, 1971); Moapa  
River (MA, 1946); Lake Mohave (A, 1951; JS, 1954;  
L, 1962; BD, 1965); below Davis Dam (JS, 1954);  
Colorado River (BD, 1965); Las Vegas Wash; Call-  
ville Bay (De, 1971a); lower Moapa River (DB,  
1972); throughout LMNRA (Mi, 1973).

Lepomis macrochirus. Bluegill.

Lake Mead (Mo, 1943; W, 1951; D, 1953; LT, 1952;  
JS, 1954; L, 1962; ML, 1964; BD, 1965; Mi, 1973);  
Lake Mohave (A, 1951; JS, 1954; L, 1962; BD, 1965;  
Mi, 1973); below Davis Dam (JS, 1954); Colorado  
River (DB, 1965; Mi, 1973); Callville Bay; Las  
Vegas Wash (De, 1971a).

Lepomis cyanellus. Green Sunfish.

Lower portions of Moapa River (MA, 1946; WDB, 1966; DB, 1972); Lake Mead (W, 1951; JS, 1954; ML, 1964; BD, 1965; Mi, 1973); below Davis Dam (JS, 1954); Lake Mohave (JS, 1954; BD, 1965; Mi, 1973); Colorado River (BD, 1965; Mi, 1973); Las Vegas Wash; Callville Bay (De, 1971a).

Pomoxis annularis. White Crappie.

Lake Mohave (A, 1951).

Pomoxis nigromaculatus. Black Crappie:

Lake Mead (MA, 1946; W, 1951; LT, 1952; D, 1953; JS, 1954; BD, 1965; Mi, 1973); Lake Mohave (A, 1951; JS, 1954; BD, 1965; Mi, 1973); Las Vegas Wash (De, 1971a).

PERCIDAE

Stizostedion vitreum. Walleye.

Lake Mead (Mi, 1973).

COTTIDAE

Cottus bairdi. Mottled Sculpin.

Below Davis Dam (Mi, 1973).



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**AMPHIBIANS AND REPTILES**  
**LAKE MEAD NATIONAL RECREATION AREA**

**Jeffrey Schwartz**  
**George T. Austin**

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## AMPHIBIANS AND REPTILES

### Key to Authors specifically cited in the Amphibian and Reptile Checklists:

B	Banta, B. H.
BC	Bogert, C. M., and R. M. del Campo
Bl	Blanchard, F. N.
BrD	Bradley, W. G., and J. E. Deacon
BrN	Bradley, W. G., and W. E. Niles
Bt	Brattstrom, B. H.
CB	Cowles, R. B., and C. M. Bogert
Co	Cope, E. D.
D	Deming, O. V.
G	Grater, R. K.
K	Klauber, L. M.
La	LaRivers, I.
Li	Linsdale, J. M.
MNA	Museum of Northern Arizona
PB	Pheilan, R. L., and R. H. Brattstrom
R	Reeve, W. L.
S	Shaw, C. E.
Sh	Shannon, F. A.
Sj	Stegneger, L. H.
Sm	Smith, H. M.
St	Stebbins, R. C.
T	Tanner, W. W.
UNLV, MC	University of Nevada, Las Vegas, Museum Collection Files
Va	Van Denburgh, J.
Vd	Vanderhorst, A.
Y	Yarrow, H. C.

For Full Bibliographic Citations: Refer to the Amphibian and Reptile Bibliography, pages 123-139.

## AMPHIBIANS

### AMBYSTOMIDAE

Ambystoma tigrinum. Tiger Salamander.

CLARK COUNTY: Las Vegas Wash\* (BrN, 1972).

### PELOBATIDAE

Scaphiopus hammondi. Western Spadefoot.

CLARK COUNTY: Valley of Fire\* (La, 1942).

### BUFONIDAE

Bufo cognatus. Great Plains Toad.

CLARK COUNTY: SE of Overton; Colorado River; opposite  
Fort Mohave\* (Li, 1940).

Bufo microscaphus.

CLARK COUNTY: Davis Dam; Hoover Dam; Las Vegas Wash\*;  
(St, 1951); Eldorado Canyon; Hemenway Wash (D,  
1953).

MOHAVE COUNTY: Willow Beach (St, 1951).

Bufo punctatus. Desert Toad.

CLARK COUNTY: mouth of Boulder Wash (CB, 1936);  
Boulder Dam; Lake Mead area; Bitter Spring;  
Roger's Spring; (Li, 1940); Las Vegas Wash\*  
(BrN, 1972).

MOHAVE COUNTY: Willow Beach (G, 1939); Diamond  
Creek; Whitmore Wash; Stanton's Cave (MNA, 1974).

Bufo woodhousei. Woodhouse's Toad.

CLARK COUNTY: St. Thomas; Lower Muddy and Virgin valleys\* (Sj, 1893); Colorado River below Hoover Dam (G, 1939); SE of Overton; St. Thomas; Colorado River, 25 miles above Boulder Dam; mouth of Virgin River; Muddy River Valley\*; Kaolin Reservoir\* (Li, 1940); LMNRA (St, 1951).

MOHAVE COUNTY: Willow Beach (St, 1951).

#### HYLIDAE

Hyla regilla. Pacific Tree-frog.

CLARK COUNTY: Cottonwood Spring (Sj, 1893); Overton\* (St, 1951); Colorado River, opposite Fort Mohave\* (B, 1961); Las Vegas Wash\* (BrN, 1972).

#### RANIDAE

Rana catesbeiana. Bullfrog.

CLARK COUNTY: introduced and established on Lake Mead (G, 1939); Kaolin Reservoir\* (Li, 1940); Overton\* (St, 1951); Muddy and Virgin rivers\*; Boulder Wash (D, 1953); Las Vegas Wash\* (BrN, 1972).

Rana pipiens. Leopard Frog.

CLARK COUNTY: Boulder Wash; Colorado River; Muddy River\* (CB, 1936); SE of Overton; Roger's Spring; lower Virgin and Muddy river valleys\*; Las Vegas Creek\*; Colorado River, opposite Fort Mohave\* (Li, 1940); Lake Mead area (BrD, 1966a).

## REPTILES

### CHELYDRIDAE

Kinosternon flavescens. Yellow Mud Turtle.

CLARK COUNTY: Pyramid Canyon on W shore of Colorado River (La, 1942).

### TESTUDINIDAE

Gopherus agassizi. Desert Tortoise.

CLARK COUNTY: Lake Mead area (Vd, 1922); Boulder Wash; 1 mile S of Boulder City\* (CB, 1936); along Colorado River and Lake Mead (G, 1939); Boulder City\*; bend of Colorado River; 10 miles S of Searchlight; 3 miles NW of Fort Mohave\* (Li, 1940).

MOHAVE COUNTY: Shivwits Plateau (Vd, 1922).

### TRIONYCHIDAE

Trionyx ferox. Spiny Soft-shelled Turtle.

CLARK COUNTY: N of Black Canyon (CB, 1936); Colorado River, entire Nevada portion (Li, 1940); Colorado River, lakes Mead and Mohave (D, 1953); Virgin and Moapa rivers\* (BrD, 1966a).

MOHAVE COUNTY: Pierce Ferry (St, 1954).

### GEKKONIDAE

Coleonyx variegatus. Western Banded Gecko.

CLARK COUNTY: temporary island near Boulder City boat landing; mouth of Boulder Wash (CB, 1936);



Hemenway Wash; Las Vegas Wash (G, 1939); 20 miles above Boulder Dam, Colorado River; mouth of Virgin River; Colorado River, near Boulder Dam; Colorado River, 5 miles N of California border\* (Li, 1940); Boulder City\*; islands in Lake Mead (K, 1945); Las Vegas Wash\* (BrN, 1972).

#### IGUANIDAE

Dipsosaurus dorsalis. Desert Crested Lizard.

CLARK COUNTY: Callville, great bend of Colorado River; Virgin and Muddy valleys\* (Sj, 1893); N of Black Canyon; Hemenway Wash; Las Vegas Wash\* (CB, 1936); mouth of Virgin River; Valley of Fire\*; Colorado River, 3 and 10 miles above Boulder Dam; Boulder City\*; Searchlight\*; Eldorado Mountains; (Li, 1940); lower Moapa Valley (D, 1953); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: 1 mile N of Black Canyon (CB, 1936).

Sauromalus obesus. Chuckwalla.

CLARK COUNTY: Hemenway Wash; Las Vegas Wash (CB, 1936); Valley of Fire; Searchlight\*; Boulder Dam (Li, 1940); Boulder City; Boulder Wash; W bank of Colorado River; 2½ miles E of St. Thomas (S, 1945); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Stanton's Cave (MNA, 1974).

Callisaurus draconoides. Zebra-tailed Lizard.

CLARK COUNTY: Muddy River Valley\* (Vd, 1922); 2 and 5 miles SE of Overton\*; 8 miles S of St. Thomas; Boulder City\*; Las Vegas Wash\*;

Colorado River, 3 and 12 miles above Boulder Dam; Callville; 5 and 12-20 miles N of Searchlight; Valley of Fire\* (Li, 1940); W shore of Lake Mead (La, 1942).

MOHAVE COUNTY: Diamond Creek (MNA, 1974).

Crotaphytus collaris. Collared Lizard.

CLARK COUNTY: St. Thomas (Co, 1883); mouth of Las Vegas Wash; mouth of Boulder Wash; (CB, 1936); Boulder City\*; Valley of Fire\* (Li, 1940); junction of N and W arms of Lake Mead (La, 1942).

Crotaphytus wislizeni. Leopard Lizard.

CLARK COUNTY: Boulder City sewage disposal plant\* (CB, 1936); Cottonwood Spring; St. Thomas; Boulder City\*; 5 miles SE of Overton (Li, 1940); Las Vegas Wash\* (BrN, 1972).

Sceloporus magister. Desert Spiny Lizard.

CLARK COUNTY: Kaolin; Overton\* (Sm, 1939); Colorado River, 25 miles above Boulder Dam (Li, 1940); Callville (PB, 1955); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Diamond Creek; Stanton's Cave; great bend, Colorado River (MNA, 1974).

Sceloporus occidentalis. Western Fence Lizard.

MOHAVE COUNTY: Shivwits Plateau (LMNRA, 1950).

Sceloporus undulatus. Eastern Fence Lizard.

CLARK COUNTY: Lake Mead, Horseshoe Island (Sh, 1950).

Sceloporus graciosus. Sagebrush Lizard.

MOHAVE COUNTY: Shivwits Plateau (LMNRA, 1956).

Urosaurus graciosus. Long-tailed Brush Lizard.

CLARK COUNTY: Boulder City sewage disposal plant\* (CB, 1936); vicinity of Virgin and Colorado rivers; Boulder City\*; 2 miles SE of Overton; Callville; Colorado River, 25 miles above Boulder Dam; Valley of Fire\* (Li, 1940); Las Vegas Wash (BrN, 1972).

Urosaurus ornatus. Tree Lizard.

CLARK COUNTY: Virgin River to Fort Mohave\* (Y, 1882); Black Canyon; Eldorado Canyon (Li, 1940).

MOHAVE COUNTY: Fort Mohave\* (Y, 1882); Willow Beach (G, 1939); Diamond Creek; Stanton's Cave (MNA, 1974).

Uta stansburiana. Side-blotched Lizard.

CLARK COUNTY: Valley of Fire\*; 2 and 5 miles SE of Overton; Saint Thomas; 14 miles NE of Searchlight\*; Colorado River, 25 miles above Boulder Dam; Boulder City\* (Li, 1940); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: 1 mile N of Black Canyon (CB, 1936); Whitmore Wash; Diamond Creek (MNA, 1974).

Phrynosoma platyrhinos. Desert Horned Lizard.

CLARK COUNTY: Valley of Fire\*; Boulder City\*; Boulder Wash (Li, 1940); Boulder Dam; Lake Mead (R, 1952); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: \* Fort Mohave\* (R, 1952); Diamond  
Creek; Emory Falls (MNA, 1974).

Phrynosoma douglassi. Short-horned Lizard.

CLARK COUNTY: St. Thomas (Y, 1883).

MOHAVE COUNTY: Kaibab Plateau (St, 1958).

#### TEIDAE

Cnemidophorus tigris. Western Whiptail.

CLARK COUNTY: Callville Bay; Muddy and Virgin river  
valleys\*; Callville (Vd, 1922); Hemenway Wash;  
mouth of Boulder and Las Vegas washes (CB, 1936);  
St. Thomas; Muddy River Valley\*; mouth of Virgin  
River; Valley of Fire\*; Boulder City\*; 2 and 5  
miles SE of Overton; (Li, 1940).

MOHAVE COUNTY: Whitmore Wash; Stanton's Cave (MNA,  
1974).

#### HELODERMATIDAE

Heloderma suspectum. Gila Monster.

CLARK COUNTY: Overton\*; St. Thomas (Li, 1940); 8  
miles E of Nelson, Colorado River (La, 1942);  
Valley of Fire\*; Boulder City\*; Las Vegas Wash\*;  
Eldorado Canyon (D, 1953); Overton\*; (BC, 1956);  
along Colorado River and Lake Mead; Echo Bay  
(BrD, 1966).

MOHAVE COUNTY: Colorado River, mile 209; Diamond  
Creek (MNA, 1974).

#### LEPTOTYPHLOPIDAE

Leptotyphlops humilis. Western Worm Snake.

CLARK COUNTY: Overton\* (G, 1939); Boulder Dam  
(K, 1940); Las Vegas Wash\* (BrN, 1972).

COLUBRIDAE

Arizona elegans. Glossy Snake.

CLARK COUNTY: mouth of Virgin River; Boulder Dam  
region (Li, 1940); Kaolin; Boulder City\* (K,  
1946); Boulder City\* (D, 1953).

Phyllorhynchus decurtatus. Spotted Leaf-nosed Snake.

CLARK COUNTY: mouth of Virgin River; Boulder City\*  
(G, 1939); Las Vegas Wash\* (BrN, 1972).

Coluber constrictor. Racer.

CLARK COUNTY: Overton\* (Vd, 1922); mouth of Boulder  
Wash; Boulder City\*; Black Canyon (CB, 1936);  
Colorado River on Lake Mead; Boulder Dam (St,  
1958).

Masticophis flagellum. Common Whipsnake.

