4.0 CONSULTATION AND COORDINATION

The preparation of this EA required communication and consultation with various federal, state, and local agencies and citizens.

The following list summarizes the agencies contacted during the preparation of the Yuma, Arizona Welcome Center Parking Lot EA.

FEDERAL AGENCIES

U.S. Department of the Interior

Bureau of Land Management

Bureau of Reclamation, Yuma Area Office
U.S. Fish and Wildlife Service

STATE AGENCIES

Arizona Department of Game and Fish Arizona State Historic Preservation Office

LOCAL AGENCIES

Yuma County
Department of Community Development
County Assessor's Office
Yuma County Water Users' Association

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6.0 LIST OF APPENDICES

Appendix A - Species Accounts and Evaluations

Appendix B - Cultural Resource Inventory and Agency Correspondence

Appendix C - Profile of General Demographic Characteristics: 2007

Appendix A: Species Accounts and Evaluations



U.S. Fish & Wildlife Service

Endangered Species List



List of species by county for Arizona:

Counties Selected: Yuma

Select one or more counties from the following list to view a county list:

Apache
Cochise
Coconino
Gila
Graham

View County List

Yuma County

Common Name	Scientific Name	Species Group	Listing Status	Species Image	Species Distribution Map	Critical Habitat	More Info
bald eagle	Haliaeetus leucocephalus	Birds	DM				P
brown pelican	Pelecanus occidentalis	Birds	DM, E	2	T.		P
razorback sucker	Xyrauchen texanus	Fishes	E		4	Final	P
Sonoran pronghorn	Antilocapra americana sonoriensis	Mammals	E				P
southwestern willow flycatcher	Empidonax traillii extimus	Birds	Е		The state of the s		P
yellow-billed Cuckoo	Coccyzus americanus	Birds	C				P
Yuma clapper rail	Rallus longirostris yumanensis	Birds	E		4		P

Project Name: Yuma, Arizona Welcome Center Parking Lot Date: 11/6/2008 10:44:11 AM Arizona's On-line Environmental Review Tool Search ID: 20081106007425

Project Location



The Department appreciates the opportunity to provide in-depth comments and project review when additional information or environmental documentation becomes available.

Special Status Species Occurrences/Critical Habitat/Tribal Lands within 2 miles of Project Vicinity:

Name	Common Name	ESA	ESA USFS BLM	BLM	State
Athene cunicularia hypugaea	Western Burrowing Owl	SC		S	
Empidonax traillii extimus	Southwestern Willow Flycatcher	쁴	s		WSC
Fort Yuma Indian Reservation	Fort Yuma Indian Reservation				
Rallus longirostris yumanensis	Yuma Clapper Rail	H			WSC

Project Name: Yuma, Arizona Welcome Center Parking Lot Submitted By: Sandra Huff

On behalf of: BOR

Project Search ID: 20081106007425

Date: 11/6/2008 10:44:04 AM

Project Category: Recreation Areas, Campgrounds, parking lots, restrooms, Maintenance of existing facilities Project Coordinates (UTM Zone 12-NAD 83): 160187.222, 3626756.273

neter

Project Area: 5.514 acres Project Perimeter: 659.084 meter

County: YUMA

USGS 7.5 Minute Quadrangle ID: 1545 Quadrangle Name: YUMA WEST

Project locality is not anticipated to change

Location Accuracy Disclaimer

accurate for the purposes of environmental review. The Project locations are assumed to be both precise and creator/owner of the Project Review Receipt is solely correctness of the Project Review Receipt content. responsible for the project location and thus the

Please review the entire receipt for project type recommendations and/or species or location information and retain a copy for future reference. If any of the information you provided did not accurately reflect this project, or if project plans change, another review should be conducted, as this determination may not be valid.

Arizona's On-line Environmental Review Tool:

- 1. This On-line Environmental Review Tool inquiry has generated recommendations regarding the potential impacts of your project on Special Status Species (SSS) and other wildlife of Arizona. SSS include all U.S. Fish and Wildlife Service federally listed, U.S. Bureau of Land Management sensitive, U.S. Forest Service sensitive, and Arizona Game and Fish Department (Department) recognized species of concern.
- 2. These recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation). These recommendations are preliminary in scope, designed to provide early considerations for all species of wildlife, pertinent to the project type you entered.
 - 3. This receipt, generated by the automated On-line Environmental Review Tool does not constitute an official project review by Department biologists and planners. Further coordination may be necessary as appropriate under the National Environmental Policy Act (NEPA) and/or the Endangered Species Act (ESA).

The U.S. Fish and Wildlife Service (USFWS) has regulatory authority over all federally listed species under the ESA. Contact USFWS Ecological Services Offices: http://arizonaes.fws.gov/.

Phoenix Main Office 2321 W. Royal Palm Road, Suite 103 Phoenix, AZ 85021 Phone 602-242-0210 Fax 602-242-2513

Tucson Sub-Office 201 North Bonita, Suite 141 Tucson, AZ 85745 Phone 520-670-6144 Fax 520-670-6154 Flagstaff Sub-Office 323 N. Leroux Street, Suite 101 Flagstaff, AZ 86001 Phone 928-226-0614 Fax 928-226-1099

Disclaimer:

- This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area.
- 2. The Department's Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur
- 3. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
 - HDMS data contains information about species occurrences that have actually been reported to the Department.

Arizona Game and Fish Department Mission

To conserve, enhance, and restore Arizona's diverse wildlife resources and habitats through aggressive protection and

management programs, and to provide wildlife resources and safe watercraft and off-highway vehicle recreation for the enjoyment, appreciation, and use by present and future generations.

Project Category: Recreation Areas, Campgrounds, parking lots, restrooms, Maintenance of existing facilities

Project Type Recommendations:

Development plans should provide for open natural space for wildlife movement, while also minimizing the potential for wildlife-human interactions through design features. Please contact Project Evaluation Program for more information on living with urban wildlife.

During planning and construction, minimize potential introduction or spread of exotic invasive species. Invasive species can be plants, animals (exotic snails), and other organisms (e.g. microbes), which may cause alteration to ecological functions or compete with or prey upon native species and can cause social impacts (e.g. livestock forage reduction, increase wildfire risk). The terms noxious weed or invasive plants are often used interchangeably. Precautions should be taken to wash all equipment utilized in the project activities before and after project activities to reduce the spread of invasive species. Arizona has noxious weed regulations (Arizona Revised Statutes, Rules R3-4-244 and R3-4-245). See Arizona Department of Agriculture website for restricted plants

http://www.azda.gov/PSD/quarantine5.htm. Additionally, the U.S. Department of Agriculture has information regarding pest and invasive plant control methods including: pesticide, herbicide, biological control

agents, and mechanical control:

http://www.usda.gov/wps/portal/usdahome. The Department regulates the importation, purchasing, and transportation of wildlife and fish (Restricted Live Wildlife), please refer to the hunting regulations for further information http://www.azgfd.gov/h_f/hunting_rules.shtml.

Project Location and/or Species recommendations:

Tribal Lands are within the vicinity of your project area (refer to page of the receipt) and may require further coordination. Please contact:

Fort Yuma-Quechan Tribe

P.O. Box 1899 Yuma, AZ 85366

Phone: 760-572-0213 Fax: 760-572-2102 HDMS records indicate that one or more listed, proposed, or candidate species or Critical Habitat (Designated or Proposed) have been documented in the vicinity of your project (refer to page 1 of the receipt). Please contact:

ecelpt). Please contact:

Ecological Services Office US Fish and Wildlife Service

2321 W. Royal Palm Rd. Phoenix, AZ 85021-4951 Phone: 602-242-0210 Fax: 602-242-2513 HDMS records indicate that western burrowing owls have been documented within the vicinity of your project area (refer to the species list on page 1 of the receipt). Please review the relocation procedures recommended for burrowing owls found on the Environmental Review Home Page.

http://mirror-pole.com/burr_owl/bur_owl1.htm

Recommendations Disclaimer:

- Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project.
 - These recommendations are proposed actions or guidelines to be considered during preliminary project development.
- Additional site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies.
- 4. Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
 - 5. The Department is interested in the conservation of all fish and wildlife resources, including those Special Status Species listed on this receipt, and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
 - 6. Further coordination requires the submittal of this initialed and signed Environmental Review Receipt with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map).
 - 7. Upon receiving information by AZGFD, please allow 30 days for completion of project reviews. Mail requests to:

Project Evaluation Program, Habitat Branch

Arizona Game and Fish Department 5000 West Carefree Highway Phoenix, Arizona 85086-5000 Phone Number: (623) 236-7600 Fax Number: (623) 236-7366

Terms of Use

By using this site, you acknowledge that you have read and understand the terms of use. Department staff may revise these terms periodically. If you continue to use our website after we post changes to these terms, it will mean that you accept such changes. If at any time you do not wish to accept the Terms, you may choose not to use the website.

- This Environmental Review and project planning website was developed and intended for the purpose of screening projects for potential impacts on resources of special concern. By indicating your agreement to the terms of use for this website, you warrant that you will not use this website for any other purpose.
- Unauthorized attempts to upload information or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
 - The Department reserves the right at any time, without notice, to enhance, modify, alter, or suspend the website and to terminate or restrict your access to the website.
- This Environmental Review is based on the project study area that was entered. The review must be redone if the project study area, location, or the type of project changes. If additional information becomes available, this review may need to be reconsidered.
 A signed and initialed copy of the Environmental Review Receipt indicates that the entire receipt has been read by the signer of the Environmental Review Receipt.

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The Environmental Review and project planning web application operates on a complex State computer system. This system is monitored to ensure proper operation, to verify the functioning of applicable security features, and for other like purposes. Anyone using this system expressly consents to such monitoring and is advised that if such monitoring reveals possible evidence of criminal activity, system personnel may provide the evidence of such monitoring to law enforcement officials. Unauthorized attempts to upload or change information; to defeat or circumvent security measures; or to utilize this system for other than its intended purposes are prohibited.

This website maintains a record of each environmental review search result as well as all contact information. This information is maintained for internal tracking purposes. Information collected in this application will not be shared outside of the purposes of the Department.

If the Environmental Review Receipt and supporting material are not mailed to the Department or other appropriate agencies within six (6) months of the Project Review Receipt date, the receipt is considered to be null and void, and a new review must be initiated.

Print this Environmental Review Receipt using your Internet browser's print function and keep it for your records. Signature of this receipt indicates the signer has read and understands the information provided.

Date:

Signature:

Proposed Date of Implementation:

Please provide point of contact information regarding this Environmental Review.

Application or organization responsible for project implementation

Agency/organization:

Address:

Contact Name:

City, State, Zip:

Phone:

ja ar E-mail:

Person Conducting Search (if not applicant)

Agency/organization:

Contact Name:

Arizona's On-line Environmental Review Tool Search ID: 20081106007425 Project Name: Yuma, Arizona Welcome Center Parking Lot Date: 11/6/2008 10:44:11 AM City, State, Zip: Address: Phone: E-mail:

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APPLICATION INITIALS:

Status Definitions Page 1 of 3



ARIZONA GAME AND FISH DEPART

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- ONLINE SERVICES
- NEWSROOM
- HUNTING & FISHING
- OUTDOOR RECREATION
- ₩ILDLIFE & CONSERVATION

Living with Wildlife Comprehensive Wildlife Conservation Strategy Teaming With Wildlife

Conservation & Management Heritage Fund Program

Research

Technical Reports

Wildlife Related Diseases

Nongame Species Arizona's Natural Heritage Program (HDMS)

- Arizona's Natural Heritage
- What is the HDMS?
- Products & Services
- Species Data Lists
- Plant & Animal Abstracts
- Contact HDMS

Project Evaluation Program

(PEP)

Economic Impact Special Permits

Resources

- INFORMATION & EDUCATION
- INSIDE AZGFD
- FAQS

Status Definitions

Federal U.S. Status

ESA Endangered Species Act (1973 as amended)

US Department of Interior, Fish and Wildlife Service

Listed

LE Listed Endangered: imminent jeopardy of extinction.

LT Listed Threatened: imminent jeopardy of becoming

Endangered.

PS Partial Status: listed Endangered or Threatened, but not

in entire range.

XN Experimental Nonessential population.

PDL Proposed for delisting.

Proposed for Listing

PE Proposed Endangered PT Proposed Threatened

Candidate (Notice of Review: 1999)

Candidate. Species for which USFWS has sufficient information on biological vulnerability and threats to support proposals to list as Endangered or Threatened under ESA. However, proposed rules have not yet been issued because such actions are precluded at present by other listing activity.

SC

Species of Concern. The terms "Species of Concern" or "Species at Risk" should be considered as terms-of-art that describe the entire realm of taxa whose conservation status may be of concern to the US Fish and Wildlife Service, but neither term has official status (currently all former C2 species).

DPS Distinct Population Segment. A portion of a species' or subspecies' population or range. The DPS is generally described geographically.

Critical Habitat (check with state or regional USFWS office for location details)

Y Yes: Critical Habitat has been designated.

Proposed: Critical Habitat has been proposed.

[\N No Status: Certain populations of this taxon do not have designated status (check with state or regional USFWS office for details about which populations have designated status)].

USFS US Forest Service (1999 Animals, 1999 Plants) US Department of Agriculture, Forest Service, Region 3

S Sensitive: those taxa occurring on National Forests in Arizona which are considered sensitive by the Regional Forester.

Related AZC

- Sign up for
- Watchable
- Wildlife Nev

External Re

- Natural Res Conservatio
- Endangered

NOTE: Externa a new browser

BLM US Bureau of Land Management (2005 Animals, 2005 Plants)

US Department of Interior, BLM, Arizona State Office

- S Sensitive: those taxa occurring on BLM Field Office Lands in Arizona which are considered sensitive by the Arizona State Office.
- P Population: only those populations of Banded Gila monster (*Heloderma suspectum cinctum*) that occur north and west of the Colorado River, are considered sensitive by the Arizona State Office.

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Tribal Status

NESL Navajo Endangered Species List (2005)

Navajo Nation, Navajo Fish and Wildlife Department

The Navajo Endangered Species List contains taxa with status from the entire Navajo Nation which includes parts of Arizona, Utah, and New Mexico. In this notebook we provide NESL status for only those taxa whose distribution includes part or all of the Arizona portion of the Navajo Nation.

Groups

- 1 Those species or subspecies that no longer occur on the Navajo Nation.
- 2 Any species or subspecies which is in danger of being eliminated from all or a significant portion of its range on the Navajo Nation.
- 3 Any species or subspecies which is likely to become an endangered species, within the foreseeable future, throughout all or a significant portion of its range on the Navajo Nation.
- 4 Any species or subspecies for which the Navajo Fish and Wildlife Department (NF&WD) does not currently have sufficient information to support their being listed in Group 2 or Group 3 but has reason to consider them. The NF&WD will actively seek information on these species to determine if they warrant inclusion in a different group or removal from the list.

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Mexican Status

MEX Mexican Federal Endangered Species List (May 16, 2000) Proyecto de Norma Oficial Mexicana PROY-NOM-059-ECOL-2000

The Mexican Federal Endangered Species List contains taxa with status from the entire Mexican Republic and waters under its jurisdiction. In this notebook we provide MEX designations for only those taxa occurring in Arizona and also in Mexico.

- P En Peligro de Extinción (Determined Endangered in Mexico): in danger of extinction.
- A Amenazada (Determined Threatened in Mexico): could become endangered if factors causing habitat deterioration or population decline continue.

Status Definitions Page 3 of 3

Pr Sujeta a Protección Especial (Determined Subject to Special Protection in Mexico): utilization limited due to reduced populations, restricted distribution, or to favor recovery and conservation of the taxon or associated taxa.

E Probablemente extinta en el medio silvestre (Probably extinct in the wild of Mexico): Anative species whose individuals in the wild have disappeared, based on pertinent documentation and studies that prove it. The only existing individuals of the species are in captivity or outside the Mexican territory.

