Sonoran Institute Mission and Vision

The Sonoran Institute inspires and enables community decisions and public policies that respect the land and people of western North America. Facing rapid change, communities in the West value their natural and cultural resources, which support resilient environmental and economic systems.

Founded in 1990, the Sonoran Institute helps communities conserve and restore those resources and manage growth and change through collaboration, civil dialogue, sound information, practical solutions and big-picture thinking.

Our passion is to help shape the future of the West with:

• Healthy Landscapes that support native plants and wildlife, diverse habitat, open spaces, clean energy and water, and fresh air.
• Livable communities where people embrace conservation to protect quality of life today and in the future.
• Vibrant economies that support prosperous communities, diverse opportunities for residents, productive working landscapes and stewardship of the natural world.

The Sonoran Institute is a nonprofit organization with offices in Tucson and Phoenix, Arizona; Bozeman, Montana; Glenwood Springs, Colorado and Mexicali, Baja California, Mexico.

www.sonoraninstitute.org
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State of the Santa Cruz River—companion document is available at: http://tiny.cc/scrci
Introduction

The Santa Cruz River and other riparian areas in the watershed have long been the backbone of the region’s natural and cultural heritage. This rich history is highlighted in the *State of the Santa Cruz River* (available at [http://tiny.cc/scrci](http://tiny.cc/scrci)).

This companion document, *State of the Santa Cruz River—Conservation Inventory*, aims to acknowledge the numerous conservation efforts underway throughout the region that promote watershed health as well as protect and restore the river. Understanding the “who”, “what”, and “where” of conservation efforts is crucial to fostering collaboration and ensuring long-term conservation success. Recognizing conservation priorities is also vital to success. This resource compiles the following:

**Who:** different organizations, alliances, and collaborations working in the watershed. If your group or effort is missing, please contact us so we can include your work.

**Conservation Efforts:** the general location and groups implementing restoration, monitoring, or some other conservation activity.

**Conservation Priorities:** the general location and description of collectively identified areas that are of high conservation value.

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**HOW WAS THE INVENTORY COMPLETED?**

This inventory stems primarily from a binational mapping session held during the Madrean Archipelago Conference in May 2012 (see Santa Cruz River Conservation Symposium, [http://tiny.cc/scrci](http://tiny.cc/scrci)). The goals of the mapping session were to identify conservation efforts and conservation priorities. The mapping exercise focused on the southern half of the Santa Cruz River watershed, from the Pima/Pinal County line south into Mexico.

The Sonoran Institute provided draft maps that included points identifying locations of known conservation efforts. Each point was marked with a number that corresponded to a general description of the effort and the lead organizations involved. Participants were asked to comment on existing points and descriptions, as well as draw additional points associated with other conservation efforts. The resulting inventory included the following efforts: land protection, monitoring, research, restoration, coalition or partnership, public utility, education, and inventory. We presented updated versions of these maps at Santa Cruz River Research Days in April 2013. Additional efforts were identified at that time.

To determine conservation priorities, we asked participants to map and describe areas that were of high value. The attendees of the 2012 mapping session identified all the areas in the following maps. The conservation priority map is...
preliminary and needs your input. Please contact us to update the map with additional priorities.

As we read in State of the Santa Cruz River, natural and cultural resources are inextricably linked along the river channel and throughout the watershed. Therefore, this inventory includes conservation efforts and priorities that relate to both natural and cultural resources. We use the term “cultural” loosely to refer to efforts and priorities that relate more directly to people rather than nature. However, people are part of nature, so this label is subjective. The distinction has relevance on-the-ground, however, as natural and cultural conservation groups often work independently and in different circles. With this inventory, we hope to catalyze new partnerships across sectors or strengthen existing relationships.

2015 UPDATE

In partnership with the Santa Cruz Valley Heritage Alliance (SCVHA), this inventory was updated with more than 50 additional cultural efforts and priorities drawn from the preliminary inventory compiled for the Feasibility Study for a Santa Cruz Valley National Heritage Area and reviewed by the network of SCVHA partners. Proposed additions were presented at Santa Cruz River Research Days in March 2015 where additional feedback was captured.

OVERVIEW OF TERMS

Santa Cruz River Watershed—the area encompassed by lands that water runs over, under, or through on its way to the river.

Riparian—the plant and animal communities that are associated with water bodies like streams or dependent on sites with year round or seasonal water.

Restoration—enhancing the health or integrity of the resources in a particular location.

Monitoring—collecting scientific information at regular intervals, as opposed to one time only, in order to understand the status or condition of the resources in a particular location; monitoring data can be used to answer research questions.

Research—collecting and analyzing scientific data to answer a specific question about a resource.
### Who is Working in the Region?

Below are the organizations and entities identified in the inventory. Click on the name to visit the organization’s website.

- Altar Valley Conservation Alliance
- Anza Trail Coalition
- Archaeology Southwest
- Arizona Aerospace Foundation
- Arizona Game and Fish Department
- Arizona Department of Environmental Quality
- Arizona Native Plant Society, Tucson Chapter
- Arizona Site Stewards
- Arizona State Historic Preservation Office
- Arizona State Land Department
- Arizona State Museum
- Arizona State Parks
- Asociación de Reforestación de Ambos Nogales (Association of Reforestation for Ambos Nogales)
- Audubon Arizona
- Buenos Aires National Wildlife Refuge
- Bureau of Land Management
- Bureau of Reclamation
- Catalina State Park
- Cienega Watershed Partnership
- City of Tucson
- Coalition for Sonoran Desert Protection
- Coronado National Forest
- DeGrazia Foundation
- Desert Botanical Garden
- Empire Ranch Foundation
- Frente Cívico Nogalense (non-profit working in Nogales, Sonora, website unavailable)
- Friends of Canoa Ranch
- Friends of the Santa Cruz River
- Friends of Sonoita Creek
- Friends of Tubac Presidio Park and Museum
- Friends of Tucson’s Birth Place
- FROG Conservation Project
- National Audubon Society
- Instituto Tecnológico de Nogales
- International Boundary and Water Commission
- Jewish History Museum
- National Fish and Wildlife Foundation
- National Park Service, Sonoran Desert Network
National Park Service, Tumacácori National Historical Park
Oro Valley Historical Society
Patronato San Xavier
Pima Association of Governments
Pima Community College
Pima County
Pima County Regional Flood Control District
Pima County Regional Wastewater Reclamation Department
San Xavier Co-Op Farm (Tohono O'odham group, website unavailable)
Santa Cruz County
Save the Scenic Santa Ritas
Santa Cruz Valley Heritage Alliance

Sky Island Alliance
Sonoran Institute
Sonoran Joint Venture
Southern Arizona Buffelgrass Coordination Center
Southwest Monarch Study
The Archaeological Conservancy
The Hummingbird Monitoring Network
The Nature Conservancy
www.nature.org or http://azconservation.org
Tohono O’odham Nation—San Xavier District
Town of Marana
Town of Oro Valley
Town of Sahuarita
Tucson Audubon Society

