APPENDIX A

Common Plants of Montezuma Castle and Tuzigoot National Monuments

| TREES | COMMON NAME | SCIENTIFIC NAME |
|-------|-------------|-----------------|
| | | |

one-seed juniper * Juniperous monosperma

Utah juniper Juniperous osteosperma

cottonwood * Populus fremontii

peach leaf willow Salix amygdaloides

Gooding willow Salix goodingii

sed willow Salix lawigata

red willow

Salix laevigata

Arizona Walnut *

Juglans major

Alnus oblongifolia

Palmer oak

Suix laevigata

Juglans major

Alnus oblongifolia

Quercus palmeri

Shrub live oak

Quercus turbinella

Celtis reticulata

Arizona sycamore * Plantanus wrightii
catclaw * Acacia greggii
mesquite * Prosopsis juliflora
false paloverde * Canotia holacantha

box-elder Acer negundo

soapberry Sapindus saponaria velvet ash * Fraxinus velutina

SHRUBS COMMON NAME SCIENTIFIC NAME

four-wing saltbush * Atriplex canescans

goosefoot Chenopodium fremontii

winterfat Eurotia lanata
Russian thistle Salsola kali

red mahonia * Berberis baematocarpa

golden currant Ribes aureum

cliff-rose

joint fir *

Ephedra trifurca

range ratany

Wait-a-bit (mimosa.)

indigobush

creosote bush *

gray thorn *

Cowania mexicana

Ephedra trifurca

Mimosa biuncifera

Mimosa biuncifera

Larrea tridentata

Zizyphus obtusifolia

tamarix Tamarix pentandra
sacred datura (jimsonweed) Datura metaloides
desert thorn Lycium pallidum
desert willow * Chilopsis linearis

desert broom Baccharis sarothroides baccharis Baccharis emoryi seep willow Baccharis glutinosa mule fat Baccharis viminea snakeweed Gutierrezia sarotbrae burrobush Hymenoclea monogyra mariola Parthenium confertum Acourtia wrightii perezia brickellia Brickellia, californica brickellia Brickellia atractyloides crownbeard Verbesina encelioides Mormon tea Ephedra viridis skunkbush Rbus trilobata

CACTUS COMMON NAME SCIENTIFIC NAME

hedgehog cactus Echinocereus Boyce-Thompsonii

pricklypear * Opuntia engelmannii
pricklypear Opuntia macrocentra
desert Christmas cactus Opuntia leptocaulis

