Environmental Water Demand
AZ Water Resources Development Commission

- Environmental Committee Report
- Population Committee Report
- Supply and Demand Committee Report
- Finance Committee Report
- Legislative Recommendations Committee Report
ENVIRONMENT COMMITTEE REPORT

- Identifies current water-dependent natural resources by basin/county
- Identifies conditions necessary to support them
- Recommendations
  - Additional research and data collection
  - Include potential impacts to water-dependent natural resources in evaluation of future water supply options.
Quick Facts
from WRDC EC report

- 51 groundwater basins
- More than 5,000 miles of perennial flow
- Upwards of one million acres of riparian habitat
- More than $3.4 billion generated from wildlife-based recreation and bird watching activities
- 181 of the sensitive wildlife species tracked by agencies require water-dependent habitats
5,000 + miles of perennial rivers

At-risk basins in 2035

Source: Arizona Water Resources Development Commission 2011
Sustainable Water Management in the Southwestern United States: Reality or Rhetoric?


The Nature Conservancy Center for Science and Public Policy, Tucson, Arizona, United States of America

Figure 1. Locations of study watersheds and USGS gages.
doi:10.1371/journal.pone.0011587.g001
Baseflow Demand Under Four Growth Scenarios

100% of river baseflow

Source: Marshall and others. PlosOne 2010
Verde Example

- Flow Targets
- Voluntary and local solutions
- Water Fund
- Verde River Exchange
San Pedro Example

- Recharge – Effluent and UER
- Community aspects