Universidad de Sonora, Mexico
University of Arizona
University of Arizona, Water Resources Research Center
U. S. Army Corps of Engineers
U. S. Fish and Wildlife Service
U. S. Geological Survey
Vail Preservation Society
Vail Unified School District
Watershed Management Group
Conservation Efforts

INVENTORY MAPS

The maps on the following pages show the general locations of conservation efforts. Each is marked with a discrete number. We overlaid these numbers on a base map of natural and cultural resources. This base map includes archaeological preserves identified by Santa Cruz Valley Heritage Alliance in the Feasibility Study for the Santa Cruz Valley National Heritage Area, historical districts, and protected lands that preserve both natural and cultural resources. For example, Pima County acquired thousands of acres of land specifically to protect ranches, historic sites, and other important cultural and natural resources as part of the Sonoran Desert Conservation Plan (learn more about the plan at: http://www.pima.gov/cmo/sdcp/index.html).

The overview map shows the portion of the Santa Cruz River Watershed represented in this inventory and provides the legend for the base map. Maps on the pages immediately following the overview map display the conservation efforts identified in the Tucson and Nogales regions. Click within the boxes on the overview map to easily navigate to the regional map of interest.

To study a particular mapped effort, locate the corresponding number, or Map ID, in the list that follows the maps. Click on the effort icon in the map to easily navigate to the page that includes the corresponding effort description. Buttons at the bottom of each page will take you back to either regional map.

The description of each conservation effort outlines the following:

• Map ID;
• resource type (natural, cultural, or both);
• region or location;
• effort type;
• groups or partners involved;
• activities; and
• timeframe.

The descriptions do not provide exhaustive detail about each conservation effort, but rather a quick reference to help identify potential contacts. However, more information is available for some of the conservation efforts at: http://www.southwestlearning.org/santacruz

WHAT ARE WE MISSING?

We recognize that this inventory is far from complete. We hope this will be a useful reference for the natural and cultural conservation community to learn from each other and better coordinate efforts. We trust that this reference will continue to grow and have designed this publication in such a way to permit easy updates with new information. Currently this resource is a digital publication, but we hope it will evolve into a more interactive tool in the future.

SUBMITTING NEW INFORMATION

Please submit new information or modifications/updates to existing information in this document to: Claire Zugmeyer at czugmeyer@sonoraninstitute.org. Type “Conservation Inventory” in the subject line and we will update the document.
CONSERVATION EFFORTS DESCRIPTIONS

1. RESOURCE TYPE: Natural
   REGION/LOCATION: Esperanza Ranch
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Tucson Audubon Society
   ACTIVITIES: Restoration of riparian vegetation along the river
   TIMEFRAME: Active

2. RESOURCE TYPE: Natural
   REGION/LOCATION: Tumacácori National Historical Park
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: National Park Service, Sonoran Institute
   ACTIVITIES: Restoration of riparian vegetation along the river; cottonwood/willows in area that burned, water harvesting to encourage restoration of mesquite bosque in old agricultural field
   TIMEFRAME: Complete

3. RESOURCE TYPE: Natural and Cultural
   REGION/LOCATION: Guy Tobin Trailhead
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Friends of the Santa Cruz River, Santa Cruz County, Watershed Management Group,
   ACTIVITIES: Stormwater mitigation and erosion control; use of Zuni bowl and one rock check dams to slow runoff and reduce erosion along river near trailhead
   TIMEFRAME: Complete

4. RESOURCE TYPE: Natural
   REGION/LOCATION: San Lázaro
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Sky Island Alliance, Sonoran Institute
   ACTIVITIES: Restoration of riparian vegetation in San Lázaro, Mexico with pole plantings; fencing to reduce impacts of grazing in riparian corridor
   TIMEFRAME: Complete

5. RESOURCE TYPE: Natural
   REGION/LOCATION: Atturbury Wash
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Sonoran Institute, Tucson Audubon Society, University of Arizona Water Resources Research Center, Watershed Management Group
   ACTIVITIES: Conserve to Enhance pilot site, restoration of riparian vegetation and rainwater harvesting
   TIMEFRAME: Complete

6. RESOURCE TYPE: Natural and Cultural
   REGION/LOCATION: Altar Valley
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Altar Valley Conservation Alliance, Buenos Aires National Wildlife Refuge, Sky Island Alliance
   ACTIVITIES: Stream/wash restoration and erosion mitigation; prescribed fires for grassland restoration
   TIMEFRAME: Active

7. RESOURCE TYPE: Natural
   REGION/LOCATION: Las Cienegas National Conservation Area—Empire Ranch
   EFFORT TYPE: Restoration
   GROUPS/PARTNERS: Arizona Game and Fish Department, Bureau of Land Management, Pima County, National Audubon Society, National Fish and Wildlife Foundation (NFWF), Sky Island Alliance
   ACTIVITIES: Erosion control, wash restoration, sustaining grasslands and their species (NFWF Sky Island Grassland Initiative); black tailed prairie dog; brush treatment/removal; wildlife friendly fencing
   TIMEFRAME: Active
| RESOURCE TYPE: | Natural and Cultural
REGION/LOCATION: | Nogales, Sonora
EFFORT TYPE: | Restoration
ACTIVITIES: | Water quality and stormwater run-off mitigation through installation of composting toilets and both passive and active rainwater harvesting infrastructure
TIMEFRAME: | Complete

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Martinez Hill
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Tohono O’Odham Nation—San Xavier District
ACTIVITIES: | Restoration of cottonwood/willow riparian vegetation along river at the Wa:k Hikdan cultural site
TIMEFRAME: | Complete

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Peña Blanca
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Arizona Department of Environmental Quality, Arizona Game and Fish Department
ACTIVITIES: | Water quality mitigation; native frog restoration—bullfrog removal to benefit leopard frogs
TIMEFRAME: | Complete

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Santa Cruz River—Rio Rico to Amado
EFFORT TYPE: | Monitoring
GROUPS/PARTNERS: | Arizona Department of Environmental Quality (ADEQ), Bird Works (BW), Friends of the Santa Cruz River (FOSCR), National Park Service (NPS), Sonoran Institute (SI), Sky Island Alliance (SIA), NPS Sonoran Desert Network (NPS SODN), Tucson Audubon Society (TAS), U.S. Geological Survey (USGS)
ACTIVITIES: | ADEQ—water quality; BW—birds; FOSCR—water quality, fish; NPS—water quality; SI—riparian veg; SIA—mammal tracking; NPS SODN—water quality, riparian condition; TAS—birds; USGS—stream flow
TIMEFRAME: | Active