OTHER COMMONLY SEEN PLANTS

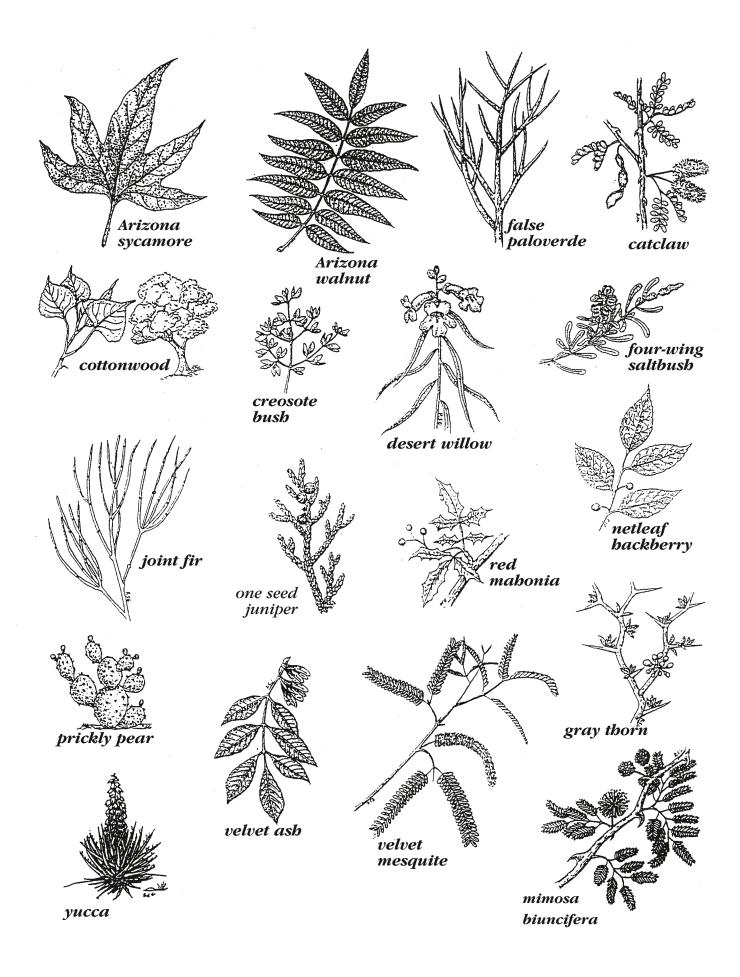
COMMON NAME SCIENTIFIC NAME

banana yucca
Soaptree yucca
Soaptree yucca
Century plant
Agave parryi
Allionia
Allionia incarnata
four o'clock
Mirabilis multiflora
Potemogoten illinoensis
buffalo gourd

Cucurbita foetidissima

wild cucumber Marah gilensis
poison-ivy Rhus radicans
canyon grape Vitis arizonica

^{*} See following page for illustration



APPENDIX B

Fishes, amphibians, Reptiles, and Mammal of Montezuma Castle and Tuzigoot **National Monuments**

RELATIVE ABUNDANCE AND STATUS CODES

- R rare; only known from a very few records
- U uncommon; occurring in relatively low numbers, or scattered distribution
- C common; present in relatively high numbers, generally widespread
- A abundant; a common species that is quite numerous
- X extirpated; a species that occurred in the area at one time, but is now absent
- I introduced; species not originally native to the area, introduced by man

| FISH | COMMON NAME | SCIENTIFIC NAME | STATUS |
|------|-----------------|-------------------------|--------------|
| | Sonora sucker | Catostomus insignis | U |
| | desert sucker | Catostomus clarki | С |
| | green sunfish | Lepomis cyanellus | C (I) |
| | smallmouth bass | Micropterus dolomieui | C/A (I) |
| | spotted bass | Micropterus punctulatus | X (I) |
| | largemouth bass | Micropterus salmoides | (I) |
| | longfin dace | Agosia chrysogaster | R |
| | red shiner | Cyprinella lutrensis | C/A (I) |
| | common carp | Cyprinus carpio | C (I) |
| | roundtail chub | Gila robusta | R |
| | spikedace | Meda fulgida | X |
| | speckled dace | Rhinichthys osculus | \mathbf{X} |
| | loach minnow | Rhinicthys cobitis | X |
| | black bullhead | Amelurus melas | (I) |
| | yellow bullhead | Ameiurus natalis | U (I) |
| | channel catfish | Ictalurus punctatus | (I) |