CLARK COUNTY: mouth of Boulder Wash; Boulder City\*;  
Black Canyon (CB, 1936); Virgin Mountains;  
Overton; mouth of Virgin River; Colorado River;  
3 and 20 miles above Boulder Dam, (Li, 1940).

MOHAVE COUNTY: Diamond Creek, Emory Falls (MNA,  
1974).

Salvadora hexalepis. Western Patch-nosed Snake.

CLARK COUNTY: Virgin River, near St. Thomas; Colo-  
rado River, 20 miles above Boulder Dam (Li,  
1940); Valley of Fire\* (BrD, 1966a); Las Vegas  
Wash\* (BrN, 1972).

Pituophis melanoleucus. Gopher Snake.

CLARK COUNTY: 1 mile S of Roger's Spring; 10 miles S of Overton (Li, 1940); Boulder City\*; Virgin River; Lake Mohave; Roger's Spring (K, 1947); Overton (D, 1953); Las Vegas Wash\* (BrN, 1972).

Lampropeltis getulus. Common King Snake.

CLARK COUNTY: Overton\*; St. Thomas (Bl, 1921); Boulder City sewage disposal plant\* (CB, 1936); Muddy Valley; Boulder City\*; Gold Butte\* (D, 1953).

Rhinocheilus lecontei. Long-nosed Snake.

CLARK COUNTY: Boulder City\*; (Li, 1940); Boulder City\*; Hemenway Wash; (K, 1941).

Sonora semiannulata. Western Ground Snake.

CLARK COUNTY: 10 miles above Lake Mead on Virgin River (T, 1940); Nelson (Va, 1941); Boulder City\*; Hemenway Wash (D, 1953); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Fortification Mountain, 3 miles NE of Boulder Dam (CB, 1936).

Chionactis occipitalis. Western Shovel-nosed Snake.

CLARK COUNTY: Boulder City\* (D, 1953); Las Vegas Wash\* (BrN, 1972).

Trimorphodon lambda. Arizona Lyre Snake.

CLARK COUNTY: near Boulder Dam (Li, 1940); Boulder City\* (K, 1940); Las Vegas Wash\* (BrN, 1972).

Hypsiglena torquata. Spotted Night Snake.

CLARK COUNTY: Hemenway Wash (D, 1953).

CROTALIDAE

Crotalus atrox. Western Diamond Rattlesnake.

CLARK COUNTY: Colorado River opposite Fort Mohave\*;  
near Nelson\* (D, 1953); southern tip of Nevada\*;  
(K, 1956).

Crotalus cerastes. Sidewinder.

CLARK COUNTY: Hemenway Wash (CB, 1936); S of St.  
Thomas; 3 miles above Boulder Dam (Li, 1940);  
lower Muddy Valley; Valley of Fire\*; islands  
in Lake Mead; Boulder Dam; Newberry Mountains;  
1½ miles NW of Fort Mohave\* (K, 1944); Boulder  
City\* (D, 1953).

Crotalus mitchelli. Speckled Rattlesnake.

CLARK COUNTY: Vegas Wash\*; Las Vegas landing; Boulder  
City\* (Li, 1940); canyons near Boulder City;  
Eldorado Canyon; Nelson\* (D, 1953).

MOHAVE COUNTY: Emory Falls (MNA, 1974).

Crotalus scutulatus. Mohave Rattlesnake.

CLARK COUNTY: Las Vegas Wash\* (BrN, 1972).

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BIRDS OF THE  
LAKE MEAD NATIONAL RECREATION AREA

John Blake

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Key to Authors specifically cited in the Bird Checklist:

An	Anonymous
A	Austin, G. T.
AB	Austin, G. T., and W. G. Bradley
AR	Austin, G. T., and A. M. Rea
B	Baldwin, G. C.
Br	Brown, H.
Ch	Christensen, G. C.
Ca	Coale, H. K.
C	Cooper, J. G.
Cs	Coues, E.
Co	Cottam, C. C.
D	Deming, O. V.
De	DeSaussure, R.
F	Fisher, A. K.
Ga	Gabrielson, I. N.
G	Grater, R. K.
Gr	Grinnell, J.
GC	Gullion, G. W., and G. C. Christensen
GPE	Gullion, G. W., W. M. Pulich, and F. G. Evenden
Ho	Hoffman, W. J.
H	Hollingsworth, B.
Hol	Hollister, N.
J	Jewett, S. G.
Jo	Johnson, N. K.
JB	Johnson, N. K., and R. C. Banks
K	Kingery, H. E.
L	Lawson, C. S.
Li	Linsdale, J. M.
LP	Long, P., and F. E. Poyser
Mi	Miller, L.
M	Monson, G.
Mo	Mowbray, V.
MP	Monson, G., and A. R. Phillips
Pa	Parker, T.
PMM	Phillips, A. R., J. Marshall, and G. Monson
P	Pulich, W. M.
PG	Pulich, W. M., and G. W. Gullion
PP	Pulich, W. M., and A. R. Phillips
S	Saffell, C.
Sm	Smiley, D. C.
Sn	Snider, P. R.
Sw	Swarth, H. S.
VR	van Rossem, A. J.
W	Wauer, R.
WR	Wauer, R., and R. C. Russell
Z	Zimmerman, D. A.

For Full Bibliographic Citations: Refer to the Bird Bibliography,  
pages 197-210.

## BIRDS

### GAVIIDAE

Gavia immer. Common Loon.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Callville Wash (G 1939a); Lake Mohave, near  
Searchlight Ferry (D 1953); Virgin Basin (G  
1939a); Overton Wildlife Management Area  
(An 1974).

Gavia arctica. Arctic Loon.

CLARK COUNTY: Las Vegas Bay (Mo 1975).

Gavia stellata. Red-throated Loon.

CLARK COUNTY: Las Vegas Bay (L 1972).

### PODICIPEDIDAE

Podiceps grisegena. Red-necked Grebe.

CLARK COUNTY: Lake Mead (Mo 1974).

Podiceps auritus. Horned Grebe.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1973, 1974,  
1975); Overton Wildlife Management Area (An  
1974).

Podiceps nigricollis. Eared Grebe.

CLARK COUNTY: Las Vegas Wash (G 1939a, 1939e);  
Las Vegas Bay (L 1972; Mo 1975); Hemenway  
Wash (G 1939e); St. Thomas area (G 1939e);  
Lake Mead (W 1969; M 1973a; K 1975a, 1975b);

Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Sw 1914).

Aechmophorus occidentalis. Western Grebe.

CLARK COUNTY: Las Vegas Bay (L 1972; M 1972c;  
Mo 1974, 1975; K 1975b); Virgin and Muddy  
River arms of Lake Mead (D 1953); Lake Mead  
(G P & E 1959; Z 1962; M 1973a; K 1975a);  
Lake Mohave (G P & E 1959); Overton area\* (P  
1973); Overton Wildlife Management Area (An  
1974).

Podilymbus podiceps. Pied-billed Grebe.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Lake Mohave (D 1953); Callville Wash (D 1953);  
Overton Wildlife Management Area (An 1974).

#### PELECANIDAE

Pelecanus erythrorhynchus. White Pelican.

CLARK COUNTY: Las Vegas Bay (L 1972): Boulder  
Beach (B 1947); Overton\* (D 1953; P 1973);  
Overton Wildlife Management Area (Sn 1966d;  
An 1974); Lake Mead (B 1944b); Colorado River,  
below Davis Dam (G P & E 1959); opposite Fort  
Mohave\* (Ho 1881).

Pelecanus occidentalis. Brown Pelican.

CLARK COUNTY: Las Vegas Bay (L 1972, 1973a); Lake  
Mead (Sm 1937); Boulder Beach (B 1947).

#### SULIDAE

Sula nebouxii. Blue-footed Booby.

CLARK COUNTY: Las Vegas Bay (L 1972, 1973b).

Sula leucogaster. Brown Booby.

CLARK COUNTY: Las Vegas Bay (L 1973a).

#### PHALACROCORACIDAE

Phalacrocorax auritus. Double-crested Cormorant.

CLARK COUNTY: St. Thomas (Sm 1937); Lake Mohave  
(D 1953; P M & M 1964); Overton area\* (Sn  
1966d); Lake Mead (Sm 1937; G 1939e; P M &  
M 1964); Colorado River, near Searchlight  
(Ga 1949); Las Vegas Bay (L 1972; Mo 1975);  
Overton Wildlife Management Area (An 1974).

#### FREGATIDAE

Fregata magnificens. Magnificent Frigatebird.

CLARK COUNTY: Eldorado Canyon area (B 1947);  
Davis Dam (L 1973b).

#### ARDEIDAE

Ardea herodias. Great Blue Heron.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Lake Mead, near Overton (B 1944a); Lake Mead  
(Sm 1937; B 1944b); Kaolin Reservoir (Sm 1937);  
Colorado River, up to the Hoover Dam region  
(P M & M 1964); Colorado River, southern tip  
of Clark County\* (Li 1936); Overton Wildlife  
Management Area (An 1974).

Butorides virescens. Green Heron.

CLARK COUNTY: Las Vegas Bay (L 1972); mouth of the  
Muddy River (Co 1947); St. Thomas (G 1939e);

Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

Florida caerulea. Little Blue Heron.

CLARK COUNTY: Lake Mead, near Overton (B 1944a); Las Vegas Wash on Lake Mead (M 1973a).

Bubulcus ibis. Cattle Egret.

CLARK COUNTY: Overton\* (K 1975a); Overton Wildlife Management Area (K 1975b).

Casmerodius albus. Common Egret.

CLARK COUNTY: Overton area\* (Ga 1949); Lake Mead (G 1939a); Colorado River, near the southern tip of Clark County\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914); Great Bend of the Colorado (F 1893).

Egretta thula. Snowy Egret.

CLARK COUNTY: St. Thomas (G 1939e); Lake Mead, near Overton (B 1944a); Overton Wildlife Management Area (An 1974).

Hydranassa tricolor. Louisiana Heron.

CLARK COUNTY: St. Thomas (G 1939a, 1939e; unseasonal and requires documentation, P M & M 1964).

Nycticorax nycticorax. Black-crowned Night Heron.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Kaolin (Li 1936); Colorado River,  $\frac{1}{2}$  mile north of

the California - Nevada line\* (Li 1936);

Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Ixobrychus exilis. Least Bittern.

CLARK COUNTY: Hemenway Wash (G 1939a, 1939e);

Overton\* (D 1953); Boulder Beach (M 1954c);

St. Thomas (G 1939a, 1939e).

Botaurus lentiginosus. American Bittern.

CLARK COUNTY: Overton\* (D 1953); St. Thomas (D

1953); Overton Wildlife Management Area (An

1974).

#### CICONIIDAE

Mycteria americana. Wood Ibis.

CLARK COUNTY: Overton area\* (Ga 1949); St. Thomas

(Li 1936; G 1939a); Colorado River, opposite

Fort Mohave\* (Ho 1881); Las Vegas Wash on

Lake Mead (M 1972d).

MOHAVE COUNTY: Fort Mohave\* (Cs 1866a).

#### THRESKIORNITHIDAE

Plegadis chihi. White-faced Ibis.

CLARK COUNTY: Las Vegas Bay (L 1972); St. Thomas

(G 1939a, 1939e); Overton Wildlife Management

Area (An 1974).

Phoenicopterus ruber. American Flamingo.

CLARK COUNTY: Lake Mead, near Overton (A & B

1968) [probably an escaped individual].

ANATIDAE

Olor columbianus. Whistling Swan.

CLARK COUNTY: Las Vegas Bay (L 1972); Overton\*  
(D 1953); Overton Wildlife Management Area  
(A 1970c; An 1974); Lake Mead (Z 1963).

MOHAVE COUNTY: Fort Mohave\* (Cs 1866a; C 1870a).

Branta canadensis. Canada Goose.

CLARK COUNTY: Overton\* (G P & E 1959); Las Vegas  
Bay (L 1972); Lake Mead (B 1944b); Overton  
Wildlife Management Area (An 1974).

Branta nigricans. Black Brant.

CLARK COUNTY: Hemenway Wash (G 1939e); Lake Mead  
(B 1944b); "unlikely and unsubstantiated"  
(P M & M 1964).

Anser albifrons. White-fronted Goose.

CLARK COUNTY: Overton area\* (D 1953); Overton  
Wildlife Management Area (A 1970c; An 1974);  
Nevada shore, across from Bullhead City\* (D  
1953); St. Thomas (G 1939b).

Chen caerulescens. Snow Goose.

CLARK COUNTY: Below Hoover Dam (G 1939a); Las  
Vegas Bay (L 1972); Overton area\* (D 1953);  
Overton Wildlife Management Area (A 1970c;  
An 1974); St. Thomas (D 1953).

Chen rossii. Ross' Goose.

CLARK COUNTY: Overton Wildlife Management Area (A  
1970c; An 1974).



Anas platyrhynchos. Mallard.

CLARK COUNTY: Las Vegas Wash (Sm 1937); Las Vegas Bay (L 1972); Lake Mohave (D 1953); mouth of the Muddy River (Co 1947); Overton Wildlife Management Area (An 1974).

Anas rubripes. Black Duck.

CLARK COUNTY: Overton area\* [S 1965; very unlikely as there are no Nevada (Li 1951) or Arizona (P M & M 1964) records].

Anas strepera. Gadwall.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); St. Thomas (G 1939e); Lake Mead (G P & E 1959); Lake Mohave (G P & E 1959); Overton Wildlife Management Area (An 1974).

Anas acuta. Pintail.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Las Vegas Bay (L 1972; Mo 1975); Lake Mead (Sm 1937); Overton Wildlife Management Area (An 1974).

Anas crecca. Common Teal.

CLARK COUNTY: Overton area\* (G P & E 1959): Las Vegas Wash (G 1939a); Las Vegas Bay (L 1972; Mo 1975); Lake Mohave (G P & E 1959); Overton Wildlife Management Area (An 1974).

Anas discors. Blue-winged Teal.

CLARK COUNTY: Overton area (D 1953); Overton Wildlife Management Area (An 1974).

Anas cyanoptera. Cinnamon Teal.

CLARK COUNTY: Las Vegas Bay (L 1972); Kaolin Reservoir (Sm 1937); Overton area (D 1953); Overton Wildlife Management Area (A 1970c; An 1974); mouth of the Muddy River (Co 1947).