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Cienega Creek Natural Preserve
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Cienega Watershed Partnership, FROG Conservation Project, Pima County, Sonoran Institute, University of Arizona
ACTIVITIES: | Buffelgrass and invasive species removal, frog restoration, bat habitat restoration
TIMEFRAME: | Active

| RESOURCE TYPE: | Natural and Cultural
REGION/LOCATION: | Tucson
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Sonoran Institute, University of Arizona Water Resources Research Center, Watershed Management Group
ACTIVITIES: | Urban stormwater run-off mitigation—green streets and green neighborhoods; Conserve to Enhance pilot program; water harvesting demonstration sites
TIMEFRAME: | Active

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Sonoita Creek
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Arizona Game and Fish Department, U. S. Fish and Wildlife Service
ACTIVITIES: | Restoration of native fish populations in select areas
TIMEFRAME: | Active

| RESOURCE TYPE: | Natural
REGION/LOCATION: | Nogales, Sonora
EFFORT TYPE: | Restoration
GROUPS/PARTNERS: | Cienega Watershed Partnership, FROG Conservation Project, Pima County, Sonoran Institute, University of Arizona
ACTIVITIES: | Buffelgrass and invasive species removal, frog restoration, bat habitat restoration
TIMEFRAME: | Active
**RESOURCE TYPE:** Natural

**REGION/LOCATION:** Santa Cruz River—Int’l Border to Rio Rico

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Friends of the Santa Cruz River (FOSCR), Sonoran Institute (SI), U. S. Geological Survey (USGS)

**ACTIVITIES:** FOSCR—water quality; SI—riparian vegetation; USGS—stream flow

**TIMEFRAME:** Active

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**RESOURCE TYPE:** Natural

**REGION/LOCATION:** Nogales Wash / Potrero Creek

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Arizona Department of Environmental Quality (ADEQ), Friends of the Santa Cruz River (FOSCR), U. S. Geological Survey (USGS)

**ACTIVITIES:** ADEQ—water quality; FOSCR—water quality, fish; USGS—stream flow

**TIMEFRAME:** Active

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**RESOURCE TYPE:** Natural

**REGION/LOCATION:** Las Cienegas National Conservation Area—Cienega Creek

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Arizona Game and Fish Department (AGFD), Bureau of Land Management (BLM), Cienega Watershed Partnership (CWP), FROG Conservation Project (FCP), National Audubon Society (NAS), Sky Island Alliance (SIA), The Nature Conservancy (TNC), University of Arizona (UA), U. S. Geological Survey (USGS)

**ACTIVITIES:** BLM, TNC—fish, targeted riparian species, birds, riparian vegetation, stream flow, ground water, and channel morphology; AZGD, SIA—mammals; CWP, FCP—fish and targeted riparian species; USGS—stream flow

**TIMEFRAME:** Active

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**RESOURCE TYPE:** Natural

**REGION/LOCATION:** Cienega Creek Natural Preserve

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Bureau Reclamation (BOR), Cienega Watershed Partnership (CWP), Pima Association of Governments (PAG), Pima County Regional Flood Control District (PCRFCD), Sky Island Alliance (SIA), Sonoran Institute (SI), Southern AZ Buffelgrass Coordination Center (SABCC), University of Arizona (UA)

**ACTIVITIES:** PAG, CWP, PCRFCD—aquatic and riparian monitoring; SIA—mammal tracking; PC, SI, SABCC, UA—Buffelgrass, BOR—annual fish surveys 2 reaches

**TIMEFRAME:** Active

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**RESOURCE TYPE:** Natural

**REGION/LOCATION:** San Rafael Valley

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Arizona Game and Fish Department, U.S. Fish and Wildlife Service

**ACTIVITIES:** Fish surveys

**TIMEFRAME:** Active

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**RESOURCE TYPE:** Natural

**REGION/LOCATION:** Sonoita Creek

**EFFORT TYPE:** Monitoring

**GROUPS/PARTNERS:** Arizona Game and Fish Department (AGFD), Friends of Sonoita Creek (FOSC), Hummingbird Network (HN), The Nature Conservancy (TNC)

**ACTIVITIES:** AGFD, TNC—aquatic and riparian monitoring; FOSC, HN—hummingbird monitoring

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<td>REGION/LOCATION: Patagonia Mountains</td>
<td>REGION/LOCATION: Canoa Ranch</td>
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<td>GROUPS/PARTNERS: Pima County—Regional Flood Control District, Regional Wastewater Reclamation Department, and Office of Sustainability and Conservation</td>
<td>GROUPS/PARTNERS: U.S. Geological Survey</td>
<td>GROUPS/PARTNERS: Pima County Office of Sustainability and Conservation</td>
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<td>ACTIVITIES: Aquatic and riparian monitoring</td>
<td>ACTIVITIES: Understanding relationship between geology, water quality, and mining in the Patagonia Mountains and Sonoita Creek</td>
<td>ACTIVITIES: Channel morphology/riparian vegetation through repeat photography on historic ranch</td>
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<td>GROUPS/PARTNERS: U.S. Geological Survey</td>
<td>GROUPS/PARTNERS: Sonoran Joint Venture, Sonoran Institute, Universidad de Sonora</td>
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<td>ACTIVITIES: Mammal tracking</td>
<td>ACTIVITIES: Mapping quaternary geology between and including Nogales, Sonora and Amado, including Sonoita Creek Drainage</td>
<td>ACTIVITIES: Aquatic and riparian monitoring—water quality, vegetation, birds at 9 sites along the river; groundwater/well water quality at three sites</td>
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<td>REGION/LOCATION: Sonoita Creek at Patagonia Lake</td>
<td>REGION/LOCATION: San Rafael Valley</td>
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<td>GROUPS/PARTNERS: Sonoran Joint Venture, Sonoran Institute, Universidad de Sonora</td>
<td>GROUPS/PARTNERS: Tucson Audubon Society</td>
<td>GROUPS/PARTNERS: Arizona Game and Fish Department, U. S. Fish and Wildlife Service</td>
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<td>ACTIVITIES: Aquatic and riparian monitoring—water quality, vegetation, birds at 9 sites along the river; groundwater/well water quality at three sites</td>
<td>ACTIVITIES: Fence out and provide water for removal of cattle along Sonoita Creek inlet to Patagonia Lake</td>
<td>ACTIVITIES: Fish and aquatic habitat restoration, removal of invasive species, native aquatic vertebrate restoration (gila topminnow, gila chub, Chiricahua leopard frog, state threatened species)</td>
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RESOURCE TYPE: Natural
REGION/LOCATION: Red Rock Canyon
EFFORT TYPE: Restoration
GROUPS/PARTNERS: Arizona Game and Fish Department
ACTIVITIES: Fish and aquatic habitat restoration, removal of non-natives
TIMEFRAME: In development