| red-spotted toad Woodhouse's toad Bufo woodbousei Canyon treefrog Bufl woodbousei Canyon treefrog Bullfrog Rana catesbeiana R (I) REPTILES COMMON NAME COMMON NAME SCIENTIFIC NAME STATUS COMMON NAME SCIENTIFIC NAME SCIENTIFIC NAME STATUS COMMON NAME SCIENTIFIC NAME SCIENTIFIC NAME STATUS COMMON NAME SCIENTIFIC NAME SCIENTIFIC NAME STATUS COMMON NAME SCIENTIFIC N |
|--|
| canyon treefrog Hyla arenicolor U bullfrog Rana catesbeiana R (I) REPTILES COMMON NAME SCIENTIFIC NAME STATUS common slider Tracbemys scripta U(I) Sonoran mud turtle Kinosternon sonoriense A spiny softshell turtle Trionyx spiniferus R Arizona alligator lizard Gerrbonotus kingii U Western banded gecko Coleonyx variegatus R Gila monster Heloderma suspectum X? greater earless lizard Copbosaurus texanus U collared lizard Crotaphytus collaris U short-horned lizard Phrynosoma douglassii R Clark's spiny lizard Sceloporus clarkii U desert spiny lizard Sceloporus magister C eastern fence lizard Sceloporus undulatas U tree lizard Urosaurus ornatus C/A side-blotched lizard Uta stansburiana A Gila spotted whiptail Cnemidopborus inornatus R Western whiptail Cnemidopborus inornatus |
| Bullfrog Rana catesbeiana R (I) REPTILES COMMON NAME SCIENTIFIC NAME STATUS common slider Tracbemys scripta U(I) Sonoran mud turtle Kinosternon sonoriense A spiny softshell turtle Trionyx spiniferus R Arizona alligator lizard Gerrbonotus kingii U Western banded gecko Coleonyx variegatus R Gila monster Heloderma suspectum X? greater earless lizard Copbosaurus texanus U collared lizard Crotapbytus collaris U short-horned lizard Phrynosoma douglassii R Clark's spiny lizard Sceloporus clarkii U desert spiny lizard Sceloporus magister C eastern fence lizard Sceloporus undulatas U tree lizard Urosaurus ornatus C/A side-blotched lizard Uta stansburiana A Gila spotted whiptail Cnemidopborus flagellicaudus U little striped whiptail Cnemidopborus tigris A |
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| |
| desert orassland whintail Coomidothorus unitrarens |
| Cocit grassiane willpain outhan provision authorities |
| plateau striped whiptail Cnemidophorus velox U |
| glossy snake Arizona elegans R |
| ring-necked snake Diadophis punctatus U |
| night snake <i>Hypsiglena torquata</i> R |
| common Kingsnake Lampropeltis getulus R |
| coachwhip Masticophis flagellum R |
| striped whipsnake Masticophis taeniatus U |
| gopher snake Pituophis melanoleucus U |
| long-nosed snake Rhinocheilus lecontei R |

| | Western patch-nosed snake | Salvadora hexalepis | U |
|---------|----------------------------------|-------------------------|--------|
| | ground snake | Sonora semiannulata | U |
| | black-necked garter | | |
| | snake | Thamnophis cyrtopsis | U |
| | Western lyre snake | Trimorphodon biscutatus | R |
| | Sonoran coral snake | Micruroides euryxanthus | R |
| | Western diamond-back rattlesnake | Crotalus atrox | U |
| | black-tailed rattlesnake | Crotalus molossus | U |
| | Mojave rattlesnake | Crotalus scutulatus | R |
| MAMMALS | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | desert shrew | Notiosorex crawfordi | R |
| | Mexican free-tailed bat | Tadarida brasiliensis | U |
| | palid bat | Antrozous pallidus | U |
| | big brown bat | Eptesicus fuscus | U |
| | red bat | Lasiurus borealis | R |
| | California myotis | Myotis californicus | U |
| | small-footed myotis | Myotis subulatus | R |
| | Arizona myotis | Myotis occultus | R |
| | fringed myotis | Myotis thysanodes | R |
| | cave myotis | Myotis velifer | U |
| | Yuma myotis | Myotis yumanensis | C |
| | Western pipistrelle | Pipistrellus besperus | C |
| | Townsend's big-eared | | |
| | bat | Plecotus townsendi | U |
| | black-tailed jack rabbit | Lepus californicus | С |
| | desert cottontail | Sylvilagus auduboni | С |
| | Eastern cottontail. | Sylvilagus floridanus | U |
| | beaver | Castor canadensis | U |
| | white-throated woodrat | Neotoma albigula | С |
| | Mexican woodrat | Neotoma mexicana | R |
| | Stephen's woodrat | Neotoma stephensi | U |
| | muskrat | Ondatra zibethica | U |
| | Northern grasshopper mouse | Onychomys leucogaster | U |