Anas americana. American Wigeon.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Lake Mead (Sm 1937); Kaolin Reservoir (Sm 1937); Overton Wildlife Management Area (An 1974).

Anas clypeata. Shoveler.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Kaolin area (Sm 1937); mouth of the Muddy River (Co 1947); Overton Wildlife Management Area (An 1974).

Aix sponsa. Wood Duck.

CLARK COUNTY: Lake Mead (D 1953); Muddy River, below Overton (D 1953); Overton Wildlife Management Area (An 1974).

Aythya americana. Redhead.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Lake Mead (G P & E 1959); Overton\* (D 1953); Overton Wildlife Management Area (An 1974).

Aythya collaris. Ring-necked Duck.

CLARK COUNTY: Las Vegas Bay (L 1972); Overton area\* (D 1953); Kaolin Reservoir (Sm 1937); Lake Mohave (G P & E 1959); Overton Wildlife Management Area (An 1974).

Aythya valisineria. Canvasback.

CLARK COUNTY: Lake Mohave (G P & E 1959); Las Vegas Bay (L 1972); Overton\* (D 1953; G P & E 1959; Sn 1966c); Overton Wildlife Management Area (A 1970c; An 1974).

Aythya marila. Greater Scaup.

CLARK COUNTY: Las Vegas Bay (L 1972); Overton Wildlife Management Area (A 1970c; An 1974); Davis Dam (K 1975b).

Aythya affinis. Lesser Scaup.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Hemenway Wash (D 1953); St. Thomas (G 1939e); Lake Mead, near Overton (B 1944a); Overton Wildlife Management Area (An 1974).

Bucephala clangula. Common Goldeneye.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Overton\* (G P & E 1959); Lake Mead (G P & E 1959); Davis Dam (K 1975b); Overton Wildlife Management Area (An 1974).

Bucephala islandica. Barrow's Goldeneye.

CLARK COUNTY: Overton\* (D 1953); Davis Dam (K 1975a, 1975b).

Bucephala albeola. Bufflehead.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Overton area\* (Sn 1966c); Las Vegas Bay (L 1972; Mo 1975); Lake Mohave (G P & E 1959); Davis Dam (K 1975b); Overton Wildlife Management Area (An 1974).

Clangula hyemalis. Oldsquaw.

CLARK COUNTY: Davis Dam (K 1975b); Lake Mohave  
(K 1975c).

Melanitta deglandi. White-winged Scoter.

CLARK COUNTY: Las Vegas Bay (L 1972); Lake Mead  
(K 1974b).

Melanitta perspicillata. Surf Scoter.

CLARK COUNTY: Overton Wildlife Management Area  
(A 1970c; An 1974); Davis Dam (K 1975a, 1975b).

Oxyura jamaicensis. Ruddy Duck.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Las  
Vegas Bay (L 1972; Mo 1975); St. Thomas (D  
1953); Overton Wildlife Management Area (An  
1974).

Lophodytes cucullatus. Hooded Merganser.

CLARK COUNTY: Las Vegas Bay (L 1972); Lake Mohave,  
below Hoover Dam (G P & E 1959); Overton Wild-  
life Management Area (A 1970c; An 1974).

Mergus merganser. Common Merganser.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Lake Mead (Sm 1937; D 1953); Overton Wildlife  
Management Area (An 1974).

Mergus serrator. Red-breasted Merganser.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Lake Mead (G P & E 1959); Overton Wildlife  
Management Area (An 1974).

MOHAVE COUNTY: Bend of the Colorado River (F 1893).

## CATHARTIDAE

Cathartes aura. Turkey Vulture.

CLARK COUNTY: Overton\* (G P & E 1959); Roger's Spring (H 1969); Lake Mead (G P & E 1959); Colorado River Valley, north from Fort Mohave (Ho 1881); Davis Dam (K 1975b); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Gymnogpus californianus. California Condor.

MOHAVE COUNTY: Pierce Ferry (Br 1899).

## ACCIPITRIDAE

Accipiter gentilis. Goshawk.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton Wildlife Management Area (An 1974).

Accipiter striatus. Sharp-shinned Hawk.

CLARK COUNTY: St. Thomas (Li 1936); Las Vegas Bay (L 1972); Bend of the Colorado River (F 1893); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Accipiter cooperii. Cooper's Hawk.

CLARK COUNTY: Las Vegas Bay (L 1972); Boulder City\* (D 1953); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Buteo jamaicensis. Red-tailed Hawk.

CLARK COUNTY: Las Vegas Bay (L 1972); Lake Mohave

(G P & E 1959); Boulder Beach (G P & E 1959);  
Hemenway Wash (G 1939a); Bend of the Colorado  
River (F 1893); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Buteo swainsoni. Swainson's Hawk.

CLARK COUNTY: St. Thomas (G 1939e); Las Vegas Bay  
(L 1972); Eldorado Mountains\* (G P & E 1959);  
Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b); and north  
(Ho 1881).

Buteo lagopus. Rough-legged Hawk.

CLARK COUNTY: Overton area\* (A & B 1968).

Buteo regalis. Ferruginous Hawk.

CLARK COUNTY: Hemenway Wash (D 1953); Hoover Dam  
region (P M & M 1964).

Parabuteo unicinctus. Harris' Hawk.

CLARK COUNTY: Overton area\* (M 1949b); extreme  
southern tip of Clark County\* (Jo 1956).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Aquila chrysaetos. Golden Eagle.

CLARK COUNTY: Lake Mead, near Overton (B 1944a);  
Colorado River, near the southern tip of  
Clark County\* (Li 1936); Virgin Basin (G 1939a).

Haliaeetus leucocephalus. Bald Eagle.

CLARK COUNTY: Lake Mead (B 1944b; Sn 1969b).

MOHAVE COUNTY: Temple Bar (M 1973a).

Circus cyaneus. Marsh Hawk.

CLARK COUNTY: Overton\* (D 1953); Overton Wildlife  
Management Area (An 1974).

PANDIONIDAE

Pandion haliaetus. Osprey.

CLARK COUNTY: Overton area\* (Sm 1937; M 1954c);  
Eldorado Canyon (M 1950b); Las Vegas Bay (L  
1972); Davis Dam (G P & E 1959); St. Thomas  
(D 1953); Lake Mohave (P M & M 1964); Boulder  
city\* (G P & E); Black Canyon (G P & E 1959);  
Boulder Beach (M 1950a); Overton Wildlife  
Management Area (An 1974).

FALCONIDAE

Falco mexicanus. Prairie Falcon.

CLARK COUNTY: Boulder City\* (D 1953; G P & E 1959);  
Hemenway Wash (D 1953); Bend of the Colorado  
River (F 1893); Colorado River, below Hoover  
Dam (D 1953); Las Vegas Wash (D 1953); Overton  
Wildlife Management Area (An 1974).

Falco peregrinus. Peregrine Falcon.

CLARK COUNTY: St. Thomas area (Li 1936); Las  
Vegas Bay (L 1972); Overton Wildlife Manage-  
ment Area (An 1974).

Falco columbarius. Pigeon Hawk.

CLARK COUNTY: St. Thomas (Li 1936).

MOHAVE COUNTY: Fort Mohave (D 1953; M 1950b).

Falco sparverius. American Kestrel.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
St. Thomas (Li 1936); Overton area\* (D 1953);  
opposite Fort Mohave\* (Li 1936); Overton  
Wildlife Management Area (An 1974).  
MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

PHASIANIDAE

Lophortyx gambelii. Gambel's Quail.

CLARK COUNTY: St. Thomas (Li 1936); Overton area\*  
(Ga 1949); Las Vegas Bay (L 1972); Roger's  
Spring (H 1969); Colorado River, east of Search-  
light (Li 1936); Great Bend of the Colorado  
River (F 1893); Overton Wildlife Management  
Area (An 1974).  
MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Phasianus colchicus. Ring-necked Pheasant.

CLARK COUNTY: Virgin River Valley\* (D 1953; G & C  
1957); Overton Wildlife Management Area (An  
1974).

Alectoris chukar. Chukar.

CLARK COUNTY: Callville Wash (Ch 1954).

GRUIDAE

Grus canadensis. Sandhill Crane.

CLARK COUNTY: Colorado River, above Black Canyon  
(Ho 1881); Lake Mead (D 1953); Overton area\*  
(D 1953); Boulder Beach (M 1953a); Bend of  
the Colorado River (F 1893).



## RALLIDAE

Rallus limicola. Virginia Rail.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton  
Wildlife Management Area (An 1974).

Porzana carolina. Sora.

CLARK COUNTY: St. Thomas area (G 1939a); Hemenway  
Wash (G 1939a); Great Bend of the Colorado  
River (Ho 1881); Colorado River, ½ mile north  
of the California - Nevada Monument\* (Li  
1936); Overton Wildlife Management Area (An  
1974).

Gallinula chloropus. Common Gallinule.

CLARK COUNTY: Colorado River Valley, near the  
southern tip of Clark County\* (Li 1936);  
Overton Wildlife Management Area (An 1974).

Fulica americana. American Coot.

CLARK COUNTY: Kaolin area (Li 1936; Sm 1937);  
Las Vegas Bay (L 1972; Mo 1975); Lake Mead  
(Sm 1937); Overton Wildlife Management Area  
(An 1974).

## CHARADRIIDAE

Charadrius semipalmatus. Semipalmated Plover.

CLARK COUNTY: Lake Mead (G 1939e); Overton Wild-  
life Management Area (An 1974).

Charadrius alexandrinus. Snowy Plover.

CLARK COUNTY: St. Thomas (S 1939a); Overton area\*  
(Sn 1966b).

Charadrius vociferus. Killdeer.

CLARK COUNTY: Kaolin Reservoir (Sm 1973); Las Vegas Bay (L 1972); Lake Mead (Sm 1937); Bend of the Colorado River (F 1893); Colorado River,  $\frac{1}{2}$  mile north of the California - Nevada boundary\* (Li 1936); Overton Wildlife Management Area (An 1974).

Charadrius montanus. Mountain Plover.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Pluvialis dominica. American Golden Plover.

CLARK COUNTY: Overton\* (Sn 1966a; K 1975c).

Pluvialis squatarola. Black-bellied Plover.

CLARK COUNTY: Las Vegas Bay (L 1972); St. Thomas (G 1939c); Las Vegas Wash on Lake Mead (M 1973c).

Arenaria interpres. Ruddy Turnstone.

CLARK COUNTY: Overton\* (K 1975c).

#### SCOLOPACIDAE

Capella gallinago. Common Snipe.

CLARK COUNTY: Boulder City\* (G P & E 1959); Las Vegas Bay (L 1972); Overton Wildlife Management Area (An 1974).

Numenius americanus. Long-billed Curlew.

CLARK COUNTY: St. Thomas area (G 1939e); Las Vegas Bay (L 1972); Overton Wildlife Management Area (An 1974).

Numenius phaeopus. Whimbrel.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton

Wildlife Management Area (An 1974).

Bartramia longicauda. Upland Plover.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Actitis macularia. Spotted Sandpiper.

CLARK COUNTY: Kaolin (Li 1936); Kaolin Reservoir

(Sm 1937; G 1939a); Las Vegas Bay (L 1972);

Great Bend of the Colorado River (F 1893);

Colorado River, below Hoover Dam (D 1953);

Overton Wildlife Management Area (An 1974).

Tringa solitaria. Solitary Sandpiper.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Catoptrophorus semipalmatus. Willet.

CLARK COUNTY: Kaolin (Li 1936); Lake Mead (G P &

E 1959).

Tringa melanoleucus. Greater Yellowlegs.

CLARK COUNTY: St. Thomas area (G 1939e); Overton

area\* (D 1953; G P & E 1959); Colorado River,

½ mile north of the California - Nevada line\*

(Li 1936); mouth of the Muddy River (Co 1947);

Overton Wildlife Management Area (An 1974).

Tringa flavipes. Lesser Yellowlegs.

CLARK COUNTY: Lake Mead, near Overton (B 1944a).

Calidris canutus. Knot.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Las Vegas

Wash on Lake Mead (M 1973a); Overton\* (K

1975c).

Calidris melanotos. Pectoral Sandpiper.

CLARK COUNTY: Overton Beach (A & E 1963); Overton

Wildlife Management Area (An 1974).

Calidris bairdii. Baird's Sandpiper.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

MOHAVE COUNTY: Fort Mohave\* (K 1975b).

Calidris minutilla. Least Sandpiper.

CLARK COUNTY: St. Thomas area (G 1939e); Hemenway Wash (G 1939e); Lake Mead (G 1939e); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (K 1975b).

Calidris alpina. Dunlin.

CLARK COUNTY: Overton\* (Sn 1966b).

Calidris pusillus. Semipalmated Sandpiper.

CLARK COUNTY: Callville area (Ho 1881); Las Vegas Wash\* (L 1972).

Calidris mauri. Western Sandpiper.

CLARK COUNTY: St. Thomas (G 1939a); Overton\* (D 1953); Callville Wash (G 1939a); mouth of the Muddy River (F 1893; Co 1947); Colorado River, below Callville (Ho 1881); Lake Mohave (D 1953); Overton Wildlife Management Area (An 1974).

Limnodromus griseus. Short-billed Dowitcher.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Limnodromus scolopaceus. Long-billed Dowitcher.

CLARK COUNTY: Overton area\* (G P & E 1959); Overton Wildlife Management Area (An 1974).

Micropalma himantopus. Stilt Sandpiper.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Limosa fedoa. Marbled Godwit.

CLARK COUNTY: St. Thomas (G 1939e); Las Vegas Bay  
(L 1972); Overton Wildlife Management Area  
(An 1974).

#### RECURVIROSTRIDAE

Recurvirostra americana. American Avocet.

CLARK COUNTY: Kaolin (Li 1936); Kaolin Reservoir  
(Sm 1937); Las Vegas Bay (L 1972); 3 miles west  
of Callville (Ho 1881); Davis Dam area (M  
1949b); Overton Wildlife Management Area (Sn  
1966d; An 1974).

Himantopus mexicanus. Black-necked Stilt.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Colorado  
Valley, below Black Canyon (Ho 1881); Overton  
Wildlife Management Area (Sn 1966d; An 1974);  
Lake Mead (G 1939a).

