



### Comment Form

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Katta Last Name: Mappe

Mailing Address: PO Box 90254

City: Tucson State: AZ Zip code: 85752

Phone: 304-4812 Email: creeya@comcast.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>4.5</u>	(e.g., Land Use 4.1)
Page Number:	<u>4.16</u>	(e.g., Page 4.3)
Goal Number:	<u>2 + 3</u>	(e.g., Goal 3)
Policy #:	<u>2(1) 3(2)</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Housing in Robles Junction: No longer  
affordable because of redesignation  
of flood plain areas. Now requires  
a \$400,000 platform (can't be part of a loan)  
So old mobile homes crumble on the lots -  
this is infill on existing lots (1980's - 90's)  
Attracting crime

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

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Please bring, fax, email or mail to:

Pima County Development Services Department Attn: Janet Emel  
 201 N. Stone, Public Works Bldg. 2nd Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

## Janet Emel

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**From:** Carla Blackwell  
**Sent:** Thursday, February 26, 2015 1:09 PM  
**To:** Arlan Colton; Janet Emel  
**Cc:** Carmine DeBonis  
**Subject:** RE: Meeting?

I am going to add something into the Chapter on Econ. Dev. For this. Done...

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Arlan Colton  
**Sent:** Thursday, January 22, 2015 10:12 AM  
**To:** Carla Blackwell; Janet Emel  
**Cc:** Carmine DeBonis  
**Subject:** FW: Meeting?

For post-study session

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**From:** Robert Medler [mailto:[RMedler@tucsonchamber.org](mailto:RMedler@tucsonchamber.org)]  
**Sent:** Thursday, January 22, 2015 10:06 AM  
**To:** Arlan Colton  
**Subject:** Re: Meeting?

Arlan,

Mike still has concerns that the plan does not incorporate enough of the following (his words):

Little or no emphasis on the business community's two most important priorities:

- improving permitting and other systems
- streets and roads.

For the first concern can improving the permitting process be included under section 6.1, Goal #3? It would seem like a natural fit and an easy way to directly approach this concern.

Transportation funding focus could fit under the same section, but Goal #8. One of the things we hear consistently from those in logistics is how the roads wear and tear on their vehicles. Increased funding to road maintenance supports our region's ability to be a key transportation and logistics center.

Thanks.

Robert

Robert Medler, IOM

VP Government Affairs  
Tucson Metro Chamber  
o: (520) 792-1212

**From:** Arlan Colton <[arlan.colton@pima.gov](mailto:arlan.colton@pima.gov)>  
**Date:** Thursday, January 8, 2015 at 07:37  
**To:** Robert Medler <[RMedler@tucsonchamber.org](mailto:RMedler@tucsonchamber.org)>  
**Cc:** Linda Morales <[Linda.Morales@pima.gov](mailto:Linda.Morales@pima.gov)>, 'Maria Masque' <[mmasque@azplanningcenter.com](mailto:mmasque@azplanningcenter.com)>, Carla Blackwell <[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)>  
**Subject:** Meeting?

Hi Robert.... Happy new year. Just following up. Did you and Mike Varney want to meet regarding roads, economic development or anything else about the plan? I know some concerns were raised about roads and economic development, so just wanted to circle back if you wanted that. Let me know either way. Thanks.

Hope all is well.

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

5-27-14

## Robles Junction

The mapped flood plain is creating hardship

- Can't get a floodplain permit

- Housing Program - neglected because need help getting the platform - elevation doublewide \$10k to 8,000

- Home Invasions

- 3 Different sex offenders

- Sasale Drug user

- Abandon the trailers

\* Own

- lots - value of lot Restriction are a problem

- 2010 Floodplain restrictions so people can't replace

Can't get a loan for the platform

3 - Pts First Place to hit

Housing assistance

Infill on private lots

Interpretation or is this real?

Waivers?

5-30-14

# PIMA PROSPERS

## Comment Form

Date: 5/30/14

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Marie Last Name: Reilly

Mailing Address: 300 W. Pocatello Ave

City: Sierra Vista State: AZ Zip code: 85321

Phone: 704-575-0534 Email: marie\_mer@yahoo.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_  
Page Number: \_\_\_\_\_  
Goal Number: \_\_\_\_\_  
Policy #: \_\_\_\_\_

(e.g., Land Use 4.1)  
(e.g., Page 4.3)  
(e.g., Goal 3)  
(e.g., Policy 3)  
*1. section 5.3  
Energy Element  
2. section 6.8  
Food Element*

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

*1. The city relies on a deep well for our water supply. Currently we have a couple of back-up tanks and generators that are used when the grid come down. I would like to see solar panels installed as a sustainable back-up source of power for this VITAL resource - WATER. When the grid is running the excess could be over*

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to:

Pima County Development Services Department Attn: Janet Emel  
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Tucson, Arizona 85745  
Fax: 520-623-5411  
Janet.Emel@pima.gov

Sold back to the Power Co.

?? - Duke energy could be approached to see about helping with this project. They currently own the solar panels outside of Ajo producing 5mgw of energy.

Eventually I could see expanding the solar to include all important community facilities and even the entire town. Ajo could be a Model community for sustainability!

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#2 Continue to support & develop a healthy food culture supporting community gardens CSA's, local food production. Ajo has many vacant lots & houses that could be purchased for very little and turned into food producing gardens.

# PIMA PROSPERS

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: George Last Name: Costuck

Mailing Address: 201 W. Esperanza Ave #1107

City: AJU State: AZ Zip code: 85321

Phone: 520 387-4393 Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

It was a good idea to include thoughts  
about Human Infrastructure, we must never forget  
the Human Element. Brown-fields Program is a  
good idea. Support of increased utilization of Clean  
Alternative energy systems. We should set up  
a recycling Program. Address needs of County's aging population

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

5-30-14



Comment Form

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Don Morales Last Name: \_\_\_\_\_

Mailing Address: 241 W. Maronda

City: Tjo State: Az Zip code: 85301

Phone: 520-740-5794 Email: temptdon@hotmail

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: _____	(e.g., Land Use 4.1)
Page Number: _____	(e.g., Page 4.3)
Goal Number: _____	(e.g., Goal 3)
Policy #: _____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Student Housing for Pima College, student b.  
Career Schools.

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In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

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 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Lil Last Name: JONES

Mailing Address: 250 W NORTH

City: TJO State: AZ Zip code: 85321

Phone: 520 387 5928 Email: liljones@tabletoutphones.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

roadways (motorists) at Education Center  
track around existing fields.

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In which planning area do you live? (Check the planning area map or ask staff) TJO

Comments on the Special Area Policies or the Maps:

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Pima County Development Services Department Attn: Janet Emel  
 201 N. Stone, Public Works Bldg. 2<sup>nd</sup> Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

5-30-14



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: TINA Last Name: WEST

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
 Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
 Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
 Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

MAP - NORTH OF RASHUSEN CONSIDER  
REDESIGNATING NORTH OF  
RASHUSEN TO MAINTAIN RURAL  
CAN'T DO MUCH ANYWAY AS  
THERE IS NO SERVICE

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Please bring, fax, email or mail to:

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 201 N. Stone, Public Works Bldg. 2nd Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

5-30-14



Comment Form

Date: May 30, 14

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Virginia Last Name: Schnell

Mailing Address: 671 N. Sartillion Ave

City: Alt State: AZ Zip code: 85321

Phone: 520-387-7193 Email: ginget-schnell@hotmail.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

better use of senior center - where seniors can  
stay most of the day - not just visit etc.  
More places to eat - more things - restaurants  
bike paths, walking paths for seniors  
that have flat surfaces.  
another grocery stores - stores where you can  
buy clothing, shoes

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel  
 201 N. Stone, Public Works Bldg. 2nd Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov



Comment Form

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Gail Last Name: Culver

Mailing Address: PO Box 801

City: Ajo State: AZ Zip code: 85320

Phone: 520 387 792 Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Better access to reports + plans reading copy  
for people who do not work with computers  
Perhaps make area pertinent materials available by  
mail for a fee.  
it is hard to check enough material and respond  
at an "open house"

In which planning area do you live? (Check the planning area map or ask staff) Ajo

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel  
 201 N. Stone, Public Works Bldg. 2<sup>nd</sup> Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

5-30-14



Comment Form

Date: 5/30/2014

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Jacob Last Name: Lewis

Mailing Address: 101 W 4th Ave,

City: ASD State: AZ Zip code: 85321

Phone: 602-919-3317 Email: JacLew123@gmail.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u># 4.1</u>	(e.g., Land Use 4.1)
Page Number:	<u>Page 4.2</u>	(e.g., Page 4.3)
Goal Number:	<u>Goal 1</u>	(e.g., Goal 3)
Policy #:	<u>Policy 14</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Regarding the Freeport McMoran land in ASD. Do you have any plans to work with Freeport to possibly use this land to better help this community?