[|= One or more subspecies of this species has status in Mexico, but the HDMS does not track it at the subspecies level (most of these subspecies are endemic to Mexico). Please consult the NORMA Oficial Mexicana PROY-NOM-059-ECOL-2000 for details.]

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State Status

SPROT:

Plants - NPL Arizona Native Plant Law (2006)

Arizona Department of Agriculture

HS Highly Safeguarded: no collection allowed.

SR Salvage Restricted: collection only with permit.

ER Export Restricted: transport out of State prohibited.

SA Salvage Assessed: permits required to remove live

HR Harvest Restricted: permits required to remove plant by-products.

WSCA Wildlife of Special Concern in Arizona (in prep)

Arizona Game and Fish Department

WSC Wildlife of Special Concern in Arizona. Species whose occurrence in Arizona is or may be in jeopardy, or with known or perceived threats or population declines, as described by the Arizona Game and Fish Department's listing of Wildlife of Special Concern in Arizona (WSCA, in prep). Species indicated on printouts as WC are currently the same as those in **Threatened Native** Wildlife in Arizona (1988).

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Ranking Definitions Page 1 of 3



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AZGFD HOME ■ ONLINE SERVICES	Rankir	ng Definitions
NEWSROOM HUNTING & FISHING	Global	
UILDLIFE & CONSERVATION		Priority ranking (1 to 5) based on the number of nees throughout the entire range of the element.
Living with Wildlife Comprehensive Wildlife	G1	Very Rare: 1 to 5 occurrences or very few individuals or acres.
Conservation Strategy Teaming With Wildlife	G2	Rare: 6 to 20 occurrences or few individuals or acres.
Conservation & Management Heritage Fund Program Research	G3	Uncommon or Restricted: 21 to 100 occurrences, rather rare throughout a fairly wide range, or fairly common in a rather restricted range.
Technical Reports Wildlife Related Diseases Nongame Species	G4	Apparently Secure: more than 100 occurrences, though it could be quite rare in some parts of its range.
Arizona's Natural Heritage	G5	Demonstrably Secure: more than 100 occurrences.
Program (HDMS) - Arizona's Natural Heritage - What is the HDMS?	GH	Historic: presumed extinct in the wild though the possibility remains that it could be rediscovered; and/or the element exists in captive populations.
 Products & Services Species Data Lists Plant & Animal Abstracts 	GU	Unrankable. Also used at the subspecies level as G#TU.
- Contact HDMS Project Evaluation Program	GX	Extinct: little or no possibility of ever being rediscovered anywhere within its range.
(PEP) Economic Impact Special Permits	С	Captive or Cultivated: presently extant globally only in captivity or cultivation. (Used in conjunction with a GRank, i.e. GXC, GHC.)
Resources INFORMATION & EDUCATION INSIDE AZGFD	NE	National Exotic: exotic to the United States of America. (Used in conjunction with a G#.)
INSIDE AZGFD FAQS	G#Q	Taxonomic Question: taxonomic status is questionable; numeric rank may change with taxonomy.
	Q	Taxonomically Invalid: taxon has been reassigned to another name; this is usually a Category 3B taxon under the Endangered Species Act. (Not used in conjunction with a GRank, i.e. stands alone.)
	SYN	Indicates synonym of currently recognized scientific name. (Not used in conjunction with a GRank, i.e. stands alone.)
	G#T#	Subspecies: numeric designations based on same criteria as those for global ranks.

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State Rank

one rank.

G#?

SRank: priority ranking (1 to 5) based on the number of occurrences of an element within a State.

S1 Very Rare: 1 to 5 occurrences in the State or very few individuals or acres within the state.

Uncertain: insufficient information to give a definitive ranking. Confidence of numeric rank is plus or minus

S2 Rare: 6 to 20 occurrences in the State or few

Related AZC

Sign up forWatchableWildlife Nev

Natural Res Conservation - Endangered

NOTE: Externa a new browser

	individuals or acres within the state.
S3	Uncommon or Restricted: 21 to 50 occurrences in the State, either rather rare throughout a fairly wide range, or fairly common in a rather restricted range within the State.
S3S4	Fairly Common: 51 to 100 occurrences and found over a rather wide range within the State.
S4	Apparently Secure: more than 100 occurrences within the State, though it could be quite rare in some parts of the State.
S5	Demonstrably Secure: more than 100 occurrences within the State.
SA	State Accidental: not expected to be found in the State on a predictable basis.
SB	State Breeding: populations which breed and tend to be present in the state year round; generally used in conjunction with SN Rank when taxon has both migratory (non-breeding) and non-migratory (breeding) populations.
SC	State Captive or Cultivated: presently extant in the state only in captivity or cultivation.
SE	State Exotic: may be native elsewhere in the United States, but is an established exotic within the State; numeric designations as for state rank.
SEH	State Exotic Historic: exotic within the state and not verified within the past 20 years.
SER	State Exotic Reported: reported from the State, but without persuasive evidence to either accept or reject the report; if it does occur in the State it is an established exotic.
SH	State Historic: historical occurrences in the state, perhaps having not been verified in the past 20 years, and suspected to be still extant.
SN	State Non-breeding: usually migratory and typically non-breeding in the State; numeric designation follows "N" if occurs at definite (defensible) locality.
SP	State Potential: theoretically may exist in the State, but no documentation is available to prove or disprove its existence.
SR	State Reported: reported from the State, but without persuasive evidence to either accept or reject the report.
SRF	State Reported Falsely: reported in error from the State and this error persists in the literature.
SU	State Unrankable: unrankable at the State level.
SYN	Indicates synonym of currently recognized scientific name. (Not used in conjunction with an SRank, i.e. stands alone.)
SX	State Extirpated or Extinct: considered to no longer occur within Arizona.

Data Sensitive

DataSens: Yes/No. Indicates whether or not occurrence localities for this element are especially vulnerable to disturbance.

Track

Y Yes: data is being actively accumulated and entered into computerized and manual files.

W

Watch: data is being passively accumulated and archived into manual files.

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Special Status Species by County, Taxon, Scientific Name Arizona Game and Fish Department, Heritage Data management System Updated: June 03, 2008