#### PHALAROPODIDAE

Phalaropus fulicarius. Red Phalarope.

CLARK COUNTY: Las Vegas Wash\* (L 1972, 1973a; K  
1974c).

Steganopus tricolor. Wilson's Phalarope.

CLARK COUNTY: Kaolin Reservoir (Sm 1937); Las  
Vegas Bay (L 1972); Overton Wildlife Management  
Area (An 1974).

Lobipes lobatus. Northern Phalarope.

CLARK COUNTY: Las Vegas Bay (L 1972); St. Thomas

(G 1939e); Lake Mohave (D 1953); Overton Wildlife Management Area (An 1974).

#### STERCORARIIDAE

Stercorarius parasiticus. Parasitic Jaeger.

CLARK COUNTY: Las Vegas Bay (L 1972).

#### LARIDAE

Larus hyperboreus. Glaucous Gull.

CLARK COUNTY: Boulder Beach (L 1973b).

Larus glaucescens. Glaucous-winged Gull.

CLARK COUNTY: Las Vegas Bay (L 1972, 1973b; Mo 1973); Lake Mead (K 1975a); Davis Dam (K 1975b).

Larus argentatus. Herring Gull.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Overton area\* (A & B 1968); Lake Mead (K 1975a).

Larus thayeri. Thayer's Gull.

CLARK COUNTY: Las Vegas Bay (L 1972, 1973b; Mo 1975); Lake Mead (K 1975a, 1975b); Davis Dam (K 1975b).

Larus californicus. California Gull.

CLARK COUNTY: Las Vegas Bay (L 1972); Kaolin (Li 1936); Lake Mohave (D 1953).

Larus delawarensis. Ring-billed Gull.

CLARK COUNTY: Las Vegas Bay (L 1972); Lake Mead (D 1953; G P & E 1959); Lake Mohave (D 1953; G P & E 1959); Overton Wildlife Management Area (An 1974).

Larus canus. Mew Gull.

CLARK COUNTY: Las Vegas Bay (L 1972, 1972b);  
Boulder Beach (L 1973b); Lake Mead (K 1975b).

Larus pipixcan. Franklin's Gull.

CLARK COUNTY: Las Vegas Bay (L 1972); Overton  
Wildlife Management Area (An 1974).

Larus philadelphia. Bonaparte's Gull.

CLARK COUNTY: St. Thomas area (G 1939b); Las Vegas  
Bay (L 1972); Davis Dam area (D 1953); Overton  
Wildlife Management Area (An 1974).

Rissa tridactyla. Black-legged Kittiwake.

CLARK COUNTY: Davis Dam (K 1975b).

Sterna forsteri. Forster's Tern.

CLARK COUNTY: St. Thomas area (G 1939a, 1939b);  
Kaolin (Li 1936); Las Vegas Bay (L 1972);  
Boulder Basin (D 1953); Overton Bay (D 1953);  
Overton Wildlife Management Area (Sn 1966d;  
An 1974).

Sterna hirundo. Common Tern.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1972c);  
Iceberg Canyon (L 1973b); Lake Mohave, mile  
19-20 (L 1973b); Lake Mohave (M 1972a).

Sterna albifrons. Least Tern.

CLARK COUNTY: St. Thomas area (G 1939b); Hemenway  
Wash (G 1939b); Las Vegas Bay (L 1972).

Hydroprogne caspia. Caspian Tern.

CLARK COUNTY: Hemenway Wash (Li 1951); Las Vegas

Bay (L 1972); Overton Bay (D 1953); Overton\*  
(K 1975c).

Chilonias niger. Black Tern.

CLARK COUNTY: Las Vegas Bay (L 1972); Kaolin  
Reservoir (Sm 1937); Overton Wildlife Manage-  
ment Area (An 1974).

#### ALCIDAE

Synthliboramphus antiquus. Ancient Murrelet.

CLARK COUNTY: Lake Mead (K 1974b).

#### COLUMBIDAE

Columba fasciata. Band-tailed Pigeon.

CLARK COUNTY: Overton Wildlife Management Area  
(An 1974).

Zenaida asiatica. White-winged Dove.

CLARK COUNTY: Colorado River, near the southern  
tip of Clark County\* (Li 1936); Davis Dam area  
(D 1953; M & P 1964); Overton\* (G P & E 1959;  
W 1969; P 1973); opposite Fort Mohave\* (P M  
& M 1964); Overton Wildlife Management Area  
(An 1974).

MOHAVE COUNTY: Fort Mohave\* (D 1953; G P & E 1959;  
P M & M 1964)..

Zenaida macroura. Mourning Dove.

CLARK COUNTY: Las Vegas Bay (L 1972); Roger's  
Spring (H 1969); Bend of the Colorado River  
(F 1893); Overton Wildlife Management Area  
(An 1974).



MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Columbina passerina. Ground Dove.

CLARK COUNTY: Overton Wildlife Management Area  
(Sn 1966d); Overton\* (W 1969); Boulder City\*  
(M 1954a).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Scardafella inca. Inca Dove.

CLARK COUNTY: Boulder City\* (M 1973b).

#### CUCULIDAE

Coccyzus americanus. Yellow-billed Cuckoo.

CLARK COUNTY: Boulder Beach (P M & M 1964); Boulder  
City\* (D 1953; G P & E 1959); Kaolin Reservoir  
(G 1939e); St. Thomas (D 1953); Overton Wild-  
life Management area (An 1974).

Geococcyx californianus. Roadrunner.

CLARK COUNTY: St. Thomas (Li 1936); Las Vegas Bay  
(L 1972); Roger's Spring (H 1969); Bend of the  
Colorado River (F 1893); Colorado River,  
extreme southern portion of Clark County\* (Li  
1936); Overton Wildlife Management Area (An  
1974).

MOHAVE COUNTY: Willow Beach (P M & M 1964); Fort  
Mohave\* (C 1870a, 1870b; Ho 1881).

Crotophaga sulcirostris. Groove-billed Ani.

CLARK COUNTY: Boulder City\* (L & P 1965); Longan-  
dale\* (K 1975a).

TYTONIDAE

Tyto alba. Barn Owl.

CLARK COUNTY: Boulder City\* (D 1953); St. Thomas  
(D 1953); head of Empire Wash\* (G P & E 1959).

STRIGIDAE

Otus asio. Screech Owl.

CLARK COUNTY: Opposite Fort Mohave\* (Li 1936);  
southern tip of Clark County\* (Li 1951).

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870b).

Bubo virginianus. Great Horned Owl.

CLARK COUNTY: Colorado River, 13 miles east of  
Searchlight (Li 1936); St. Thomas (VR 1936);  
opposite Fort Mohave\* (Li 1936); Overton  
Wildlife Management Area (An 1974).

Micrathene whitneyi. Elf Owl.

MOHAVE COUNTY: Colorado River Valley, below Davis  
Dam\* (P M & M 1964); Fort Mohave\* (C 1861,  
1870a, 1870b).

Speotyto cunicularia. Burrowing Owl.

CLARK COUNTY: Boulder City\* (D 1953).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Asio otus. Long-eared Owl.

CLARK COUNTY: Colorado River, ½ mile north of the  
California - Nevada Monument\* (Li 1936).

Asio flammeus. Short-eared Owl.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

CAPRIMULGIDAE

Phalaenoptilus nuttallii. Poor-will.

CLARK COUNTY: Roger's Spring (H 1969); Colorado River, opposite Fort Mohave\* (Li 1936).

Chordeiles minor. Common Nighthawk.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Chordeiles acutipennis. Lesser Nighthawk.

CLARK COUNTY: Boulder City\* (M 1949c; G P & E 1959); Overton\* (G P & E 1959); Hemenway Wash (D 1953); Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a, 1870b; Ho1 1908).

APODIDAE

Chaetura vauxi. Vaux's Swift.

CLARK COUNTY: Hemenway Wash (G 1939a); Davis Dam area (A 1968a); Overton\* (A 1968a); Overton Wildlife Management Area (An 1974).

Aeronautes saxatalis. White-throated Swift.

CLARK COUNTY: Overton\* (G P & E 1959); Las Vegas Bay (L 1972); upper portion of Black Canyon (Ho 1881); Hemenway Wash (D 1953); Davis Dam (K 1975b); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

TROCHILIDAE

Archilochus alexandri. Black-chinned Hummingbird.

CLARK COUNTY: Roger's Spring (H 1969); opposite Fort Mohave\* (Li 1936; G P & E 1959); Davis Dam (K 1975c).

MOHAVE COUNTY: Colorado River, to the northern border of the state (Sw 1914).

Calypte costae. Costa's Hummingbird.

CLARK COUNTY: Boulder Beach (G P & E 1959); Bend of the Colorado River (F 1893); Colorado River,  $\frac{1}{2}$  mile north of the California - Nevada Monument\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b; Sw 1914).

Selasphorus platycercus. Broad-tailed Hummingbird.

CLARK COUNTY: Boulder City\* (G P & E 1959).

Selasphorus rufus. Rufous Hummingbird.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Lake Mohave (K 1975c).

ALCEDINIDAE

Megaceryle alcyon. Belted Kingfisher.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); St. Thomas (D 1953); Lake Mead (Sm 1937); Overton\* (G P & E 1959); Vegas Wash, near the Colorado River (F 1893); Overton Wildlife Management Area (An 1974).

PICIDAE

Colaptes auratus. Common Flicker.

CLARK COUNTY: St. Thomas (Li 1936); Las Vegas Bay (Mo 1975); Colorado River, 13 miles east of Searchlight (Li 1936); Overton Wildlife Management Area (An 1974); Colorado River, ½ mile north of the California - Nevada Monument\* (Li 1936); Boulder City\* (M 1951, 1952a); Overton\* (Sn 1966a).

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a, 1870b; Gr 1914).

Centurus uropygialis. Gila Woodpecker.

CLARK COUNTY: Nevada shore, Fort Mohave area\* (Hol 1908; Li 1936); Davis Dam area (D 1953).

MOHAVE COUNTY: Pierce Ferry area (P M & M 1964); Fort Mohave\* (Cs 1866a; C 1870a, 1870b; F 1893).

Asyndesmus lewis. Lewis' Woodpecker.

CLARK COUNTY: Boulder City\* (G 1939a; M 1949a, 1951; G P & E 1959).

Sphyrapicus varius. Yellow-bellied Sapsucker.

CLARK COUNTY: Colorado River, 13 miles east of Searchlight (Li 1936); Boulder City\* (D 1953); opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a, 1870b).

Sphyrapicus thyroideus. Williamson's Sapsucker.

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a).

Dendrocopos villosus. Hairy Woodpecker.

CLARK COUNTY: Boulder City\* (M 1973a).

Dendrocopos scalaris. Ladder-backed Woodpecker.

CLARK COUNTY: Colorado River, 13 miles east of Searchlight (Li 1936); Nevada, Fort Mohave area\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (F 1893; Gr 1914).

#### TYRANNIDAE

Tyrannus tyrannus. Eastern Kingbird.

CLARK COUNTY: St. Thomas (G 1939e); Longandale\* (P 1973).

Tyrannus verticalis. Western Kingbird.

CLARK COUNTY: Boulder Beach (M 1950a); Lake Mead (G P & E 1959); Bend of the Colorado River (F 1893); Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Tyrannus vociferans. Cassin's Kingbird.

CLARK COUNTY: St. Thomas (G 1939e).

Muscivora forficata. Scissor-tailed Flycatcher.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

MOHAVE COUNTY: Fort Mohave (possibly)\* (C 1870a).

Myiarchus tyrannulus. Wied's Crested Flycatcher.

CLARK COUNTY: Opposite Fort Mohave\* (P 1952).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Myiarchus cinerascens. Ash-throated Flycatcher.

CLARK COUNTY: Colorado River, east of Searchlight (Li 1936); Lake Mohave (D 1953); Las Vegas Bay

(L 1972); Bend of the Colorado River (F 1893):

Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Pierce Ferry area (P M & M 1964);

Fort Mohave\* (C 1870b).

Sayornis nigricans. Black Phoebe.

CLARK COUNTY: Boulder City\* (GP & E 1959); Overton\*

(G P & E 1959); Boulder Beach (G P & E 1959);

south of Davis Dam (G P & E 1959); Colorado

River, opposite Fort Mohave\* (Li 1936); Overton

Wildlife Management Area (An 1974):

MOHAVE COUNTY: Fort Mohave\* (Cs 1866a).

Sayornis saya. Say's Phoebe.

CLARK COUNTY: St. Thomas (Li 1936; Ga 1949); Boulder

Beach (G P & E 1959); Las Vegas Bay (L 1972; Mo

1975); Boulder City\* (G P & E 1959); Bend of the

Colorado River (F 1893); Black Canyon (Li 1936);

Colorado River, east of Searchlight (Li 1936);

opposite Fort Mohave\* (Li 1936); Overton Wild-

life Management Area (An 1974).

Empidonax traillii. Willow Flycatcher.

CLARK COUNTY: St. Thomas (Li 1936; D 1953); Las

Vegas Bay (L 1972).

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a, 1870b).

Empidonax minimus. Least Flycatcher.

CLARK COUNTY: Boulder City\* (P M & M 1964).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Empidonax hammondi. Hammond's Flycatcher.

CLARK COUNTY: Colorado River, opposite Fort Mohave\*

(Li 1936).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Empidonax oberholseri. Dusky Flycatcher.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Empidonax wrightii. Gray Flycatcher.

CLARK COUNTY: Colorado River, opposite Fort Mohave\*  
(Li 1936; reported as E. griseus).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b;  
reported as E. obscurus).

Empidonax difficilis. Western Flycatcher.

CLARK COUNTY: Boulder City\* (D 1953); St. Thomas (Li  
1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Contopus sordidulus. Western Wood Pewee.

CLARK COUNTY: Boulder City\* (D 1953); St. Thomas (D  
1953); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Nuttallornis borealis. Olive-sided Flycatcher.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton  
Wildlife Management Area (An 1974).

Pyrocephalus rubinus. Vermilion Flycatcher.

CLARK COUNTY: Boulder Beach (G P & E 1959);  
Hemenway Wash (D 1953); Nevada shore, Fort  
Mohave area\* (Hol 1908; Li 1936); Overton Wild-  
life Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).



