


Possible Projects



Study:

- census / inventory
- seasonal changes
- tracks & scat
- habits
- invasive/exotic species
- pollinators



Animals:


- Birds
- Mammals/Bats
- Reptiles
- Amphibians
- Invertebrates (insects, arthropods, etc.)

Possible Projects



Plants

- Trees
- Shrubs
- Grasses
- Flowers



Study:

- transect / quadrant counts
- landcover change
- response to climate
- create dichotomous key
- invasive/exotic species

Possible Projects

Water Quality

- Temperature
- pH
- TDS/conductivity
- Transparency
- Alkalinity
- Dissolved oxygen
- Nitrates & Phosphates



Macroinvertebrates



Monitor:

- stream water quality
- aquatic health assessment




Possible Projects

- **Geomorphology**
 - Channel geometry
 - Sediment transport
 - Wet/Dry mapping
 - Ephemeral channels
 - Flood/erosion impacts
- **Stream Restoration**
 - Channel stabilization
 - Habitat restoration
 - Long-term monitoring

Target or Priority sites

<p>Cities</p> <ul style="list-style-type: none"> - Rio Salado, Tempe Town Lk - Gilbert, Tres Rios, & Sweetwater Wetlands - Agua Caliente - Sabino Canyon <p>San Pedro</p> <ul style="list-style-type: none"> - Middle / Grey Hawk Ranch - Aravaipa <p>Santa Cruz</p> <ul style="list-style-type: none"> - Rio Rico, Tubac, Marana - Patagonia Lake S.P. 	<p>Colorado Verde</p> <ul style="list-style-type: none"> - Prescott Area Rivers - Beaver, Oak, Fossil & Sycamore creeks - Dead Horse S.P. <p>Gila & San Francisco</p> <ul style="list-style-type: none"> - Safford, San Carlos, <p>Agua Fria</p> <ul style="list-style-type: none"> - Horsethief Basin
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Photo Log of Projects & Trainings

- **AZrivers Workshop - Phoenix 2007**
 - Components of Riparian Restoration & Monitoring
 - Water Quality Testing - chemical & biological
 - Channel Slope & Morphology
 - Ecological Sampling Techniques (plants, birds, etc.)
 - Student Research & Field Work
 - Possible Research Projects & Mentors





AZrivers Workshop - Phoenix 2007

- Rio Salado




AZrivers Workshop - Phoenix 2007

- Macroinvertebrate Identification & Analysis

AZrivers Workshop - Phoenix 2007

- Mentors




Photo Log of Projects & Trainings

- Santa Cruz Restoration Project: N. Simpson Farm
Tucson Audubon Society & Mt. View H.S.
 - Water harvesting techniques
 - Germination & Revegetation study
 - Rapid Biological Assessment
- Inquiry & Water Issues Training (IWI) -
San Pedro River, Phoenix Zoo & Rio Grande
- AZrivers Summer Workshop - Phoenix 2007




Photo Log of Projects & Trainings

- Santa Cruz Restoration Project: N. Simpson Farm
Tucson Audubon Society & Mt. View H.S.




Planning the Project

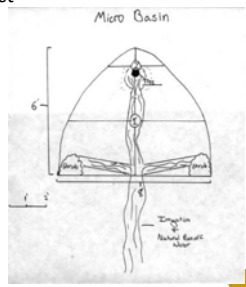


Santa Cruz Restoration Project

- Water Harvesting Project




Building a swale



Micro Basin

Designing a micro-basin



Santa Cruz Restoration Project

- Water Harvesting Project



Constructing a Micro-Basin



Santa Cruz Restoration Project

- Revegetation Project: native plant grow-out and comparison study between pot-grown and tube-grown





Santa Cruz Restoration Project

- Revegetation Project: seeding of native plants




Constructing clay balls containing native seeds for dispersal at site after land imprinting







Photo Log of Projects & Trainings

- **Inquiry and Water Issues Workshop**
 - Graduate-level course for teachers with focus on
 - Basic Hydrologic Principles
 - Methods of Inquiry Instruction
 - Investigation of Environmental Issues & Techniques to Develop Student-driven Research
 - Water Quality Testing Protocols
 - Care and Feeding of Groundwater Models (also their terrific use as an avenue to inquiry methods of teaching the relationship between surface water and groundwater ☺)








Inquiry and Water Issues Workshop

- Water Quality Testing

Inquiry and Water Issues Workshop

- Groundwater Inquiry Investigations

Inquiry and Water Issues Workshop

- Training in Field Research



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