RESOURCE TYPE: Natural
REGION/LOCATION: San Rafael Important Bird Area
EFFORT TYPE: Monitoring
GROUPS/PARTNERS: Tucson Audubon Society, Audubon Arizona, Rocky Mountain Bird Observatory
ACTIVITIES: Bird monitoring, recognition of important habitat for birds or Important Bird Area
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Las Cienegas National Conservation Area—Empire Ranch
EFFORT TYPE: Monitoring
GROUPS/PARTNERS: Bureau of Land Management, The Nature Conservancy
ACTIVITIES: Grassland response to brush treatment; rainfall monitoring
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Las Cienegas National Conservation Area—Cienega Creek
EFFORT TYPE: Restoration
GROUPS/PARTNERS: Arizona Department of Water Resources, Arizona Game and Fish Department, Bureau of Land Management, Cienega Watershed Partnership, FROG Conservation Project, National Audubon, University of Arizona, U. S. Fish and Wildlife Service
ACTIVITIES: Aquatic and threatened/endangered species restoration, stream channel restoration, wetland restoration
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Santa Cruz River—through Tucson
EFFORT TYPE: Restoration
GROUPS/PARTNERS: Pima County
ACTIVITIES: Water quality and wetland habitat in the effluent dependent reach
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Atturbury Wash
EFFORT TYPE: Monitoring
GROUPS/PARTNERS: Tucson Audubon Society
ACTIVITIES: Bird monitoring
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Santa Rita Experimental Range
EFFORT TYPE: Research/Outreach
GROUPS/PARTNERS: University of Arizona
ACTIVITIES: Ecological function—water, energy, carbon cycle; community outreach regarding conservation of wildlife and vegetation
TIMEFRAME: Active

RESOURCE TYPE: Natural
REGION/LOCATION: Las Cienegas National Conservation Area—Cienega Creek
EFFORT TYPE: Inventory
GROUPS/PARTNERS: Desert Botanical Gardens
ACTIVITIES: Locate and map wetland; identify water sources with isotope analysis
TIMEFRAME: Active
| RESOURCE TYPE: Natural and Cultural | REGION/LOCATION: Sands Ranch | EFFORT TYPE: Land Protection | GROUPS/PARTNERS: Pima County | ACTIVITIES: One of the many historic ranch properties purchased in the Cienega Basin as part of the Sonoran Desert Conservation Plan; management includes monitoring and restoration | TIMEFRAME: Active |
| RESOURCE TYPE: Natural and Cultural | REGION/LOCATION: Santa Rita Mountains | EFFORT TYPE: Coalition | GROUPS/PARTNERS: Save the Scenic Santa Ritas | ACTIVITIES: Protecting the Santa Rita and Patagonia mountains from development and environmental degradation—focused on Rosemont mine | TIMEFRAME: Active |
| RESOURCE TYPE: Natural and Cultural | REGION/LOCATION: Santa Cruz River—Tucson | EFFORT TYPE: Coalition/Planning | GROUPS/PARTNERS: City of Tucson, Pima County Regional Flood Control District | ACTIVITIES: Management plan for Lower Santa Cruz River to maintain/protect riparian corridor | TIMEFRAME: In development |
| RESOURCE TYPE: Natural and Cultural | REGION/LOCATION: Corazón de los Tres Ríos Del Norte | EFFORT TYPE: Restoration | GROUPS/PARTNERS: Pima County Regional Flood Control District | ACTIVITIES: Idea of using old gravel pit and area around three rivers as recreation/economic development zone with recharge facility | TIMEFRAME: In development |
| RESOURCE TYPE: Natural and Cultural | REGION/LOCATION: Black Wash | EFFORT TYPE: Restoration | GROUPS/PARTNERS: Pima County Regional Flood Control District, Pima County Regional Wastewater Reclamation Department | ACTIVITIES: Use of treatment plants for restoration | TIMEFRAME: Unknown |
**RESOURCE TYPE:** Natural
**REGION/LOCATION:** Santa Rita Mountains
**EFFORT TYPE:** Research
**GROUPS/PARTNERS:** Borderlands Jaguar, U. S. Geological Survey
**ACTIVITIES:** Camera traps and phenology, comparing phenology and fire pattern to animal observations
**TIMEFRAME:** Active

**RESOURCE TYPE:** Natural
**REGION/LOCATION:** Tumacácori foothills
**EFFORT TYPE:** Monitoring
**GROUPS/PARTNERS:** University of Arizona—Brian Powell
**ACTIVITIES:** Bird surveys in oak woodland (1997-1998)
**TIMEFRAME:** Complete

**RESOURCE TYPE:** Natural
**REGION/LOCATION:** Santa Cruz River near Cortaro Road
**EFFORT TYPE:** Restoration
**GROUPS/PARTNERS:** Arizona Native Plant Society—Tucson Chapter
**ACTIVITIES:** Restoration of riparian vegetation along the river, seeding, native trees/shrubs, removal of buffelgrass
**TIMEFRAME:** Active

**RESOURCE TYPE:** Natural and Cultural
**REGION/LOCATION:** Southeastern Pima County
**EFFORT TYPE:** Land protection/Coalition
**GROUPS/PARTNERS:** Coalition for Sonoran Desert Protection, The Nature Conservancy, Sonoran Institute, and others
**ACTIVITIES:** Areas with efforts to attain permanent protection of state trust lands for conservation via ballot initiative
**TIMEFRAME:** Active

**RESOURCE TYPE:** Natural and Cultural
**REGION/LOCATION:** Santa Cruz Valley—U.S. portion
**EFFORT TYPE:** Coalition
**GROUPS/PARTNERS:** Santa Cruz Valley Heritage Alliance
**ACTIVITIES:** Effort to give the Santa Cruz Valley federal recognition as a National Heritage Area
**TIMEFRAME:** Active

**RESOURCE TYPE:** Natural and Cultural
**REGION/LOCATION:** Agua Caliente Ranch, Roy P. Drachman Agua Caliente Park, Pima County
**EFFORT TYPE:** Interpretation
**GROUPS/PARTNERS:** Pima County
**ACTIVITIES:** Listed on National Register; historic sites, hiking trails, picnic areas, visitor center, environmental education programs
**TIMEFRAME:** Active

**RESOURCE TYPE:** Natural and Cultural
**REGION/LOCATION:** Bar V Ranch, Davidson Canyon
**EFFORT TYPE:** Land Protection
**GROUPS/PARTNERS:** Pima County
**ACTIVITIES:** 1,700 acres of private land and 12,600 acres of leased state trust land, purchased for open space and wildlife corridor conservation
**TIMEFRAME:** Complete