ALAUDIDAE

Eremophila alpestris. Horned Lark.

CLARK COUNTY: Boulder City\* (D 1953; G P & E 1959);  
mouth of the Virgin River (Ho 1881); Colorado  
River, near Searchlight (D 1953); Las Vegas  
Bay (Mo 1975); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

HIRUNDINIDAE

Tachycineta thalassina. Violet-green Swallow.

CLARK COUNTY: Kaolin area (Li 1936); Overton  
Wildlife Management Area (An 1974); Overton\*  
(G P & E 1959); St. Thomas (D 1953); Las Vegas  
Bay (L 1972); Colorado River, near the southern  
tip of Clark County\* (Li 1936); Davis Dam  
area (G P & E 1959).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Iridoprocne bicolor. Tree Swallow.

CLARK COUNTY: Davis Dam (K 1975b, 1975c); Overton  
Wildlife Management Area (An 1974).

Riparia riparia. Bank Swallow.

CLARK COUNTY: Bend of the Colorado (F 1893).

Stelgidopteryx ruficollis. Rough-winged Swallow.

CLARK COUNTY: Kaolin (Li 1936); Las Vegas Bay  
(L 1972); Overton Wildlife Management Area  
(An 1974); Bend of the Colorado River (F  
1893); Colorado River, opposite Fort Mohave\*

(Li 1936); Vegas Wash, near the Bend of the Colorado (F 1893); Davis Dam (K 1975c).

MOHAVE COUNTY: Fort Mohave\* (C 1870b; Sw 1914).

Hirundo rustica. Barn Swallow.

CLARK COUNTY: Overton area\* (G P & E 1959); Las Vegas Bay (L 1972); Boulder City\* (G P & E 1959); Hoover Dam region (P M & M 1964); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave, along Colorado River\* (C, from Cs 1878).

Petrochelidon pyrrhonota. Cliff Swallow.

CLARK COUNTY: Kaolin (Li 1936); Las Vegas Bay (L 1972); Overton Wildlife Management Area (An 1974); Boulder City\* (G P & E 1959); Bend of the Colorado River (F 1893); Lake Mohave (G P & E 1959); St. Thomas (D 1953); Vegas Wash, canyon at lower end (F 1893); along Colorado River and shore of Lake Mead (A & R).

MOHAVE COUNTY: Willow Beach (G P & E 1959); Fort Mohave\* (C, from Cs 1878).

Progne subis. Purple Martin.

CLARK COUNTY: Davis Dam area (A 1969a); southern tip of Clark County\* (D 1953); Overton Wildlife Management Area (An 1974).

#### CORVIDAE

Cyanocitta stelleri. Steller's Jay.

CLARK COUNTY: Boulder City\* (B 1947); Overton Wildlife Management Area (An 1974).

Aphelocoma coerulescens. Scrub Jay.

CLARK COUNTY: Colorado River,  $\frac{1}{2}$  mile above the  
California - Nevada Monument\* (Li 1936);  
Overton area\* (G P & E 1959); Boulder City\*  
(D 1953; G P & E 1959); Overton Wildlife  
Management Area (An 1974).

Pica pica. Black-billed Magpie.

CLARK COUNTY: Lake Mead area (D 1953); Lake Mead,  
shoreline (M 1973a).

Corvus corax. Common Raven.

CLARK COUNTY: St. Thomas (Li 1936); Overton area\*  
(Ga 1949); Las Vegas Bay (L 1972; Mo 1975);  
Bend of the Colorado River (F 1893); Overton  
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Corvus brachyrhynchos. Common Crow.

CLARK COUNTY: Las Vegas Bay (L 1972); Hemenway  
Wash (D 1953); Overton area\* (D 1953); Overton  
Wildlife Management Area (An 1974).

Gymnorhinus cyanocephalus. Piñon Jay.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Nucifraga columbiana. Clark's Nutcracker.

CLARK COUNTY: Boulder City\* (G P & E 1959).

#### PARIDAE

Parus gambeli. Mountain Chickadee.

CLARK COUNTY: Boulder City\* (G P & E 1959).

Auriparus flaviceps. Verdin.

CLARK COUNTY: St. Thomas (Li 1936; Ga 1949);

Overton Wildlife Management Area (An 1974);  
Las Vegas Bay (L 1972); Colorado River, east  
of Searchlight (Li 1936); Eldorado Mountains\*  
(G P & E 1959); opposite Fort Mohave\* (Li  
1936); Great Bend of the Colorado (F 1893).  
MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b; Cs  
1878; Ca 1894; Hol 1908).

Psaltiriparus minimus. Bushtit.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton  
Wildlife Management Area (An 1974).

#### SITTIDAE

Sitta carolinensis. White-breasted Nuthatch.

CLARK COUNTY: Boulder City\* (M 1951).

Sitta canadensis. Red-breasted Nuthatch.

CLARK COUNTY: St. Thomas (Li 1936); Boulder City\*  
(M 1951; G P & E 1959; M 1973a).

#### CERTHIIDAE

Certhia familiaris. Brown Creeper.

CLARK COUNTY: Hemenway Wash (G 1939a).

#### CINCLIDAE

Cinclus mexicanus. Dipper.

CLARK COUNTY: Hemenway Wash (G 1939a).

#### TROGLODYTIDAE

Troglodytes aedon. House Wren.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); Hemenway Wash (D 1953); opposite  
Fort Mohave\* (Li 1936); Overton Wildlife

Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Ca 1894; Gr 1914).

Troglodytes troglodytes. Winter Wren.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Thryomanes bewickii. Bewick's Wren.

CLARK COUNTY: Lake Mead area (D 1953); Colorado

River, opposite Fort Mohave\* (Li 1936);

Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Campylorhynchus brunneicapillus. Cactus Wren.

CLARK COUNTY: Las Vegas Wash, near the Colorado

River (F 1893); on mesa between the Muddy and

Virgin Rivers\* (F 1893); Overton Wildlife

Management Area (An 1974).

Telmatodytes palustris. Long-billed Marsh Wren.

CLARK COUNTY: Overton\* (P M & M 1964); Las Vegas

Bay (L 1972); Colorado River, east of Search-

light (Li 1936; D 1953); south of Searchlight

Ferry (D 1953); Colorado River, opposite Fort

Mohave\* (Li 1936); Overton Wildlife Management

Area (An 1974).

Catherpes mexicanus. Canyon Wren.

CLARK COUNTY: Black Canyon (G P & E 1959).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Salpinctes obsoletus. Rock Wren.

CLARK COUNTY: Roger's Spring (H 1939); Las Vegas

Bay (Mo 1975); St. Thomas (D 1953); Lake Mead

(D 1953); Colorado River,  $\frac{1}{2}$  mile north of the California - Nevada Monument\* (Li 1936); Bend of the Colorado River (F 1893).

MOHAVE COUNTY: Fort Mohave (C 1870b; Cs 1878; Gr 1914).

#### MIMIDAE

Mimus polyglottos. Mockingbird.

CLARK COUNTY: Bend of the Colorado River (F 1893); Colorado River, near the California - Nevada line\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Toxostoma bendirei. Bendire's Thrasher..

CLARK COUNTY: Overton Wildlife Management Area (An 1974).

Toxostoma curvirostre. Curve-billed Thrasher.

MOHAVE COUNTY: Fort Mohave\* (Ca 1894).

Toxostoma lecontei. Le Conte's Thrasher..

CLARK COUNTY: Las Vegas Wash\* (L 1972); 8 miles southeast of Searchlight\* (G P & E 1959); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Toxostoma dorsale. Crissal Thrasher.

CLARK COUNTY: Las Vegas Bay (L 1972); St. Thomas area (Li 1936); Colorado River, east of Searchlight (Li 1936); near the mouth of Black Canyon (Ho 1881); Cottonwood Island (Ho 1881);

Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Oreoscoptes montanus. Sage Thrasher.

CLARK COUNTY: Boulder Beach (G P & E 1959);

Colorado River, near the California - Nevada line\* (Li 1936).

#### TURDIDAE

Turdus migratorius. American Robin.

CLARK COUNTY: Boulder City\* (G 1939a; M 1953b, 1954b); Overton Wildlife Management Area (An 1974); Las Vegas Bay (L 1972); St. Thomas (Li 1936); Black Canyon (Li 1936); opposite Fort Mohave\* (Li 1936); below the "Big Bend" (Ho 1881).

MOHAVE COUNTY: Fort Mohave\* (C 1870b; Ho 1881; Gr 1914).

Ixoreus naevius. Varied Thrush.

CLARK COUNTY: Boulder City\* (M 1952b; M 1973b).

Catharus guttata. Hermit Thrush.

CLARK COUNTY: Boulder City\* (G 1939a; G P & E 1959; K 1975b); Colorado River, east of Searchlight (Li 1936); Nevada shore, Fort Mohave area\* (Li 1936).

MOHAVE COUNTY: Fort Mohave\* (C 1861).

Catharus ustulata. Swainson's Thrush.

CLARK COUNTY: Boulder City\* (D 1953).

Sialia mexicana. Western Bluebird.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); Colorado River, opposite Fort  
Mohave\* (Li 1936); Las Vegas Bay (Mo 1975).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Sialia currucoides. Mountain Bluebird.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); St. Thomas (D 1953); Colorado River,  
opposite Fort Mohave\* (Li 1936).

Myadestes townsendi. Townsend's Solitaire.

CLARK COUNTY: Boulder City\* (M 1950b, 1951, 1955,  
G P & E 1959); Boulder Beach (M 1950b; G P & E  
1959); Colorado River, east of Searchlight  
(Li 1936); Lake Mead (M 1953a; G P & E 1959).

#### SYLVIIDAE

Polioptila caerulea. Blue-gray Gnatcatcher.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); Colorado River, opposite Fort  
Mohave\* (Li 1936); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b; Gr 1914).

Polioptila melanura. Black-tailed Gnatcatcher.

CLARK COUNTY: St. Thomas (D 1953); Overton\* (W  
1969); Overton Wildlife Management Area (An  
1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Regulus satrapa. Golden-crowned Kinglet.

CLARK COUNTY: Boulder City\* (M 1954a); Overton



Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

MOTACILLIDAE

Anthus spinoletta. Water Pipit.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975);  
Colorado River, east of Searchlight (Li 1936);  
Hemenway Wash (D 1953); Boulder City\* (D  
1953); Colorado River, opposite Fort Mohave\*  
(Li 1936); Overton Wildlife Management Area  
(An 1974).

BOMBYCILLIDAE

Bombycilla garrulus. Bohemian Waxwing.

CLARK COUNTY: Lake Mead (G 1939e); Boulder City\*  
(M 1952b); Overton Wildlife Management Area  
(An 1974).

MOHAVE COUNTY: Willow Beach (P M & M 1964); Davis  
Dam (P M & M 1964); Fort Mohave\* (C 1861, 1870a).

Bombycilla cedrorum. Cedar Waxwing.

CLARK COUNTY: Boulder City\* (D 1953; G P & E 1959);  
Overton Wildlife Management Area (An 1974).

PTILOGONATIDAE

Phainopepla nitens. Phainopepla.

CLARK COUNTY: Overton area\* (D 1953); Roger's  
Spring (H 1969); Overton Wildlife Management  
Area (An 1974); Colorado River, east of Search-  
light (Li 1936); Colorado River, opposite  
Fort Mohave\* (Li 1936); Vegas Wash, near the

Colorado River (F 1893).

MOHAVE COUNTY: Fort Mohave\* (F 1893; Ca 1894;  
Gr 1914; Sw 1914).

#### LANIIDAE

Lanius excubitor. Northern Shrike.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Lanius ludovicianus. Loggerhead Shrike.

CLARK COUNTY: Las Vegas Bay (L 1972); Roger's  
Spring (H 1969); Colorado River, opposite Fort  
Mohave\* (Li 1936); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

#### STURNIDAE

Sturnus vulgaris. Starling.

CLARK COUNTY: Overton area\* (M 1949b; D 1953; Sn  
1965); Las Vegas Bay (L 1972); Overton Wild-  
life Management Area (An 1974).

#### VIREONIDAE

Vireo huttoni. Hutton's Vireo.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Vireo bellii. Bell's Vireo.

CLARK COUNTY: Hoover Dam area (P M & M 1964); Las  
Vegas Bay (L 1972); Colorado River, opposite  
Fort Mohave\* (D 1953); Overton area\* (P 1973).

MOHAVE COUNTY: Upper Colorado River, to below  
Toroweap Valley (P M & M 1964); Fort Mohave\*  
(C 1861; Hol 1908).

Vireo vicinior. Gray Vireo.

CLARK COUNTY: Boulder City\* (G P & E 1959; according to P M & M 1964, is actually V. bellii).

Vireo solitarius. Solitary Vireo.

CLARK COUNTY: Las Vegas Bay (L 1972); St. Thomas (Li 1936; D 1953); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b; Sw 1914).

Vireo olivaceus. Red-eyed Vireo.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Vireo gilvus. Warbling Vireo.

CLARK COUNTY: St. Thomas (Li 1936); Boulder Beach (G P & E 1959); Boulder City\* (G P & E 1959); Las Vegas Bay (L 1972).

#### PARULIDAE

Mniotilta varia. Black-and-white Warbler.

CLARK COUNTY: Boulder City\* (M 1950b, 1952b, 1972a; D 1953; P & G 1953; P M & M 1964).

Vermivora peregrina. Tennessee Warbler.

CLARK COUNTY: Boulder City\* (M 1973a).

Vermivora celata. Orange-crowned Warbler.

CLARK COUNTY: Boulder City\* (G P & E 1959); St. Thomas (Li 1936; D 1953); Las Vegas Bay (L 1972); Colorado River, east of Searchlight (Li 1936); Overton\* (P M & M 1964); Colorado River, opposite Fort Mohave\* (Li 1936).

MOHAVE COUNTY: Davis Dam area (P M & M 1964).

Vermivora ruficapilla. Nashville Warbler.

CLARK COUNTY: Las Vegas Bay (L 1972); Colorado River, opposite Fort Mohave\* (Li 1936).

Vermivora virginiae. Virginia's Warbler.

CLARK COUNTY: Hemenway Wash (G 1939a).

Vermivora luciae. Lucy's Warbler.