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In which planning area do you live? (Check the planning area map or ask staff) 13

Comments on the Special Area Policies or the Maps:

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 201 N. Stone, Public Works Bldg. 2nd Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

5-30-14



Comment Form

Date: 5-30-14

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Billie Last Name: McCORMICK

Mailing Address: P.O. Box 5

City: ATO State: AZ Zip code: 85321

Phone: 520-387-6610 Email:

Do you wish to be on our mailing list? [X] Yes [ ] No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)
Page Number: \_\_\_\_\_ (e.g., Page 4.3)
Goal Number: \_\_\_\_\_ (e.g., Goal 3)
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

WE NEED A BUILDING WHERE SENIOR CITIZENS CAN spend THE DAY VISITING - play games & CARDS.

WE NEED DIFFERENT PLACES TO GO OUT TO EAT.

WE NEED ANOTHER GROCERY STORE

In which planning area do you live? (Check the planning area map or ask staff)

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_
\_\_\_\_\_
\_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel
201 N. Stone, Public Works Bldg. 2nd Floor
Tucson, Arizona 85745
Fax: 520-623-5411
Janet.Emel@pima.gov

6-2-14



Comment Form

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: SANDY Last Name: WHITEHOUSE

Mailing Address: 139 W Camino del Emperador

City: Corona de Tucson State: AZ Zip code: 85731

Phone: 520-762-6545 Email: dadlaca14@psnet.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

We love the by pass from I19 to I10  
going to route 120 I10 and road  
Good idea to pre plan for  
commercial area at Hangout  
Swanton Rds

In which planning area do you live? (Check the planning area map or ask staff) 7

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel  
201 N. Stone, Public Works Bldg. 2nd Floor  
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Fax: 520-623-5411  
Janet.Emel@pima.gov



# PIMA PROSPERS

Comment Form

Date: \_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Anonymous Last Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: Tucson/Kirk-Bear State: Arizona Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: _____	(e.g., Land Use 4.1)
Page Number: _____	(e.g., Page 4.3)
Goal Number: _____	(e.g., Goal 3)
Policy #: _____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

I would like to see more solar panel installations on government & public buildings.

I would also like to see you encourage more wind farms to produce electricity.

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to:

Pima County Development Services Department Attn: Janet Emel  
201 N. Stone, Public Works Bldg. 2<sup>nd</sup> Floor  
Tucson, Arizona 85745  
Fax: 520-623-5411  
Janet.Emel@pima.gov

submitted by staff member, on behalf of anonymous attendant.



Comment Form

Date: \_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: James Last Name: Caldwell

Mailing Address: P.O. Box 69534

City: TUCSON State: AZ Zip code: 85737-0022

Phone: 520-333-6524 Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	<u>X</u> _____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Well Thought out - Look forward to the final document.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

In which planning area do you live? (Check the planning area map or ask staff) Oro Valley

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to:

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 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov



Comment Form

Date: 10/3/14

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: CHARLES Last Name: BUSS

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: 85749

Phone: 520 749 0326 Email: CharlesBuss@cox.net

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

EVERY HOUSE SHOULD HAVE SOLAR HOT WATER SYSTEMS - THATS ALL HOUSES

*Charles H. Buss*

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Nancy Last Name: Von ~~hart~~ Von Wald

Mailing Address: 5471 E Cloud

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

*Happy Comment!*

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Carla Blackwell *Happy Comment!*  
Arlan Colton  
Chris Poirer - nice  
*also*  
Answered every question and repeated themselves without getting impatient with me - what a great open house! Got a lot of

In which planning area do you live? (Check the planning area map or ask staff) much needed info.

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to:

Pima County Development Services Department Attn: Janet Emel  
201 N. Stone, Public Works Bldg. 2nd Floor  
Tucson, Arizona 85745  
Fax: 520-623-5411  
Janet.Emel@pima.gov



Comment Form

Date: 6-3-17

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Carolyn Last Name: Classon

Mailing Address: 2413 E. 42<sup>nd</sup> St.

City: TUC State: AZ Zip code: 85719

Phone: 327-7609 Email: carolynclasson@yahoo.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

1- No parity between libraries - go  
with So. Tucson library &  
then Oro Valley or Miller golf clubs.  
So unfair.

2- Fix the asphalt roads.

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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 Fax: 520-623-5411  
 Janet.Emel@pima.gov



Comment Form

Date: 6/3

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Martha Last Name: MARTIN

Mailing Address: 4461 E Gianthus PL

City: TUS State: AZ Zip code: 85712

Phone: 820-5822 Email: marthatuson@gmail.com

Do you wish to be on our mailing list? [X] Yes [ ] No already

Please specify to what policy or issue your comments apply:

Section #: L.P.8 (e.g., Land Use 4.1)
Page Number: 6.14 (e.g., Page 4.3)
Goal Number: 2 (e.g., Goal 3)
Policy #: 1 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

This GOAL may make more sense & have greater impact @ 6.1 as a Goal #7. As part of the Food Production Element, it's limited in its impact. Currently,

Also, under 6.8. Food Production Element, consider adding a GOAL: Support MOBILE FOOD MARKETS and rehab of commercial blads into local grocers.

Policy 1: Conduct county assessment of need/demand for mobile food trucks, and grocers.

In which planning area do you live? (Check the planning area map or ask staff)

Comments on the Special Area Policies or the Maps:

Policy 2: Support innovative, collaborative efforts to develop these food retail outlets.
Policy 3: Invite the Food Trust to help develop viable projects.

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Comment Form

Date: 6-3-

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Laura Last Name: Helmach

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Just a comment to make sure enough  
churches are available so that people  
Not yet overcrowded at mine

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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5-28-14



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Dot Last Name: Estler

Mailing Address: PO Box 247

City: Cortez State: AZ Zip code: 85652

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>6</u>	(e.g., Land Use 4.1)
Page Number:	<u>6.2</u>	(e.g., Page 4.3)
Goal Number:	<u>5</u>	(e.g., Goal 3)
Policy #:	<u>1</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Missing a policy to address the issue of dementia  
with growing aging population = increase in #  
of people with dementia - not included as  
behavior health ~~is~~ or mental health issue  
but needs to be addressed.

In which planning area do you live? (Check the planning area map or ask staff) Picture Rocks

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please bring, fax, email or mail to:

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 Tucson, Arizona 85745  
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 Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Mary Last Name: Salgado

Mailing Address: 5300 N Buffalo Trail

City: TUCSON State: AZ Zip code: 85743

Phone: 520 465-7875 Email: picturerocksrhn@gmail.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>6</u>	(e.g., Land Use 4.1)
Page Number:	<u>4.4</u>	(e.g., Page 4.3)
Goal Number:	<u>9</u>	(e.g., Goal 3)
Policy #:	<u>1</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Aging in place in a rural area like picture rocks  
can be problematic due to transportation  
People are no longer able to drive their own car  
Can the County fund non profits with  
Shuttle buses?

Ease zoning for elderly owners so a care taker  
could live on land in Mobile home.  
Get Mobile homes to elderly people who need help.

In which planning area do you live? (Check the planning area map or ask staff) Picture Rocks

Comments on the Special Area Policies or the Maps:

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 Fax: 520-623-5411  
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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Dot Last Name: Eslere

Mailing Address: PO Box 267

City: Cortaro State: Az Zip code: 85652

Phone: 520 903 3912 Email: deslere@pima.gov

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 4 (e.g., Land Use 4.1)  
Page Number: 4.16 (e.g., Page 4.3)  
Goal Number: 1 (e.g., Goal 3)  
Policy #: 1 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Interested in making some the zoning requirements in  
Picture Rocks area allow for multi-generational  
use of an acre - apt in garage / 2nd mobile on  
property  
perhaps write a policy to support flexible zoning for  
multigenerational land use

In which planning area do you live? (Check the planning area map or ask staff) Picture Rocks

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>4</u>	(e.g., Land Use 4.1)
Page Number:	<u>4.2</u>	(e.g., Page 4.3)
Goal Number:	<u>3</u>	(e.g., Goal 3)
Policy #:	<u>15</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Land use:

→ Policy 15 - Residents of Picture Rocks are interested in having assistance from county to develop a community plan - Don't want to be told "Figure it out and let us know"

In which planning area do you live? (Check the planning area map or ask staff) Picture Rocks

Comments on the Special Area Policies or the Maps:

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Jason Last Name: Brown

Mailing Address: 4609 W. Sandario Rd

City: Tucson State: AZ Zip code: 85743

Phone: 520-666-7090 Email: jbrown@prccincorporated.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 5.1 (e.g., Land Use 4.1)  
Page Number: 5.2 (e.g., Page 4.3)  
Goal Number: 4 (e.g., Goal 3)  
Policy #: 1-4 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Picture Rocks, now being acknowledged as a Census Designated Place, transportation is now fundamental to its growth & sustainability.