**RESOURCE TYPE:** Cultural
**REGION/LOCATION:** Barrio de Tubac Archaeological Preserve
**EFFORT TYPE:** Interpretation
**GROUPS/PARTNERS:** The Archaeological Conservancy
**ACTIVITIES:** Listed on National Register; Spanish colonial archaeological site preserving the remains of the original Tubac townsite, including residence foundations, plaza, refuse area, and partial irrigation ditch
**TIMEFRAME:** Active
**Resource Type:** Cultural  
**Region/Location:** Binghampton Rural Historic Landscape (Brandi Fenton Park)  
**Effort Type:** Interpretation  
**Groups/Partners:** Pima County  
**Activities:** About 427 acres of land listed on National Register of Historic Places, a first in Pima County; Brandi Fenton Memorial Park developed with historical preservation and interpretation as a primary goal  
**Timeframe:** Active

**Resource Type:** Natural and Cultural  
**Region/Location:** Bojórquez-Aguirre Ranch  
**Effort Type:** Land Protection  
**Groups/Partners:** Town of Marana  
**Activities:** Remnants of the Bojórquez-Aguirre Ranch to be preserved and interpreted as part of a planned park  
**Timeframe:** In Development

**Resource Type:** Cultural  
**Region/Location:** San Cayetano de Calabazas, Tumacácori National Historical Park  
**Effort Type:** Interpretation  
**Groups/Partners:** Tumacácori National Historical Park  
**Activities:** Ruins of the mission compound and church  
**Timeframe:** Active

**Resource Type:** Natural and Cultural  
**Region/Location:** Canoa Ranch Conservation Park  
**Effort Type:** Restoration  
**Groups/Partners:** Pima County, Friends of Canoa Ranch  
**Activities:** Preservation and rehabilitation of historic buildings, ranchland conservation, environmental education; listed on National Register  
**Timeframe:** Active

**Resource Type:** Natural and Cultural  
**Region/Location:** Cienega Creek Natural Preserve  
**Effort Type:** Land Protection  
**Groups/Partners:** Pima County, Regional Flood Control District  
**Activities:** Most noted for its ecological significance and scenic beauty as a desert riparian oasis, contains a number of historic and pre-historic cultural resource sites  
**Timeframe:** Complete

**Resource Type:** Natural and Cultural  
**Region/Location:** Colossal Cave Mountain Park  
**Effort Type:** Interpretation  
**Groups/Partners:** Pima County  
**Activities:** Listed on National Register of Historic Places  
**Timeframe:** Active

**Resource Type:** Cultural  
**Region/Location:** Dairy Site, Marana  
**Effort Type:** Land Protection  
**Groups/Partners:** The Archaeological Conservancy  
**Activities:** unknown beyond protection  
**Timeframe:** Complete

**Resource Type:** Natural and Cultural  
**Region/Location:** Dakota Wash  
**Effort Type:** Land Protection  
**Groups/Partners:** Pima County  
**Activities:** Important complex of several ancient Hohokam villages near the West Branch of the Santa Cruz River occupied from A.D. 450 to A.D. 1150; significant cultural resource containing dense deposits of buried cultural materials important to understanding the prehistory of the Tucson Basin  
**Timeframe:** Complete
<table>
<thead>
<tr>
<th>RESOURCE TYPE: Cultural</th>
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</tr>
</thead>
<tbody>
<tr>
<td>REGION/LOCATION: DeGrazia Chapel</td>
<td>REGION/LOCATION: Fort Lowell/Hardy Site, Fort Lowell Park</td>
</tr>
<tr>
<td>EFFORT TYPE: Interpretation</td>
<td>EFFORT TYPE: Restoration</td>
</tr>
<tr>
<td>GROUPS/PARTNERS: DeGrazia Foundation</td>
<td>GROUPS/PARTNERS: City of Tucson, Pima County</td>
</tr>
<tr>
<td>ACTIVITIES: National Historic Landmark</td>
<td>ACTIVITIES: Public park with rich archaeological prehistoric site, historic Fort Lowell, including three 1873 Officers’ Quarters buildings</td>
</tr>
<tr>
<td>TIMEFRAME: Active</td>
<td>TIMEFRAME: In Development</td>
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<tr>
<th>RESOURCE TYPE: Cultural</th>
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</thead>
<tbody>
<tr>
<td>REGION/LOCATION: El Tiradito (Wishing Shrine)</td>
<td>REGION/LOCATION: Los Santos Ángeles de Guevavi Mission, Tumacácori National Historical Park</td>
</tr>
<tr>
<td>EFFORT TYPE: Interpretation</td>
<td>EFFORT TYPE: Interpretation</td>
</tr>
<tr>
<td>GROUPS/PARTNERS: City of Tucson</td>
<td>GROUPS/PARTNERS: Tumacácori National Historical Park</td>
</tr>
<tr>
<td>ACTIVITIES: Listed on National Register of Historic Places</td>
<td>ACTIVITIES: Ruins of the mission church</td>
</tr>
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<td>TIMEFRAME: Active</td>
<td>TIMEFRAME: Active</td>
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<tr>
<th>RESOURCE TYPE: Natural and Cultural</th>
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</thead>
<tbody>
<tr>
<td>REGION/LOCATION: Empire Ranch, Las Cienegas National Conservation Area</td>
<td>REGION/LOCATION: Juan Bautista de Anza National Historic Trail</td>
</tr>
<tr>
<td>EFFORT TYPE: Interpretation</td>
<td>EFFORT TYPE: Interpretation</td>
</tr>
<tr>
<td>ACTIVITIES: Preservation of the ranch buildings, enhancement of educational and recreational opportunities</td>
<td>ACTIVITIES: Historic landmarks, trail conservation, environmental and historic interpretation</td>
</tr>
<tr>
<td>TIMEFRAME: Active</td>
<td>TIMEFRAME: In Development</td>
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<tr>
<th>RESOURCE TYPE: Natural and Cultural</th>
<th>RESOURCE TYPE: Cultural</th>
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<tbody>
<tr>
<td>REGION/LOCATION: Empirita Ranch, Pima County</td>
<td>REGION/LOCATION: Honey Bee Village</td>
</tr>
<tr>
<td>EFFORT TYPE: Land Protection</td>
<td>EFFORT TYPE: Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS: Pima County</td>
<td>GROUPS/PARTNERS: Pima County, Oro Valley</td>
</tr>
<tr>
<td>ACTIVITIES: 2,700 acres preserved, including a High Sensitive Archaeological Zone associated with Wakefield Canyon Wash; old “cowboy house” at the primary ranch headquarters dating back to the 1880’s completely restored in 2009</td>
<td>ACTIVITIES: Hohokam village, with a cluster of 19 large mounds surrounding a plaza, a ballcourt, and a special-use walled enclosure; the 13-acre core is preserved</td>
</tr>
<tr>
<td>TIMEFRAME: Complete</td>
<td>TIMEFRAME: In Development</td>
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</tbody>
</table>
RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Julian Wash Natural and Cultural Resources Park
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: City of Tucson
ACTIVITIES: Multi-use trail and interpretive signage about prehistoric Native American archaeological site named after the adjacent Julian Wash, and the former St. Luke's Orphanage formerly at this location
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Kentucky Camp, Santa Rita Ranger District, Coronado National Forest
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: Coronado National Forest
ACTIVITIES: Historic mining and ranching site; preservation of historic buildings and overnight use with a permit
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Los Morteros
EFFORT TYPE: Land Protection
GROUPS/PARTNERS: Pima County
ACTIVITIES: Prehistoric Hohokam village, currently managed as Open Space and as a Cultural Resources Conservation Area; comprehensive Management Plan is also slated for development
TIMEFRAME: In Development