CLARK COUNTY: Lake Mohave, near Searchlight (D 1953); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Pierce Ferry (P M & M 1964); Fort Mohave\* (C 1861, 1870a, 1870b; Ca 1894; Sw 1914).

Dendroica petechia. Yellow Warbler.

CLARK COUNTY: Hemenway Wash (G 1939a); Boulder City\* (G 1939e; M 1973b); Las Vegas Bay (L 1972); Boulder Beach (G P & E 1959); Bend of the Colorado River (F 1893); Colorado River, opposite Fort Mohave\* (Li 1936; P M & M 1964); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Lake Mead (P M & M 1964); Fort Mohave\* (C 1870b; Ho 1881; Gr 1914; Sw 1914).

Dendroica caerulescens. Black-throated Blue Warbler.

CLARK COUNTY: Boulder City\* (M 1954b).

Dendroica coronata. Yellow-rumped Warbler.

CLARK COUNTY: Las Vegas Bay (L 1972; Mo 1975); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Cs 1878; Gr 1914).

Dendroica nigrescens. Black-throated Gray Warbler.

CLARK COUNTY: St. Thomas (D 1953); Boulder City\*  
(D 1953; G P & E 1959).

Dendroica townsendi. Townsend's Warbler.

CLARK COUNTY: Boulder City\* (D 1953); Eldorado  
Mountains\* (G P & E 1959); Searchlight Ferry  
(D 1953).

Dendroica occidentalis. Hermit Warbler.

CLARK COUNTY: Hemenway Wash (G 1939e).

Dendroica cerulea. Cerulean Warbler.

CLARK COUNTY: Boulder Beach (P M & M 1964).

Seiurus aurocapillus. Ovenbird.

CLARK COUNTY: Boulder City\* (M 1954c).

Seiurus noveboracensis. Northern Waterthrush.

CLARK COUNTY: Boulder Beach (D 1953); Boulder  
City\* (D 1953).

Oporornis tolmiei. MacGillivray's Warbler.

CLARK COUNTY: Boulder City\* (D 1953; M 1954c);  
Eldorado Mountains\* (G P & E 1959); Colorado  
River, opposite Fort Mohave\* (Li 1936);  
Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Geothlypis trichas. Yellowthroat.

CLARK COUNTY: St. Thomas (Li 1936); Boulder City\*  
(D 1953; P M & M 1964); Las Vegas Bay (L  
1972); Colorado River, opposite Fort Mohave\*  
(Li 1936).

Icteria virens. Yellow-breasted Chat.

CLARK COUNTY: Las Vegas Bay (L 1972); Bend of the Colorado River (F 1893); St. Thomas (D 1953); Boulder City\* (D 1953; G P & E 1959); Vegas Wash, lower part (F 1893).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b; Sw 1914).

Wilsonia pusilla. Wilson's Warbler.

CLARK COUNTY: Boulder City\* (D 1953; G P & E 1959); Las Vegas Bay (L 1972); Bend of the Colorado River (F 1893); Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Setophaga ruticilla. American Redstart.

CLARK COUNTY: Boulder City\* (Li 1951; M 1951, 1953; P & P 1953).

Setophaga picta. Painted Redstart.

CLARK COUNTY: Mouth of Eldorado Canyon (A & B 1966).

#### PLOCEIDAE

Passer domesticus. House Sparrow.

CLARK COUNTY: Overton\* (Li 1936); Colorado River, east of Searchlight (Li 1936); Overton Wildlife Management Area (An 1974).

#### ICTERIDAE

Dolichonyx oryzivorus. Bobolink.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Sturnella neglecta. Western Meadowlark.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); Colorado River, near the California -  
Nevada line\* (Li 1936); Overton Wildlife  
Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Xanthocephalus xanthocephalus. Yellow-headed Blackbird.

CLARK COUNTY: Las Vegas Bay (L 1972); Kaolin (Li  
1936); Overton\* (W 1969); Overton Wildlife  
Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Ho 1881; Gr 1914;  
Sw 1914).

Agelaius phoeniceus. Red-winged Blackbird.

CLARK COUNTY: St. Thomas area (Li 1936); Las Vegas  
Bay (L 1972); Colorado River, east of Search-  
light (D 1953); Bend of the Colorado River  
(F 1893); Nevada shore, Fort Mohave area\* (Li  
1936); Overton Wildlife Management Area  
(An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Icterus cucullatus. Hooded Oriole.

CLARK COUNTY: Las Vegas Bay (L 1972); south of  
Davis Dam\* (M & P 1964).

Icterus parisorum. Scott's Oriole.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton  
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (?) (C 1870b).

Icterus galbula. Northern Oriole.

CLARK COUNTY: Boulder Beach (G P & E 1959); St. Thomas (Li 1936); Overton Wildlife Management Area (An 1975).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b).

Euphagus cyanocephalus. Brewer's Blackbird.

CLARK COUNTY: Las Vegas Bay (L 1972); Nelson's Landing (G P & E 1959); Bend of the Colorado River (F 1893); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Gr 1914).

Cassidix mexicanus. Great-tailed Grackle.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Molothrus ater. Brown-headed Cowbird.

CLARK COUNTY: Las Vegas Bay (L 1972); Boulder Beach (G P & E 1959); Colorado River, Fort Mohave Area\* (Hol 1908; Li 1936); Overton Wildlife Management Area (An 1974); below Davis Dam\* (A & R).

MOHAVE COUNTY: Willow Beach (G P & E 1959); Fort Mohave\* (C 1870a).

#### THRAUPIDAE

Piranga ludoviciana. Western Tanager.

CLARK COUNTY: Boulder City\* (D 1953; G P & E 1959); St. Thomas (Li 1936); Colorado River, opposite Fort Mohave\* (Li 1936).

Piranga rubra. Summer Tanager.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Colorado



River, southern tip of Clark County\* (Hol 1903).  
MOHAVE COUNTY: Fort Mohave\* (C 1861 (?), 1870a,  
1870b; Ho 1881).

FRINGILLIDAE

Pheucticus ludovicianus. Rose-breasted Grosbeak.

CLARK COUNTY: St. Thomas (G 1939d); Boulder City\*  
(M. 1954c; M 1972c).

Pheucticus melanocephalus. Black-headed Grosbeak.

CLARK COUNTY: Boulder City\* (G 1939a); Boulder  
Beach (G P & E 1959); Overton Wildlife  
Management Area (An 1974).

Guiraca caerulea. Blue Grosbeak.

CLARK COUNTY: St. Thomas (Li 1936); Boulder Beach  
(G P & E 1959); Las Vegas Bay (L 1972);  
Searchlight Ferry (D 1953); Colorado River,  
opposite Fort Mohave\* (Li 1936); Overton  
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a, 1870b; Sw  
1914).

Passerina cyanea. Indigo Bunting.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Passerina amoena. Lazuli Bunting.

CLARK COUNTY: Boulder City\* (G P & E 1959); Boulder  
Beach (G P & E 1959); Las Vegas Bay (L 1972);  
Bend of the Colorado River (F 1893); Overton  
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Spiza americana. Dickcissel.

CLARK COUNTY: Boulder Boat Dock (P & G 1953).

Hesperiphona vespertina. Evening Grosbeak.

CLARK COUNTY: Boulder City\* (G 1939a; G P & E 1959;  
M 1973a); St. Thomas (VR 1936; D 1953);  
Boulder Beach (G P & E 1959).

Carpodacus cassinii. Cassin's Finch.

CLARK COUNTY: Boulder City\* (G 1939a).

Carpodacus mexicanus. House Finch.

CLARK COUNTY: Bend of the Colorado River (F 1893);  
Black Canyon (Li 1936); Boulder City\* (D  
1953); Las Vegas Bay (Mo 1975); Overton Wild-  
life Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Spinus pinus. Pine Siskin.

CLARK COUNTY: Boulder City\* (D 1953; G P & E  
1959; M 1973a); Overton Wildlife Management  
Area (An 1974); south of Davis Dam\* (A & R).

Spinus tristis. American Goldfinch.

CLARK COUNTY: Boulder City\* (D 1953); Searchlight  
Ferry (Ga 1949); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Lava Canyon\* (P M & M 1964).

Spinus psaltria. Lesser Goldfinch.

CLARK COUNTY: Boulder City\* (D 1953; G P & E  
1959); Las Vegas Bay (L 1972); Bend of the  
Colorado River (F 1893); Searchlight Ferry

(Ga 1949); Overton Wildlife Management Area  
(An 1974).

Spinus lawrencei. Lawrence's Goldfinch.

CLARK COUNTY: Southern Clark County\* (J & B 1959).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Loxia curvirostra. Red Crossbill.

CLARK COUNTY: Nevada shore, opposite Willow Beach  
(G 1939a); Boulder City\* (G P & E 1959).

Chlorura chlorura. Green-tailed Towhee.

CLARK COUNTY: Bend of the Colorado River (Li 1936);  
Boulder City\* (D 1953); Overton Wildlife  
Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1861; Gr 1914).

Pipilo erythrophthalmus. Rufous-sided Towhee.

CLARK COUNTY: St. Thomas (VR 1936).

Pipilo fuscus. Brown Towhee.

MOHAVE COUNTY: Fort Mohave\* (F 1893; Ca 1894).

Pipilo aberti. Abert's Towhee.

CLARK COUNTY: St. Thomas area (Li 1936); Las  
Vegas Bay (L 1972); lower Virgin and Muddy  
Rivers (F 1893); Bend of the Colorado River  
(F 1893); Colorado River, east of Searchlight  
(Li 1936); Colorado River, opposite Fort  
Mohave\* (Li 1936); Overton Wildlife Management  
Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Calamospiza melanocorys. Lark Bunting.

CLARK COUNTY: Boulder City\* (D 1953); Searchlight  
Ferry (D 1953); Lake Mead (M 1949b).

Passerculus sandwichensis. Savannah Sparrow.

CLARK COUNTY: Colorado River, east of Searchlight  
(Li 1936); Great Bend of the Colorado River  
(F 1893); Boulder Beach (G P & E 1959);  
Overton Wildlife Management Area (An 1974).

Ammodramus savannarum. Grasshopper Sparrow.

CLARK COUNTY: Southern tip of Clark County\* (Li  
1936, 1951).

Pooecetes gramineus. Vesper Sparrow.

CLARK COUNTY: St. Thomas (D 1953).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Chondestes grammacus. Lark Sparrow.

CLARK COUNTY: Boulder Beach (G P & E 1959);  
Overton Wildlife Management Area (An 1974).

Amphispiza bilineata. Black-throated Sparrow.

CLARK COUNTY: Great Bend of the Colorado River  
(F 1893); Lake Mead (G 1939a); Overton Wild-  
life Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1861; Gr 1914;  
Sw 1914).

Amphispiza belli. Sage Sparrow.

CLARK COUNTY: St. Thomas area (Li 1936); Roger's  
Spring (H 1969); Colorado River, east of  
Searchlight (Li 1936); Vegas Wash to the Bend

of the Colorado River (F 1893); Colorado River, 8 miles above the California - Nevada line\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (Ho 1881; Gr 1914).

Junco hyemalis. Dark-eyed Junco.

CLARK COUNTY: St. Thomas (G 1949; D 1953); Lake Mead area (D 1953); Colorado River, opposite Fort Mohave\* (Li 1936); Las Vegas Bay (Mo 1975); Overton Wildlife Management Area (An 1974); Boulder City\* (D 1953; G P & E 1959); Las Vegas Wash\* (L 1972).

MOHAVE COUNTY: Fort Mohave\* (C 1870a; F 1893; Sw 1914).

Spizella arborea. Tree Sparrow.

CLARK COUNTY: Eldorado Mountains\* (G P & E 1959); Boulder Boat Dock (P & G 1953); Boulder City\* (P & G 1953); southern Nevada\* (P M & M 1964).

Spizella passerina. Chipping Sparrow.

CLARK COUNTY: Boulder City\* (G P & E 1959); St. Thomas (Li 1936); Colorado River, east of Searchlight (Li 1936); south of Davis Dam\* (P M & M 1964); Colorado River, opposite Fort Mohave\* (Li 1936); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Spizella pallida. Clay-colored Sparrow.

MOHAVE COUNTY: Fort Mohave\* (C 1861, 1870a);  
(identified by Ridgway as S. breweri) (Gr  
1914); (see discussion in P M & M 1964).

Spizella breweri. Brewer's Sparrow.

CLARK COUNTY: Boulder City\* (G P & E 1959); St.  
Thomas (Li 1936); Boulder Beach (G P & E  
1959); Colorado River, opposite Fort Mohave\*  
(Li 1936); southern Nevada\* (P M & M 1964);  
Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b).

Zonotrichia querula. Harris' Sparrow.

CLARK COUNTY: Mouth of Eldorado Canyon (Ga 1935);  
Boulder City\* (M 1973b).

Zonotrichia leucophrys. White-crowned Sparrow.

CLARK COUNTY: Boulder Beach (G P & E 1959); Las  
Vegas Bay (L 1972; Mo 1975); Roger's Spring  
(W & R 1967); Colorado River, east of Search-  
light (Li 1936); Searchlight Ferry (D 1953);  
St. Thomas (Ga 1949); Eldorado Mountains\*  
(G P & E 1959); Colorado River, near the  
California - Nevada line\* (Li 1936); Overton  
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870b; Ca 1894;  
Gr 1914; Sw 1914).

Zonotrichia atricapilla. Golden-crowned Sparrow.

CLARK COUNTY: Roger's Spring (W & R 1967); Las

Vegas Bay (L 1972); Boulder City\* (A 1962).

Zonotrichia albicollis. White-throated Sparrow.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

Passerella iliaca. Fox Sparrow.

CLARK COUNTY: Las Vegas Bay (L 1972); Boulder City\*  
(Ga 1949; D 1953; M 1953a).

MOHAVE COUNTY: Beach below Hoover Dam (G 1939e).

Melospiza lincolni. Lincoln's Sparrow.

CLARK COUNTY: Boulder City\* (M 1950b); Searchlight  
Ferry (D 1953); Las Vegas Bay (L 1972);  
Colorado River, east of Searchlight (Li 1936);  
Colorado River, opposite Fort Mohave\* (Li  
1936); Overton Wildlife Management Area (An  
1974).

Melospiza georgiana. Swamp Sparrow.