In which planning area do you live? (Check the planning area map or ask staff) 1 Picture Rocks

Comments on the Special Area Policies or the Maps:

Picture Rocks is growing & needs an infusion of funds to develop transportation & infrastructure.

Please bring, fax, email or mail to:

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Carol Owens Last Name: \_\_\_\_\_

Mailing Address: 1225 S W Canyon

City: Tucson State: AZ Zip code: 85743

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Pg 3.3 Policy C What does this mean?  
Policies needs to be looked at.  
Transportation P 5.2 need to be emphasized

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Tucson, Arizona 85745  
Fax: 520-623-5411  
Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Chris Last Name: STRAUSS

Mailing Address: 12267 W. Orange Grove Rd

City: Tucson State: AZ Zip code: 85743

Phone: 275-9371 Email: ANDREWSTRAUSS20@gmail.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>6</u>	(e.g., Land Use 4.1)
Page Number:	<u>6.3</u>	(e.g., Page 4.3)
Goal Number:	<u>1</u>	(e.g., Goal 3)
Policy #:	<u>10</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

EXPAND EXISTING COMM. CIR - NEED MORE ACTIVITY SPACE  
 ADD V. 250 IN SUMMER

Shuttle Bus needed

ROADS

In which planning area do you live? (Check the planning area map or ask staff) Pre-Pass

Comments on the Special Area Policies or the Maps:

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Please bring, fax, email or mail to:

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 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Jason Last Name: Brown

Mailing Address: 6601 N. Sendaria Rd

City: Tucson State: AZ Zip code: 85743

Phone: 520-619-7096 Email: jbrown@pcc-incorporated.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 3.3 (e.g., Land Use 4.1)  
Page Number: 3.2 (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Agree with infrastructure placements on proposed section 3+4 of draft

In which planning area do you live? (Check the planning area map or ask staff) 1 picture Rocks

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Curt Last Name: Bertelsen

Mailing Address: 2855 W Master Pieces Dr.

City: Tucson State: AZ Zip code: 85741

Phone: 520-275-5100 Email: cbertelsen@pimajted.org

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 7 (e.g., Land Use 4.1)  
Page Number: 79 (e.g., Page 4.3)  
Goal Number: 7.4 (e.g., Goal 3)  
Policy #: 2 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

P 7.9 Policy 2: Add career exploration grades  
7-9

P 7.9 Policy 2g: Pima JTED could (for example)  
share a facility with High School students  
in daytime, Adults in evenings etc.

P 7.9 Policy 2g: Add "Business & Industry" as a partner

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Kenny Last Name: Baldwin

Mailing Address: NRPR

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

*Land Use Maps*

Section #: \_\_\_\_\_ (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: \_\_\_\_\_ (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

*\* Look at the maps*

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

*Make sure that all Pima County owned open space is not as "Preserves" But as Parks Designated Parks allows NRPR to cite trespassers etc*

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Fax: 520-623-5411  
Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Carol Last Name: Duffner

Mailing Address: 3910 W Potvin Ln.

City: Tucson State: Az Zip code: 85742

Phone: 744-6880 Email: lduffner@g.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>4.1, 5.1</u>	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

want land use ie SR to continue to be in effect with LU43 the infrastructure, schools are not set up to handle denser zonings

the expansion of Thornydale from 2 lane to 4 north of Cortaro is important as the school traffic from Tortolita & Mt. View is very heavy  
In which planning area do you live? (Check the planning area map or ask staff) 11 land use

Comments on the Special Area Policies or the Maps:

it is important to have bike paths and walking paths available for students and residents

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Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Curt Last Name: Bertelsen

Mailing Address: 2855 W. Master Pieces

City: Tucson State: AZ Zip code: 85741

Phone: 520 275-5100 Email: cbertelsen

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>6</u>	(e.g., Land Use 4.1)
Page Number:	<u>6.9</u>	(e.g., Page 4.3)
Goal Number:	<u>1</u>	(e.g., Goal 3)
Policy #:	<u>4</u>	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Policy 4 Add J.T.E.D.

Add Policy - encourage internships -  
H.S. JTED students w/ Industry.

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Janet.Emel@pima.gov



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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Karen Last Name: Walsh

Mailing Address: 4210 W. Potvin Ln

City: Tucson State: Az Zip code: 85742

Phone: 520-405-3410 Email: mikeandmahoney@aol.com

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 4.1 (e.g., Land Use 4.1)  
Page Number: \_\_\_\_\_ (e.g., Page 4.3)  
Goal Number: 4 (e.g., Goal 3)  
Policy #: \_\_\_\_\_ (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

- Land Use: my concern is keeping current SR zonings in tact. Future land use + zoning will be sensitive to the surrounding communities.
- Transportation - improve + widen Thornydale Rd to accommodate traffic on that road. Provide bike lanes on Thornydale as a safety issue. Build walking paths on West side of Thornydale.

In which planning area do you live? (Check the planning area map or ask staff) Planning Area 11

Comments on the Special Area Policies or the Maps:

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Robert Last Name: Bulechek

Mailing Address: 2789 N Treat Ave

City: Tucson State: AZ Zip code: 85716

Phone: 570 302 4636 Email: rbulechek@Energy - Man Biz

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 5.9 (e.g., Land Use 4.1)  
Page Number: 571 (e.g., Page 4.3)  
Goal Number: 1 (e.g., Goal 3)  
Policy #: 0 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Language should say that drainage improvements should  
"improve" existing drainage problems, "Not worsen"  
isn't enough.

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Kerry Last Name: Baldwin

Mailing Address: 3500 W. River Rd

City: Tucson State: AZ Zip code: 85741

Phone: 877-6161 Email: Kerry.Baldwin@pima.gov

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #: 6.8 (e.g., Land Use 4.1)  
Page Number: 6.13 (e.g., Page 4.3)  
Goal Number: 4 (e.g., Goal 3)  
Policy #: 1 (e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

Need to expand policy to include meat/plant processing. There is lack of capacity to process meat in SF AZ. Local ~~agg~~ producers have to travel great distances to get beef, lamb, swine, poultry slaughtered, processed, packaged - stored. Only USDA certified plants or can't control demand.

In which planning area do you live? (Check the planning area map or ask staff) NA Regional  
ISSUE

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel  
201 N. Stone, Public Works Bldg. 2nd Floor  
Tucson, Arizona 85745  
Fax: 520-623-5411  
Janet.Emel@pima.gov

5/21/14



### Comment Form

We invite you to review and comment on the first draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan. Your feedback is welcomed and appreciated! Thank you in advance!

Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: Thomas Last Name: Purdon

Mailing Address: 706 E. Bent Branch Place

City: Green Valley State: AZ Zip code: 85614

Phone: 648-7080 Email: TFPURDON@cox.net

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	<u>5.1</u>	(e.g., Land Use 4.1)
Page Number:	<u>5.2</u>	(e.g., Page 4.3)
Goal Number:	<u>2</u>	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

This comment is germane to 5.1 / GOAL 2 - Now that there is a destination PARK (CANOA) & BALL FIELDS (CATINO) at the end of CAMINO de LA CANOA Rd, there is MAJOR need for road repairs & MAINTANCE. I have lived off the Road (in Madera Foot Hills Estate) for 12 yrs, & there has never been anything done except for a rare pot hole fill. The road is coming apart FASTER now.

In which planning area do you live? (Check the planning area map or ask staff) \_\_\_\_\_ (OVER)

Comments on the Special Area Policies or the Maps:

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 201 N. Stone, Public Works Bldg. 2nd Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

The park is being promoted for additional amenities, picnic Ramadas, dog PARK, walking hiking trails, etc. - So there will be even more traffic & further road issues - A chip seal type of repair is needed now, or if not done soon - a complete re-milling of the road and base will become necessary.

There is one other issue - Safety - There is a dangerous, tight curve at the bottom of a hill between HOAs Madera Shadows & Madera Foothills Estates. There has been one death on that curve already (5+ yrs ago) - However there needs to be an "APRON" added at that curve because there is no room for two cars to meet on the curve and avoid a bicyclist at the same time - We have personally experienced a "near miss" and been forced off the road in our car by another car going too fast & not being able to stay in their lane. It is only a matter of time before there is another fatality; not a good advertisement for the new destination Park!!