RESOURCE TYPE: Cultural
REGION/LOCATION: Marana Heritage Park, Marana
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: Town of Marana
ACTIVITIES: Park is envisioned as a place where Marana's heritage is displayed through a demonstration farm, water features, marketplace and equine facilities
TIMEFRAME: In Development

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Marley Ranch
EFFORT TYPE: Land Protection
GROUPS/PARTNERS: Pima County
ACTIVITIES: Initial purchase included the more biologically sensitive parcels totaling 6,337 acres of fee lands straddling the foothills of the Sierrita Mountains and the north flank of the Cerro Colorado Mountains; prehistoric rock shelters, pictographs, petroglyph sites and village sites (likely Hohokam) are reported to exist on Marley Ranch
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: Marsh Station Foreman House
EFFORT TYPE: Restoration
GROUPS/PARTNERS: Vail Preservation Society, Vail Unified School District
ACTIVITIES: Rehabilitation of 1915 house
TIMEFRAME: In Development

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: McKenzie Ranch
EFFORT TYPE: Land Protection
GROUPS/PARTNERS: Pima County
ACTIVITIES: Acquisition of historic ranch lands in the Cienega Valley-Empire Ranch Reserve
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: Mission San Xavier del Bac
EFFORT TYPE: Restoration
GROUPS/PARTNERS: Patronato Mission San Xavier del Bac
ACTIVITIES: Exterior restoration and rehabilitation of the mission and interior art preservation; listed as National Historic Landmark
TIMEFRAME: Active
<table>
<thead>
<tr>
<th>RESOURCE TYPE:</th>
<th>Natural and Cultural</th>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>Posta Quemada Ranch</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Pima County</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>Includes site of historic Mountain Springs Hotel, Stage Station, and National Mail Stagecoach route, and Hohokam bedrock mortar site</td>
</tr>
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<td>TIMEFRAME:</td>
<td>Complete</td>
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<tr>
<th>RESOURCE TYPE:</th>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>Rancho Seco</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Pima County</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>37,000-acre property is one of several working ranches owned by the County in the Altar Valley and Upper Santa Cruz Valley; known archaeological and historic sites indicate prehistoric use of the land between A.D. 900 and A.D. 1450</td>
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<td>TIMEFRAME:</td>
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<tr>
<th>RESOURCE TYPE:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>Romero Ruin, Catalina State Park</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Interpretation</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Coronado National Forest, Catalina State Park, Archaeology Southwest</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>Remains of a Hohokam Indian village occupied between A.D. 500 and A.D. 1450, one of the largest and most significant archaeological sites within the northern Tucson Basin, covering 15 acres on a ridge overlooking Sutherland Wash; remains of more recent structures built by rancher Francisco Romero also visible</td>
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<td>TIMEFRAME:</td>
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<tr>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>Sabino Canyon Ruin, Pima County</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Pima County</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>Large settlement occupied by Hohokam Indians between A.D. 1100 and A.D. 1350</td>
</tr>
<tr>
<td>TIMEFRAME:</td>
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<th>RESOURCE TYPE:</th>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>San Rafael State Natural Area</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Arizona State Parks</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>Currently NOT open to public; preserves a native grassland area that has not suffered problems of shrubs and cactus invasion, nor has been taken over by exotic plant species that affect so much of this vegetation type elsewhere in Arizona and the Southwest; ranch headquarters designated as a National Historic District in 2008; territorial style ranch house, built in 1900, is over 9,000 square feet</td>
</tr>
<tr>
<td>TIMEFRAME:</td>
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<tr>
<th>RESOURCE TYPE:</th>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>San Xavier District</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Conservation Farm</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>San Xavier Co-Op Farm</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>Conservation, education, and distribution of traditional O’odham crops</td>
</tr>
<tr>
<td>TIMEFRAME:</td>
<td>Active</td>
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</table>

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<th>RESOURCE TYPE:</th>
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<tbody>
<tr>
<td>REGION/LOCATION:</td>
<td>Sopori Ranch</td>
</tr>
<tr>
<td>EFFORT TYPE:</td>
<td>Land Protection</td>
</tr>
<tr>
<td>GROUPS/PARTNERS:</td>
<td>Pima County</td>
</tr>
<tr>
<td>ACTIVITIES:</td>
<td>4,135 acres protecting several wildlife movement corridors between the numerous Sky Island mountain ranges in the area, reducing threats to groundwater pumping along Sopori Wash, and preserving the history, culture, and economic traditions of this important place</td>
</tr>
<tr>
<td>TIMEFRAME:</td>
<td>Complete</td>
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</tbody>
</table>
RESOURCE TYPE: Cultural  
REGION/LOCATION: Steam Pump Ranch  
EFFORT TYPE: Restoration  
GROUPS/PARTNERS: Oro Valley, Pima County, Oro Valley Historical Society, Archaeology Southwest  
ACTIVITIES: Sixteen acre property listed on the National Register of Historic Places; ranch buildings have undergone significant rehabilitation for public access  
TIMEFRAME: In Development

RESOURCE TYPE: Cultural  
REGION/LOCATION: Stone Avenue Temple  
EFFORT TYPE: Restoration  
GROUPS/PARTNERS: Jewish History Museum  
ACTIVITIES: Built in 1910, was the first Jewish house of worship established in the Arizona Territory; listed on the National Register of Historic Places  
TIMEFRAME: Active

RESOURCE TYPE: Cultural  
REGION/LOCATION: Sutherland Wash Rock Art District  
EFFORT TYPE: Land Protection  
GROUPS/PARTNERS: Coronado National Forest  
ACTIVITIES: Listed on National Register  
TIMEFRAME: In Development

RESOURCE TYPE: Cultural  
REGION/LOCATION: Titan Missile Silo  
EFFORT TYPE: Interpretation  
GROUPS/PARTNERS: Arizona Aerospace Foundation  
ACTIVITIES: Preserved Titan II missile site, officially known as complex 571-7; all that remains of 54 Titan II missile sites on alert across the United States from 1963 to 1987; listed on National Register; National Historic Landmark  
TIMEFRAME: Active

RESOURCE TYPE: Cultural  
REGION/LOCATION: Torres Blancas, Green Valley  
EFFORT TYPE: Land Protection  
GROUPS/PARTNERS: The Archaeological Conservancy  
ACTIVITIES: Hohokam village site  
TIMEFRAME: Complete