CLARK COUNTY: Las Vegas Wash\* (L 1972); Overton\*  
(K 1975c).

Melospiza melodia. Song Sparrow.

CLARK COUNTY: Roger's Spring (G P & E 1959); St.  
Thomas area (Ga 1949; Li 1936); Las Vegas Bay  
(L 1972); Colorado River, east of Searchlight  
(Li 1936); Colorado River, opposite Fort  
Mohave\* (Ho 1881; Li 1936); Overton Wildlife  
Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave\* (C 1870a).

Calcarius lapponicus. Lapland Longspur.

CLARK COUNTY: Las Vegas Wash\* (L 1972).

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Audubon Field Notes 20: 537-539.
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Audubon Field Notes 20: 589-591.
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Audubon Field Notes 21: 64-66.
- Sn SNIDER, P. R. 1967b. Winter season. Southwest Region.  
Audubon Field Notes 21: 444-447.
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Audubon Field Notes 23: 88-91.
- Sn SNIDER, P. R. 1969b. Winter season. Southwest Region.  
Audubon Field Notes 23: 505-507.
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Audubon Field Notes 24: 75-79.
- Sn SNIDER, P. R. 1970b. Winter season. Southwest Region.  
Audubon Field Notes 24: 526-528.
- Sn SNIDER, P. R. 1970c. Spring migration. Southwest Region.  
Audubon Field Notes 24: 630-633.
- Sn SNIDER, P. R. 1970d. Nesting season. Southwest Region.  
Audubon Field Notes 24: 703-706.
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Amer. Birds 25: 36-91.

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Amer. Birds 25: 608-612.
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Key to Authors specifically cited in the Mammal Checklist:

Ba	Baldwin, G.C.
BrH	Bradley, W.G., and C.G. Hansen
BrM	Bradley, W.G., and K.S. Moor
BrN	Bradley, W.G., and W.E. Niles
Bu	Burt, W.H.
C	Cockrum, E.L.
D	Deming, O.V.
De	Denniston, A.
DH	Durrant, S.D., and R.M. Hansen
H	Hall, E.R.
HD	Hoffmeister, D.F., and F.E. Durham
HK	Hall, E.R. and K.R. Kelson
MNA	Museum of Northern Arizona
Rb	Barrett, R.
Ry	Ryser, F.
Sz	Sleznick, J.

For Full Bibliographic Citations: Refer to the Mammal Bibliography, pages 231-251.

MAMMALS OF THE  
LAKE MEAD NATIONAL RECREATION AREA

Jeffrey Schwartz  
George T. Austin

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## MAMMALS

### SORICIDAE

Notiosorex crawfordi. Crawford's Desert Shrew.

CLARK COUNTY: Henderson Slough\* (BrM, 1968); Las Vegas Wash\* (BrN, 1972).

### PHYLLOSTOMATIDAE

Macrotus californicus. California Leaf-nosed Bat.

CLARK COUNTY: Hemenway Harbor (Ba, 1944); Hemenway Wash; Jap Ranch, 14 miles E of Searchlight; Colorado River (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Katherine mine drift and shaft (Ba, 1944).

### VESPERTILIONIDAE

Myotis yumanensis. Yuma Myotis.

CLARK COUNTY: along Colorado River (H, 1946).

MOHAVE COUNTY: Fort Mohave\* (HK, 1959).

Myotis velifer. Cave Myotis.

MOHAVE COUNTY: opposite Clark County (H, 1946).

Myotis occultus. Arizona Myotis.

CLARK COUNTY: southern tip of Nevada along Colorado River\* (H, 1946).

MOHAVE COUNTY: Fort Mohave\* (HK, 1959).



Myotis thysanodes. Fringed Myotis.

CLARK COUNTY: 6 miles S of St. Thomas (Bu, 1934).

MOHAVE COUNTY:  $\frac{1}{2}$  mile NE of Vulcan's Throne\* (HD, 1971).

Myotis californicus. California Myotis.

CLARK COUNTY: Boulder City\* (Ba, 1944); Dead Mountains\* (H, 1946).

MOHAVE COUNTY: Stanton Cave (MNA, 1974); 3 miles W of Lower Pigeon Spring\*;  $\frac{1}{2}$  mile NE of Vulcan's Throne\* (HD, 1971); Stanton's Cave (MNA, 1974).

Lasionycteris noctivagans. Silver-haired Bat.

CLARK COUNTY: Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Gold Spring; Colorado River, 4 miles SW of Pierce Ferry (C, 1960).

Pipistrellus hesperus. Western Pipistrelle.

CLARK COUNTY: Colorado River; Boulder City\*; Roger's Spring; Cottonwood Springs (D, 1953); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Pierce Ferry; Goodwater Spring; (Ba, 1944);  $\frac{1}{2}$  mile NE Vulcan's Throne\* (HD, 1971); Stanton's Cave (MNA, 1974).

Eptesicus fuscus. Big Brown Bat.

CLARK COUNTY:  $\frac{1}{4}$  mile SW Kaolin\*; Cedar Basin\*; 6 miles S St. Thomas (H, 1946); St. Thomas (D, 1953); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Fort Mohave\*, Beale's Spring (C, 1960), 3 miles N Mt. Dellenbaugh (HD, 1971).

Lasiurus borealis. Red Bat.

CLARK COUNTY: Overton\* (H, 1946); Las Vegas Wash\*  
(BrN, 1972).

Lasiurus cinereus. Hoary Bat.

CLARK COUNTY: Las Vegas Wash\* (BrN, 1972).

Plecotus townsendii. Western Big-eared Bat.

MOHAVE COUNTY: Rampart Cave (Ba, 1944).

Antrozous pallidus. Pallid Bat.

CLARK COUNTY: 6 miles S St. Thomas; Boulder City\*  
(H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Fort Mohave\* (C, 1960).

#### MOLOSSIDAE

Tadarida brasiliensis. Brazilian Free-tailed Bat.

CLARK COUNTY: St. Thomas; Roger's Spring; Overton\*;  
Colorado River (H, 1946); Las Vegas Wash\* (BrN,  
1972).

MOHAVE COUNTY: Diamond Creek; Fort Mohave\* (C,  
1960); Shivwits Plateau (HD, 1971).

Tadarida molossa. Big Free-tailed Bat.

CLARK COUNTY: Las Vegas Wash\* (BrN, 1972).

#### LEPORIDAE

Sylvilagus nuttallii. Nuttall's Cottontail.

MOHAVE COUNTY: Shivwits Plateau; Twin Springs;  
Price's Point (Ba, 1944).

Sylvilagus audubonii. Desert Cottontail.

CLARK COUNTY: 14 miles E Searchlight; Dead Mountains\*;  
St. Thomas; Kaolin Reservoir\* (H, 1946); Las

Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: lower end of Toroweap Valley\*; Mud Spring\*; (C, 1960); ½ mile E Vulcan's Throne\* (HD, 1971).

Lepus californicus. Black-tailed Jack Rabbit.

CLARK COUNTY: ½ mile E St. Thomas (Bu, 1934); Hemenway Harbor; Lake Mead Lodge (Ba, 1944); 6 miles S St. Thomas; Colorado River (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Pierce Ferry (Ba, 1944); Pierce Ferry; Colorado River; (C, 1960); Grapevine Springs\*; (HD, 1971).

#### SCIRUIDAE

Eutamias dorsalis. Cliff Chipmunk.

CLARK COUNTY: Cedar Basin\*; (Bu, 1934); 30 miles SE St. Thomas (H, 1946).

MOHAVE COUNTY: Shivwits Plateau (Ba, 1944); Oak Grove, NW of Mt. Dellenbaugh\*; Green Springs, SE of Mt. Dellenbaugh; (HD, 1971).

Ammospermophilus harrisi. Harris' Antelope Squirrel.

MOHAVE COUNTY: Gold Basin; Fort Mohave\*; (HK, 1959); Mud Spring\*; Fort Mohave\*; 8 miles SW of Pierce Ferry; 4 miles SW of Pierce Ferry; Gold Basin; 20 miles S of Greggs Ferry; Old Searchlight Ferry (C, 1960).

Ammospermophilus leucurus. White-tailed Antelope Squirrel.

CLARK COUNTY: ½ mile E St. Thomas; Cedar Basin\*; Boulder City\*; road to Boulder Dam; Colorado

River, 14 miles E Searchlight; SE Searchlight; Black Canyon (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Lakeview Point (Ba, 1944); Grand Wash, 8 miles S Pakoon Spring\* (C, 1960);  $\frac{1}{4}$  mile E Grand Wash; Tasi Springs; Seven Springs (HD, 1971); Whitmore Wash (MNA, 1974).

Spermophilus variegatus. Rock Squirrel.

CLARK COUNTY: Cedar Basin\* (H, 1946).

MOHAVE COUNTY: Pierce Ferry (Ba, 1944); 4 miles SW Pierce Ferry; 8 miles N Pine Spring, Hualpai Indian Reservation\*; Red Lake (C, 1960); Waring Ranch House, Parashaunt Wash, Shivwits Plateau\* (HD, 1971); Stanton's Cave; Colorado River, mile 198 (MNA, 1974).

Spermophilus tereticaudus. Round-tailed Ground Squirrel.

CLARK COUNTY: Muddy Creek\* (Bu, 1934); Lower Muddy River Valley\*; Colorado River below Hoover Dam; Boulder Beach; Lake Shore Road (Ba, 1944); Boulder City\*; below Hoover Dam; St. Thomas; Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Colorado River opposite Clark County; Detrital Wash; (H, 1946); Fort Mohave\*; Colorado River, mile 204 (HK, 1959).

#### GEOMYIDAE

Thomomys umbrinus. Southern Pocket Gopher.

CLARK COUNTY: Muddy River Valley\*; Boulder City\*; Durban Ranch; 14 miles E of Searchlight;

St. Thomas; LMNRA; Black Canyon; mouth of Virgin River; (H, 1946); old Searchlight Ferry (HK, 1959).

MOHAVE COUNTY: Shivwits Plateau; Detrital Valley (HK, 1959); Grand Wash; 8 miles S Pakoon Springs\*; Grand Wash, 6 miles S of Pakoon Springs\*; Look-out Point, Gold Basin, 20 miles S of Gregg's Ferry; (C, 1960); Mt. Dellenbaugh, Shivwits Plateau; Sullivan Ranch, 3 miles N of Mt. Emma\*; 4 miles NNE of Vulcans Throne\*, Toroweap Valley\*; Waring Ranch House, Parashant Wash, Shivwits Plateau\*; Oak Grove\*; Seven Springs; Tasi Springs (HD, 1971).

#### HETEROMYIDAE

Perognathus longimembris. Little Pocket Mouse.

CLARK COUNTY: Boulder City\*; SE of Searchlight (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Hoover Dam Ferry (C, 1960).

Perognathus amplus. Arizona Pocket Mouse.

MOHAVE COUNTY: Pierce Ferry (D, 1953); Detrital Wash; (HK, 1959); Pierce Ferry, Colorado River; 4 and 8 miles SW Pierce Ferry; Hoover Dam Ferry, (C, 1960).

Perognathus parvus. Great Basin Pocket Mouse.

MOHAVE COUNTY: Shivwits Plateau; Oak Grove, 3 miles N, 2 miles W of Mt. Dellenbaugh\* (HD, 1971).

Perognathus formosus. Long-tailed Pocket Mouse.

CLARK COUNTY:  $\frac{1}{2}$  mile S St. Thomas;  $\frac{1}{2}$  mile SE St. Thomas; Lost City\*; island in Las Vegas Wash; 2 $\frac{1}{2}$  miles N Hoover Dam Ferry; Cedar Basin\*; Hemenway Wash; Colorado River, 14 miles E of Searchlight; (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Grand Wash; 8 miles S Pakoon Spring\* (C, 1960); Black Willow Springs\*; Grapevine Spring\*; Lake Mead; Vulcan's Throne\* (HD, 1971).

Perognathus penicillatus. Desert Pocket Mouse.

CLARK COUNTY: near St. Thomas (Bu, 1934); Searchlight\* (Ba, 1944); 5 miles SE Overton\*;  $\frac{1}{2}$  mile SE St. Thomas; island in "Boulder" Lake at mouth of Virgin River; Vegas Wash; Colorado River; below Hoover Dam; Jap Ranch, 14 miles E Searchlight; opposite Fort Mohave\* (H, 1946); Muddy River\*; above Hoover Dam (D, 1953).

MOHAVE COUNTY: 4 miles SW Pierce Ferry (Ba, 1944); Fort Mohave\*; old Searchlight Ferry; Colorado River (C, 1960).

Perognathus intermedius. Rock Pocket Mouse.

MOHAVE COUNTY: Rampart Cave; old Searchlight Ferry; Hoover Dam Ferry; (C, 1960).

Perognathus spinatus. Spiny Pocket Mouse.

CLARK COUNTY: Granite Springs (Ry, 1964).

Dipodomys ordii. Ord's Kangaroo Rat.

MOHAVE COUNTY: 3 miles N Mt. Emma\* (HD, 1971).

Dipodomys microps. Chisel-toothed Kangaroo Rat.

MOHAVE COUNTY: Grand Wash Cliffs; (HD, 1971).

Dipodomys merriami. Merriam's Kangaroo Rat.

CLARK COUNTY: 5 miles SE of Overton; Lost City\*;

St. Thomas; Valley of Fire\*; island in Las Vegas Wash\*; 2½ miles N of Hoover Dam Ferry; Cedar Basin\*; Boulder City\*; Hemenway Wash; 14 miles E of Searchlight; opposite Fort.

Mohave\* (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Fort Mohave\*; Pierce Ferry; 4

miles SW of Pierce Ferry; 8 miles SW of Pierce Ferry; old Searchlight Ferry; Hoover Dam Ferry (C, 1960); 6 miles S of Pakoos Springs\*; Grand Wash; Grapevine Springs\*; Seven Springs; Tasi Springs; Lake Mead; Black Willow Spring\*; Sullivan Ranch, 3 miles N of Mt. Emma\*; ½ to 1 mile NE of Vulcan's Throne\*; Dry (Toro-weap) Lake\*; ½ mile S of Dry Lake\* (HD, 1971).

Dipodomys deserti. Desert Kangaroo Rat.

