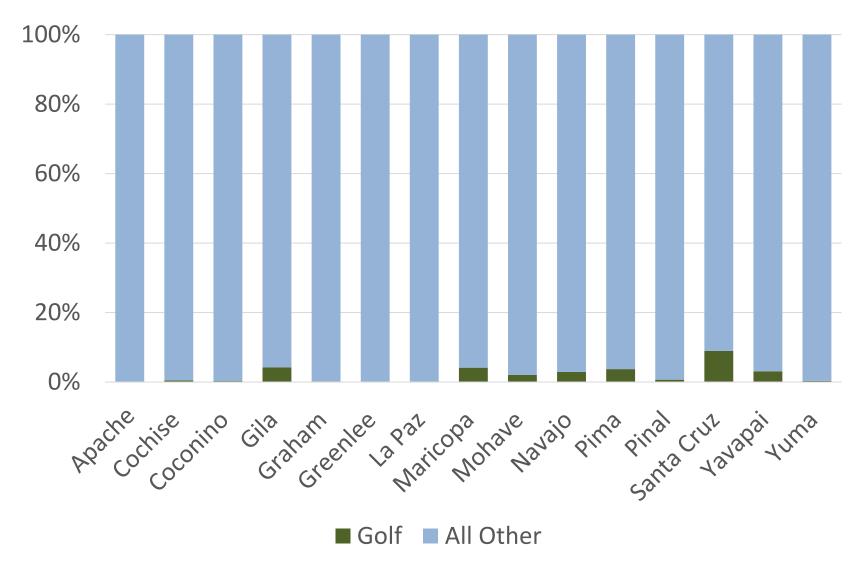
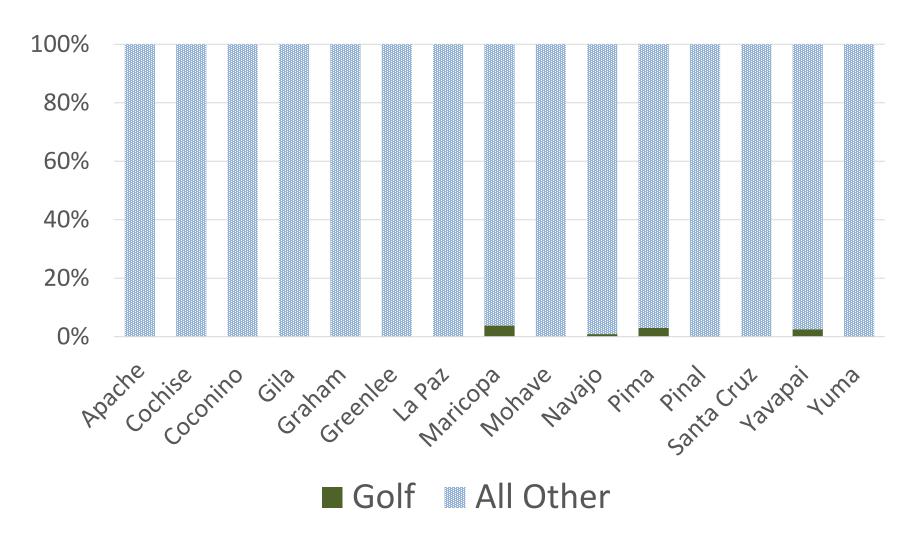
AZ Total Freshwater Withdrawals: Golf Vs. All Other Uses

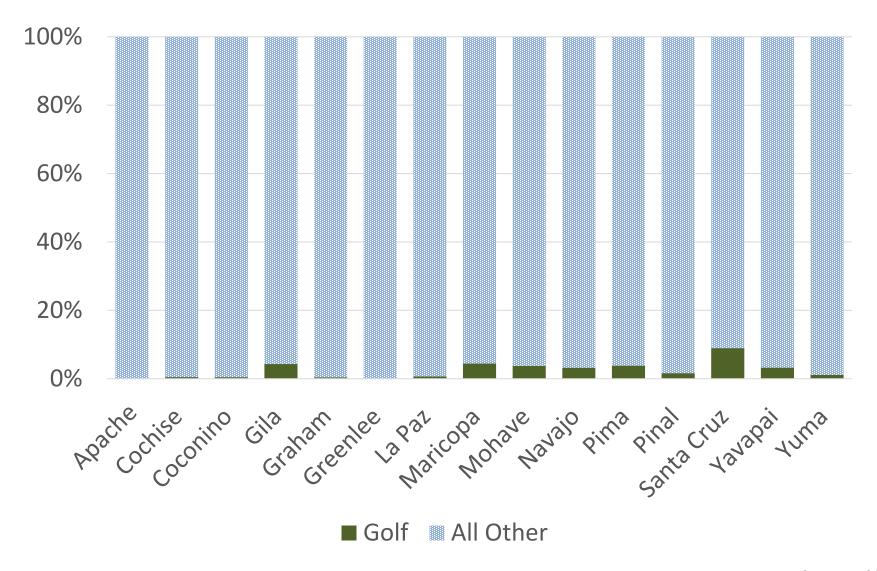


AZ Surface Water Withdrawals: Golf Vs. All Other Uses



Source: USGS

AZ Groundwater Withdrawals: Golf Vs. All Other Uses



New CE Golf Study Due in December

- Study will estimate economic contribution of golf industry to Arizona, including:
 - Golf course facilities
 - Golf-related tourism
 - Golf retail establishments
 - Home price premiums
- Estimates direct and indirect economic contribution of golf industry to
 - Sales
 - Jobs
 - Employee Compensate
 - Value Added (contribution to GDP)
 - State & Local Tax Revenues

Golf Facility Survey

- Major component of economic contribution study is online survey collecting information from 300+ golf course facilities in state
- Presents questions on golf course facility operations in calendar year 2014
- Specific questions in survey for key personnel
 - Lead Superintendent
 - General Manager
 - Lead Golf Professional
- Superintendent section includes questions on:
 - General course information
 - Course maintenance expenses
 - Water use and conservation practices

Why a Golf Survey?

- Department of Commerce (& other government sources) undercount the economic contribution of the golf industry
 - Commerce reports only 231 golf establishments in 2014
 - Commerce: 11,000 jobs; BLS: 9,000 jobs in 2014
 - Golf operations "hidden" in economic accounts covering hotels and casinos (>300 facilities in AZ)
 - Relying of government statistics alone will significantly underestimate economic contribution of the golf industry
- Last AZ golf survey 10 years old
- USGS county-level data on golf course water use
 - Last survey 2010; expected release of 2015 data is 2019
 - Measures withdrawals but not adoption of conservation practices
 - Does not consider reclaimed water use

AZ Golf: 2012 Economic Census Data

- Figures below do <u>not</u> include courses at resorts or municipal courses
- 226 Establishments
- \$601 million in cash receipts
- > 11 thousand jobs
- \$235 million in annual payroll

Home Price Premiums

Premiums

- Past research has shown premiums are proportional to baseline home values
- Dollar value of premium fluctuates with underlying property values
- Preliminary "Back of the Envelope" estimates
 - Premiums on order of \$1.8 billion in AZ
 - About 12% lower than 2006 (before housing bubble burst)
 - Have recovered significantly since 2009

Golf Study Questions & Contact

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Additional Water-Related Publications