Prog	COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NFSI	MEXEED STATE	STATE	CRANK	SPANK
AMPHIBIANA Rame physical properties Chiricachaa Loopard Frog AAABB10100 1T S 7 WSC G5 AMFPHBIANA Rama pupieras Northern Loopard Frog AAABB10170 SC S 7 R WSC G5 BIRD Acceptive qualities Northern Coopard Frog AAABB10120 SC S 4 A WSC G5 BIRD Athere canacidars hypurgas Western Burroving Owl ARNRS10012 SC S 4 A WSC G5 BIRD Charactive conscious americants receiperatis Western Patroving Cook ARNRS10012 C S 4 A WSC G5 BIRD Cocceptus conficients Woodmain Prover ARNRS10010 C S 2 A A G7 BIRD Cocceptus conficients Woodmain Prover ASPRANDO C S 2 A A G7 BIRD Cocceptus Moderation Processed Mark ASPRANDO C S A	Apache	AMPHIBIAN	Bufo microscaphus	Arizona Toad	AAABB01110	SC		s				G3G4	S3S4
AMPHIBIANA Rama piptotes Northern Loopand Frong AAAABH01250 SC S PR WSC G1 BIRD Acception genuities Northern Goodwark ARABH01250 SC S 4 A WSC G1 BIRD Acception genuities Newtern Burrowing Own ARBNB10210 SC S 4 A WSC G1 BIRD Charbarus (increasers) Vestry Burrowing Own ARBNB10210 SC S 4 A WSC G1 BIRD Cardaturus (increasers) Vestry Burrowing Own ARBNB10210 SC S 4 A WSC G174 BIRD Cardaturus (increasers) Vestry Clarified ABNB10210 LE S 2 WSC G5 G774 G774 BIRD Doile-down varyancers Gray Carleind ABNRSC00101 LLDNS S 2 WSC G5 G774 G774 BIRD Gray Carleind ABNRSC01001 LLDNS S 2 WSC <td>Apache</td> <td>AMPHIBIAN</td> <td>Rana chiricahuensis</td> <td>Chiricahua Leopard Frog</td> <td>AAABH01080</td> <td>LT</td> <td></td> <td>S</td> <td></td> <td><</td> <td>WSC</td> <td>G3</td> <td>S2</td>	Apache	AMPHIBIAN	Rana chiricahuensis	Chiricahua Leopard Frog	AAABH01080	LT		S		<	WSC	G3	S2
MAPPIBIRAN Acceptance garmlis Lowland Loopand Fronge AAABHOITS6 SC S 4 A WSC GGT BIRD Acceptance garmlis Northern Godbawk AIBNBC12060 SC S 4 A WSC GGT BIRD Chardrain storescents Mountain Prover ARBNB01001 SC S 4 A WSC GGT BIRD Chardrain storescents Mountain Prover ARBNB01001 C S 4 A WSC GGT BIRD Chardrain storescents Boolein Willow Provestion Program Program Program Program ABNB01000 C S 4 A WSC GGT BIRD Double-loop xo voyavvvva Boolein Soyav Oyavvva RABNB01000 L S 2 A WSC GGT BIRD Double-loop xo voyavvva Gordine-store Program Program Program Program Program ABNB01000 L C S A A WSC GGT BIRD Tallor Oyavva ABNB01000 AMBNB01000 L A	Apache	AMPHIBIAN	Rana pipiens	Northern Leopard Frog	AAABH01170			S	2		WSC	65	S2
BIRD Ancipter gentilis Worthern Goalbank ABNRICI2060 SC S 4 A WSC G5 BIRD Affairer cunicularia hypugasa Western Burrowing Owl ABNSB10012 SC S 4 A WSC G54 BIRD Contant intersecens Veery ARNNB13100 SC S 4 A WSC G54 BIRD Conceptual municulas mondanians Mountain Power ARNNB13100 S 2 A WSC G51 BIRD Damentella carollinearia Amortian Pregiment Talli extimate ABNB120002 C S 2 WSC G51 BIRD Damentella carollinearia Amortian Pregime Palcon ABNB120001 LT.DPS S 2 WSC G51 BIRD Haliacetus feurocephalics Amortian Pregime Palcon ABNB120001 LT.DPS S 2 WSC G51 BIRD Haliacetus feurocephalics Amortian Pregime Palcon ABNB12001 LT.DPS S 4 A WSC <td>Apache</td> <td>AMPHIBIAN</td> <td>Rana yavapaiensis</td> <td>Lowland Leopard Frog</td> <td>AAABH01250</td> <td>SC</td> <td></td> <td>S</td> <td></td> <td>PR</td> <td>WSC</td> <td>G4</td> <td>83</td>	Apache	AMPHIBIAN	Rana yavapaiensis	Lowland Leopard Frog	AAABH01250	SC		S		PR	WSC	G4	83
BIRD Cardiarus funcescente Vecy ABPB118090 SC S 4 A GGT4 BIRD Cardiarus funcescents Vecy ABPB118090 SC S 4 WSC GG BIRD Cocycyza surriceman coccidentalis Western Yellow-billed Cackoo ARNBB03100 S 2 WSC GGT3Q BIRD Damedila cavoricematis Soval vaccidentalis Western Yellow-billed Cackoo ARNBB03100 S 2 WSC GGT3Q BIRD Damedila cavoricematis Sovalthreatent Yellow-billed Cackoo ARNBA0001 LTDPS S 2 WSC GGT4T17 BIRD Introjectory tatality cating Annexisan Pergine Falon ARNBA0001 LTDPS S 4 NSC GGT4 BIRD Haliacetus feucocephalus Bald Eagle ARNBACHORIO LTDPS S 4 NSC GGT4 BIRD Haliacetus feucocephalus Bald Eagle ARNBACHORIO ARNBACHORIO ARNBACHORIO S 4 NSC GGT4 BIRD Halia	Apache	BIRD	Accipiter gentilis	Northern Goshawk	ABNKC12060	SC		S	4	٧	WSC	GS	S3
BIRD Charactrius moreaums Mountain Plover ABNB 18080 S 4 WSC 65 BIRD Cocycras americanus occidentalis Western Yellow-billed Cucleo ABNB 803100 SC S 4 WSC 65730 BIRD Doileboyy corycriverus Bobolink ABPR MS 10010 T S 2 WSC 65730 BIRD Doileboyy corycriverus Bobolink ABPR MS 10010 T S 2 WSC 657172 BIRD Domestella carolinensis Gray Catherd ABPR MS 10010 T,DPS S 4 WSC 657171 BIRD Flaineetas leucocephalis Bald Engle ABNKC10010 T,DPS S 4 WSC 657171 BIRD Halineetas leucocephalis Bald Engle ABNKC10010 T,DPS S 4 WSC 657171 BIRD Practican Perceptants ABPR MS 10010 T ABPR MS 10010 T 4 WSC 65717 BIRD Prea hudsonta Bald Engle ABPR MS 100	Apache	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	٧		G4T4	S3
BIRD Charachiras moontanus Mountain Plover ABNNB03100 SC S 4 Q2 BIRD Cocypras americanus occidentalis Western Yellow-billed Cackoo ABNRB02022 C S 2 WSC G5T3Q BIRD Dolichonyx oryzivorus Bebolink ABPBK01010 ARPRK01010 R S 4 WSC G5T172 BIRD Falco pergrinus analum American Peregime Falcon ABNK10001 LTDPS S 4 A WSC G5T172 BIRD Haliacetus feucocephalus Bald Eagle ABNK100101 LTDPS S 4 A WSC G5T172 BIRD Haliacetus feucocephalus Bald Eagle ABNK10101 LTDPS S 4 WSC G5T47 BIRD Haliacetus feucocephalus Bald Eagle ABNK10101 R A WSC G5T47 BIRD Haliacetus feucocephalus Bald Eagle ABNK10101 R A WSC G5T41 BIRD Protectus feucocephalus Bald E	Apache	BIRD	Catharus fuscescens	Veery	ABPBJ18080						WSC	GS	SI
BIRD Doublehouty oryziverus Bobolink ABPRXA9010 T. P.	Apache	BIRD	Charadrius montanus	Mountain Plover	ABNNB03100	SC	S	S	4			G2	S1B,S2N
BIRD Dumedella carolineansis Gray Caldrad ABPBRAAA9010 LE S 2 WSC G5 BIRD Empidomax traillili extimus Southwestern Willow Piyanether ABPABA01010 LT S 2 WSC G5T1122 BIRD Falco peregrimus annatura American Peregrine Falcon ABNAC10010 LT S 4 A WSC G5T1122 BIRD Haliacetus leucocephalus Bald Engle ABNAC10010 LT S 4 A WSC G5T1122 BIRD Haliacetus leucocephalus Bald Engle ABNAC10010 LT S 4 A WSC G5T1122 BIRD Haliacetus leucocephalus Bald Engle ABNAC10010 LT S 4 A WSC G5 BIRD Perid Magone ABRAC10010 ABNAC10010 ABNAC10010 A A WSC G5 BIRD Pincidola enucleator Pinc Grosbeak ABNAC10010 A A WSC G5 BIRD<	Apache	BIRD	Coccyzus americanus occidental	is Western Yellow-billed Cuckoo	ABNRB02022	C		S	2		WSC	GST3Q	S3
BIRD Falce perceptines anatum American Perceptine Role ABNKC10010 LL S 2 WSC GFT1T2 BIRD Falce perceptinas anatum American Perceptine Falcon ABNKC10010 LT,DPS S 4 AN WSC GFT1T2 BIRD Haliacetus leucocephalius Bald Eagle ABNKC10010 LT,DPS S 4 AN WSC GFT1T2 BIRD Haliacetus leucocephalius Balted Kingfisher ABNKC10010 LT,DPS S 4 AN WSC GF BIRD Haliacetus leucocephalius Balted Kingfisher ABNKC10101 LT,DPS S 4 AN WSC GF BIRD Pendron haliactus Osprey ABNKC10101 LT,DPS S 4 ANSC GF BIRD Pendron haliactus Discharbilled Magnie ABNKC10101 LT,DPS S 3 A WSC G5 BIRD Pendron haliactus American Redsart ABPRAVOS010 LT S 3 A <td>Apache</td> <td>BIRD</td> <td>Dolichonyx oryzivorus</td> <td>Bobolink</td> <td>ABPBXA9010</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>WSC</td> <td>GS</td> <td>SI</td>	Apache	BIRD	Dolichonyx oryzivorus	Bobolink	ABPBXA9010						WSC	GS	SI
BIRD Empidomax traillii extinuas Southwestern Willow Plycatcher ABPAB23043 LE S 2 WSC G4T14 BIRD Falco peregrinus anatum American Peregrine Falcon ABNKC1001 LT.DPS S 4 A WSC G4T44 BIRD Haliacetus leucocephalus Bald Eggle ABNKC1001 LT.DPS S 4 A WSC G5 BIRD Haliacetus leucocephalus Bald Eggle ABNKC1001 LT.DPS S 4 WSC G5 BIRD Megacceyle alcyon Bald Eggle ABNKC10010 LT.DPS S 4 WSC G5 BIRD Penden haliacetus Baled Kingfisher ABNKC10010 LT.DPS S A WSC G5 BIRD Penden haliacetus Baled Kingfisher ABPRAV09010 LT. S A WSC G5 BIRD Strophaga ruticilla Mexican Spotted Owner ABNSMORD LT. S A WSC G5 FISH C	Apache	BIRD	Dumetella carolinensis	Gray Catbird	ABPBK01010						WSC	GS	SI
BIRD Falco peregrinus anatum American Peregrine Falcon ABNKD06071 SC 4 A WSC G4T4 BIRD Haliaeetus leucocephalus Bald Eagle ABNKC10012 SC S P WSC G5 BIRD Haliaeetus leucocephalus Baled Kingfisher ABNKC10012 SC S P WSC G5 BIRD Megaccyle alcyon Belted Kingfisher ABNKC10101 ABNKC10101 A P WSC G5 BIRD Pandron haliaetus Osprey ABNKC10101 ABNKC10101 ABNKC10101 ABNKC1010 ABNKC1010 <td>Apache</td> <td>BIRD</td> <td>Empidonax traillii extimus</td> <td>Southwestern Willow Flycatcher</td> <td>ABPAE33043</td> <td>TE</td> <td></td> <td>S</td> <td>2</td> <td></td> <td>WSC</td> <td>G5T1T2</td> <td>S1</td>	Apache	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	TE		S	2		WSC	G5T1T2	S1
BIRD Haliaeetus leucocephalus Bald Eagle ABNKC10010 LT.DPS S P WSC G5 BIRD Haliaeetus leucocephalus Bald Eagle ABNKC10012 SC S P WSC G5 BIRD Pandion haliaetus Osprey ABNKC10101 ABNKC1010101 ABNKC10101 ABNKC10101 ABNK	Apache	BIRD	Falco peregrinus anatum	American Peregrine Falcon	ABNKD06071	SC		S	4	٧	WSC	G4T4	S4
BIRD Haliacetus leucocephalus Bald Eagle ABNKC10012 SC S P WSC G5 BIRD Pandion haliactus Osprey ABNKC01010	Apache	BIRD	Haliaeetus leucocephalus	Bald Eagle	ABNKC10010	LT,DPS		S		Ь	WSC	GS	S2S3B,S4N
BIRD Name and part of the color of the colo	Apache	BIRD	Haliaeetus leucocephalus	Bald Eagle	ABNKC10012	SC		S		Д	WSC	G5	S4N
BIRD Pandion baliactus Osprey ABNKC01010 BIRD Pice hudsonia Black-billed Magpie ABPAV09010 X8C G5 BIRD Pinicola enucleator Pine Grosbeak ABPBV03010 X X X8C G5 BIRD Setophaga ruticilla American Redstart ABPBX06010 X X X X8C G5 G4 T1 G3 G4 G	Apache	BIRD	Megaceryle alcyon	Belted Kingfisher	ABNXD01020				4		WSC	GS	S2B,S5N
BIRD Pinc hudsonia Black-billed Magpie ABPAV09010 ABPAV09010 MSC G5 BIRD Strio ceidentalis lucida American Redstart ABPBX03010 LT S 3 A WSC G3T3 BIRD Strix occidentalis lucida Mexican Spotted Owl ABNSB12012 LT S 3 A WSC G3T3 FISH Catostomus clarki Desert Sucker AFCJC02040 SC S 4 WSC G4T1 FISH Catostomus discobolus yarrowi Zuni Bluehead (Mountain) Sucker AFCJC02100 SC S 4 WSC G4T1 FISH Catostomus sinsinis Sonora Sucker AFCJC02100 SC S PR WSC G7 FISH Catostomus sp. 3 Little Colorado Sucker AFCJC02100 SC S PR WSC G7 FISH Catostomus sp. 3 Little Colorado Spinedace AFCJC02130 SC S PR WSC G7 FISH Lepidomeda vittata	Apache	BIRD	Pandion haliaetus	Osprey	ABNKC01010						WSC	G5	S2B,S4N
BIRD Princola enucleator Pine Grosbeak ABPBY03010 MSC G5 BIRD Setophaga ruticilla American Redstart ABPBX06010 LT S 3 A WSC G3T3 BIRD Strix occidentalis lucida Mexican Spotted Owl ABNSB12012 LT S 3 A WSC G3T3 FISH Catostomus clarki Desert Sucker AFCJC020707 C S 4 WSC G4T1 FISH Catostomus sisgnis Sonora Sucker AFCJC02106 SC S P R G3 FISH Catostomus sp. 3 Little Colorado Sucker AFCJB13150 SC S P R G2 FISH Gila robusta Roundtail Chub AFCJB13150 SC S P R WSC G3 FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 L S PR R G3	Apache	BIRD	Pica hudsonia	Black-billed Magpie	ABPAV09010						WSC	GS	S3
BIRD Sctophaga ruticilla American Redstart ABPBX06010 LT S 3 A WSC G5 BIRD Strix occidentalis lucida Mexican Spotted Owl ABNSB12012 LT S 3 A WSC G3T3 FISH Catostomus clarki Desert Sucker AFCJC02070 C S 4 WSC G4T1 FISH Catostomus sinsignis Sonora Sucker AFCJC02100 SC S 4 WSC G3 FISH Catostomus sp. 3 Little Colorado Sucker AFCJB13150 SC S p. WSC G2 FISH Gila robusta Roundtail Chub AFCJB13150 SC S p. WSC G3 FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 LT S p. PR WSC G3	Apache	BIRD	Pinicola enucleator	Pine Grosbeak	ABPBY03010						WSC	GS	SI
BIRDStrix occidentalis lucidaMexican Spotted OwlABNSB12012LTS3AWSCG3T3FISHCatostomus clarkiDesert SuckerAFCIC02040SCS4WSCG4T1FISHCatostomus discobolus yarrowiZuni Bluehead (Mountain) SuckerAFCIC02100SCS4WSCG4T1FISHCatostomus sp. 3Little Colorado SuckerAFCIC02250SCSpWSCG2FISHGila robustaRoundtail ChubAFCIB13150SCSpWSCG3FISHLepidomeda vitataLittle Colorado SpinedaceAFCIB20040LTSpWSCG1G2	Apache	BIRD	Setophaga ruticilla	American Redstart	ABPBX06010						WSC	GS	S1
FISH Catostomus clarki Desert Sucker AFCJC02040 SC S A WSC G4T1 FISH Catostomus insignis Sonora Sucker AFCJC02100 SC S A WSC G4T1 FISH Catostomus sp 3 Little Colorado Sucker AFCJC02250 SC S PR WSC G3 FISH Child robusta Roundtail Chub AFCJB13150 SC S PR WSC G3 FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 LT S WSC G1G2	Apache	BIRD	Strix occidentalis lucida	Mexican Spotted Owl	ABNSB12012	LT		S	3	V	WSC	G3T3	S3S4
FISH Catostomus discobolus yarrowi Zuni Bluehead (Mountain) Sucker AFCJC02071 C S A 4 WSC G4T1 FISH Catostomus sp. 3 Little Colorado Sucker AFCJC02250 SC S A WSC G2 FISH Chidomeda vitata Little Colorado Spinedace AFCJB20040 LT S WSC G1G2	Apache	FISH	Catostomus clarki	Desert Sucker	AFCJC02040	SC	S				1	G3G4	S3S4
FISH Catostomus insignis Sonora Sucker AFCJC02100 SC S P G3 FISH Catostomus sp. 3 Little Colorado Sucker AFCJB13150 SC S 2 PR WSC G2 FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 LT S 2 PR WSC G1G2	Apache	FISH	Catostomus discobolus yarrowi	Zuni Bluehead (Mountain) Sucker	AFCJC02071	C		S	4		WSC	G4T1	S1
FISH Catostomus sp. 3 Little Colorado Sucker AFCJC02250 SC S WSC G2 FISH Gila robusta Roundtail Chub AFCJB13150 SC S 2 PR WSC G3 FISH Little Colorado Spinedace AFCJB20040 LT S 2 PR WSC G1G2	Apache	FISH	Catostomus insignis	Sonora Sucker	AFCJC02100	SC	S			Ь		63	S3
FISH Gila robusta Roundtail Chub AFCJB13150 SC S 2 PR WSC G3 FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 LT S WSC G1G2	Apache	FISH	Catostomus sp. 3	Little Colorado Sucker	AFCJC02250	SC		S			WSC	G2	\$2
FISH Lepidomeda vittata Little Colorado Spinedace AFCJB20040 LT S WSC G1G2	Apache	FISH	Gila robusta	Roundtail Chub	AFCJB13150	SC		S	2	PR	WSC	63	S2
	Apache	FISH	Lepidomeda vittata	Little Colorado Spinedace	AFCJB20040	LT		s		A property and	WSC	G1G2	S1S2

ïa	REPTILE	Xantusia arizonae	Arizona Night Lizard	ARACK01050			0				63	8.1
							0				,	10
	BIRD	Ardea alba	Great Egret	ABNGA04040						WSC	GS	S1B,S4N
	BIRD	Athene cunicularia hypugaea	Western Burrowing Owl	ABNSB10012	SC	S		4	A		G4T4	S3
	BIRD	Coccyzus americanus occidentalis Western Yellow-bil	Western Yellow-billed Cuckoo	ABNRB02022	C		S	2		WSC	G5T3Q	S3
	BIRD	Egretta thula	Snowy Egret	ABNGA06030						WSC	GS	S1B,S4N
Yuma	BIRD	Empidonax traillii extimus	Southwestern Willow Flycatcher	ABPAE33043	LE		S	2		WSC	G5T1T2	SI
Yuma	BIRD	Glaucidium brasilianum cactorum Cactus Ferruginous	Cactus Ferruginous Pygmy-owl	ABNSB08041	SC				A	WSC	G5T3	SI
Yuma	BIRD	Haliaeetus leucocephalus	Bald Eagle	ABNKC10012	SC		S		Ы	WSC	GS	S4N
Yuma	BIRD	Ixobrychus exilis	Least Bittern	ABNGA02010					٧	WSC	GS	83
Yuma	BIRD	Lanius Iudovicianus	Loggerhead Shrike	ABPBR01030	SC						64	84
Yuma	BIRD	Laterallus jamaicensis coturniculus California Black Rail	s California Black Rail	ABNME03041	SC		S		PR	WSC	G4T1	S1
Yuma	BIRD	Rallus longirostris yumanensis	Yuma Clapper Rail	ABNME0501A	LE				Ь	WSC	G5T3	83
Yuma	FISH	Xyrauchen texanus	Razorback Sucker	AFCJC11010	TE		S	2	Ь	WSC	GI	S1
Yuma	MAMMAL	Antilocapra americana sonoriensis Sonoran Pronghorn	Sonoran Pronghorn	AMALD01012	LE		S		Ь	WSC	GST1	S1
Yuma	MAMMAL	Corynorhinus townsendii	Pale Townsend's Big-eared Bat	AMACC08014	SC			4			G4T4	S3S4
Yuma	MAMMAL	Euderma maculatum	Spotted Bat	AMACC07010	SC				PR	WSC	G4	\$182
Yuma	MAMMAL	Eumops perotis californicus	Greater Western Bonneted Bat	AMACD02011	SC						G5T4	83
Yuma	MAMMAL	Lasiurus xanthinus	Western Yellow Bat	AMACC05070						WSC	GS	S2S3
	MAMMAL	Leptonycteris curasoae verbabuenae	Lesser Long-nosed Bat	AMACB03030	LE		S		_	WSC	G4	S2S3
Yuma	MAMMAL	Macrotus californicus	California Leaf-nosed Bat	AMACB01010	SC					WSC	G4	S3
Yuma	MAMMAL	Myotis yumanensis	Yuma Myotis	AMACC01020	SC						GS	8384
Yuma	MAMMAL	Nyctinomops femorosaccus	Pocketed Free-tailed Bat	AMACD04010		S					G4	83
Yuma	MAMMAL	Sigmodon hispidus eremicus	Yuma Hispid Cotton Rat	AMAFF07013	SC						G5T2T3	S2
Yuma	PLANT	Allium parishii	Parish Onion	PMLIL021N0		S				SR	83	S1
Yuma	PLANT	Berberis harrisoniana	Kofa Barberry	PDBER02030		S					G1G2	S1S2
Yuma	PLANT	Cryptantha ganderi	Gander's Cryptantha	PDBOR0A120	SC						G1G2	SI
	PLANT	Echinocactus polycephalus var. polycephalus	Clustered Barrel Cactus	PDCAC05033						SR	G3G4T3T4	S2
Yuma	PLANT	Euphorbia platysperma	Dune Spurge	PDEUP0D1X0	SC						G3	SI
Yuma	PLANT	Ferocactus cylindraceus var. cylindraceus	California Barrel Cactus	PDCAC08081					PR	SR	G5T4	83