### Comment Form

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Contact Information (Please provide information below. It will allow us to contact you if we have questions)

First Name: STEPHEN Last Name: GRAHAM

Mailing Address: P.O. Box 8796

City: CATALINA State: AZ Zip code: 85738-0796

Phone: 825-0386 Email: LANTOCAN@GAINUSA.COM

Do you wish to be on our mailing list?  Yes  No

Please specify to what policy or issue your comments apply:

Section #:	_____	(e.g., Land Use 4.1)
Page Number:	_____	(e.g., Page 4.3)
Goal Number:	_____	(e.g., Goal 3)
Policy #:	_____	(e.g., Policy 3)

Comments on the Draft Policies: (if necessary, continue on the back of this sheet)

\* NEW POLICY N. OF ORACLE N. OF THISTLE IN CATALINA -  
COUNTY SHOULD WORK WITH ADOT TO PROVIDE SOUND WALL  
ALONG PROPERTIES ALONG ORACLE RD HIWAY.  
- ADOT KEEPS COMING DIFFERENT STORIES  
ON WHY THEY CAN'T HAVE ONE  
(DENSITY, COST, SOUND MEASUREMENTS)

In which planning area do you live? (Check the planning area map or ask staff) 11

Comments on the Special Area Policies or the Maps:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Please bring, fax, email or mail to: Pima County Development Services Department Attn: Janet Emel  
 201 N. Stone, Public Works Bldg. 2<sup>nd</sup> Floor  
 Tucson, Arizona 85745  
 Fax: 520-623-5411  
 Janet.Emel@pima.gov

**From:** [Laura Penny](#)  
**To:** [Arlan Colton](#)  
**Cc:** [Janet Emel](#)  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**Date:** Tuesday, October 21, 2014 3:18:44 PM

---

Perfect! Thanks, Arlan.

Laura

---

**From:** Arlan Colton [mailto:Arlan.Colton@pima.gov]  
**Sent:** Tuesday, October 21, 2014 2:59 PM  
**To:** Laura Penny  
**Cc:** Janet Emel  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Thanks Laura, and good to hear from you! It does. It is covered in Chapter 1 under Vision, mentioned elsewhere as well, and the link is given to the entire vision as we just had to summarize. As it turns out, there are not many land use changes in the unincorporated area where we could do anything sweeping to change the land use pattern, which is mostly set. However the policies I think are indicative of creating a healthy community and moving toward implement of the Vision. Much will need to be done inside incorporated communities, particularly. After you peruse the document, if you have any comments, thoughts or suggestions, let us know before the end of the calendar year.

Thanks much,

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

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**[www.pimaprospers.com](http://www.pimaprospers.com)**

---

**From:** Laura Penny [<mailto:lpenny@womensgiving.org>]  
**Sent:** Tuesday, October 21, 2014 1:13 PM  
**To:** Arlan Colton  
**Subject:** FW: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Hi Arlan,

I haven't had a chance to read this in any depth, but I am hoping that the findings from Imagine Greater Tucson informed the planning process and are cited in the comprehensive plan. That is yet another way for the county to consider public input, since many of us (including you!) spent many hours soliciting public input and comment as IGT volunteers.

Thank you,  
Laura Penny

---

**From:** Janet Emel [<mailto:Janet.Emel@pima.gov>]  
**Sent:** Tuesday, October 21, 2014 1:06 PM  
**To:** Janet Emel  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Hello,

-  
Pima County has been in the process of preparing a draft update to the Pima County Comprehensive Plan - called "Pima Prospers". If approved, Pima Prospers is to be our plan looking ahead about 20 years into the future. It has been built on the ideas of hundreds of Pima County residents from Ajo to Vail, Catalina to Arivaca Junction, many business and citizen interests in our communities, representatives from the other jurisdictions in the region, and more than 100 county staff members from many departments.

With the much-appreciated participation by many of you, Pima County Development Services Department – Planning Division presents Pima Prospers Draft 2 – the proposed update to the Pima County Comprehensive Plan as found on the website [www.pimaprospers.com](http://www.pimaprospers.com). The website will look different but is intended to be very user friendly for your review of the draft plan.

Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but as you may be aware, is absent some parts that must come later, after public review (e.g. fiscal impact study).

We are now undergoing the 60-day review period. **Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014 (but of course, the earlier the better).**

If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at (520)724-9000.

-  
Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

*Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)*

**From:** [Arlan Colton](#)  
**To:** [Valenzuela, Dr. Manuel O.](#); [Carla Blackwell](#)  
**Cc:** [Janet Emel](#)  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**Date:** Tuesday, October 21, 2014 2:54:15 PM

---

I appreciate your comments. We'll take a look at seeing what we can do.

Thanks!  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

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[www.pimaprospers.com](http://www.pimaprospers.com)***

**From:** Manny Valenzuela [mailto:mvalenzuela@sahuarita.net]  
**Sent:** Tuesday, October 21, 2014 1:37 PM  
**To:** Arlan Colton; Carla Blackwell  
**Subject:** Fwd: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Thanks for sharing this comprehensive and informative document. It is certainly very impressive and reflective of a most detailed and methodical process.

I suggest that, in any way that it fits, the importance of the K-12 school community and strategic partnerships, field experiences, and intentional planning efforts be part of the plan. This may be a valuable piece in regional alignment and growth of congruent educational programs, economic development, workforce development, and overall quality of life.

Again, thanks for your hard work with this effort, and for the opportunity to share.

Sincerely,

Manuel O. Valenzuela, Ed.D.  
Superintendent  
Sahuarita Unified School District  
350 W. Sahuarita Rd.  
Sahuarita, AZ 85629

Ph (520)625-3502 x1001 Fax (520) 625-5380

----- Forwarded message -----

From: **Janet Emel** <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

Date: Tue, Oct 21, 2014 at 1:04 PM

Subject: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

To:

Cc: Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

Hello,

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Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell

Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

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**From:** [Laura Penny](#)  
**To:** [Arlan Colton](#)  
**Cc:** [Janet Emel](#)  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**Date:** Tuesday, October 21, 2014 3:18:44 PM

---

Perfect! Thanks, Arlan.

Laura

---

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**Sent:** Tuesday, October 21, 2014 2:59 PM  
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Thanks much,

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

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**[www.pimaprospers.com](http://www.pimaprospers.com)**

---

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**Sent:** Tuesday, October 21, 2014 1:13 PM  
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Thank you,  
Laura Penny

---

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**Sent:** Tuesday, October 21, 2014 1:06 PM  
**To:** Janet Emel  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

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-  
Thank you,

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Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
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Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

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**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#)  
**Subject:** FW: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**Date:** Tuesday, October 21, 2014 2:52:35 PM

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**From:** Manny Valenzuela [mailto:mvalenzuela@sahuarita.net]  
**Sent:** Tuesday, October 21, 2014 1:37 PM  
**To:** Arlan Colton; Carla Blackwell  
**Subject:** Fwd: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

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I suggest that, in any way that it fits, the importance of the K-12 school community and strategic partnerships, field experiences, and intentional planning efforts be part of the plan. This may be a valuable piece in regional alignment and growth of congruent educational programs, economic development, workforce development, and overall quality of life.

Again, thanks for your hard work with this effort, and for the opportunity to share.

Sincerely,

Manuel O. Valenzuela, Ed.D.  
Superintendent  
Sahuarita Unified School District  
350 W. Sahuarita Rd.  
Sahuarita, AZ 85629  
Ph (520)625-3502 x1001 Fax (520) 625-5380

----- Forwarded message -----

**From:** Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>  
**Date:** Tue, Oct 21, 2014 at 1:04 PM  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**To:**  
**Cc:** Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

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If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at [\(520\)724-9000](tel:5207249000).

Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

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**From:** [Arlan Colton](mailto:Arlan.Colton)  
**To:** [Janet Emel](mailto:Janet.Emel)  
**Subject:** Fwd: River and La Canada  
**Date:** Wednesday, October 22, 2014 7:06:24 AM

---

Sent from my iPhone

Begin forwarded message:

**From:** Bill Ford <[wlf@earthlink.net](mailto:wlf@earthlink.net)>  
**Date:** October 22, 2014, 12:04:26 AM MST  
**To:** Arlan Colton <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Subject: Re: River and La Canada**

Arlon, just to comment on Pima Prospers, I downloaded it. In a nutshell, it is every bit impressive as Plan Tucson. I look forward to a joint plan in 2030. Ed Mazria says that year is marked as a watershed for sustainable success and that means economic health. Every thing we do now needs to move us into that direction. I am glad Pima County has this opportunity. Truly historical. Visit New Mexico's Ed Mazria's site at <http://www.architecture2030.org/> Read it on the plane. I Looking forward to inputting Pima Prospers and I am glad you asked. Bill

---

**From:** Arlan Colton <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Date:** Tuesday, October 21, 2014 5:00 PM  
**To:** William Ford <[wlf@earthlink.net](mailto:wlf@earthlink.net)>  
**Cc:** Chris Poirier <[Chris.Poirier@pima.gov](mailto:Chris.Poirier@pima.gov)>, Jim Cunningham <[Jim.Cunningham@pima.gov](mailto:Jim.Cunningham@pima.gov)>  
**Subject: RE: River and La Canada**

Bill.... I can answer half of your question but not the other half. I apologize for not calling back yesterday, but I've been heavily engaged in getting our comprehensive plan update draft 2 ([www.pimaprospers.com](http://www.pimaprospers.com)) out the door and wrap up in the next 40 minutes before catching a plane tomorrow. I beg forgiveness! So the certificate of compliance is what was provided to indicate compliance enough to get the zoning ordinance changed to commercial. It is subject to the listed zoning conditions from that rezoning case. It is your bible in addition to the regular county ordinances and checklists toward doing a development plan (which has now been changed slightly in terminology). Condition 4 on that list says the d.p. must adhere to the preliminary development plan from the rezoning case, for example.

What I don't know is whether you do a new DP or DP amendment. I have not worked in that area in a while, and the rules have changed. I have copied people who would know the answer... I would ask them but they are all gone for the day. By this email,

I'm asking Jim or Chris to get back to you with the appropriate direction. Thanks for understanding.

And I'd appreciate any feedback you might have on the draft plan if you want to look at it at your leisure this fall. We'll go through the public hearing process next January-April.

Take care, Bill...  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at***  
***[www.pimaprospers.com](http://www.pimaprospers.com)***

---

**From:** Bill Ford [<mailto:wlfa@earthlink.net>]  
**Sent:** Tuesday, October 21, 2014 4:21 PM  
**To:** Arlan Colton  
**Subject:** River and La Canada

Hi Arlan

I am proposing architectural design service to an investor who will develop the west portion of an older DP that was not built out along with Albertsons and a couple small pads. I attached a certificate of compliance with your signature on it given to me by the investor. How does Pima County use this document and how does it relate to the DP? Do we need to do a new DP if we proceed with the undeveloped portion of the original one or change anything? It might be better to talk on the phone

Bill  
**WLFA AND ASSOCIATES LLC**  
1227 N. 3rd Ave, Tucson, Az. 85705  
(520)-623-0364 fax (520)-623-0364  
<http://www.wlfadesign.com>  
<http://www.uuitucson.com>  
[wlfa@earthlink.net](mailto:wlfa@earthlink.net)

**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#); [Carla Blackwell](#)  
**Subject:** Fwd: Pima Prospers  
**Date:** Thursday, October 23, 2014 9:24:22 AM

---

For file. This one will need to be answered, perhaps Carla or you otherwise will handle when I return. Thanks

Sent from my iPhone

Begin forwarded message:

**From:** Marilyn Chico <[stha@theriver.com](mailto:stha@theriver.com)>  
**Date:** October 23, 2014, 11:15:27 AM EDT  
**To:** <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Subject:** Pima Prospers

Good Morning Mr. Colton,

I have reviewed Pima Prospers.

I have a question on Use of Land. The Western section of Tucson has had a huge increase in housing developments (i.e. Star West, Star East, LGI development, DR Horton development, Tucson Estates (older development). What is the County planning for meeting "public needs" as far as convenient shopping? There is a huge population of homeowners who must travel at least 5 or more miles to a decent grocery store.

Also, to "meet social...needs" has the County investigated the building of a recreational center? There are a lot of youth who could use a safe place to meet, play, study, and interact. To date there is no such facility but plenty of open land to build such a center.

Thank you for your time and I look forward to your response.

Sincerely,  
Marilyn L. Chico  
6721 S May Fly Drive  
Tucson, AZ 85757  
520-465-1059

**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#)  
**Subject:** Fwd: Sustainable Communities Collaborative invite  
**Date:** Thursday, October 23, 2014 9:21:51 AM

---

For file.

Sent from my iPhone

Begin forwarded message:

**From:** <[rpsparkmd@cox.net](mailto:rpsparkmd@cox.net)>  
**Date:** October 22, 2014, 11:39:38 PM EDT  
**To:** <[arlan.colton@pima.gov](mailto:arlan.colton@pima.gov)>  
**Subject: RE: Sustainable Communities Collaborative invite**

Hi,Arlan. Thanks for calling my attention to Pima Prospers. I read through the Preamble and Chapter 1 and found the wording clear and the scope exhortatory. I'm sure there'll be some wordsmithing but the substance has both breadth and meat! I suspect you're a tough editor. We'll miss you at our session.  
Best,  
Ron

On Tue, Oct 21, 2014 at 5:40 PM, Arlan Colton wrote:

Ron:

I would love to attend on the 7 th but I am in Yuma at the Arizona Planning Association conference which wraps up that day. Can I send a substitute in my place?

Hope all is well....wish I could have attended more of the Modernism Week stuff. Next year!!

We have released Draft 2 of the County Comprehensive Plan, Pima Prospers. I'd be honored if you'd take a look –see. IGT for the vision is covered in Chapter 1 (and elsewhere) It's on line at the website on the bottom of this email.

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2 nd floor

Tucson, Arizona 85701

520-724-9000

520-623-5411 fax

***Help us plan Pima County's future. Join the conversation  
at [www.pimaprospers.com](http://www.pimaprospers.com)***

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-11-03 10:30 AM Submission Notification  
**Date:** Monday, November 03, 2014 10:30:17 AM

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**Pima Prospers Feedback Form 2014-11-03 10:30 AM** was submitted by Guest on 11/3/2014 10:30:09 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Anthony
<b>Last Name</b>	Denaro
<b>Email</b>	jeanne.denaro@aim.com
<b>Address</b>	14491 N. Alamo Canyon Dr.
<b>City</b>	Oro Valley
<b>State</b>	AZ
<b>Zipcode</b>	85755
<b>Message Subject</b>	3.1 land use element miss use of private access land
<b>Comment</b>	<p>this is in regards to trail#180 power line road in oro valley. parks &amp; recreation put a non motorized vehicle law &amp; a minimum 15ft. wide law on this trail. no signs are posted to educate the public that they are breaking the law for motorized vehicles, and the width of the trail behind my house is 11ft. all categories of vehicles have been observed on the trail at all hours of the day. the most alarming are trucks traveling at high rates of speed in the middle of the night. we as citizens do not feel safe with this trail open to the public including the mountain bikers who use the trail also at all hours of the day and night. they are noisy and inconsiderate of the privacy of our citizens. this is increasing as the population is growing. the use of private owned land used for access to public land should be reviewed as urban sprawl enters rural areas. this trail was used about 2 years ago for an escape route after a bank robbery. is anybody home? what will it take to remove this trail from the system. we feel insecure in our own homes.</p>
<b>Response requested</b>	Yes
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-11-05 05:02 PM Submission Notification  
**Date:** Wednesday, November 05, 2014 5:02:23 PM

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**Pima Prospers Feedback Form 2014-11-05 05:02 PM** was submitted by Guest on 11/5/2014 5:02:02 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Caroline
<b>Last Name</b>	Salcido
<b>Email</b>	csal2929@aol.com
<b>Address</b>	4905 W Cashin Dr
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85757
<b>Message Subject</b>	Southwest of Tucson Meeting Space Needs & Services for the Non-Elderly Disabled
<b>Comment</b>	The area southwest of Tucson lacks public meeting rooms. Usable space could possibly be added to the Southwest branch library or senior center. The county may also consider including the non-elderly disabled population in senior activities as both groups have similar needs.
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-11-12 02:38 PM Submission Notification  
**Date:** Wednesday, November 12, 2014 2:38:59 PM