| brush mouse | | Peromyscus boylei | A |
|----------------|-------------|---------------------------|-------|
| cactus mouse | : | Peromyscus eremicus | A |
| white-footed | mouse | Peromyscus leucopus | R |
| deer mouse | | Peromyscus maniculatus | U |
| Western harve | est mouse | Reithrodontomys megalotis | U |
| Arizona cotto | n rat | Sigmodon arizonae | X |
| porcupine | | Erethizon dorsatum | R |
| Bota's pocket | gopher | Thomomys bottae | С |
| Ord's kangaro | oo rat | Dipodomys ordi | U |
| hispid pocket | mouse | Perognathus hispidus | X |
| rock pocket n | nouse | Perognathus intermedius | U |
| Harris' antelo | pe squirrel | Ammospermophilus harrisi | U |
| Arizona gray s | squirrel | Sciurus arizonensis | R |
| rock ground | squirrel | Spermophilus variegatus | С |
| cliff chipmun | k | Eutamias dorsalis | U |
| coyote | | Canis latrans | U |
| gray fox | | Urocyon cinereoargenteus | U |
| mountain lio | n | Felis concolor | R |
| ocelot | | Felis pardalis | X |
| bobcat | | Felis rufus | U |
| hog-nosed sk | unk | Conepatus leuconotus | U |
| striped skunk | (| Mephitis mephitis | U |
| Western spott | ted skunk | Spilogalev gracilis | R |
| river otter | | Lutra canadensis | R |
| badger | | Taxidea taxus | R |
| ringtail | | Bassariscus astutus | U |
| raccoon | | Procyon lotor | C |
| black Bear | | Ursus americanus | R |
| pronghorn | | Antilocarpa americana | X |
| American elk | | Cervus elaphus | C (I) |
| mule seer | | Odocoileus hemionus | C |
| white-tailed d | leer | Odocoileus virginianus | U |
| collared pecc | ary | Tayassu tajacu | U |
| | | | |

APPENDIX C

Common Birds Montezuma Castle and Tuzigoot National Monuments

| ALL YEAR RESIDENTS | Bewick's wren | rufou |
|------------------------|-----------------------|---------|
| American kestrel | canyon wren | Cassin |
| American robin | rock wren | Weste |
| belted kingfisher | bridled titmouse | lesser |
| common raven | | North |
| crissal thrasher | WINTER RESIDENTS | North |
| Gambel's quail | bald eagle | oriole |
| great blue heron | ferruginous hawk | hood |
| black-throated sparrow | Canada goose | phain |
| red-tailed hawk | dark-eyed junco | summ |
| house finch | American goldfinch | cliff s |
| lesser goldfinch | lesser goldfinch | rough |
| mourning dove | hermit thrush | turke |
| Northern cardinal | chipping sparrow | white |
| great-horned Owl | red-shafted flicker | yellov |
| Western screech Owl | ruby-crowned kinglet | yellov |
| black phoebe | Western blue bird | brown |
| Say's phoebe | white-crowned sparrow | ash-th |
| roadrunner | yellow-rumped warbler | myrtle |
| scrub jay | mallard | Bell's |
| vermillion flycatcher | sage thrasher | brown |
| song sparrow | American widgeon | white |
| Abert's towhee | | |
| | | |

SPRING/SUMMER RESIDENTS

black-chinned

hummingbird

common black hawk

us hummingbird in's kingbird ern kingbird r nighthawk hern mockingbird hern (Bullock's) led oriole nopepla mer Tanager swallow h-winged swallow ey vulture e-throated swift w-breasted chat w warbler n-crested flycatcher hroated flycatcher le warbler s vireo n-headed cowbird e-throated swift