PLANT Helianthus niveus ssp. tephnodes Dune Sunflower PDAST4N022 SC PLANT Lophocereus schottii Senita PDCACI4010 SR PLANT Opuntia echinocarpa Straw-top Cholla PDCACI4010 S SR PLANT Pholisma sonorae Sand Food PDLAND S S RR PLANT Rhus kearney: Kearney Sumac PDANA08050 S S SR PLANT Rhus kearney: Kearney Sumac PDANA180000 S SR SR PLANT Tritleleopsis palmeri Blue Sand Lily PMAL122010 S S SR PLANT Washingtonia filifera California Fan Palm PMARE0G010 S S SR REPTILE Gopherus agassizii (Sonoran Sonoran Desert Rosy Boa ARACF10013 SC S A WSC REPTILE Population) Flactailed Homed Lizard ARACF12040 SC S A WSC REPTILE Population) Flactailed Homed Lizard	COUNTY	TAXON	SCIENTIFIC NAME	COMMON NAME	ELCODE	ESA	BLM	USFS	NESL	MEXFED STATE	STATE	GRANK S RANK	SRANK
PLANT Lophocereus schottii Senita PDCACI4010 I SR G4 PLANT Opuntia echinocarpa Straw-top Cholla PDCAC0D2W0 S S G2 PLANT Pholisma sonorae Sand Food PDLNN02020 SC S RR G2 PLANT Rhus keameyi Kearney Sumac PDANA08050 S S SR G4 PLANT Stephanomeria schottii Schott Wire Lettuce PDANATROUGH S SR G4 PLANT Triteleiopsis palmeri Blue Sand Lily PMLIL22010 S S SR G4 PLANT Washingtonia filifera California Fan Palm PMARE0G010 S S S G4 REPTILE Gopherus agassizii (Sonoran Sonoran Desert Rosy Boa ARACF10013 SC S A WSC G4174 REPTILE Population) Flet-tailed Horned Lizard ARACF12040 SC S A WSC G3144 REPTILE Population) Yanna	Yuma	PLANT	Helianthus niveus ssp. tephrodes	Dune Sunflower	PDAST4N0Z2	SC						G4T2	82
PLANT Opuntia echinocarpa Straw-top Cholla PDCAC0D2W0 SC S G5 PLANT Pholisma sonorae Sand Food PDLNN02020 SC S HS G2 PLANT Ribus kearney in Schott Wire Lettuce PDANA08050 S S G4 PLANT Stephanomeria schottii Schott Wire Lettuce PDAST8U0D0 S S G2 PLANT Triteleiopsis palmeri Blue Sand Lily PMALIL22010 S S SR G3 PLANT Washingtonia filifera California Fan Palm PMAREGG010 S S SR G4 REPTILLE Charina trivingata gracia Desert Rosy Boa ARADA01021 SC S S A WSC G4T4 REPTILLE Population) Platailed Horned Lizard ARACF12040 SC S A WSC G3 REPTILLE Phyrnosoma mcallii Flat-tailed Horned Lizard ARACF12040 SC S A WSC G3 REPTILLE	r'uma	PLANT	Lophocereus schottii	Senita	PDCAC14010					_	SR	G4	82
PLANT Pholisma sonorae Sand Food PDLNN02020 SC S HS G2 PLANT Rhus kearneyi Kearney Sumae PDANA08050 S S G4 PLANT Stephanomeria schottii Schott Wire Lettuce PDASTRUDDO S S G2 PLANT Triteleiopsis palmeri Blue Sand Lily PML1L22010 S S SR G4 PLANT Triteleiopsis palmeri Blue Sand Lily PML1L22010 S S SR G4 PLANT Washingtonia filifera California Fan Palm PMAREOGO10 S S SR G4 REPTILE Charina trivitgata gracia Desert Rosy Boa ARAAF01013 SC S A WSC G4T4 REPTILE Phopulation Banded Gila Monster ARACF12040 SC S A WSC G4T4 REPTILE Phymosoma meallii Flat-tailed Horned Lizard ARACF12040 SC A WSC G3 REPTILE Phymosoma mea	/uma	PLANT	Opuntia echinocarpa	Straw-top Cholla	PDCAC0D2W0						SR	GS	SS
PLANT Rhus kearneyi Kearney Sumac PDANA08050 S SR G4 PLANT Stephanomeria schottii Schott Wire Lettuce PDASTRUDDO S G2 PLANT Triteleiopsis palmeri Blue Sand Lily PMALIL22010 S S G3 PLANT Washingtonia filifera California Fan Palm PMAREGG010 SC S S G4 REPTILE Charina trivitgala gracia Desert Rosy Boa ARAAF01013 SC S S G4T4 REPTILE Gopherus agassizii (Sonoran Sonoran Desert Tortoise ARAAF01013 SC S A WSC G4T4 REPTILE Heloderma suspectum cinctum Banded Gila Monster ARACF12040 SC S A WSC G4T4 REPTILE Phynosoma meallii Flat-tailed Horned Lizard ARACF12040 SC S A WSC G3 REPTILE Sauromalus ster (Arizona Arizona Chuckwalla ARACF12040 SC S A WSC G3	uma	PLANT	Pholisma sonorae	Sand Food	PDLNN02020	SC	S				HS	G2	SI
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Appendix B: Cultural Resources Inventory



In reply, please refer to: SHPO-2003-1027

Deanna J. Miller, Director Resources Management Office Bureau of Reclamation Lower Colorado Regional Office P.O. Box 61470 Boulder City, NV 89006-1470

USBR/Eligibility Determinations of Historic Ditchriders' Houses, Yuma RE:

Dear Ms. Miller:

Thank you for submitting documentation on the above referenced undertaking. I have reviewed the material pursuant to 36 CFR Part 800 and have the following

1. I concur with the recommendations that the property at 185 N. 5th Avenue, Yuma, is eligible for listing in the National Register, and that it should be preserved as part of the planned Yuma Crossing National Heritage Center. I also concur that the property at 165 N. 5th Avenue, Yuma, is not eligible due to lack of integrity.

If you have any further questions or requests, you may contact me at (602) 542-7159, or by e-mail at wcollins@pr.state.az.us.

Sincerely,

William S. Collins William S. Collins, Ph.D.

Deputy State Historic Preservation Officer

State Historic Preservation Office

Janet Napolitano Governor

State Parks **Board Members**

Chair Suzanne Pfister Phoenix

Gabriel Beechum Casa Grande

John U. Hays Yarnell

Elizabeth Stewart Tempe

William C. Porter Kingman

Walter D. Armer, Jr. Benson

> Mark Winkleman State Land Commissioner

Kenneth E. Travous **Executive Director**

Arizona State Parks 1300 W. Washington Phoenix, AZ 85007

Tel & TTY: 602.542.4174 www.azstateparks.com

800.285.3703 from (520 & 928) area codes

> General Fax: 602.542.4180

Director's Office Fax: 602.542.4188



IN REPLY REFER TO

LC-2632 ENV-3.00

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BUREAU OF RECLAMATION Lower Colorado Regional Office P.O. Box 61470 Boulder City, NV 89006-1470

MAY 0 7 2003

CERTIFIED-RETURN RECEIPT REQUESTED

Mr. James Garrison Arizona State Parks State Historic Preservation Office 1300 West Washington Phoenix, AZ 85007

Subject: Eligibility Determinations of Historic Ditchriders' House -Yuma, Arizona

Dear Mr. Garrison,

Enclosed is a report entitled "National Register Evaluations of Two Ditchriders' Houses (AZ X:6:45) At Reclamation's Yuma Project Headquarters, Yuma, Arizona." Also enclosed is information on the proposed Yuma Crossing National Heritage Center, including the Arizona Welcome Center, which will directly impact the ditchriders' houses. As discussed therein, the two houses are associated with the residential component of the former Yuma Irrigation Project (YIP) Headquarters at Yuma Crossing.

Reclamation is seeking concurrence on the eligibility of one of the two residences, considered to be a contributing element of Reclamation's YIP Headquarters District. If you have any questions or concerns, please contact archaeologist Ms. Renee Kolvet at 702-293-8443 or by email at rkolvet@lc.usbr.gov. Thank you in advance for your review.

Sincerely,

Deanna J. Miller, Director Resources Management Office

Enclosures - 2

cc: YAO-7100 (Rick Strahan) D-5300 (Chris Pfaff)

National Register Evaluations of Two Ditchriders' Houses (AZ X:6:45) At Reclamation's Yuma Project Headquarters, Yuma, Arizona

Report LC-03-06

Prepared by Renee Corona Kolvet Bureau of Reclamation, Lower Colorado Regional Office Boulder City, Nevada

May 1, 2003

National Register Evaluation of Two Ditchriders' Houses (AZ:X:6:45) Reclamation's Yuma Project Headquarters Yuma, Arizona

Introduction

The Yuma Area Office of the Bureau of Reclamation (Reclamation) Lower Colorado Region has plans to transfer a parcel of land to the City of Yuma to be developed into an "Arizona Welcome Center." The parcel of land in T. 16S, R. 22E, Section 35 is designated as Lot 1, Assessor's Parcel Number 110-78-063, and is located on the north and south sides of the East Main Canal (Figures 1 and 2). The two ditchriders' houses that remain on the property must be moved or demolished in order to make room for future construction.

The "project area" is a parcel of Reclamation land that was once part of the Yuma Irrigation Project (YIP) Headquarters (Site AZ X:6:12). With the exception of Lot 1, which remains in federal ownership, the former headquarters has been subsumed by the Yuma Crossing National Historic Landmark and is listed in the National Register of Historic Places (NRHP) based on its early military history (period of significance, 1800-1899). Reclamation's history at this site was not taken into consideration at the time.

In April, 2003, the YIP, its individually eligible districts, features, and contributing elements in Arizona, was determined to be eligible for the NRHP by the Arizona State Historic Preservation Office (SHPO). Reclamation's YIP Headquarters is one of the eligible districts. Certain buildings and features, such as the ditchriders'houses, were left unevaluated during the original Historic Yuma Irrigation Project inventory in 1992 (Pfaff et al. 1999). As a result of the impending land transfer, the houses were re-recorded in February of 2003, and various archival sources were consulted in efforts to determine their condition and age. As a result, Reclamation recommends that the house at 185 North Fifth Avenue be viewed as a contributing element of the eligible YIP Headquarters District. Conversely, the house at 165 North Fifth Avenue is not considered to be a

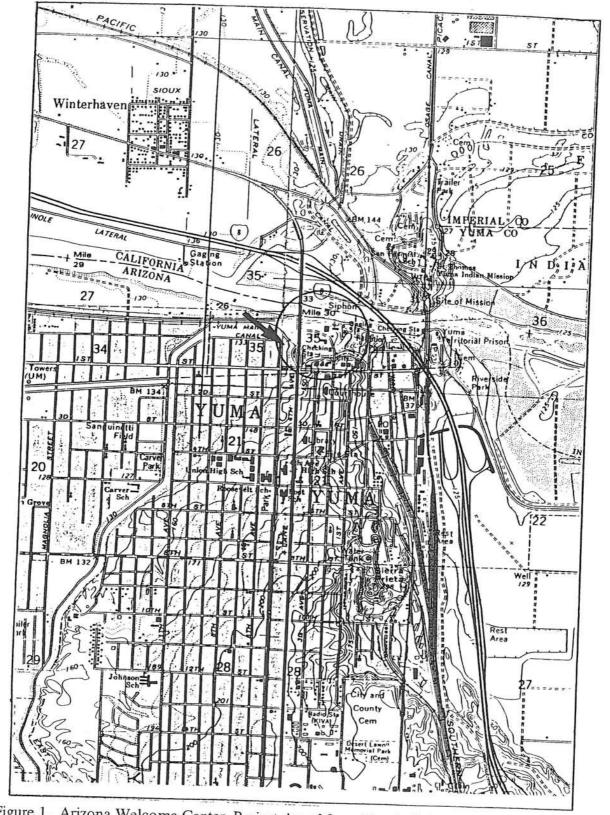
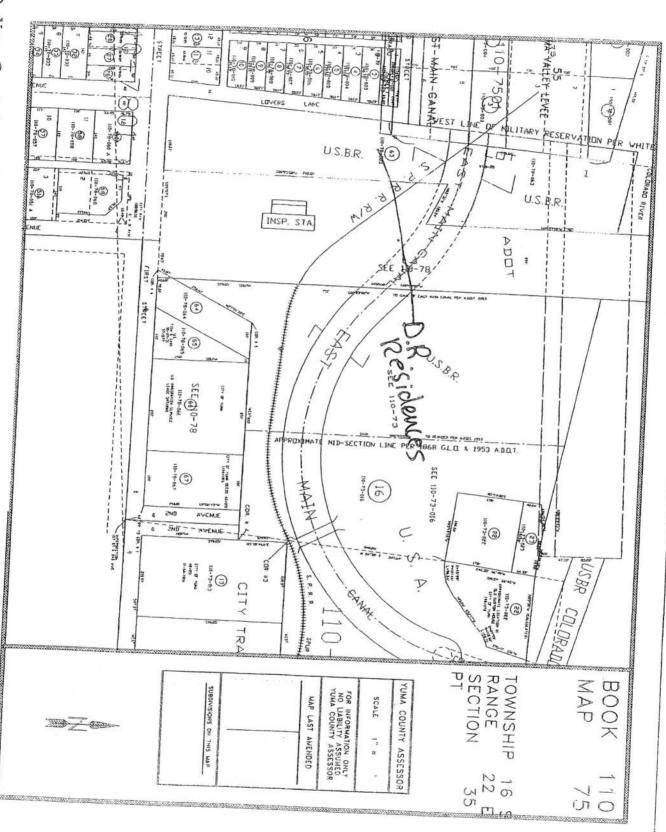


Figure 1. Arizona Welcome Center, Project Area Map. The circled area is the former location of the Quartermaster's Depot and Reclamation's Yuma Irrigation Project (YIP) Headquarters.



contributing element based on its delapidated condition, excessive alterations, and strong implications that it was moved to the YIP property from another location.

The following brief historic background on the Yuma Crossing is provided as a context for the evaluation of the ditchriders' houses as contributing elements of the YIP:

Historic Background

The Early Military Presence at Yuma Crossing

United States military forces and Colorado River steamboat operators were among the first Euro-American occupants of the Yuma Crossing area. The discovery of gold in California in 1848 and the substantial increase in westward bound travelers fueled the creation of Camp Yuma (on the California side of the Colorado River) in the 1850s. In Arizona, the Yuma Quartermaster Depot was established in 1864 since the east side of the river provided ample space for storage of supplies and a better docking area for boats (Pfaff 1995:5). In 1866, two storehouses were built at the new Depot. From this location, depot goods delivered to various interior locations were transported by mule trains or by steamboat.

Following the Civil War, steamboat transportation allowed the military to expand throughout the Southwest and explore the upper reaches of the Colorado River. Fourteen camps or forts were supplied by the Depot (Swanson and Altschul 1991:55). The years between the Civil war and the coming of the railroad in 1877 are considered the peak years for both the steamboat business and military presence in the Yuma area (Swanson and Altschul 1991:34).

The Depot, constructed mainly of adobe brick, consisted of the following structures as of 1877 (Crow and Brinkerhoff 1976:20; Doyle et al. 1988:67):

- The old Johnson House that later became the commanding officer's quarters (COQ); *
- Officers' Kitchen *
- Storehouse (1865) *
- Office *
- Engine house
- Reservoir *
- Shops
- · Teamsters' quarters
- Guard house
- Granary *
- Wagon shed
- * Extant Quartermaster Depot structures that contribute to the significance of the landmark and are included in NRHP nomination (1978).

The thriving riverboat industry and military operations at Yuma Crossing began to decline after the coming of the Southern Pacific Railroad. With the exception of the Weather Bureau, that moved into the Depot office in 1891, and the United States Customs Reserve, that moved into the COQ in 1902, the Quartermasters Depot at Yuma Crossing was deserted after the military forces left. The Quartermasters Depot was formally abandoned in 1883, and the land was transferred to the United States Department of the Interior.

Reclamation Service at Yuma Crossing

The Reclamation Act, signed into law by President Theodore Roosevelt in 1902, authorized the Department of Interior to locate and construct irrigation works in sixteen of the seventeen western states and territories (Texas was included later on). The primary goal of the Reclamation Act was to conserve water and settle the desert west. In July of 1903, the United States Reclamation Service was established to administer the Act. The Reclamation Service immediately began the active investigation and construction of

irrigation systems around the West. Within a few years, twenty-five irrigation projects were authorized---the Yuma Irrigation Project (YIP) being one of the earliest ones authorized in 1904 (Linenberger 2002:21-23). The original project consisted of a diversion dam (Laguna Dam), 10 primary canals, 218 miles of lateral canals, a power plant, two pumping plants and a 930-foot long siphon across the Colorado River, and provided water to 130,000 acres of farm land (Pfaff et al. 1999). In addition to irrigating the Yuma Valley, water was delivered to the Reservation District and the Gila River Valley. By the 1930s, it was apparent that the Laguna Dam could not supply both Yuma and Imperial Counties. Imperial Dam, built in 1938, replaced the Laguna Dam, and the All-American Canal, completed in 1940, brought additional water to the Valley Division of the Yuma Project (Pfaff et al. 1999).

To plan and administer the YIP, President Roosevelt transferred the deserted Fort Yuma Military Reservation property (excluding buildings used by the Customs Service and Weather Bureau) to the Reclamation Service in 1903. For nearly 50 years (1902 to the late-1940s), the Reclamation Service (later renamed Bureau or Reclamation) developed and operated the Yuma Project from the headquarters complex, transforming the Yuma area into the prosperous agricultural center that it is today.