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**Pima Prospers Feedback Form 2014-11-12 02:38 PM** was submitted by Guest on 11/12/2014 2:38:14 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Lois
<b>Last Name</b>	Berkowitz
<b>Email</b>	offers2@att.net
<b>Address</b>	
<b>City</b>	
<b>State</b>	AZ
<b>Zipcode</b>	85755
<b>Message Subject</b>	Mandatory green building parameters
<b>Comment</b>	See page 9.88, RP-122: 1. page 9.88, Ref: RP-122, B: - should change "Example measures may include..." to "Measures shall include...". These conditions should be mandatory not optional. Note all other policies under RP-122 are mandatory. 2. Policies 1-3 listed under RP-122, B should be added to and made mandatory for EVERY new building project, commercial or residential in the Pima Prospers document. There is no conceivable justification for new construction to be made without regard to 1. Solar orientation of buildings; 2. Landscape design to enhance shading of buildings and reduce urban heat island effects; and 3. On-site rainwater harvesting with the goal of augmenting or meeting irrigation needs. These rudimentary conservation efforts must be part of development in Pima County to improve quality of life for all.
<b>Response requested</b>	Yes
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-11-13 03:06 PM Submission Notification  
**Date:** Thursday, November 13, 2014 3:07:18 PM

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**Pima Prospers Feedback Form 2014-11-13 03:06 PM** was submitted by Guest on 11/13/2014 3:06:29 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Adam
<b>Last Name</b>	Kmiec
<b>Email</b>	adamkmiec@comcast.net
<b>Address</b>	2338 E Stone Stable Dr.
<b>City</b>	Oro Valley
<b>State</b>	AZ
<b>Zipcode</b>	85737
<b>Message Subject</b>	Transportation
<b>Comment</b>	The Comprehensive Plan is really impressive and contains all the basic elements that need to be included in the future Pima County planning. Most of the elements are described in general term, of course, and the details will be included in the annual plans of particular county departments. I hope that the detailed transportation plans for the coming years will conform to the Chapter 4, Transportation, Goal 2, "Maintain the county roadway system in a state of good repair", and will include the neglected for years Edwin Road, east of Lago Del Oro (in Tortolita Planning Area).
<b>Response requested</b>	Yes
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/government/pima_prospers/">http://webcms.pima.gov/government/pima_prospers/</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-11-18 03:13 PM Submission Notification  
**Date:** Tuesday, November 18, 2014 3:13:25 PM

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**Pima Prospers Feedback Form 2014-11-18 03:13 PM** was submitted by Guest on 11/18/2014 3:13:10 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Wendy
<b>Last Name</b>	Swager
<b>Email</b>	wendy@soreo.com
<b>Address</b>	9107 E Smoke Rise Drive
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85715
<b>Message Subject</b>	Human Infrastructure Connectivity
<b>Comment</b>	Excellent document! On Page 5.23 it states for Goal 1 b. "Support investment for training of direct care workers and the Caregiver Training Institute." I do not think it is appropriate fpr Pima County to identify a specific training program, Caregiver Training Institute. There are many other state approved training programs in Tucson such as Practical Training Solutions, ABIL and A.I.R.E.S. Direct Care worker training programs are approved and monitored by the State of Arizona AHCCCS program or their contracted MCOs. This goal should be re-written to state "Support investment for training of direct care workers through state approved training programs."
<b>Response requested</b>	Yes
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

Thank you, Pima County, Arizona

## Hillary Turby

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**From:** Arlan Colton <Arlan.Colton@pima.gov>  
**Sent:** Friday, November 21, 2014 4:55 PM  
**To:** 'tina west'  
**Cc:** Carla Blackwell; Sue Morman; Maria Masque; Janet Emel (janet\_emel@hotmail.com)  
**Subject:** RE: Ajo/Upper Rocalla-Alley Road Designation

Hi Tina....

The central part of Ajo is designated MIU (Medium Intensity Urban) which is what it had been designated previously. (Recall that this is not zoning.) As Alley Road moves further south, it enters federal government land. The current plan did not differentiate private from federal land, and so also showed the federal land as MIU. In our second draft of Pima Prospers, we down-planned the federal land from MIU to LIR (Low Intensity Rural) of 0.3 residences per acre, one of our least dense categories on the land use legend. The large acreage private land, we did not change. You will also note that, at your suggestion, we down-planned most of the land north of Rasmussen due to the lack of sewer. The category LIU 3.0 was used because it is the lowest land use category that can achieve the SH zoning requirement of two homes on one 36,000 acre lot. SH exists north of Rasmussen.

The maps for the bound printed copies of the plan placed in the libraries are not easy to read as they are not scalable. For reading maps, I strongly suggest you look at the [www.pimaprospers.com](http://www.pimaprospers.com) website if you haven't been there already. You can easily scale up the maps to look at the finer detail which cannot be done on the paper map, of course.. The website is arranged a bit differently from the printed book to make it easier to use. Toward the bottom of the website page, you will find a horizontal tab labeled "Legend/Maps". The land use maps AND the hydrology maps can both be found under Section 8.2 under this tab.

Hope that helps.....

You will see an ad in the Copper News for the next WPCCC meeting on the evening of December 4<sup>th</sup> . I am presenting this draft at that meeting. Hope to see you there.

Arlan

---

**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Thursday, November 20, 2014 5:38 PM  
**To:** Arlan Colton  
**Subject:** Ajo/Upper Rocalla-Alley Road Designation

Hello Arlan,

Would you please have someone on your staff let me know what the land use designation(s) are for the upper Rocalla Road-Alley Road area which starts about Rocalla and Rosedale Avenue and heads into the "Scenic Loop" area west of town.

I cannot read the map in the library as the print is too small.

Not sure if the people from this area have contacted you. Will be running into them and want to let them know how to pursue their desire for a Conservation area.

Thanks,

Tina

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-03 11:05 AM Submission Notification  
**Date:** Wednesday, December 03, 2014 11:05:31 AM

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**Pima Prospers Feedback Form 2014-12-03 11:05 AM** was submitted by Guest on 12/3/2014 11:05:29 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Anthony R
<b>Last Name</b>	Bruno
<b>Email</b>	Tbruno@uchcaz.org
<b>Address</b>	28200 S Foxwood Way
<b>City</b>	Amado
<b>State</b>	AZ
<b>Zipcode</b>	85645
<b>Message Subject</b>	Kudos for the overall plan with Comments
<b>Comment</b>	<p>I recently had the opportunity to review the plan in its entirety. I was pleased with the road map this plan provides and how it integrated all areas of concern. With that said I was a little surprised that it did not take into account what opportunities already exist in Pima County when it came to goal 5 and additional ways to support what already exists. I am specifically speaking of Goal 5, health and well being. Health in rural communities means health and health care availability not just the fact that we need hiking and biking trails. Many rural areas in Pima County are considered target areas for not only health related issues but poverty. These communities may already have health care clinics or health care plans in place or planned for the future. These opportunities provide not only for health but for economic development in these areas and goal 5 should support the current health care and related organizations but allow for those planned for in the future. Goal 5 seems to be more focused on lifestyles rather than completely investing in local public service facilities,</p>
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-03 09:51 AM Submission Notification  
**Date:** Wednesday, December 03, 2014 9:52:09 AM

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**Pima Prospers Feedback Form 2014-12-03 09:51 AM** was submitted by Guest on 12/3/2014 9:51:30 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Dave
<b>Last Name</b>	Devine
<b>Email</b>	ddevine1705@yahoo.com
<b>Address</b>	1705 E. Water Street
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85719
<b>Message Subject</b>	Comments on draft plan
<b>Comment</b>	<p>Since 1980, the percentage of people in Pima County living on wages below the federal poverty level has risen from approximately 14 percent to 20 percent. Given current and future economic development possibilities in the county, that steady increase shows no signs of abating. To change this direction, commentators for decades have pointed to the importance of improving education in Pima County as a key component. As was stated in the Arizona Daily Star in 1989: "business leaders and [TUSD] district officials said that without a 'good educational system' businesses here would suffer because future employees and entrepreneurs would lack education needed to succeed." Despite that and numerous other warnings, public education funding has been drastically cut in Arizona and in Tucson voters in many school districts have denied spending overrides. Thus, Pima County's economy has stagnated and the new jobs that are created are mostly low paying in the service sector. To address this issue, the draft plan emphasizes transportation and tourism related economic development projects, the same types of recommendations that have been issued for many years. But trying the same thing and expecting different results won't bring about different outcomes. As an alternative, I believe reducing the county's poverty rate as well as lifting wage rates should be specific goals in the plan. In addition, the focus of tourism should be dropped. According to the U.S. Bureau of Labor Statistics, the average hourly earnings of an employee in the leisure and hospitality supersector was \$14.06/hour, and the average number of hours worked weekly was 26.2. In comparison, mit.edu shows that for Tucson, one adult with one child needs to earn \$19.10/hour to take home a "living wage." Thus, most new jobs in the tourism sector will create more</p>

poverty, not reduce it. In addition, a policy 8 should be added to section 5.4 "Workforce Training/Education Element" that would read: The Board of Supervisors should support the creation of a Regional Education Association to be funded by a voter approved sales tax increase. These funds will be distributed to all public schools, from K-8 to the University of Arizona, on an annual basis for approved projects." In conclusion, Pima County is not prospering now, nor has it been since the Great Recession. Without investing more in education, the possibility of reversing that trend seems unlikely. The Board of Supervisors needs to take a leadership role in this area, or by 2020 and beyond, who knows what the poverty rate in Pima County will be. Thank you.