Brown towhee

rufous-sided towhee

Gila woodpecker

ladder-backed

woodpecker

APPENDIX D

Sensitive Species Montezuma Castle and Tuzigoot National Monuments

STATUS CODES

| | E – Endangered | T – Threatened | |
|----------|-----------------------|--------------------------|--------|
| | C – Candidate | Ex – Extinct in Arizona | |
| | S – Sensitive Species | N – Native Fish Species | |
| FISH | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | spikedace | Meda fulgida | T |
| | roundtail chub | Gila robusta | C/S |
| | loach minnow | Rhinicthys cobitus | T |
| | longfin dace | Agosia chrysogaster | N |
| | desert sucker | Catostomus clarki | N |
| | Sonora sucker | Catostomus insignis | N |
| | Speckled dace | Rhinichthys osculus | N |
| BIRDS | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | bald eagle | Haliaeetus leucocephalus | E/S |
| | yellow-billed cuckoo | Coccyzus arnericanus | S |
| | common black hawk | Buteogallus anthracinus | S |
| | belted kingfisher | Ceryle alcyon | S |
| MAMMALS | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | red bat | Lasiurus borealis | S |
| | Camp Verde cotton rat | Sigmodon arizonae | Ex |
| | river otter | Lutra canadensis sonorae | C/S |
| REPTILES | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | Gila monster | Heloderma suspectum | S |
| PLANTS | COMMON NAME | SCIENTIFIC NAME | STATUS |
| | Arizona cliffrose | Cowania subintegra | E/S |

APPENDIX E

Glossary

- Agriculture: The science or art of cultivating land for the production of domestic plants or farming.
- Ancestral Pueblo or Anasazi:
 Prehistoric Southwestern culture
 that lived and dry-farmed on the
 Colorado Plateau.
- Aquatic: A plant or animal that lives or grows in water.
- Aquifer: Any geological formation containing water, especially one that supplies water to wells, springs, etc.
- Archeological site: Any concentration of artifacts, features, or ecofacts left by humans.
- Archeologist: A scientist who studies people of the past.
- Archeology: The scientific study of the human past.
- Artifact: An object used or made by humans.
- Arizona sycamore: Deciduous tree with lobed leaves, ball-like seed clusters, and white bark that flakes off in patches, used by the Sinagua for construction.
- Beans: Varieties of domesticated legumes grown by peoples of the Southwest as one of three major staples.
- Beaver Creek: A tributary of the Verde River that flows near Montezuma Castle NM and Montezuma Well.
- Biodiversity: The wide variety of life forms that occur within an area.

- Cliff dwelling: One or more rooms constructed within a cave or rock shelter by Southwest peoples.
- Context: The location in which an artifact is found, both horizontally or vertically. For example, a ceramic pot may be found on a prehistoric room floor, where it was used for storage, or outside on the remains of a firepit, where it was used for cooking.
- Corn/maize: A domestic grass that was the staple of the native peoples of the Americas.
- Culture: All nonbiological aspects of human adaptation, such as behavior, language, ideology, artifacts, etc.
- Ecosystem: The complex of living organisms and their environment functioning as a unit in nature.
- Environment: All of the surroundings that influence the growth, development, and well--being of a living thing.
- Erosion: The weathering and carving away of rocks by wind and water.
- Estuary: An area where seawater mixes with fresh water.
- Evaporation: The act or process of evaporating, or the change of water from a liquid state to a gaseous state.
- Excavation: The systematic and scientific digging and recording of a archeological site.
- Floodplain: A flat area along a river or creek often subject to overflowing.

- Fossil: Any replacement, impression, or cast of a once-living organism found in the layers of rock in the earth
- Groundwater: Water within the earth that supplies wells and springs.
- Habitat: The area in which a living organism usually lives.
- Hackberry: A small deciduous tree of riparian habitats at elevations of 2,000 to 5,000 feet that produces small, sweet berries
- Handaxe: A three-quarter grooved stone tool hafted to a wooden handle, to chop wood.
- Heritage: A place, thing, or idea passed down from one generation to another, such as historic or cultural site; an heirloom; or a tradition, legend, or myth.
- Historic: The time period following the introduction of writing in a particular location. In the North American Southwest, this date was about AD 1540.
- Hohokam: A prehistoric Southwest culture that occupied the upper Sonoran desert and practiced irrigation farming.
- Hunter-gatherers: A subsistence pattern based upon the collection of wild plants and animals.
- Hydrology: The science of the occurrence and distribution of underground water.
- Irrigation: The diversion of water from natural waterways through manmade canals and ditches to farm otherwise-dry areas.
- Limestone: A sedimentary rock with a high calcium carbonate content.