Reclamation's Yuma Project Headquarters reused many of the deserted Quartermaster Depot buildings and structures. To be more functional, Reclamation changed the appearance and/or refurbished many of the structures including the old storehouse (Pfaff 1995:8). Reclamation set up tent houses for the YIP employees and the YCWUA purportedly occupied the corral house and barracks (Pfaff 1995:77). Reclamation built new ancillary structures including sheds, garages, and storage buildings on the property. The adjacent East (Yuma) Main Canal, the Second Avenue Bridge, and the siphon outlet were constructed during the Reclamation's early years at the Depot.

Post Reclamation Years

Once the major construction activities in the irrigation project were completed, Reclamation turned over the operation and maintenance of the YIP to the YCWUA in 1951 (Ryden 1994:43). The YCWUA took over the grounds, made minor modifications to the buildings, and remained until 1984 when they moved to a new facility. Several buildings at Yuma Crossing have changed hands during the post-Reclamation years. In 1956, the City of Yuma purchased the Commanding Officer's Quarters from the U.S. Customs Service, and in 1981, ownership of selected buildings north of the East (Yuma) Main Canal, was transferred to the Arizona State Parks Department. At present, the Arizona State Parks Department manages and maintains the Yuma Crossing National Landmark.

In recent years, however, most of the buildings and structures built by Reclamation have been demolished, and the early military buildings have been restored to their original appearance (Pfaff et al. 1999:92). One additional building, a ranger's residence/visitor's center, was moved onto the Yuma Crossing property in 1979 (Pfaff et al. 1999:83). The ranger's residence is a former YIP caretaker's house originally built at the Boundary Pumping Plant, moved to a lot on Sixth ½ Avenue, and later moved to its final destination at the Arizona Park property (personal communication with Charles Santini and Roger McGrane, of YCWUA, and Jerry Emert, Arizona State Parks, May 2003).

Ditchriders' Houses at the YIP Headquarters (AZ X:6:45)

Following the formation of the YIP, the city of Yuma grew quickly and Reclamation's Yuma Project Headquarters was soon surrounded by an extensive residential neighborhood. However, during Reclamation's early occupation of the Depot grounds, there was little or no housing available to YIP employees. In 1903, tent houses were set up west of the COQ (See Figure 44 in Swanson and Altschul 1991) and four houses were built on the small block of government land that borders North Fifth Avenue and First Street, south of the East (Yuma) Main Canal. The actual date of construction is unknown

but the four houses appear on a 1916 map labeled: "United States Military Reclamation Service H'DQT" (Figure 3). The northernmost house on the block appears to be in the same location as the house at 185 North Fifth Avenue, and the neighboring lot to the south appears to be empty. The same four houses appear again on a 1925 map etitled: "Yuma Project, Ariz-Calif. Headquarters Buildings and Grounds" (Figure 4).

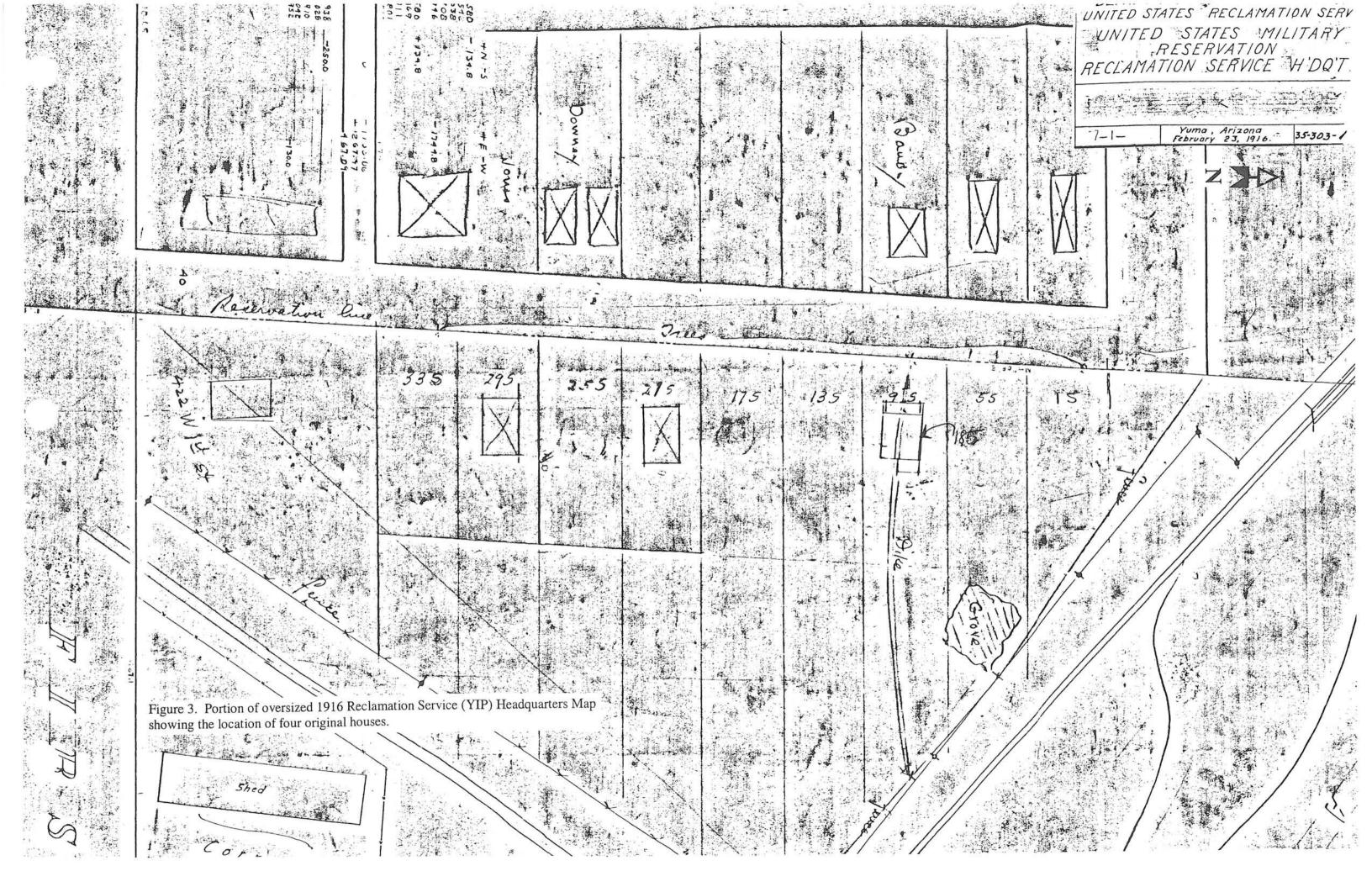
Several YIP Annual Project Histories help provide information on the number of YIP residences added over the years, although their exact locations are not given (Table 1). A YIP Annual Project History (1926:16) reported that four engineers' cottages and nineteen ditchriders' houses were rented for \$20 per month. Two years later, the same houses are mentioned in a 1928 YIP Annual Project History—only now, the rents charged were \$20-22 a month. Under the heading of "Future Work" in a YIP Annual Project History (1926:35), the management requested that funds be provided for "at least three ditchriders' houses for which sites have been procured. These buildings should be substantial with at least four rooms in each." Since project engineers are more likely to have worked at the headquarters than in outlying areas of the YIP, the four cottages are most likely the same four houses that appear in the 1916 and 1925 maps, cited above.

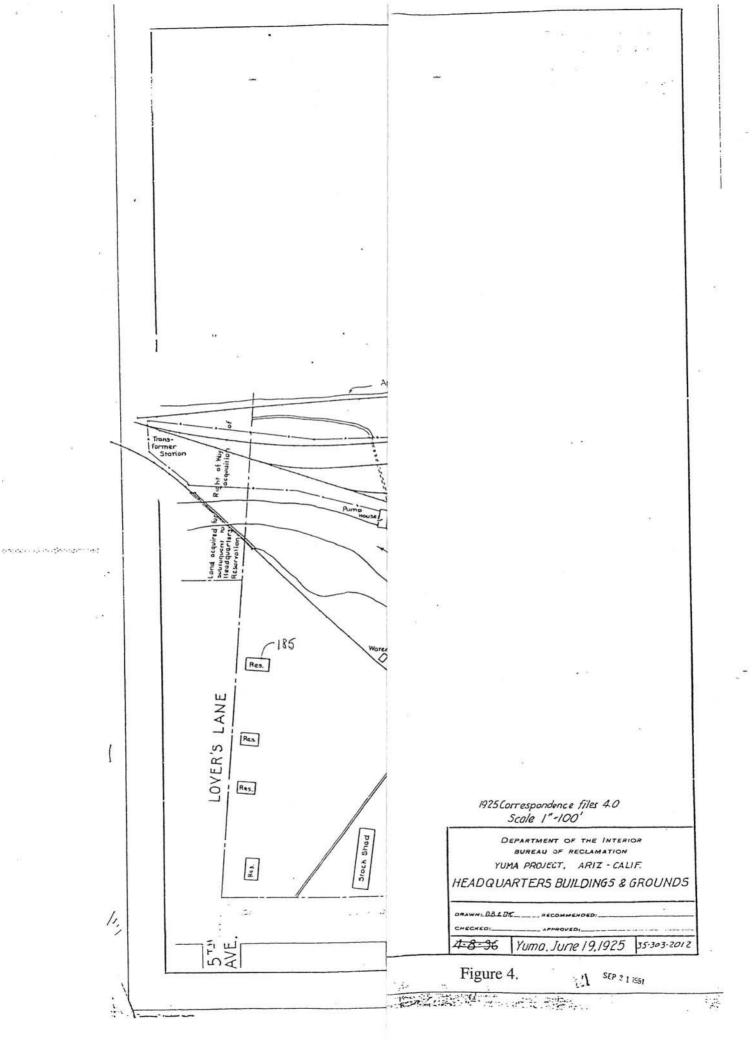
Table 1. Residences in the YIP by Division (if information is provided)

Year	Yuma General	Yuma Auxiliary	North Gila	Reservation	Valley	Total
1925	20	1			V	21
1927	22	1				21
1930	23	1				23
	2	1				24
1935	24	1	Y.			25
1940	26	1			3	
1946*	8	1				27
		1	1	4	13	27

Source: "Summary of Construction Results" in the YIP Annual Project Histories.

^{*}The 1946 "Summary of Construction Results" was the first report to separate the houses into divisions beyond Yuma General and Yuma Auxiliary. This information was no longer included in the Annual Project Histories after 1946.





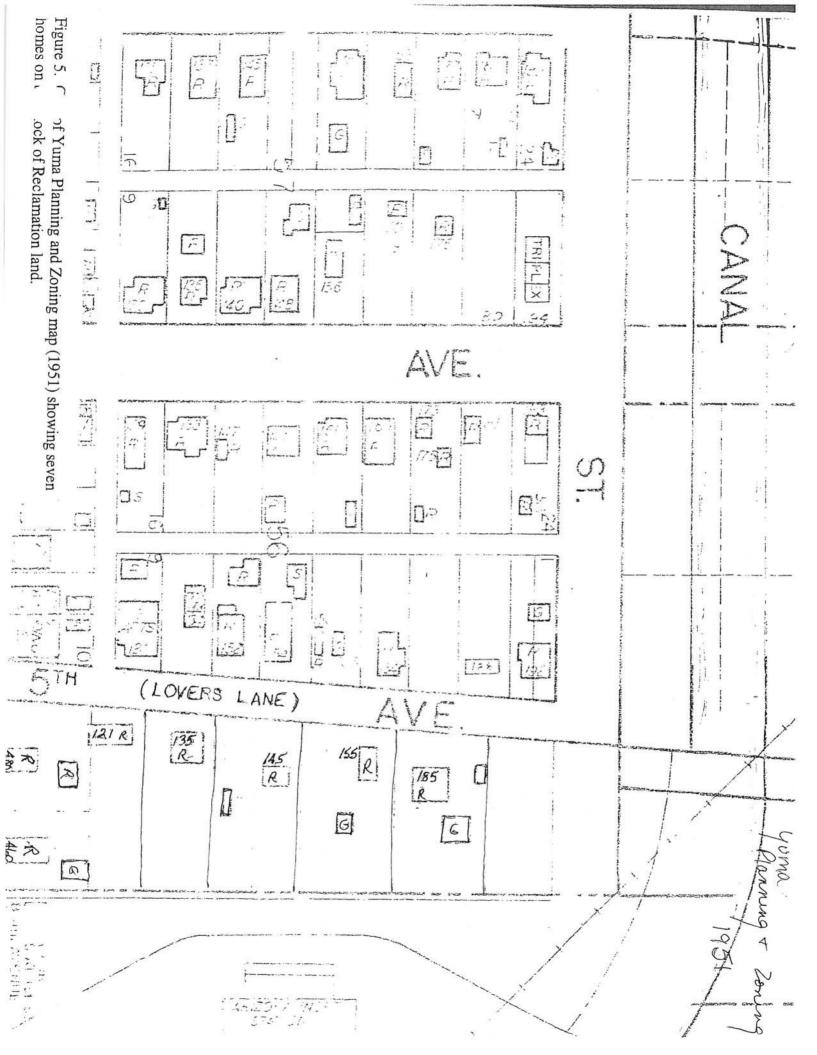
In 1951, seven houses stood on the block south of the East (Yuma) Main Canal--five of them facing North Fifth Avenue (formerly Lover's Lane) and the remaining two facing First Street (Figure 5). Over the last two decades, and as tenants moved out, several houses were demolished, with the exception of the two at 185 and 165 (its earlier address may have been 155 or 115) and another house that was moved to Somerton. The Somerton house is now privately owned (personal communications with Charles Santini, May 2003).

The steady addition of residences at the headquarters after 1925 coincides with the growth that the town of Yuma was experiencing as a result of agricultural development. Several articles in Yuma's *Morning Star* newspaper (March 11, 1926, September 26, 1926, and October 15, 1926) attest to a persistent housing shortage and describe the dozens of new houses being built in the blocks surrounding the YIP Headquarters. The surge in residential development apparently continued throughout the Reclamation years at the headquarters. Within the discussion of economic development, the *YIP Annual Project Histories* (1946:54; 1947:60) mention the many new dwellings that were constructed on farms and within the City of Yuma.

National Register Recommendations

A historic context for the YIP was written by Pfaff et al. (1999) and is the basis for evaluating the two ditchriders' houses (AZ:X:6:45) at the former YIP Headquarters. Four periods of significance were identified in that report:

- 1) Planning and Construction of the Yuma Irrigation Project (1902-1926);
- 2) Planning and Construction of the Yuma Auxiliary Project (1917-1923);
- 3) Civilian Conservation Corps (CCC) Activities on the Yuma Irrigation Project (1935-1942); and,
- 4) Settlement and Economic Development of the Yuma Irrigation Project (1910-1949).



House at 185 North Fifth Avenue, Yuma, Arizona

Description: This residence is the northernmost home on the residential block. Although it may have been built for YIP project engineers, ditchriders and other employees have occupied the residence since the YCWUA assumed management responsibilities for the YIP. Based on archival information, Reclamation and Assessor's maps, and YIP Annual Project Histories, there is strong evidence that this house was built here before 1916. In excess of 89 years old, it is the better preserved of the two remaining YIP Headquarters houses.

Its general style and overall appearance is typical of the early 20th century, efficiency houses built by the federal government. Despite minor alterations, the residence at 185 North Fifth Avenue is in its original location, and retains its original sense of feel and design. It possesses many of the characteristics of other YIP houses (see Photos 8 and 21 in Pfaff 1999), most of which have been demolished. The residence was built in a simple, rectangular plan with a front gabled, normal pitch roof, and is approximately 840 square-feet in area. Although its foundation is covered by wood siding, YCWUA employee Charles Santini recalls that it consists of redwood posts buried in concrete footings (personal communication with Renee Kolvet 2003). The wood frame is covered with horizontal drop (shiplap) siding. The large front porch has a shed type roof covered with original wood shake shingles. The detached, rear garage has similar siding and roofing and its opening is a large, sliding wood door.