**Response requested**

No

**Referred\_Page**

<http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-03 11:05 AM Submission Notification  
**Date:** Wednesday, December 03, 2014 11:05:32 AM

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**Pima Prospers Feedback Form 2014-12-03 11:05 AM** was submitted by Guest on 12/3/2014 11:05:29 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Anthony R
<b>Last Name</b>	Bruno
<b>Email</b>	Tbruno@uchcaz.org
<b>Address</b>	28200 S Foxwood Way
<b>City</b>	Amado
<b>State</b>	AZ
<b>Zipcode</b>	85645
<b>Message Subject</b>	Kudos for the overall plan with Comments
<b>Comment</b>	<p>I recently had the opportunity to review the plan in its entirety. I was pleased with the road map this plan provides and how it integrated all areas of concern. With that said I was a little surprised that it did not take into account what opportunities already exist in Pima County when it came to goal 5 and additional ways to support what already exists. I am specifically speaking of Goal 5, health and well being. Health in rural communities means health and health care availability not just the fact that we need hiking and biking trails. Many rural areas in Pima County are considered target areas for not only health related issues but poverty. These communities may already have health care clinics or health care plans in place or planned for the future. These opportunities provide not only for health but for economic development in these areas and goal 5 should support the current health care and related organizations but allow for those planned for in the future. Goal 5 seems to be more focused on lifestyles rather than completely investing in local public service facilities,</p>
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-05 01:20 PM Submission Notification  
**Date:** Friday, December 05, 2014 1:20:57 PM

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**Pima Prospers Feedback Form 2014-12-05 01:20 PM** was submitted by Guest on 12/5/2014 1:20:48 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Dot
<b>Last Name</b>	Esler
<b>Email</b>	desler@unitedwaytucson.org
<b>Address</b>	330 N Commerce Park Loop suite 200
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	857
<b>Message Subject</b>	Planning for AGING
<b>Comment</b>	<p>I am a member of the ELDER Alliance and a 30 year resident of PIma County. I care about our commmunity and believe we need to be sure to consider the following as you work on finalizing this plan. The demographic shift in population is underway. According to the US Census in 2013 23% of our population is over 60 year of age. With over 10,000 babyboomers turning 65 every day in the United States, estimates indicate that this number will be over 30% within 10 years.. The implications of this growing older population for planning and policy making are enormous. The Area Agency for Aging bears the responsibility for planning for aging services. PIma Council on Aging is that designated body in PIma County and needs government support in order to have a robust planning capacity. The city of Tucson, PIma County and other regional municipalities need to provide funds to pay for a professional planner focused on the issues related to aging. Any plan for the future should address this need. The population of older adults will continue to grow and social change will occur, our government needs to proactively be prepared to deal with these changes.</p>
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-05 03:26 PM Submission Notification  
**Date:** Friday, December 05, 2014 3:26:52 PM

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**Pima Prospers Feedback Form 2014-12-05 03:26 PM** was submitted by Guest on 12/5/2014 3:26:42 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Kathy
<b>Last Name</b>	Wilson
<b>Email</b>	kathy.wilson@itngreatertucson.org
<b>Address</b>	3543 N. Stone Ave
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85705
<b>Message Subject</b>	Page 4.23 Physical Infrastructure Connectivity Goal 3
<b>Comment</b>	<p>By 2020 25% of Pima county residents will be 60 or older, compared to about 15% today. The fastest growing segment is the 85+ population. This has many implications for our community when it comes to housing, transportation needs, human services, health care access, and many other issues. In order to ensure that our community can respond to changing demographic needs, we need to support a professional planning effort, taking into account our changing population. With the right plan and infrastructure, these older citizens can remain active and connected with affordable housing and access to transportation and to services. Pima Council on Aging (PCOA), our Area Agency on Aging is part of a national network of agencies that help communities plan to deliver services and supports to older residents. Since many Area Agencies on Aging are part of county governments in other communities, planning for older adults is a natural part of the process. Since Pima County has a non-profit Area Agency on Aging, we need to create a position within PCOA, supported by each jurisdiction within the county in order to make the most of our collective resources. Pima County is a great place to live. Let's work together to ensure that our older citizens can continue to live here, remain independent and live in their own homes for as long as possible. In addition, these older folks have considerable talents and wisdom to share. Let's value their contributions by putting some effort into keeping them connected. Kathy Wilson Member, Elder Alliance and Executive Director ITN (Independent Transportation Network) Greater Tucson</p>
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

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Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-05 02:35 PM Submission Notification  
**Date:** Friday, December 05, 2014 2:36:12 PM

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**Pima Prospers Feedback Form 2014-12-05 02:35 PM** was submitted by Guest on 12/5/2014 2:35:58 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	LaVonne
<b>Last Name</b>	Douville
<b>Email</b>	Idouville@unitedwaytucson.org
<b>Address</b>	330 N Commerce Park Loop
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	98145
<b>Message Subject</b>	Human Services 5.1, goal 9
<b>Comment</b>	<p>The ELDER Alliance is a group of committed adults concerned about planning and policy making for our aging population. Every day more people are joining the 65+ and 85+ population with an overall increase projected by 2020 of at least 30%. As a member and leader within the ELDER Alliance, I join others in agreeing that Pima Council on Aging, as the area agency on aging in Pima County, needs to be supported by Pima County and City of Tucson governments, and the United Way and Community Foundation to hire planning staff to work with various City, County, and community agencies to develop a comprehensive plan and policy actions to address the growing needs of this important population and resource in our community. We strongly believe that Pima County should be one of the contributing partners to fund PCOA to lead this important part of our community's plans for the future.</p>
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Carla Blackwell](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-05 02:34 PM Submission Notification  
**Date:** Friday, December 05, 2014 2:34:54 PM

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**Pima Prospers Feedback Form 2014-12-05 02:34 PM** was submitted by Guest on 12/5/2014 2:34:45 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Lucy
<b>Last Name</b>	Read
<b>Email</b>	read4481@aol.com
<b>Address</b>	P.O. Box 80316
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85751
<b>Message Subject</b>	Planning for Senior Services and Programs
<b>Comment</b>	I am a Community Mobilizer associated with the ELDER Alliance which seeks to make Pima County as elder-friendly as possible. It is hard to believe that there is no designated Planner for Senior Services and Programs in Pima County! In an effort to assist planning for the influx of Boomers and others in this area, I hope you will consider funding such a position at Pima Council on Aging. Thank You.
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831">http://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=35831</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-08 09:44 AM Submission Notification  
**Date:** Monday, December 08, 2014 9:44:04 AM

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**Pima Prospers Feedback Form 2014-12-08 09:44 AM** was submitted by Guest on 12/8/2014 9:44:03 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Maria
<b>Last Name</b>	Ramirez-Trillo
<b>Email</b>	mrtrillo@aarps.org
<b>Address</b>	6700 N Oracle Rd, Ste 332
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85704
<b>Message Subject</b>	Support for Aging Services Professional Planner
<b>Comment</b>	Greetings to the members of the City of Tucson and Pima County Consortium: As a member of the ELDER Alliance, we seek support for a professional planner for aging services in Pima County. With the ever growing population of older adults in the Tucson and Pima County areas, there will be huge implications for planning and policy making in the near future. Funding will be needed to fill the position of a professional planner for aging services. As the local Area Agency on Aging has responsibility for this planning, Pima Council on Aging, will need government support for a robust planning capability. Thank you in advance for your consideration of this request. Respectfully, Maria Ramirez-Trillo AARP Arizona and ELDER Alliance Member Associate State Director-Community Outreach 602 577-4862 or 1-866-389-5649 (toll)
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-09 01:27 PM Submission Notification  
**Date:** Tuesday, December 09, 2014 1:27:14 PM

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**Pima Prospers Feedback Form 2014-12-09 01:27 PM** was submitted by Guest on 12/9/2014 1:27:12 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	amber
<b>Last Name</b>	mathewson
<b>Email</b>	amber.dawn50@gmail.com
<b>Address</b>	17751 S Placita de Niquel
<b>City</b>	Sahuarita
<b>State</b>	AZ
<b>Zipcode</b>	85629
<b>Message Subject</b>	Remember the Aging in our Communities
<b>Comment</b>	The population of older adults in Tucson and Pima County is growing. This change in demographics has huge implications for planning and policy making going forward. As the council responsible for planning, Pima Council on Aging is the Area Agency for Aging in our area and needs government support for a robust planning capability. City, county and regional governments need to fund this capability.
<b>Response requested</b>	No
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

**From:** [Carla Blackwell](#)  
**To:** [Janet Emel](#)  
**Subject:** FW: Pima Prospers Plan Review meetings  
**Date:** Tuesday, December 09, 2014 11:39:08 AM

---

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516

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**From:** Tracy Taft [mailto:tracy@isdanet.org]  
**Sent:** Sunday, December 07, 2014 9:53 PM  
**To:** Carla Blackwell  
**Cc:** Arlan Colton  
**Subject:** RE: Pima Prospers Plan Review meetings

Shoot, somehow I missed this (I was in Kentucky until Thursday afternoon but could have made the meeting). I really want to know whether there is anything specifically about Ajo or rural areas in general.