- Mano: The long rectangular milling stone used on a metate.
- Metate: The base stone used by peoples of the Southwest and Mexico to mill or grind grain, seeds, and clay.
- Migration: The periodic movement of animals and people from one region to another.
- Mineral: Naturally occurring in organic substances that make up the rocks of the earth.
- Mogollon: A prehistoric Southwest culture that farmed and lived in the mountainous regions east and south of the Mogollon Rim.
- National Monument: A natural or cultural resource declared by the U.S. President and administered, preserved, and protected by the National Park Service.
- Paleontologist: A scientist who studies fossils.
- Pithouse: A partial subterranean house constructed of logs, limbs, grasses, and clay, inhabited throughout the Southwest by prehistoric farmers.
- Pottery: Containers of fired clay used to cook and store food.
- Prehistoric: A time period before written records. Because writing occurred at different times in different regions, it varies around the world. For the Southwest, it lasted until 1540 then the Spanish came into the area.
- Pueblo: Masonry and clay houses connected together into a village or town, often more than one story high.

- Riparian: Habitat ecosystem associated with a river or creek usually with an abundance of plant and wild-life.
- Salado: A Southwest culture that farmed and built their villages along the Salt River.
- Salt mine: The remains of a salt extraction site near the present town of Camp Verde that the Sinagua and later peoples mined for their use, and for trade.
- Sedimentation: The deposition or accumulation of sediment: mineral or organic matter deposited by the forces of water, wind, and ice,
- Sinagua: A prehistoric Southwest culture that farmed the uplands near present-day Flagstaff and the Verde River.
- Sinkhole: A hole formed in soluble rock such as limestone by the action of water flowing to an under-ground passage, such as Montezuma Well.
- Species: The basic biological classification of any group of organisms that are biologically similar and can only reproduce with one another.

- Squash: A group of vegetables grown on vines of the genus Curcubita, which formed one of the three staples of the Americas.
- Swallet: The name given to the passage through which water flows out of Montezuma Well into the irrigation canal.
- Textiles: Woven fabrics made from plant and animal fibers.
- Trade: The exchange of goods through buying, selling, and barter.
- Verde River: The major perennial water source of the Verde Valley, which flows near Tuzigoot.
- Yavapai-Apache: The present Native American tribe living in the Verde Valley, whose roots in the area are hundreds of years old.

APPENDIX F

Suggested Resources

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Those Who Came Before: Southwestern Archeology in the National Park System. Produced by EastWest Media Productions. Tucson: Southwest Parks and Monuments Association, 1997.

INSTITUTIONS AND ORGANIZATIONS

Arizona State Museum University of Arizona P.O. Box 210026 Tucson, AZ 85721 (520) 6214695 www.statemuseum.arizona.edu

Arizona State Parks 1300 W. Washington Phoenix, AZ 85007 (602) 542-4174 www.pr.state.az.u

Heard Museum 2301 North Central Avenue Phoenix, AZ 85004 (602) 252-8840 www.heard.org

Mesa Southwest Museum 53 N. MacDonald Street Mesa, AZ 85201 (480) 644-2230 Museum of Northern Arizona 3101 N. Fort Valley Road Flagstaff, AZ 86001 (928) 774-5213

National Audubon Society 700 Broadway New York, NY 10003 (212) 979-3000

National Forest Service www.fs.fed.us Local: Coconino National Forest (928) 282-4119 Prescott National Forest (928) 567-4121 National Park Service www.nps.gov Local: Montezuma Castle NM (928) 567-3322 Montezuma Well NM (928) 567-4521 Tuzigoot NM (928) 634-5564

National Parks and Conservation Association 1300 19th Street, NW, Suite 300 Washington, DC 20036 800-628-7275 npca@npca.org

National Wildlife Federation 1400 16th Street Washington, D.C. 20036 (800) 822-9919 www.nwf.gov

North American Association for Environmental Education P.O. Box 400 Troy, OH 45373 (513) 698-6493

Western National Parks Association 12880 North Vistoso Village Dr. Tucson, AZ 85737 (520) 622-1999 www.wnpa.org