3-1977

Biota of Lake Mead: Annotated checklist and bibliography

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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
BIOTA OF LAKE MEAD NATIONAL RECREATION AREA

PROJECT REPORT NO. 1

ANNOTATED CHECKLIST AND BIBLIOGRAPHY

March 1977
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

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March 1977

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CONTENTS

Introduction .................................................. 1
Acknowledgments ............................................. 5
Flora of Lake Mead National Recreation Area ............. 9
   Historical Accounts ...................................... 11
   Plant Checklist .......................................... 15
   Plant Bibliography ...................................... 71
Vertebrates of the Lake Mead National Recreation Area ... 81
   Historical Accounts ...................................... 83
   Fishes ...................................................... 89
      Checklist ............................................... 91
      Bibliography .......................................... 99
   Amphibians and Reptiles ................................ 111
      Checklists .............................................. 113
      Bibliography .......................................... 123
   Birds ....................................................... 139
      Checklist ............................................... 141
      Bibliography .......................................... 197
   Mammals .................................................... 211
      Checklist ............................................... 213
      Bibliography .......................................... 231
Invertebrates: Bibliography .................................. 243
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. Briggle 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. Briggle 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 Mowbry 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.
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. Jones 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 1972); 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).

*Bouteloua aristidoides* (HBK.) Griseb. (needle grama)

CLARK COUNTY: Hemenway Wash (D, 1953).

*Bouteloua barbata* Lag. (six-weeks grama)


*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); rave on Rocky slopes above Lake Mead in the Canyon (P, 1975).

*Bromus arizonicus* (Shear) Stebbins (bromegrass)


*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 ciliaris* (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); Widespread and common in all dry habitats 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)


*Muhlenbergia porteri* Scribn. (bush muhly)


*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 sleep slopes, in small seeps and in side canyons at lower elevations in the Grand Canyon (P, 1975).

*Polypogon monspeliensis* (L.) Desf. (rabbitfoot grass)


*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. marisculus  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)

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 pensylvanica Muhl. (pellitory)

MOHAVE COUNTY: Scattered in moist, shady sites
on steep slopes and in side canyons in the

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

POLYGONACEAE (Buckwheat Family)

Chorizanthe brevicornu  Torr.

MOHAVE COUNTY: Vulture Canyon (P, 1975); rare on

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);

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 habitats 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.


Eriogonum thomasii Torr.


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

Polygonum argyrocoleon Steud. (knotweed)


Pterostegia drymarioides Fisch. & Meyer

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

Rumex crispus L. (dock)

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.


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 sleep talus below Rampart Cave (P, 1975).

CLARK COUNTY: Hemenway Wash (Cov, 1893).

Boerhaavia wrightii Gray


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)


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)


**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)


**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)

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.

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 amplexctens 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)

Cercocarpus betuloides Nutt. (mountain-mahogany)


Cercocarpus montanus Raf. (mountain-mahogany)


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)


Astragalus lentiginosus Doug. var. australis Barneby

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

Astragalus lentiginosus Doug. var. mokiacensis (Gray) Jones


Astragalus nuttallianus DC.


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.

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. *imparta* 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)

**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

**LINACEAE (Flax Family)**

*Linium lewisii* Pursh (flax)

**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).

37
**Euphorbia arizonicana** Engelm. (spurge)

CLARK COUNTY: Hemenway Wash (D, 1953).

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


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


CLARK COUNTY: Overton (Cov, 1893).

RHAMNACEAE (Buckthorn Family)

**Ceanothus greggii** Gray


**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 ambiguа Gray (globemallow)

MOHAVE COUNTY: Common at Spencer Canyon (CJ, 1944); Common and widespread in the drier, open habitat and on rocky, norh 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)

*Euclidium 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 tetranosticta** 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 elevations 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

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

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).

**Samosus 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 pennsylvânica 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)


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


*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 of 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.


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.


Phacelia glechomaefolia Gray


Phacelia ivesiana Torr.

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

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

Phacelia laxiflora Howell

50
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


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.

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


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 holooptera (Gray) Macbr.

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

Cryptantha inaequata Johnst.