RESOURCE TYPE: Cultural  
REGION/LOCATION: Tubac Presidio State Historic Park  
EFFORT TYPE: Interpretation  
GROUPS/PARTNERS: Arizona State Parks, Friends of Tubac State Park  
ACTIVITIES: Listed on National Register; preservation of ruins of the Presidio San Ignacio de Tubac and various other buildings  
TIMEFRAME: Active

RESOURCE TYPE: Cultural  
REGION/LOCATION: Tucson Origins Heritage Park, (Mission San Agustin and Mission Garden)  
EFFORT TYPE: Interpretation  
GROUPS/PARTNERS: Pima County, City of Tucson, Friends of Tucson’s Birthplace  
ACTIVITIES: Twenty-two acre plan for a historically re-created mission, gardens, and cultural center, to be situated near the base of “A” Mountain  
TIMEFRAME: In Development

RESOURCE TYPE: Cultural  
REGION/LOCATION: Tumacácori Mission, Tumacácori National Historical Park  
EFFORT TYPE: Interpretation  
GROUPS/PARTNERS: Tumacácori National Historical Park  
ACTIVITIES: Protection of ruins of three Spanish mission communities located along the river, two of which are National Historic Landmark sites; also contains the 1937 Tumacácori Museum building  
TIMEFRAME: Active
RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Tumamoc Hill Desert Laboratory
EFFORT TYPE: Monitoring
GROUPS/PARTNERS: University of Arizona, Pima County
ACTIVITIES: Ecological and archaeological reserve with ongoing monitoring of natural and cultural resources; listed on National Register; National Historic Landmark
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Tumamoc Hill Desert Laboratory
GROUPS/PARTNERS: University of Arizona, Pima County
ACTIVITIES: Listed on National Register of Historic Places; 67-acre large prehistoric Hohokam settlement, one of the best preserved in the City of Tucson; preserved portion represents core, where major ceremonial ballcourt is located, along with many large plazas and middens, and as many as two thousand domestic houses
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: University Indian Ruin Archaeological Research District
EFFORT TYPE: Protection
GROUPS/PARTNERS: University of Arizona
ACTIVITIES: Prehistoric archeological village, as well as a historic complex of archeological research facilities constructed in the 1930s; consists of a large Classic period Hohokam village, occupied primarily between A.D. 1150 and A.D. 1450
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Upper Davidson Canyon Foothills Archaeological District
GROUPS/PARTNERS: Bureau of Land Management
ACTIVITIES: Unknown beyond protection
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: Vail Store and Post Office
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: Vail Preservation Society
ACTIVITIES: Store and post office from 1908 listed on National Register of Historic Places in 2009
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: Valencia Site and Valencia Vieja
EFFORT TYPE: Land Protection
GROUPS/PARTNERS: Pima County, Archaeology Southwest, Pima Community College
ACTIVITIES: Listed on National Register of Historic Places; 67-acre large prehistoric Hohokam settlement, one of the best preserved in the City of Tucson; preserved portion represents core, where major ceremonial ballcourt is located, along with many large plazas and middens, and as many as two thousand domestic houses
TIMEFRAME: Complete

RESOURCE TYPE: Cultural
REGION/LOCATION: Vista del Rio Cultural Resources Park
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: City of Tucson, Archaeology Southwest
ACTIVITIES: Four-acre property that preserves partial remains of a large prehistoric Hohokam Village occupied between A.D. 1000 and A.D. 1150; archeological features, a walking path, and a quiet sitting area
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Whiptail Ruin, Roy P. Drachman Agua Caliente Park
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: Pima County
ACTIVITIES: Hohokam village from about A.D. 1150 and A.D. 1250
TIMEFRAME: Active

RESOURCE TYPE: Cultural
REGION/LOCATION: Yuma Wash Site, Marana
EFFORT TYPE: Interpretation
GROUPS/PARTNERS: Town of Marana
ACTIVITIES: Large Hohokam settlement established some time after A.D. 750 and inhabited to the end of the Hohokam period
TIMEFRAME: Complete
**RESOURCE TYPE:** Natural  
**REGION/LOCATION:** Various locations in Upper Santa Cruz Watershed  
**EFFORT TYPE:** Research/Outreach  
**GROUPS/PARTNERS:** Southwest Monarch Study  
**ACTIVITIES:** Researching migration and breeding patterns of monarch butterflies in Arizona and the Southwestern United States; describes migration and breeding patterns, encourages conservation, and provides meaningful projects for citizen scientists of all ages  
**TIMEFRAME:** Active

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**RESOURCE TYPE:** Cultural  
**REGION/LOCATION:** Marana Mound  
**EFFORT TYPE:** Land Protection  
**GROUPS/PARTNERS:** Arizona State Museum, Arizona State Land Department, Pima County, Arizona State Historic Preservation Office, Arizona Site Stewards  
**ACTIVITIES:** Listed as an acquisition priority in the 2015 Pima County Open Space Bound Initiative, large amount of land west of the Tortolita Mountains is required for preservation and also includes an ironwood forest; ultimately an excellent site for research and interpretation of one of the best preserved Hohokam towns in southern Arizona  
**TIMEFRAME:** Active
Conservation Priorities

INVENTORY MAPS

The maps on the following pages show the general locations of priorities. Each is marked with a discrete number. We overlaid these numbers on a base map of natural and cultural resources. This base map includes archaeological preserves identified by Santa Cruz Valley Heritage Alliance in the Feasibility Study for the Santa Cruz Valley National Heritage Area, historical districts, and protected lands that preserve both natural and cultural resources. For example, Pima County acquired thousands of acres of land specifically to protect ranches, historic sites, and other important cultural and natural resources as part of the Sonoran Desert Conservation Plan (learn more about the plan at: http://www.pima.gov/cmo/sdcp/index.html).

The overview map shows the portion of the Santa Cruz River Watershed represented in this inventory and provides the legend for the base map. Maps on the pages immediately following the overview map display the priorities identified in the Tucson and Nogales regions. Click within the boxes on the overview map to easily navigate to the regional map of interest.

To study a particular priority, locate the corresponding number, or Map ID, in the list that follows the maps. Click on the priority icon in the map to easily navigate to the page that includes the corresponding priority description. Buttons at the bottom of each page will take you back to either regional map.

The description of each conservation priority outlines the following:

- Map ID;
- resource type (natural, cultural, or both);
- region or location; and
- brief justification explaining why the area is of high value.

WHAT ARE WE MISSING?

We recognize that this inventory is far from complete. We hope this will be a useful reference for the natural and cultural conservation community to learn from each other and better coordinate efforts. We trust that this reference will continue to grow and have designed this publication in such a way to permit easy updates with new information. Currently this resource is a digital publication, but we hope it will evolve into a more interactive tool in the future.