Alterations to the house are relatively minor and have not dramatically changed its original appearance. They include the addition of an enclosed rear porch/utility room, common to homes of this era, and the replacement of some of the original windows with aluminum, sliding windows. Other window openings have been boarded-up to hold small air conditioning units. The original wood shake shingles on the south side of the roof have been replaced with rolled asphalt roofing, and a low, shed type overhang has been attached to the south side of the garage for covered storage.

Condition: The condition of the house is fair-to-good, despite its alterations and the rear addition. The siding is in good condition, despite some peeling paint, and the grounds are well-maintained.

NRHP Recommendation: The construction of the house is associated with the first period of significance established for the YIP: Planning and Construction of the Yuma Project (1902-1926). The building represents a good example of early employee housing built by the government in this agricultural community. Despite its alterations, it retains it original location, sense of feel and design, and is a component of a former residential area of the YIP Headquarters (Site AZ:X:6:12). The headquarters was determined to be an individually eligible district (Criterion a and c) as well as a contributing element of the overall YIP. Thus, the residence at 185 North Fifth Avenue is considered to be a contributing element of the YIP Headquarters District.

House at 165 North Fifth Avenue, Yuma, Arizona

Description: This house is next door and immediately south of the residence at 185 North Fifth Avenue. It appears in its present location on a 1951 Yuma County Planning and Zoning map (see Figure 5, above) and again on a Reclamation Right-of-Way schematic drawing in 1954 (on file at Reclamation, YAO). A Lower Colorado River District inventory record (Figure 6) prepared for a YIP house at 115 [probably 165] North Fifth Avenue indicates that it was built on the YIP's Reservation District in 1918 and moved to its present location in 1946. YCWUA employee and former tenant Charles Santini, thought that the house was moved from Imperial Dam (personal communication with Renee Kolvet 2003). Despite the discrepancy in the point of origin, various sources indicate that the house was not originally built on the YIP Headquarters grounds.

The approximately 715 square-foot house is a modified rectangular plan with an enclosed front porch and added rear utility room with a sliding glass door and covered awning (patio). The utility room spans the width of the house and extends an addition eight feet beyond the north wall. An added wood-frame awning on the north façade shades the

Q-7 - 115 North Fifth Avenue

Inside wall to wall measurements -- Total 818 sq. ft.

Living Area

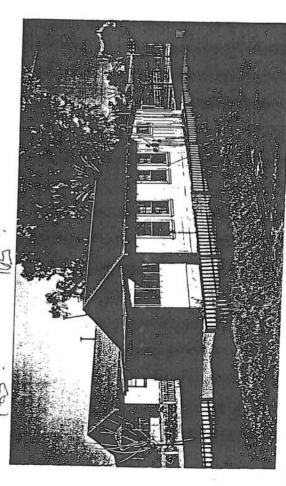
72 sq. ft. 46 sq. ft. 71 sq. ft. 8 sq. ft.	101
Secondary Area Front screened porch Storage room Utility room Closet	Total
229 sq. ft. 105 sq. ft. 106 sq. ft. 131 sq. ft. 50 sq. ft.	021 Sq. It.
Living room Kitchen Bedroom Bathroom	

bathroom are outdated; single garage on same lot; quarters are substandard in construction and general condition. Constructed on the Reservation Division of the old Yuma Project in 1918 by Government forces at a total cost of \$1,168.02, and moved to the present address and remodeled by Government forces from O & M funds in 1946, House is wood-frame construction, foundation and footings are concrete; wood floors; exterior walls are wood asphalt-roll roofing; screened porch across front of house; a shed-type addition on rear of house; kitchen and drop-siding; interior walls are wallboard or sheetrock; windows are wood double-hung; roof is covered with 197 sq. ft.

Equipment or services installed in quarters:

Venetian blinds

Electric storage water heater Single garage



for ver Colorado River District, Yuma, Arizona, Inventory Ro residence ... 115 [165] North Fifth Avenue. Figure (

utility room. In reference to its foundation, the house's wood-frame rests on 12-inch concrete piers. In addition to front and rear additions, several minor alterations have been made. Similar to its neighbor at 185 North Fifth Avenue, some of the original windows have been replaced by aluminum sliding windows while others have been boarded-up to accommodate small air conditioning units. In contrast to the original horizontal shiplap siding, the rear utility room is covered with vertical, wood planks. The wood shake shingles that once covered the front gabled roof have been replaced with rolled asphalt roofing. Similarly, the original garage roofing has been replaced.

Condition: The house and garage are in poor condition. The original siding is missing or rotted in several locations around the base of the house and the few replacement slats are ill-fitting. The window openings on the south exposure have been enlarged to accommodate aluminum windows that are much larger than the originals. The double doors of the garage have missing slats and sag in the middle and the roofing is loose in many areas.

NRHP Recommendation: Although the house may be associated with the earliest period of significance established for the YIP, our sources indicate that the house is not original to this location. Its poor condition and extensive, make-shift additions have dramatically changed its original appearance. The house lacks integrity and thus, is not a considered to be a contributing element of the YIP Headquarters District.

Project Impacts and Management Recommendations

In and alone, the transfer of property from federal control (i.e., from Reclamation to the City of Yuma) is considered to be an adverse effect [36 CFR part 800.5a (2) (vii)]. In addition to federal regulations, the proposed Arizona Welcome Center will directly impact the NRHP eligible house at 185 North Fifth Avenue. To mitigate the adverse affects, the recommendations are provided.

Ideally, the house at 185 North Fifth Avenue should be left in its original location provided that the plans for the Arizona Welcome Center can incorporate it into its design. If not, a second, another option would be to relocate the building elsewhere on Lot 1 and within the Welcome Center property. In either scenario, an interpretive display describing the Yuma Irrigation Project and Reclamation's history at Yuma Crossing should be included in their conceptual plans. Preservation of the YIP house, as a physical reminder of Reclamation's history at Yuma Crossing, should be a component of the proposed Yuma Crossing National Heritage Area, currently under development by the City of Yuma.

If the event that neither option is feasible, then consultation and assessment by a historic architect as well as some level of Historic American Building Survey (HABS) recording is recommended. The extent of the recording would be determined in consultation between Reclamation and the Arizona SHPO. In any event, Reclamation's YIP history should be displayed in the Welcome Center or as an outdoor display, possibly along the East (Yuma) Main Canal.

References Cited

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Yuma, Arizona. Technical Series No. 21 on file at Statistical Research, Tucson, Arizona.

Appendix

State of Arizona Historic Property Inventory Forms

185 North Fifth Avenue, Yuma Arizona 165 North Fifth Avenue, Yuma, Arizona

STATE OF ARIZONA HISTORIC PROPERTY INVENTORY FORM

Please type of print clearly. Fill out each applicable space accurately and with as much information as is known about the property. Continuation sheets may be attached if necessary. Send completed form to: State Preservation Office, 1300 W. Washington, Phoenix, AZ 85007.

Property Identification

For properties identified through survey: Site No. AZ X: 6:45 Survey Area: Yuma, AZ (Ditchriders' House in Reclamation's Yuma Irrigation Project [YIP] Headquarters)

Historic Name (s): none

Address: 185 North Fifth Avenue (formerly Lovers Lane)

City of Town: Yuma, AZ County: Yuma

Township 16S Range 22E Section 35 Quarters_____ Acreage ____

Block: 63 * Lot: 1: Plat *per Yuma County Assessor UTM reference: Zone 11 722600mE, 3623260mN

USGS 7.5" Quadrangle map: Yuma East, 1965 PR 1979

Architect: not determined Builder: not determined Construction Date: Pre-1916

STRUCTURAL CONDITION

X Fair to good (some problems apparent). Describe: The original wooden shake roof shingles were removed from the south portion of the roof and those remaining are old and curled up around the edges. Consequently, past roof leakage is suspected.

Uses/Functions: Residential/Worker Housing. The houses were originally built to house Bureau of Reclamation employees who worked on the Yuma Irrigation Project (YIP). Yuma County Water User's Association employees now reside in this house.

Significance

To be eligible for the National Register, a property must represent an important part of the history of architecture of an area. The significance of a property is evaluated within its historic context, which are those patterns, themes, or trends in history by which a property occurred or gained importance. Describe the historic and architectural contexts of the property that may make it worthy of preservation.

A. HISTORIC EVENTS/TRENDS. The house is associated with the Reclamation's Yuma Project Headquarters, an eligible district and contributing element of the NRHP eligible YIP (see Pfaff et al. 1999 and AZ SHPO concurrence letter dated April 2003). From 1903-1951, the construction and operation of the Yuma Project was administered from the headquarters complex. The Yuma Irrigation Project represents one of the earliest, federally-sanctioned efforts to control the unpredictable lower Colorado River and transform the arid desert into agricultural land. The YIP was of the first Reclamation projects to be implemented following passage of the Reclamation Act in 1902. In 1903, President Theodore Roosevelt transferred ownership of the historic Fort Yuma military

reservation (also referred to as the Yuma Quartermasters Depot) buildings and grounds to the newly created Reclamation Service (later renamed Bureau of Reclamation) for administration of the YIP.

The military buildings had been abandoned for years by the time that the Reclamation Service took over the grounds (with the exception of buildings used by the Weather Bureau of and Customs Service). The Reclamation Service began to use and modify the buildings, the first of those being the Storehouse (Pfaff 1995). The remaining structures in the Depot are within the boundaries of the Yuma Crossing National Historic Landmark, managed by the Arizona State Parks Service.

B. PERSONS

There are no persons of particular importance associated with the house.

C. ARCHITECTURE

The frame house is of vernacular styling commonly seen in agricultural communities in the early 20th century. It is rectangular in plan with a front facing gabled roof and exterior front (open) porch. A closed-in utility porch was added to the rear. The house is one story with no basement. A detached, single car garage sits behind the house.

Decribe other character-defining features of its massing, size, and scale:

The interior of the house is approximately 912 square feet in area. A single car garage sits in the rear of the lot measuring 14 x 24 feet. The garage has a sliding wood door.

INTEGRITY

To be eligible for the National Register, a property must have integrity, i.e., it must be able to visually convey its importance. The outline below lists some important aspects of integrity. Fill in the blanks with as detailed a description of the property as possible.

LOCATION: Original Site

DESIGN: Describe alterations from the original design.

The house has been altered in several ways: A former rear porch has been closed in and the original windows have been replaced with aluminum frame, sliding windows. An air conditioner has been installed in a north-facing window and the opening has been boarded up around it.

MATERIALS: Describe the materials used in the following elements of the property.

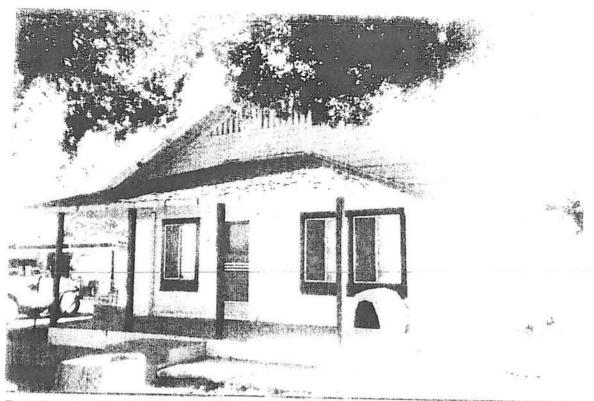
Walls (structure): The wood-framed house has wood, ship-lap siding.

Windows: Aluminum, sliding. Window Structure: Wood casing.

Roof: Front gabled, low pitch roof. The north half of the roof and half-gabled (shed) roof over the front porch retain the original wood shake shingles; the south half has been replaced with rolled asphalt roofing.

Summary: Based on its association with the one of four chronological themes for the YIP (Planning and Construction of the Yuma Project, 1902-1926) and due to its association with YIP Headquarters, the property is considered to be a contributing element to this eligible district of the YIP.

Pfaff, Christine, Rolla L. Queen, and David Clark 1999 *The Historic Yuma Project.* On file at Bureau of Reclamation Lower Colorado Regional Office, Boulder City, Nevada.



Residence at 185 W. Fifth Ave, Yuma, Arizona. View of west (front) and south facades.



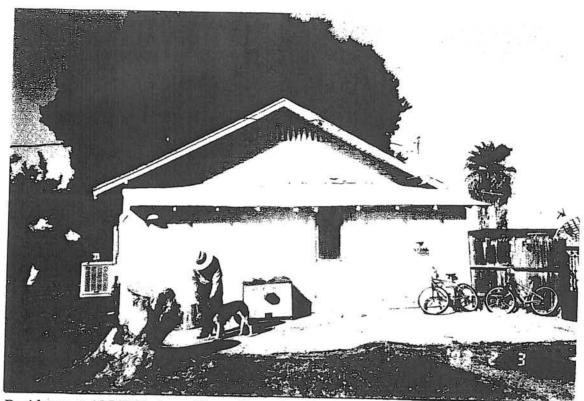
Residence at 185 W. Fifth Ave. Note the rolled asphalt on south-facing portion of roof.



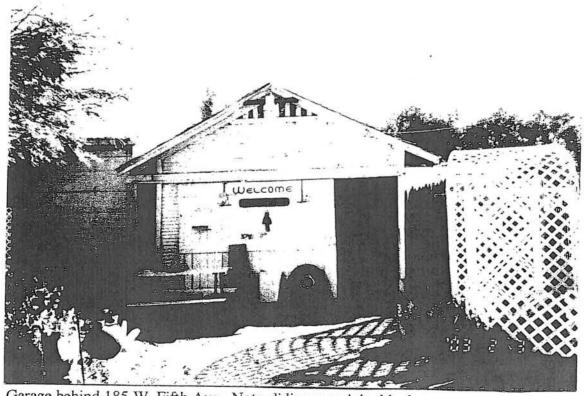
Residence at 185 W. Fifth Ave. View of north façade and front porch. Note boarded-up window holding air conditioner and wood shingles on north portion of roof.



Residence at 185 W. Fifth Ave. View of rear addition, north façade. Note refitted aluminum windows.



Residence at 185 Fifth Ave. View of east facade showing addition in rear of house (possibly a closed-in porch).



Garage behind 185 W. Fifth Ave. Note sliding wood double door.

STATE OF ARIZONA HISTORIC PROPERTY INVENTORY FORM

Please type of print clearly. Fill out each applicable space accurately and with as much information as is known about the property. Continuation sheets may be attached if necessary. Send completed form to: State Preservation Office, 1300 W. Washington, Phoenix, AZ 85007.

Property Identification

For properties identified through survey: Site No. AZ X: 6:45 Survey Area: Yuma, AZ (Ditchriders' House in Reclamation's Yuma Irrigation Project [YIP] Headquarters)

Historic Name (s): none

Address: 165 North Fifth Avenue (formerly Lovers Lane)

City of Town: Yuma, AZ County: Yuma

Township 16S Range 22E Section 35 Quarters Acreage Block:63 Parcel * Lot: 1: Plat *per Yuma County Assessor

UTM reference: Zone 11 722600mE, 3623260mN

USGS 7.5" Quadrangle map: Yuma East, 1965 PR 1979

Architect: not determined Builder: not determined

Construction Date: The house may have been built in 1918 on the Reservation Division of the Yuma Irrigation Project (YIP). Reclamation records indicate that it was moved to its present location in 1946.

STRUCTURAL CONDITION

Poor (Major problems, apparent threat). Describe: The lawns around the ditchriders' houses (165 and 185 N. Fifth Ave.) are flood-irrigated and thus, the siding shows signs of wood rot around the foundations. The entire original roof has been replaced with rolled asphalt. Portions of siding are missing around the foundation.

Uses/Functions: Residential/Worker Housing. The house was originally built to house a Reclamation employee, most likely a ditchrider working in the Reservation Division. The house was later moved to the YIP Headquarters to provide additional housing for employees working at that location. Employees of the Yuma County Water Users Association have resided in this house in recent years.