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


**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 travertine 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)


**Salazaria mexicana** Torr. (bladder-sage)


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

**Salvia columbariae** Benth. (chia)


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)


*Penstemon subulatus* Jones


*Veronica anagallis-aquatica* L. (speedwell)


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)


CUCURBITACEAE (Gourd Family)

*Marah fabaceus* (Naud.) Greene (wild cucumber)

MOHAVE COUNTY: Black Canyon (I, 1850).
CAMPANULACEAE (Bellflower Family)

*Nemacladus glanduliferus* Jeps.


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).

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)


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).

Circium undulatum  (Nutt.) Spreng. (thistle)

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

Dyssodia pentachaeta  (DC.) Rob.


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.


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)


Gnaphalium wrightii Gray (everlasting)


Gutierrezia microcephala (DC.) Gray (snakeweed)

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

Haploppappus acradenius (Greene) Blake

MOHAVE COUNTY: Separation Rapids (CJ, 1944);
Scattered in side canyons and near the lakeshore 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


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)


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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VERTEBRATES OF THE
LAKE MEAD NATIONAL RECREATION AREA

Historical Review .............................................. 83

Fishes
  Checklist .......................................................... 91
  Bibliography ...................................................... 99

Amphibians and Reptiles
  Checklists ........................................................... 113
  Bibliography .................................................... 123

Birds
  Checklist .......................................................... 141
  Bibliography .................................................... 197

Mammals
  Checklist .......................................................... 213
  Bibliography .................................................... 253
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, pages 99-109.
FISHES OF THE
LAKE MEAD NATIONAL RECREATION AREA

Craig Downer and John Blake

Fish Checklist ........................................ 91
Fish Bibliography ...................................... 99
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).

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).

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 (M, 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).

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 (WDB, 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 platyrynchus.** 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.

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; Callville Bay (De, 1971a); lower Moapa River (DB, 1972); throughout LMNRA (Mi, 1973).

Lepomis macrochirrus. 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

Amphibians Checklist .............. 113
Reptiles Checklist .................. 115
Amphibians and Reptiles Bibliography ............. 123
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 Phelan, 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.


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 gracilis. 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 Search-light*; 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 douglasi.* Short-horned Lizard.

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

MOHAVE COUNTY: Kaibab Plateau (St, 1958).

TEIDAE

*Cnemidophorus tigris.* Western Whiptail.

CLARK COUNTY: Calville Bay; Muddy and Virgin river valleys*; Calville (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; Colorado 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

Bird Checklist ........... 143
Bird Bibliography ........ 197
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  DeSauussure, 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.
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.
GAVIIDAE


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).

Gávia arctica. Arctic Loon.

CLARK COUNTY: Las Vegas Bay (Mo 1975).

Gávia stellata. Red-throated Loon.

CLARK COUNTY: Las Vegas Bay (L 1972).

PODICIPEDIDAE


CLARK COUNTY: Lake Mead (Mo 1974).

Podiceps auritus. Horned Grebe.


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.

*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);
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, ½ 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); Colorad0 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).


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 Wildlife 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).

Gymnogopus 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
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.


**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); St. Thomas area (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 Management Area (An 1974).

Falco columbarius. Pigeon Hawk.

CLARK COUNTY: St. Thomas (Li 1936).

MOHAVE COUNTY: Fort Mohave (Li 1936).
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 Searchlight (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; Ho 1975); Lake Mead (Sm 1937); Overton Wildlife Management Area (An 1974).

CHARADRIIDAE

**Charadrius semipalmatus.** Semipalmated Plover.

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

**Charadrius alexandrinus.** Snowy Plover.

CLARK COUNTY: St. Thomas (G 1939a); Overton area* (Sm 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, 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).


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.

**Actitis macularia.** Spotted Sandpiper.

**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 1935); 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 (P & E 1962); 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).

Limos a feda. Marbled Godwit.

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

RECURVIROSTRIDAE


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

PHALAROPIDAE

Phalaropus fulicarius. Red Phalarope.


Steganopus tricolor. Wilson's Phalarope.

CLARK COUNTY: Kaolin Reservoir (Sn 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
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 (L 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).
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).

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).

*Childonias niger. Black Tern.

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

*Aeronantes 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, ½ 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, \( \frac{1}{2} \) 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
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 Wildlife 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.