SUBMITTING NEW INFORMATION

Please submit new information or modifications/updates to existing information in this document to: Claire Zugmeyer at czugmeyer@sonoraninstitute.org. Type “Conservation Inventory” in the subject line and we will update the document.
SANTA CRUZ RIVER WATERSHED
NOGALES REGION

PRIORITY LEGEND
- Natural
- Cultural
- Natural and Cultural
CONSERVATION PRIORITIES DESCRIPTIONS

RESOURCE TYPE: Natural
REGION/LOCATION: San Rafael Valley—State Natural Area
DESCRIPTION: Perennial flows and associated riparian habitat

RESOURCE TYPE: Natural
REGION/LOCATION: San Rafael Valley
DESCRIPTION: Valley recognized as one of best remaining grassland landscapes in region

RESOURCE TYPE: Natural
REGION/LOCATION: Santa Cruz River—San Lázaro
DESCRIPTION: Perennial flow, high diversity of riparian species (riparian obligates and birds)

RESOURCE TYPE: Natural
REGION/LOCATION: Patagonia Mountains
DESCRIPTION: Priority area with a wildlife corridor from Mexico through Patagonia Mountains up to Ciénega Watershed

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Santa Cruz River—Mexico uplands
DESCRIPTION: Subwatershed of the Yaquis with high biodiversity

RESOURCE TYPE: Natural
REGION/LOCATION: Sonoita Creek—Tributaries
DESCRIPTION: Restored habitats for native fish—Coal mine Creek and Fresno Creek, tributaries to Sonoita Creek below Patagonia Lake

RESOURCE TYPE: Natural
REGION/LOCATION: Sonoita Creek—Headwaters
DESCRIPTION: Headwater springs for Sonoita Creek (Willow, Cottonwood, and Monkey Spring)

RESOURCE TYPE: Natural
REGION/LOCATION: Santa Cruz River—“Paredes”
DESCRIPTION: Perennial flow and associated habitat, Paredes is a monitoring site

RESOURCE TYPE: Natural
REGION/LOCATION: Rincon Creek
DESCRIPTION: Rincon Creek is an important tributary to Cienega Creek and Pantano Wash; Rincon Creek headwaters are protected in Saguaro National Park, but lower reaches are getting increasingly subdivided into ranchettes, reducing connectivity for plants and animals south to the Santa Ritas and southeast to the Whetstones

RESOURCE TYPE: Natural
REGION/LOCATION: Las Ciénegas National Conservation Area
DESCRIPTION: Considered best example of habitats/communities formerly typical of Tucson – e.g. riparian areas with frogs and fish

RESOURCE TYPE: Natural
REGION/LOCATION: Sonoita Plains
DESCRIPTION: High value for conservation because of grasslands and grassland-dependent species

RESOURCE TYPE: Natural
REGION/LOCATION: Davidson Canyon
DESCRIPTION: Outstanding Water of Arizona, critical habitat for wildlife
RESOURCE TYPE: Natural
REGION/LOCATION: Tortolita Fan
DESCRIPTION: Tortolita Fan preservation area is high value habitat and currently preserved

RESOURCE TYPE: Natural
REGION/LOCATION: Tucson bridges
DESCRIPTION: Bridges in Tucson that are roosting habitat for bats

RESOURCE TYPE: Natural
REGION/LOCATION: Swan Wetlands
DESCRIPTION: Swan Wetlands preservation and restoration project

RESOURCE TYPE: Natural
REGION/LOCATION: Sabino Canyon
DESCRIPTION: High value area that could be higher if groundwater pumping were turned off

RESOURCE TYPE: Natural
REGION/LOCATION: Pima Mine Road Bridge near Sahuarita
DESCRIPTION: Great bat habitat and Town of Sahuarita plans to rebuild this bridge in the distant future

RESOURCE TYPE: Natural
REGION/LOCATION: Sahuarita Central Arizona Project (CAP)
DESCRIPTION: High value with groundwater recharge from CAP

RESOURCE TYPE: Natural
REGION/LOCATION: Arivaca Creek Cienega
DESCRIPTION: Cienega at the headwaters of Arivaca Creek

RESOURCE TYPE: Natural
REGION/LOCATION: Buenos Aires National Wildlife Refuge
DESCRIPTION: Multiple arroyos with high value bob white quail habitat that is/was eroding

RESOURCE TYPE: Natural
REGION/LOCATION: Arivaca Creek
DESCRIPTION: Major riparian corridor

RESOURCE TYPE: Cultural
REGION/LOCATION: Tumacácori National Historical Park—Guevavi
DESCRIPTION: Federal protection of historic artifacts and ruins, discussions with City of Nogales about possible expansion that would include conservation easement

RESOURCE TYPE: Cultural
REGION/LOCATION: Tumacácori National Historical Park—Calabazas
DESCRIPTION: Federal protection of historic artifacts and ruins, area could be expanded in terms of land area by working with Nogales municipality

RESOURCE TYPE: Natural
REGION/LOCATION: Tumacácori Wilderness
DESCRIPTION: Proposed wilderness area (Atascosa and Tumacácori Mountains), oak woodlands, grasslands, pinyon/juniper up to Ponderosa pine on peaks

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Las Lagunas
DESCRIPTION: Natural wetland on private property with historical, ecological, and recreational values; being developed as a community environmental and heritage education facility

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Tumacácori National Historical Park
DESCRIPTION: Federal protection of historic artifacts, ruins, and river ecosystem (only reach of river with federal protection); Important Bird Area, mature cottonwood/willow
RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Green Valley Wastewater Treatment Plant
DESCRIPTION: Run by Pima County—possible recharge basins offer potential resource

RESOURCE TYPE: Natural and Cultural
REGION/LOCATION: Santa Cruz River—effluent dependent reach
DESCRIPTION: Ecosystem services of the river from Rio Rico north of the Nogales wastewater treatment plant

RESOURCE TYPE: Cultural
REGION/LOCATION: Los Robles Archaeological District
DESCRIPTION: Nearly 13,000 acres and contains over 100 historic and prehistoric archaeological sites, including the Los Robles Platform Mound Community and a trincheras; added to the National Register of Historic Places in 1989

RESOURCE TYPE: Cultural
REGION/LOCATION: Marana Mound
DESCRIPTION: Urban development and largescale agriculture have partly destroyed almost all large Hohokam towns in southern Arizona, Marana Mound is an exception as it has never been plowed or otherwise developed; spans over 3 km² on the west side of the Tortolita Mountains and includes platform mound from 1100 A.D., over 40 associated residential compounds, a single prehistoric canal to the Santa Cruz River, and rare dog burial site

RESOURCE TYPE: Cultural
REGION/LOCATION: Rincon Mountain Foothills Archaeological District
DESCRIPTION: Listed on the National Register for protection of important cultural resources

RESOURCE TYPE: Cultural
REGION/LOCATION: Sutherland Wash Archaeological District
DESCRIPTION: Listed on the National Register for protection of important cultural resources
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Conservation Priorities