Significance

To be eligible for the National Register, a property must represent an important part of the history of architecture of an area. The significance of a property is evaluated within its historic context, which are those patterns, themes, or trends in history by which a property occurred or gained importance. Describe the historic and architectural contexts of the property that may make it worthy of preservation.

A. HISTORIC EVENTS/TRENDS. The house is associated with the Reclamation's Yuma Project Headquarters, an eligible district of the NRHP eligible YIP (see Pfaff et al. 1999 and AZ SHPO concurrence letter dated April of 2003). From 1903-1951, the construction and operation of the Yuma Project was administered from the headquarters complex (Pfaff et al.:1999:92). The Yuma Project represents one of the earliest, Federally-sanctioned efforts to control the unpredictable lower Colorado River and transform the arid desert into agricultural land. The YIP was of the first Reclamation projects to be implemented following passage of the Reclamation Act in 1902. In 1903,

President Theodore Roosevelt transferred ownership of the historic Fort Yuma military reservation (also referred to as the Yuma Quartermaster Depot) buildings and grounds to the newly created Reclamation Service (later renamed Bureau of Reclamation) for the administration of the YIP.

By the time that the Reclamation Service took over the grounds, most of the military buildings had been abandoned for several years (with the exception of buildings used by the Weather Bureau of and Customs Service). The Reclamation Service began to use and modify the buildings, the first of those being the Storehouse (Pfaff 1995). The remaining structures in the Depot are within the boundaries of the Yuma Crossing National Historic Landmark, managed by the Arizona State Parks Service.

B. PERSONS

There are no persons of particular importance associated with the house.

C. ARCHITECTURE

The frame house is of vernacular styling commonly seen in agricultural communities in the early 20th century. It is rectangular in plan with a front facing gabled rood and exterior front porch. The house is one story with no basement. The wood frame and posts rest on a concrete pier foundation. The house has undergone many alterations and is not a good example of early agricultural housing built by the federal government. Decribe other character-defining features of its massing, size, and scale:

The west-facing house is approximately 714-square feet in area with an 81-square foot washroom addition. The house has a 14 x 24 foot, (336 square-foot) single car garage in the right rear of the lot with center-opening, double doors.

INTEGRITY

To be eligible for the National Register, a property must have integrity, i.e., it must be able to visually convey its importance. The outline below lists some important aspects of integrity. Fill in the blanks with as detailed a description of the property as possible. LOCATION: The house appears to have built elsewhere and moved to its present location around 1946.

 $DESIGN: \ \ Describe \ alterations \ from \ the \ original \ design.$

The house has been altered in several ways: The front and rear porches have been closed in and the original windows have been replaced with aluminum frame, sliding windows. An air conditioner has been installed in a north-facing window and the opening has been boarded up around it. The roof covering is not original.

MATERIALS: Describe the materials used in the following elements of the property.

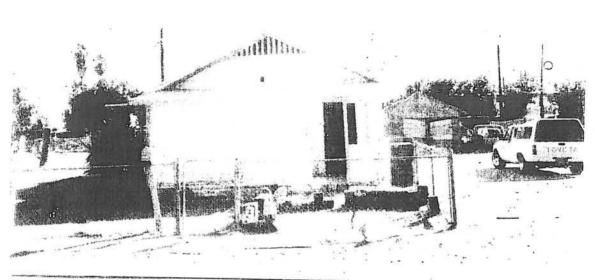
Walls (structure): The wood-framed house has wood, ship-lap siding; the added rear porch has vertical (lapped) plank siding.

Windows: Aluminum, sliding. Window Structure: Wood casing.

Roof: Front gabled roof. The front enclosed porch has a shed roof. The house and garage roofs are covered with rolled asphalt roofing.

Summary: Not a contributing element of the YIP Headquarters. The house is not in its original location and lacks integrity.

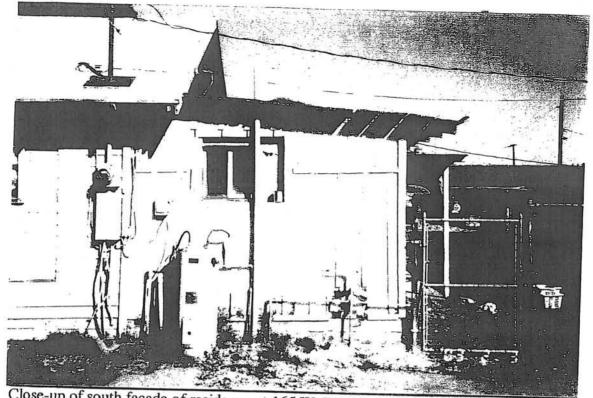
Pfaff, Christine, Rolla L. Queen, and David Clark The Historic Yuma Project. On file at Bureau of Reclamation Lower Colorado Regional Office, Boulder City, Nevada.



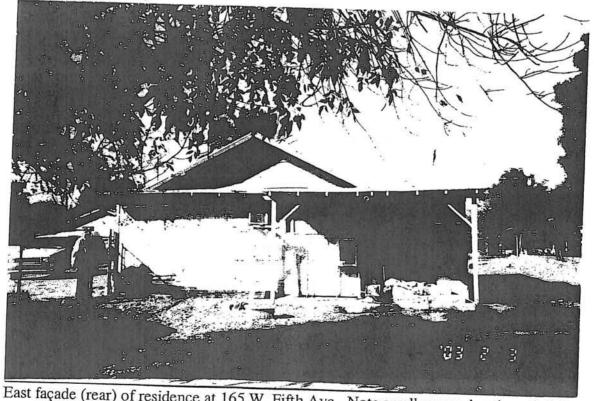
West (front) façade of residence at 165 W. Fifth Ave. Note enclosed porch.



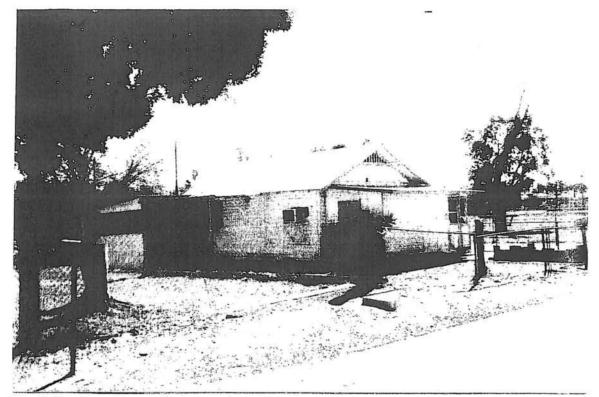
Porch and south façade of residence at 165 W. Fifth Ave. Note boarded-up window with air-conditioner, rolled asphalt roof, and rear addition.



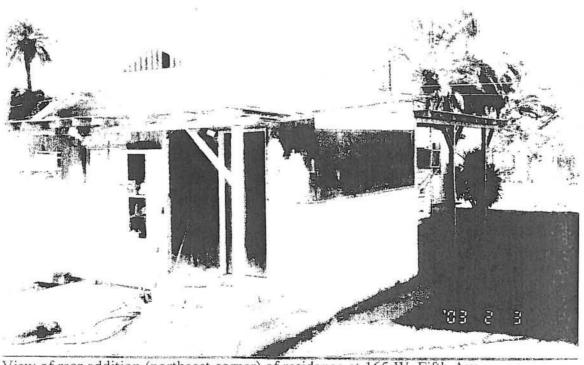
Close-up of south façade of residence at 165 W. Fifth Ave. showing rear addition with vertical plank siding.



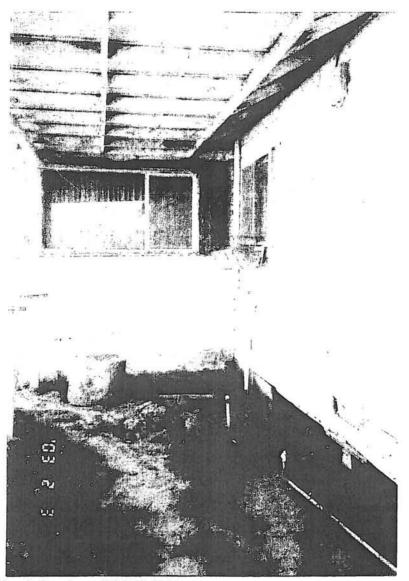
East façade (rear) of residence at 165 W. Fifth Ave. Note small covered patio and sliding door.



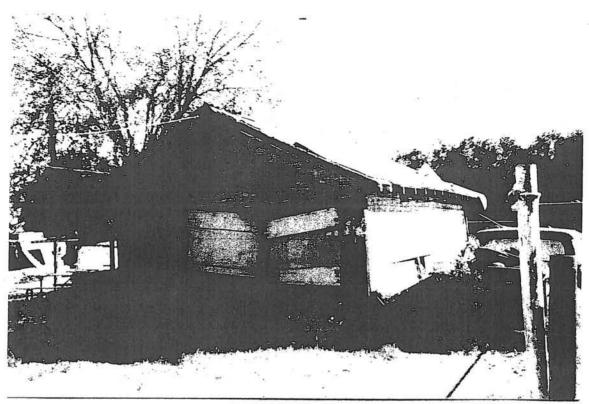
North façade and west-facing enclosed porch at 165 W. Fifth Ave. Rear addition extends 8-feet north or original walls; north window boarded up to enclose air conditioner.



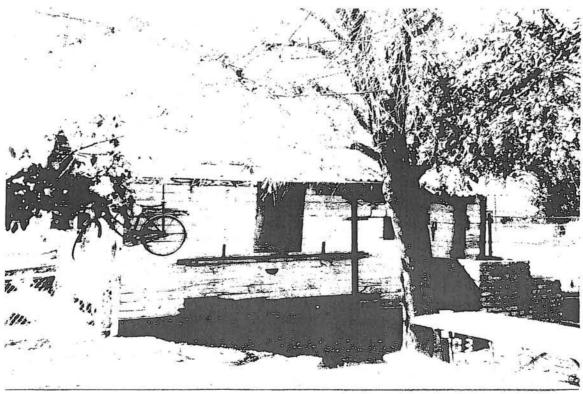
View of rear addition (northeast corner) of residence at 165 W. Fifth Ave.



North façade at 165 W. Fifth Ave. View of rear room extension and added roof overhang. Note foundation which consists of wood frame resting on concrete piers. Water damage is visible along the base of addition.



West-facing garage with double doors behind the residence at 165 W. Fifth Ave.



North exterior wall of garage at 165 W. Fifth Ave. Note missing siding and rolled asphalt roof.



CCR-002-08-010

THE COCOPAH INDIAN TRIBE

Cultural Resource Department. County 15th & Avenue G Somerton, Arizona 85350 Telephone (928) 627-4849 Cell (928) 503-2291

Fax (928) 627-3173

ACTION CODE REPLY DATE DATE ACTION TAX November 3, 2009 Classificatio

Sean Torpey Environmental Planning and Compliance U.S. Department of the Interior **Bureau of Reclamation** Yuma Area Office 7301 Calle Agua Salada Yuma, Arizona 85364

RE: Request for interest or concerns for the Yuma, Arizona Welcome Center Parking Lot Project

Dear Mr. Torpey

The Cocopah Indian Tribe appreciates your consultation efforts on this project. We are pleased that you contacted the Cocopah on this cultural resource issue for the purpose of solicitation of our input and to address our concerns on this matter. However, at this time we wish to make no comments on the development of this project, although we would like to continue to be a part of the consultation process in the future. The Cultural Resources Department would like to be provided all documentation, both draft and final copies, pertaining to this project.

If you have any questions or need additional information please feel free to contact the cultural resource department. We will be happy to assist you with any and all future concerns or questions.

Cultural Resource Manager



QUECHAN INDIAN TRIBE Ft. Yuma Indian Reservation

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P.O. Box 1899 Yuma, Arizona 85366-1899 Phone (760) 572-0213 Fax (760) 572-2102

October 24, 2008

Bureau of Reclamation Yuma Area Office Mr. Sean Torpey 7301 Calle Agua Salada Yuma, AZ 85364

Dear Mr. Torpey,

Thank you for notifying us of the proposed Arizona Welcome Center parking lot project.

Due to the project being within the traditional lands of the Tribe there is a possibility that cultural resources affiliated with the Tribe will be impacted. The Committee has requested that any contractors being utilized complete an archaeological sensitivity training course, that my office be notified immediately of any resources located subsurface – regardless of eligibility, and that a Tribal Monitor be present during any ground disturbing activities.

Thank you again for your notification. If you have any questions, please do not hesitate to call me at (760) 572-2423.

Sincerely,

Bridget R. Nash-Chrabascz

Historic Preservation Officer

OCT 27 2008

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QUECHAN INDIAN TRIBE Ft. Yuma Indian Reservation

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Historic Preservation Officer

OCT 27 2008

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Appendix C: Profile of General Demographic Characteristics: 2007 U.S. Census bureau American Community Survey (ACS)



U.S. Census Bureau

American FactFinder

FACT SHEET

Yuma city, Arizona

2006 American Community Survey Data Profile Highlights:

NOTE. Data from the 2007 American Community Survey (ACS) are available from the data sets page. The ACS Fact Sheet will be updated in December with additional data for smaller geographic areas with a population of 20,000 or greater.

2007 ACS release schedule

NOTE. Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

Social Characteristics - show more >> Average household size Average family size	Estimate 2.61 2.98	Percent (X) (X)	U.S. 2.61 3.20	Margin of Error +/-0.12 +/-0.17
Population 25 years and over High school graduate or higher Bachelor's degree or higher Civilian veterans (civilian population 18 years and	55,697 (X) (X)	75.1 13.9	84.1% 27.0%	+/-3,020 (X) (X)
over)	10,334	16.1	10.4%	+/-1,490
Disability status (population 5 years and over) Foreign born	10,403 21,658	12.6 22.5	15.1% 12.5%	+/-1,725 +/-3,274
Male, Now married, except separated (population 15 years and over)	22,231	62.0	52.4%	+/-1,851
Female, Now married, except separated (population 15 years and over)	21,731	58.2	48.4%	+/-1,754
Speak a language other than English at home (population 5 years and over)	N	Ν	19.7%	Ν
Household population Group quarters population	92,649 (X)	(X)	(X)	+/-5,894 (X)
Economic Characteristics - show more >>	Estimate	Percent	U.S.	Margin of
In labor force (population 16 years and over)	43,616	61.0	65.0%	Error +/-2,977
Mean travel time to work in minutes (workers 16 years and over)	16.5	(X)	25.0	+/-1.2
Median household income (in 2006 inflationadjusted dollars)	39,885	(X)	48,451	+/-2,807
Median family income (in 2006 inflation-adjusted dollars)	41,588	(X)	58,526	+/-2,559
Per capita income (in 2006 inflation-adjusted dollars)	18,393	(X)	25,267	+/-1,445
Families below poverty level Individuals below poverty level	(X)	14.1 16.9	9.8% 13.3%	(X) (X)
Housing Characteristics - show more >>	Estimate	Percent	U.S.	Margin of Error
Total housing units Occupied housing units Owner-occupied housing units Renter-occupied housing units Vacant housing units	41,148 35,440 23,537 11,903 5,708	86.1 66.4 33.6 13.9	88.4% 67.3% 32.7% 11.6%	+/-2,131 +/-2,298 +/-1,927 +/-1,936 +/-1,585
Owner-occupied homes Median value (dollars) Median of selected monthly owner costs	23,537 164,300	(X)	185,200	+/-1,927 +/-10,746
With a mortgage (dollars) Not mortgaged (dollars)	1,179 297	(X) (X)	1,402 399	+/-99 +/-27
ACS Demographic Estimates - show more >>	Estimate	Percent	U.S.	Margin of Error
Total population	96,120			+/-5,730
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Male	47,756	49.7	49.2%	+/-2.870
Female	48,364	50.3	50.8%	+/-3.361
Median age (years)	30.8	(X)	36.4	+/-2.1
Under 5 years	8,509	8.9	6.8%	+/-1,414
18 years and over	68,063	70.8	75.4%	+/-3,338
65 years and over	13,401	13.9	12.4%	+/-1,486
One race	93,865	97.7	98.0%	+/-5.829
White	64,951	67.6	73.9%	+/-5,239
Black or African American	3,254	3.4	12.4%	+/-875
American Indian and Alaska Native	950	1.0	0.8%	+/-577
Asian	2,112	2.2	4.4%	+/-235
Native Hawaiian and Other Pacific Islander	0	0.0	0.1%	+/-291
Some other race	22,598	23.5	6.3%	+/-4.348
Two or more races	2,255	2.3	2.0%	+/-889
Hispanic or Latino (of any race)	51,361	53.4	14.8%	+/-5,441

Source: U.S. Census Bureau, 2006 American Community Survey

The letters PDF or symbol indicate a document is in the Portable Document Format (PDF). To view the file you will need the Adobe® Acrobat® Reader, which is available for **free** from the Adobe web site.