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

**Empidonax hammondii.** 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 rubinu**. Vermilion Flycatcher.

**CLARK COUNTY: Boulder Beach (G P & E 1959); Hemenway Wash (D 1953); Nevada shore, Fort Mohave area* (Hol 1908; Li 1936); Overton Wildlife 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 1975a, 1975b); Overton Wildlife Management Area (An 1974).

Riparia riparia. Bank Swallow.

CLARK COUNTY: Bend of the Colorado (F 1883).

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 1883); 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).


CLARK COUNTY: Las Vegas Bay (L 1972); Hemenway Wash (D 1953); Overton area* (D 1953); Overton Wildlife Management Area (An 1974).

Gymnorhina cyanoccephalus. Piñon Jay.

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

Nucifraga columbiana. Clark's Nutcracker.

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

PARIDAE

Parus gambelii. 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).

Psaltriparus 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).

*Troglohytes 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 Searchlight (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 1959); Las Vegas Bay (Mo 1975); St. Thomas (D 1953); Lake Mead
(D 1953); Colorado River, ½ 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).


CLARK COUNTY: Boulder City* (M 1954a); Overton
Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave* (Gr 1914).

MOTACILLIDAE

_Anthus spinola_. 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 Searchlight (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 Wildlife 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


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; Mc 1975); Overton Wildlife Management Area (An 1974).

MOHAVE COUNTY: Fort Mohave* (Cs 1873; 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 auropalliatus. 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).


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.


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).


CLARK COUNTY: St. Thomas area (Li 1936); Las Vegas Bay (L 1972); Colorado River, east of Searchlight (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 1955); 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).


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 Wildlife 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).


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
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).


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).

Poecetes 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 Wildlife 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 Searchlight (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
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 lincolnii. 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 21: 444-447.

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SNIDER, P. R. 1969b. Winter season. Southwest Region.
Audubon Field Notes 23: 505-507.

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Audubon Field Notes 24: 75-79.

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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

SORICIDAE


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: ½ 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*; ½ mile NE of Vulcan's Throne* (HD, 1971); Stanton's Cave (MNA, 1974).

Lasionycteris noctivagans. Silver-haired Bat.


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); ½ mile NE Vulcan's Throne* (HD, 1971); Stanton's Cave (MNA, 1974).

Eptesicus fuscus. Big Brown Bat.

CLARK COUNTY: ¼ mile SW Kaolin*; Cedar Basin*; 6 miles S St. Thomas (H, 1946); St. Thomas (D, 1953); Las Vegas Wash* (BrN, 1972).

**Lasiurus borealis.** Red Bat.

CLARK COUNTY: Overton* (H, 1946); Las Vegas Wash* (BrN, 1972).

**Lasiurus cinereus.** Hoary Bat.


**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, 1950).

**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 molossra.** Big Free-tailed Bat.


**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); ½ mile E Grand Wash; Tasi Springs; Seven Springs (HD, 1971); Whitmore Wash (MNA, 1974).

*Spermophilus variegatus. Rock Squirrel.


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*; Lookout Point, Gold Basin, 20 miles S of Greggs 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: ½ mile S St. Thomas; ¼ mile SE St. Thomas; Lost City*; island in Las Vegas Wash; 2½ 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*; ½ 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 Pakoon 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 Pakoon 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 Ledges; 4 miles S of Pakoon Springs*; Grapevine Springs*; Seven Springs;
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*; ½ 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, 1950); Waring Ranch House, Parashant Wash, Shivwits Plateau*; Oak Grove*; NW of Mt. Dellenbaugh; Green Springs; Toroweap Point*; ½ mile NE of Vulcan's Throne* (HD, 1971).

Onychomys leucogaster. Northern Grasshopper Mouse.

MOHAVE COUNTY: Dry (Toroweap) Lake*; ½ 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 Pakoon Springs*; (C, 1960); Black
Willow Springs*; Seven Springs; Tasi Springs;
Lake Mead, foot of Grand Wash; Waring Ranch;
Shivwits Plateau*; Green Springs; Toroweap
Point*; ¼ 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.** Racoon.

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*; LNMRA; 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.

**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).
MAMMAL BIBLIOGRAPHY


Letters underlined in left margin refer to authors specifically cited in Mammal Checklist.

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238


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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