CLARK COUNTY: 7 miles N of Lake Mead (on Virgin arm); 5 miles SE of Overton; island in mouth of Virgin River; St. Thomas; ½ mile E of St. Thomas; Valley of Fire\*; 14 miles E of Searchlight, Colorado River, Jap Ranch (H, 1946).

MOHAVE COUNTY: Grand Wash, 8 miles S of Pakoos Spring\*; Fort Mohave\*; Colorado River, old

Searchlight Ferry (C, 1960); Black Willow Springs\*; Seven Springs; Lake Mead, foot of Grand Wash (HD, 1971).

#### CASTORIDAE

Castor canadensis. Beaver.

CLARK COUNTY: formerly Virgin and Muddy rivers\*; Searchlight Ferry; 10 miles below Hoover Dam (H, 1946); Lake Mohave; below Davis Dam (D, 1953).

MOHAVE COUNTY: Pierce Ferry (H, 1946).

#### CRICETIDAE

Reithrodontomys megalotis. Western Harvest Mouse.

CLARK COUNTY: St. Thomas; Colorado River; 14 miles E of Searchlight (H, 1946); Las Vegas Wash (BrN, 1972),

MOHAVE COUNTY: Waring Ranch, NW of Mt. Dellenbaugh\*; Oak Grove, NW of Mt. Dellenbaugh\*; Green Springs; Sullivan Ranch, 3 miles N of Mt. Emma\*; Dry Lake (Toroweap Lake)\*; ½ mile E of Vulcan's Throne\* (HD, 1971).

Peromyscus crinitus. Canyon Mouse.

CLARK COUNTY: Valley of Fire\*; Boulder City\*; Overton\*; 2½ miles N of Hoover Dam Ferry; (H, 1946).

MOHAVE COUNTY: Hoover Dam Ferry; (C, 1960); base of Grand Wash Ledge; 4 miles S of Pakeon Springs\*; Grapevine Springs\*; Seven Springs;



Tasi Springs; Lake Mead, foot of Grand Wash;  
Toroweap Lake\*; Toroweap Point\*; S end of  
Toroweap Valley\*; ½ mile NE of Vulcan's Throne\*;  
(HD, 1971); Stanton's Cave; Colorado River,  
mile 188 (MNA, 1974).

Peromyscus eremicus. Cactus Mouse.

CLARK COUNTY: Muddy Creek\* (Bu, 1934); ½ mile E  
of St. Thomas; Muddy River\*; Colorado River;  
14 miles E of Searchlight (H, 1946); Las Vegas  
Wash\* (BrN, 1972).

MOHAVE COUNTY: Emory Falls, Twin Canyon; Pierce  
Ferry; 8 miles S of Pierce Ferry (Ba, 1944);  
old Searchlight Ferry; Grand Wash, 8 miles S  
of Pakoon Springs\*; Colorado River, mouth of  
Diamond Creek; Pierce Ferry; 4 miles SW of  
Pierce Ferry; Rampart Cave, Colorado River;  
Gold Basin; 20 miles S of Greggs Ferry (C,  
1960); base of Grand Wash Ledge; Black Willow  
Springs\*; Grapevine Springs\*; Grand Wash;  
Seven Springs; Tasi Springs; Lake Mead, foot  
of Grand Wash; Dry (Toroweap) Lake\*; S end  
Toroweap Valley\*; ½ mile E of Vulcan's Throne\*  
(HD, 1971); Diamond Creek; Whitmore Wash  
(MNA, 1974).

Peromyscus maniculatus. Deer Mouse.

CLARK COUNTY: St. Thomas; Cedar Basin\* (Bu, 1934);  
Colorado River, 14 miles E of Searchlight;

opposite Fort Mohave\* (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Fort Mohave\*; Colorado River; 10 miles N of Red Lake (C, 1960); Shivwits Plateau; Waring Ranch, Shivwits Plateau\*; Green Spring; Sullivan Ranch, 3 miles N of Mt. Emma\*; Toroweap Point\*; Dry (Toroweap) Lake\*;  $\frac{1}{2}$  mile S of Dry Lake\*; 1 mile N of Vulcan's Throne\* (HD, 1971).

Peromyscus boylii. Brush Mouse.

CLARK COUNTY: Colorado River, 14 miles E of Searchlight (H, 1946).

MOHAVE COUNTY: Waring Ranch, Shivwits Plateau\*; Oak Grove\*; NW of Mt. Dellenbaugh; Green Spring, Sullivan Ranch, 3 miles N of Mt. Emma\*; Mt. Dellenbaugh (HD, 1971); Stanton's Cave (MNA, 1974).

Peromyscus truei. Piñon Mouse.

MOHAVE COUNTY: Toroweap Valley\*; Diamond Creek (C, 1960); Waring Ranch House, Parashaunt Wash, Shivwits Plateau\*; Oak Grove\*; NW of Mt. Dellenbaugh; Green Springs; Toroweap Point\*;  $\frac{1}{2}$  mile NE of Vulcan's Throne\* (HD, 1971).

Onychomys leucogaster. Northern Grasshopper Mouse.

MOHAVE COUNTY: Dry (Toroweap) Lake\*;  $\frac{1}{2}$  mile S of Dry Lake\* (HD, 1971).

Onychomys torridus. Southern Grasshopper Mouse.

CLARK COUNTY: St. Thomas; Cedar Basin\*; 14 miles E of Searchlight, Jap Ranch; Colorado River; SW of Searchlight; Bonelli's Ferry; (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Pierce Ferry (Ba, 1944); Gold Basin\*; Grand Wash, 8 miles S of Pakoon Spring\*; (HK, 1959); Colorado River, Pierce Ferry, 8 miles S of Pierce Ferry; Fort Mohave\*; (C, 1960); Grapevine Spring\*; ½ mile E of Vulcan's Throne\* (HD, 1971).

Sigmodon hispidus. Hispid Cotton Rat.

CLARK COUNTY: Colorado River; ½ mile N of California-Nevada Monument\* (H, 1946).

Neotoma albigula. White-throated Wood Rat.

MOHAVE COUNTY: Colorado River opposite Searchlight (H, 1946); Fort Mohave\* (HK, 1959); Colorado River; Gold Basin; 20 miles S of Greggs Ferry (C, 1960).

Neotoma lepida. Desert Wood Rat.

CLARK COUNTY: Muddy River\*; Lost City\*; St. Thomas; Cedar Basin\*; 2½ miles N of Hoover Dam Ferry; Boulder City; Colorado River, 14 miles E of Searchlight; (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: near Rampart Cave, S of Pierce Ferry (Ba, 1944); Hoover Dam Ferry; Colorado

River; (HK, 1959); Colorado River, mouth  
Diamond Creek; Fort Mohave\*; Grand Wash, 8  
miles S of Pagoon Springs\*; (C, 1960); Black  
Willow Springs\*; Seven Springs; Tasi Springs;  
Lake Mead, foot of Grand Wash; Waring Ranch;  
Shivwits Plateau\*; Green Springs; Toroweap  
Point\*; ½ mile E of Vulcan's Throne\* (HD,  
1971); Stanton's Cave; Whitmore Wash; (MNA,  
1974).

Ondatra zibethicus. Muskrat.

CLARK COUNTY: Muddy Creek near St. Thomas (Bu,  
1934); Colorado River, Durban Ranch, 14 miles  
E of Searchlight (H, 1946); Lower Colorado  
River (D, 1953); Las Vegas Wash\* (BrN, 1972).

MURIDAE

Mus musculus. House Mouse.

CLARK COUNTY: Boulder City\*; LMNRA; Colorado  
River (H, 1946); Las Vegas Wash\* (BrN, 1972).

ERETHIZONTIDAE

Erethizon dorsatum. Porcupine.

CLARK COUNTY: Colorado River below Hoover Dam  
(D, 1953).

MOHAVE COUNTY: Mt. Dellenbaugh; Shivwits Plateau;  
(HD, 1971).

CANIDAE

Canis latrans. Coyote.

CLARK COUNTY: Cedar Basin\*; Colorado River, 14  
miles E of Searchlight; Overton\* (H, 1946);

Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Mt. Dellenbaugh; Waring Ranch,  
Shivwits Plateau\*; Toroweap Lake\*; Toroweap  
Point\*; (HD, 1971).

Canis lupus. Gray Wolf.

MOHAVE COUNTY: Virgin Basin (Ba, 1944).

Vulpes macrotis. Kit Fox.

CLARK COUNTY: Boulder City\*; Boulder Beach; Las  
Vegas Wash\* (Ba, 1944); Durban Ranch, Colorado  
River; 14 miles E of Searchlight; SE of  
Searchlight (H, 1946); Las Vegas Wash\* (BrN,  
1972).

MOHAVE COUNTY: Fort Mohave\* (Hk, 1959); Grand  
Wash (HD, 1971).

Urocyon cinereoargenteus. Gray Fox.

CLARK COUNTY: Boulder City\* (Ba, 1944); Cedar  
Basin\*; 14 miles E of Searchlight, Colorado  
River (H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Waring Ranch; Shivwits Plateau\*;  
(HD, 1971).

#### PROCYONIDAE

Bassariscus astutus. Ringtail.

CLARK COUNTY: along Colorado River (Bu, 1934);  
Boulder City\* (Ba, 1944); Eldorado Canyon  
(H, 1946); Hoover Dam; Overton\* (D, 1953);  
Boulder City\* (BrH, 1965).

MOHAVE COUNTY: mouth of Diamond Creek (HK, 1959);

along Colorado River; Grand Wash; (HD, 1971).

Procyon lotor. Raccoon.

CLARK COUNTY: Quartermaster Canyon; Twin Canyon;  
Spencer Canyon; Overton area along Muddy  
River\* (Ba, 1944); Colorado River drainage  
(D, 1953); Las Vegas Wash\* (BrN, 1972).

#### MUSTELIDAE

Mustela frenata. Long-tailed Weasel.

CLARK COUNTY: reported along Colorado River (H,  
1946).

Taxidea taxus. Badger.

CLARK COUNTY: Black Canyon (Ba, 1944); Boulder  
City\*; LMNRA; Colorado River, 14 miles E of  
Searchlight (H, 1946); Las Vegas Wash\* (BrN,  
1972).

MOHAVE COUNTY: Shivwits Plateau; Toroweap Valley\*;  
(HD, 1971).

Spilogale gracilis. Western Spotted Skunk.

CLARK COUNTY: St. Thomas (Bu, 1934); Overton\*  
(Ba, 1944); 1½ mile NW of Boulder City\* (H,  
1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Pakoon Springs; Tasi Springs;  
Waring Ranch, Shivwits Plateau\*; along  
Colorado River (HD, 1971).

Mephitis mephitis. Striped Skunk.

CLARK COUNTY: along Muddy Creek and Virgin River\*  
(Bu, 1934); Muddy and Virgin valleys near  
Overton\* (Ba, 1944); Colorado River; Jap

Ranch, 14 miles E of Searchlight; Durban  
Ranch, LMNRA (H, 1946); Las Vegas Wash\* (BrN,  
1972).

MOHAVE COUNTY: Fort Mohave\* (C, 1960); S of Mt.  
Dellenbaugh; Shivwits Plateau (HD, 1971).

Lutra canadensis. River Otter.

CLARK COUNTY: Colorado River at Virgin River;  
Boulder Canyon; mouth of Eldorado Wash (H,  
1946); Iceberg Canyon (D, 1953).

MOHAVE COUNTY: Willow Beach (Ba, 1944).

#### FELIDAE

Felis concolor. Mountain Lion.

CLARK COUNTY: Boulder Beach Ranger Station; S  
of Las Vegas Wash\* (Ba, 1944).

MOHAVE COUNTY: Waring Ranch; Shivwits Plateau\*;  
(HD, 1971).

Lynx rufus. Bobcat.

CLARK COUNTY: Boulder City\*; Valley of Fire\*;  
Black Canyon (Ba, 1944); Cedar Basin\*;  
Colorado River, 14 miles E of Searchlight  
(H, 1946); Las Vegas Wash\* (BrN, 1972).

MOHAVE COUNTY: Grand Wash; Waring Ranch; 9 miles  
N, 1 mile W of Mt. Dellenbaugh\*; (HD, 1971).

#### EQUIDAE

Equus asinus. Feral Burro.

CLARK COUNTY: Boulder Canyon; along Lake Mohave  
(Ba, 1944); Gold Butte\*; (D, 1953); River  
Mountains (De, 1965).

CERVIDAE

Odocoileus hemionus. Mule Deer.

CLARK COUNTY: Gold Butte\* (Ba, 1944); Bonelli Peak (H, 1946); Black Canyon; Eldorado Canyon; Colorado River below Hoover Dam; Colorado River below Searchlight; Lake Mohave (D, 1953).

MOHAVE COUNTY: Mt. Dellenbaugh; (HD, 1971).

ANTILOCAPRIDAE

Antilocapra americana. Pronghorn.

CLARK COUNTY: possibly Gold Butte in early days\* (D, 1953).

BOVIDAE

Ovis canadensis. Mountain Sheep.

CLARK COUNTY: Black Canyon below Boulder Dam; Boulder Canyon; Iceberg Canyon; (Ba, 1944); 4 miles E of Boulder City\*; opposite Willow Beach; 9 miles S of Hoover Dam; 14 miles E of Searchlight; Cottonwood Cove Road; Bonelli Peak (H, 1946); along Colorado River (D, 1953); many locations on Nevada side of Colorado River (Sz, 1963); Valley of Fire\*; Newberry Mountains; Black Mountain; Spirit Mountain; Eldorado Range; just S of Boulder City\*; Gold Butte\* (Rb, 1965); River Mountains. LMNRA (De, 1965).

MOHAVE COUNTY: Toroweap\*, then along Colorado



River to California (HK, 1959); Arizona side  
of Hoover Dam; Willow Beach (Sz, 1963);  
Grand Wash Cliffs (HD, 1971).

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PRELIMINARY  
INVERTEBRATE BIBLIOGRAPHY

Craig Downer

## Preliminary Invertebrate Bibliography

### Note:

In searching the literature for references relating to the biota of the Lake Mead National Recreation Area, references that report on invertebrate life were recorded. Since no systematic quest for such citations for invertebrates was made in current investigations, the following bibliography is preliminary in nature and should prove useful pending more detailed studies on the invertebrates.

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