Explanation of Symbols:

***** - The median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

****** - The estimate is controlled. A statistical test for sampling variability is not appropriate.

^{&#}x27;N' - Data for this geographic area cannot be displayed because the number of sample cases is too small. '(X)' - The value is not applicable or not available.



U.S. Census Bureau

American FactFinder

FACT SHEET

Yuma County, Arizona

2006 American Community Survey Data Profile Highlights:

NOTE. Data from the 2007 American Community Survey (ACS) are available from the data sets page. The ACS Fact Sheet will be updated in December with additional data for smaller geographic areas with a population of 20,000 or greater.

2007 ACS release schedule

NOTE. Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

0.110				Margin of
Social Characteristics - show more >> Average household size	Estimate 2.60	Percent	U.S . 2.61	Error +/-0.07
Average family size	2.96	(X) (X)	3.20	+/-0.07
Population 25 years and over	113,865	(^)	0.20	+/-534
High school graduate or higher	(X)	72.7	84.1%	(X)
Bachelor's degree or higher	(X)	11.1	27.0%	(X)
Civilian veterans (civilian population 18 years and	20,436	15.8	10.4%	+/-1,708
over)				
Disability status (population 5 years and over) Foreign born	25,774	15.8	15.1%	+/-2,860
Male, Now married, except separated (population	49,279	26.3	12.5%	+/-3,572
15 years and over)	44,304	63.2	52.4%	+/-2,146
Female, Now married, except separated	43,013	59.6	48.4%	±/ 2 20E
(population 15 years and over)	45,015	39.0	40.4 /6	+/-2,205
Speak a language other than English at home	80,900	47.3	19.7%	+/-3,053
(population 5 years and over)				
Household population	182,006	(V)	///	+/-1,453
Group quarters population	(X)	(X)	(X)	(X)
Economic Characteristics - show more >>	Estimate	Percent	U.S.	Margin of
				Error
In labor force (population 16 years and over) Mean travel time to work in minutes (workers 16	75,980	54.6	65.0%	+/-2,525
years and over)	19.1	(X)	25.0	+/-1.2
Median household income (in 2006 inflation- adjusted dollars)	37,457	(X)	48,451	+/-2,361
Median family income (in 2006 inflation-adjusted dollars)	40,141	(X)	58,526	+/-2,137
Per capita income (in 2006 inflation-adjusted dollars)	17,601	(X)	25,267	+/-892
Families below poverty level	(X)	15.7	9.8%	(X)
Individuals below poverty level	(X)	18.5	13.3%	(X)
Housing Characteristics - show more >>	Estimate	Percent	U.S.	Margin of Error
Total housing units	85,310			+/-571
Occupied housing units	69,922	82.0	88.4%	+/-2,009
Owner-occupied housing units	49,630	71.0	67.3%	+/-2,105
Renter-occupied housing units	20,292	29.0	32.7%	+/-2,135
Vacant housing units	15,388	18.0	11.6%	+/-2,018
Owner-occupied homes	49,630	00	105.000	+/-2,105
Median value (dollars) Median of selected monthly owner costs	139,800	(X)	185,200	+/-10,247
With a mortgage (dollars)	1,083	(X)	1,402	+/-65
Not mortgaged (dollars)	255	(X)	399	+/-19
3-3 ()		V-17		0
ACS Demographic Estimates - show more >>	Estimate	Percent	U.S.	Margin of
Total population	187,555		5.5.	Error
Total population	107,000			

Male	93,299	49.7	49.2%	+/-529
Female	94,256	50.3	50.8%	+/-529
Median age (years)	34.2	(X)	36.4	+/-0.4
Under 5 years	16,579	8.8	6.8%	+/-187
18 years and over	133,241	71.0	75.4%	+/-713
65 years and over	32,948	17.6	12.4%	+/-299
One race	183,550	97.9	98.0%	+/-1,730
White	134,320	71.6	73.9%	+/-5,485
Black or African American	3,843	2.0	12.4%	+/-852
American Indian and Alaska Native	2,921	1.6	0.8%	+/-710
Asian	2,112	1.1	4.4%	+/-235
Native Hawaiian and Other Pacific Islander	0	0.0	0.1%	+/-291
Some other race	40,354	21.5	6.3%	+/-5,441
Two or more races	4,005	2.1	2.0%	+/-1,730
Hispanic or Latino (of any race)	104,898	55.9	14.8%	****

Source: U.S. Census Bureau, 2006 American Community Survey

The letters PDF or symbol indicate a document is in the Portable Document Format (PDF). To view the file you will need the Adobe® Acrobat® Reader, which is available for **free** from the Adobe web site.

Explanation of Symbols:

***** - The median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.

******* - The estimate is controlled. A statistical test for sampling variability is not appropriate.

^{&#}x27;N' - Data for this geographic area cannot be displayed because the number of sample cases is too small. '(X)' - The value is not applicable or not available.

APPENDIX A

SPECIES ACCOUNTS AND EVALUATIONS

The following discussion provides information on the species with potential to occur within the project area.

Species Accounts

Federally Listed Species

Western Burrowing Owl (Athene cunicularia hypugaea)

Status: The Burrowing Owl is listed as a federal species of concern and is a BLM sensitive species.

Background: Burrowing Owls inhabit open areas in deserts, grasslands, and agricultural and range lands. They use well-drained areas with gentle slopes and sparse vegetation and may occupy areas near human habitation, such as golf courses and airports (Dechant et al. 1999; Ehrlich et al. 1988; Terres 1980). Burrowing Owls often select burrows where surrounding vegetation is kept short by grazing, dry conditions, or burning (Dechant et al. 1999; Hjertaas et al. 1995). In Arizona, Burrowing Owls prefer grasslands, creosote bush/bursage desert scrub communities, and agricultural lands (de Vos 1998).

Burrowing Owls are semi-colonial and usually occupy burrows excavated by small mammals, often at the edges of active colonies of Black-tailed Prairie Dogs or Richardson's Ground Squirrels (*Spermophilus richardsonii*). In areas that lack colonial burrowing mammals, burrowing owls will use excavations made by other mammals, such as Badgers, Woodchucks, Skunks, Foxes, Armadillos, and Coyotes. They may also use natural cavities in rocks. In addition to the nest burrow, the owls also may use several satellite burrows. Satellite burrows may serve as protection from predators and parasite (Dechant et al. 1999).

Burrowing Owls lay clutches averaging 5 to 7 eggs. The female remains in the burrow and is fed by the male through egg-laying, incubation, and brooding. The eggs hatch after 21 days of incubation, and young fledge from the nest approximately 28 days after hatching (Ehrlich et al. 1988).

Burrowing Owls are opportunistic feeders, preying on a variety of arthropods and small vertebrates (Dechant et al. 1999; Hjertaas et al. 1995). They may forge during the day or night, but tend to forge closer to the nest during the day. Foraging habit is variable, depending on prey availability and abundance.

Widespread declines in the range and abundance of burrowing owls have been attributed to habitat loss and fragmentation and extermination of colonial burrowing mammals (Dechant et al. 1999; Hjertaas et al. 1995). Reductions in Burrowing Owl populations have been

associated with reductions in populations of both Black-tailed Prairie Dogs and Richard's Ground Squirrels.

Populations in Study Area: Suitable habitat for the Burrowing Owl is present in the project area. The project area currently contains two residential units, a garage, and horses. Given the size of the project area and the range of the horses within the project area, Western burrowing owls have potential to occur at or near the project site.

Potential Impacts and Determination of Effects: Construction of the Yuma, Welcome Center Parking Lot would have no effect on the Burrowing Owl.

Southwestern Willow Flycatcher (Empidonax traillii extimus)

Status: The Southwestern Willow Flycatcher was listed as endangered, without designated critical habitat, on February 27, 1995, primarily because of riparian habitat loss or modification. Critical habitat was designated on July 22, 1997, and a Final Rule designating critical habitat for this species was published in the Federal Register on October 19, 2005. Eighteen critical habitat units, totaling 599 rivers miles in Arizona, California, Nevada, Utah, and New Mexico, were designated. Knowledge of important habitat areas for Willow Flycatchers has improved since 1997, and some designated critical habitats may not provide the most accurate description of critical habitat requirements for these birds. A draft Recovery Plan (USFWS 2001a) for the Southwestern Willow Flycatcher was released for public review on June 8, 2001.

Background: In the western United States, Willow Flycatchers are often found on willow (Salix spp.) covered islands, in dense brush along watercourses, beaver meadows, and mountain parks. They may be found as high as 2,400 meters (m) (7,875 feet) and they also follow willow or cottonwood (Populus spp.) lined streams out into desert regions (Terres Four specific habitat types have been described as breeding areas for the Southwestern Willow Flycatcher (Sogge et al. 1997). The first of these types is monotypic high-elevated willow. This habitat occurs above 300 m (984 feet) in Arizona and has dense stands of willow with no distinct overstory. This community is often associated with sedges, rushes, or other herbaceous wetland plants. A second habitat type is monotypic, exotic dense stands of salt cedar (Tamarix spp.) or Russian olive (Elaeagnus angustifolia) up to 10 m (33 feet) in height. These species form a dense, closed canopy, with no distinct overstory layer. Native broadleaf-dominated communities form a third habitat type. This habitat may be composed of a single species, such as Goodding willow (Salix gooddingii), but often includes other broadleaf tree and shrub species, including cottonwood, other willows, boxelder (Acer negundo), ash (Fraxinus spp.), alder (Alnus spp.), and buttonbush (Cephalanthus occidentalis). The vegetation in this habitat type ranges in height from 3 to 15 m (10 to 49 feet). There are trees of various size classes, and there is often a distinct overstory. The final habitat type is a mixture of native and exotic species including those listed above. Within any particular area, the native and exotic species may be dispersed as patches dominated by native or exotics, or they may be more evenly distributed throughout the area. Regardless of the species composition, all of these habitats share common structural characteristics (Sogg et al. 1997). Occupied habitats always have dense vegetation in the patch interior, and dense patches are often interspersed with small clearings, open water, or areas of sparse shrubs. Habitat patches can vary in size and shape, with some occupied areas being relatively dense,

linear, contiguous stands, and others being large, irregularly shaped mosaics of dense vegetation intermingled with open areas. Patch sizes can range from as little as 0.8 hectares (2.0 acres) to several hundred hectares (several hundred to a thousand acres). Southwestern Willow Flycatchers have not been found nesting in narrow riparian habitats than 10 m (33 feet) wide.

Like most other flycatchers, the Willow Flycatcher forges primarily by flying out from a perch to capture flying insects. They tend to be fairly active, moving frequently from perch to perch (Bent 1942). They will also use gleaning techniques when forging for spiders, millipedes, and other arthropods and also when feeding on berries.

Two primary factors have been identified as serious threats to the continued existence of the Southwestern Willow Flycatcher (Federal Register 1995). These threats are the loss or degradation of riparian habitat and brood parasitism by Brown-headed Cowbirds. It has been estimated that the State of Arizona lost 35 percent of its wetlands between 1780 and 1980 (Dahl 1990), and as much as 90 percent of lowland riparian habitat in Arizona has been lost or modified (State of Arizona 1990). The primary causes for riparian degradation include urban and agricultural development, water diversion and impoundment, stream channelization, livestock grazing, off-road vehicles and other recreational use, and hydrological changes resulting from these uses (Federal Register 1995).

Population in Study Area: Suitable habitat for the Southwestern Willow Flycatcher is not present in the project area. The nearest populations are found along the lower Colorado River located north of the proposed site.

Potential Impacts and Determination of Effects: Construction of the Yuma, Welcome Center Parking Lot would have no effect on the Southwestern Willow Flycatcher.

Yuma Clapper Rail (Rallus longirostris yumamemsis)

Status: The Yuma Clapper Rail was listed on March 11, 1967 (Federal Register 1967), under endangered species legislation enacted in 1966 (Public Law 89-669). This listing protects the populations in California and Arizona. No critical habitat has been designated for this species. The Yuma Clapper Rail recovery Plan was released in 1983 (USFWS 1983). The Yuma Clapper Rail is a subspecies of Clapper Rail that lives and sometimes breeds in freshwater marshes in the Salton Sea of California, along the lower Colorado River, in the Colorado River Delta of Sonora and Baja California del Norte, on the Salt and Gila rivers upstream to the confluence with the Verde River, and at Picacho Reservoir (AZGFD 1996; Todd 1986).

Background: Yuma Clapper Rails in Arizona breed in freshwater marshes with dense vegetation such as cattail and giant bulrush (*Schoenoplectus californicus*). Todd (1986) reported that Yuma Clapper Rails require more dense woody or herbaceous vegetation that exceeds 16 inches in height. Pond openings and flowing channels are also important, as are emergent soils. Water depth at preferred sites is 12 inches or less. The interface between water and soil is important, and rails use areas where the slope of the soil-to-water contact is relatively gentle. Conway et al. (1993) compared habitat variables between random sites and sites used heavily by Yuma Clapper Rails. They reported that during the breeding season,

the rails used sites that had less residential vegetation, were farther from upland habitat, and were closer to vegetative edges, open water, and dry ground that were random sites. Yuma Clapper Rails usually build their nests on the ground or suspended in dense vegetation a few inches from over the ground or over water (Todd 1986). Nests are usually placed along channels bear the water's edge or on a mud hummock within the marsh. Nests are usually placed in locations that provide overhead cover, and, if vegetation is relatively sparse, rails will pull grasses together over the nest to form a canopy (Conway and Eddleman 2000).

Yuma Clapper Rails feed on wetland invertebrates and small vertebrates. The birds forge by probing mud or sand with their long bills, spearing prey beneath the water surface, and picking prey off vegetation or the ground (Conway and Eddleman 2000). Their primary food source is crayfish, but they also feed on isopods, beetles, small fish, dragonfly and damselfly nymphs, and freshwater shrimp and clams (Ohmart and Tomlinson 1977). On the Colorado River, Yuma Clapper Rails feed very heavily on introduced crayfish (Bison 2001; LCRMSCP 2001). Of the 10 species examined from the Colorado River north of the Gila River, 95 percent of the diet by volume consisted of crayfish. The distribution of Yuma Clapper Rails appears to be closely related to the abundance and availability of crayfish, and the lack of crayfish might explain the absence of rails in otherwise suitable marshes (Virginia tech 1996).

The primary threat to Yuma Clapper Rails is habitat destruction (AZGFD 1996). Marshes may be destroyed as the result of stream channelization, dam construction, or appropriation of water for human uses. Marshland may also be affected by livestock grazing, and agricultural runoff may have high concentrations of pesticides (Todd 1986).

Populations in Study Area: Suitable habitat for the Yuma Clapper Rails is not present in the project area. The nearest populations are found along the lower Colorado River located north of the proposed site.

Potential Impacts and Determination of Effects: Construction of the Yuma, Welcome Center Parking Lot would have no effect on the Yuma Clapper Rails.