**Tracy Taft** / Executive Director  
INTERNATIONAL SONORAN DESERT ALLIANCE  
ALIANZA INTERNACIONAL DEL DESIERTO SONORENSE  
Tel: 520-387-3229 • Fax: 520-387-5626 • [www.isdanet.org](http://www.isdanet.org)  
**ISDA** — working to preserve and enrich the environment, culture, and economy of the Sonoran Desert

---

**From:** Carla Blackwell [mailto:Carla.Blackwell@pima.gov]  
**Sent:** Wednesday, December 03, 2014 8:33 AM  
**To:** 'Tracy Taft'  
**Cc:** Arlan Colton  
**Subject:** RE: Pima Prospers Plan Review meetings

Hi Tracy,  
That meeting will be this Thursday. I thought you were on this list also, but if not, here is the information. We are also available to meet/phone with you on your thoughts.

Thanks

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516

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---

**From:** Tracy Taft [<mailto:tracy@isdanet.org>]  
**Sent:** Wednesday, December 03, 2014 5:25 AM  
**To:** Carla Blackwell  
**Subject:** RE: Pima Prospers Plan Review meetings

Hi Carla – are you planning a presentation in Ajo? Or did I already miss it, hope not! Tracy

**Tracy Taft** / Executive Director  
INTERNATIONAL SONORAN DESERT ALLIANCE  
ALIANZA INTERNACIONAL DEL DESIERTO SONORENSE  
Tel: 520-387-3229 • Fax: 520-387-5626 • [www.isdanet.org](http://www.isdanet.org)  
**ISDA** — working to preserve and enrich the environment, culture, and economy of the Sonoran Desert

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**From:** Carla Blackwell [<mailto:Carla.Blackwell@pima.gov>]  
**Sent:** Tuesday, December 02, 2014 11:23 AM  
**Subject:** Pima Prospers Plan Review meetings

Pima Prospers is the vision and the name of Pima County's Comprehensive Plan update effort. The plan is being shaped – with your help – to guide the region's growth, conservation and community design for decades to come.

Based on your continued input at 25 community meetings, presentations to many groups and associations throughout the County, and your online comments, we have compiled the second draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan.

Pima County staff would like to share the features of this latest, more complete draft plan in a presentation and discussion with you. We invite you to:

- Attend any of our upcoming public meetings to hear a presentation on the plan, participate in discussions with us, and share your comments.
- Review the second draft plan and share your comments at [www.pimaprospers.com](http://www.pimaprospers.com) before the end of the year.

Saturday  
December 6, 2014  
Mission Branch Library  
3770 S. Mission Road  
10:30 am – Noon  
Presentation at 10:45 am

Thursday  
December 11, 2014  
Ellie Towne Flowing Wells Community Center  
1660 E. Ruthrauff Road  
11:00 am – 12:30 p.m.

Presentation at 11:15 am

Saturday

December, 13 2014

Valencia Branch Public Library

202 W. Valencia Road

10:00 – 11:30 am

Presentation at 10:15 am

Monday

December 15, 2014

Rincon Valley Fire District, Station #1

8850 S. Camino Loma Alta

6:30 – 8 pm

Presentation at 6:45 pm

Wednesday

December 17, 2014

Kirk-Bear Canyon Branch Library

8959 E. Tanque Verde Road

5:30 – 7:00 pm

Presentation at 5:45 pm

Thursday

December 18, 2014

Quincie Douglas Branch Library

1585 E. 36<sup>th</sup> Street

Noon- 1:30 pm

Presentation at 12:15

Friday

December 19, 2014

Nanini Branch Library

7300 N. Shannon Road

2:00 – 3:30 pm

Presentation at 2:15 pm

Saturday

December 20, 2014

Littleton Recreation Center

6465 S. Craycroft Road

10:30 a.m. – Noon

Presentation at 10:45 am

For more information, or for individuals with disabilities who require special accommodations, please contact Lindsey at (520) 885-9009 or email

[Lindsey@kaneenpr.com](mailto:Lindsey@kaneenpr.com).

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**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**To:** [Janet Emel](#)  
**Subject:** Pima Prospers Feedback Form 2014-12-10 05:38 PM Submission Notification  
**Date:** Wednesday, December 10, 2014 5:38:46 PM

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**Pima Prospers Feedback Form 2014-12-10 05:38 PM** was submitted by Guest on 12/10/2014 5:38:40 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Peter
<b>Last Name</b>	Archuleta
<b>Email</b>	archtruil@msn.com
<b>Address</b>	2560 W Overton Ridge Pl
<b>City</b>	Pima County
<b>State</b>	AZ
<b>Zipcode</b>	85742
<b>Message Subject</b>	Transportation Planning
<b>Comment</b>	<p>Our local arterial roads are taking a toll with the amount of traffic they must accommodate 24hours a day. The amount of air pollution produced by stop and go traffic will only deteriorate more as population in the area increases. There needs to be a bypass constructed connecting Aviation to I-10.reducing traffic thru downtown. Extend I-19 along the Oracle Rd corridor Hwy 79 in Pinal county as a toll HWY. Constructed, operated, and maintained by a private entity. Construct a loop system from Ina &amp; I-10 along Ina, Skyline, sunrise east to I-10 also as a privately operated toll Hwy. Construct Tangerine as an expressway with limited access to Oracle Rd. Recognizing some outcry on the four suggested projects it is still the right direction to go for protecting our arterial roads from deteriorating so quickly and causing continued maintenance problems, minimizing personal vehicle damaged caused by poor roads, and minimizing air pollution by reducing idling vehicles.</p>
<b>Response requested</b>	Yes
<b>Referred_Page</b>	<a href="https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392">https://webcms.pima.gov/cms/One.aspx?portalId=169&amp;pageId=42392</a>

Thank you, Pima County, Arizona

## Hillary Turby

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**From:** Janet Emel <Janet.Emel@pima.gov>  
**Sent:** Wednesday, April 09, 2014 9:31 AM  
**To:** Maria Masque; Hillary Turby  
**Subject:** FW: Pima Prospers--Ajo

*Janet Emel - Senior Planner  
Pima County Development Services Department  
Planning Division  
520) 724-9000*

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**From:** John Cooper [mailto:jm\_coop@comcast.net]  
**Sent:** Wednesday, April 09, 2014 8:43 AM  
**To:** Janet Emel  
**Subject:** Pima Prospers--Ajo

### What we like about Ajo:

We love the small- townish, friendly, spirit of this place.

We love the absence of streetlights in our neighborhood (Gibson) , so we're in favor of "dark skies" initiatives here in Ajo.

We love the lack of traffic congestion, the wide safe streets.

We love our proximity to the beautiful Sonoran Desert, at most only a few blocks away.

We love the old Plaza with its churches and the historic Curley School.

Other very positive attributes and qualities:

the Ajo Public Library; the Ajo Post Office; the Ajo weekly newspaper, the Copper News; the Pima County waste disposal and recycling facilities; Ajo Ambulance Co., which lends its meeting room for public gatherings; Pima County Parks for its excellent, well-maintained facilities; the Cabeza Prieta National Wildlife Refuge and Visitor Center; Luke Air Force Base for providing public recreational access to a large portion of the Barry M. Goldwater Range; Ajo Public Schools; the many private groups in town who work for the benefit of the community, such as the Ajo Chamber of Commerce, the International Sonoran Desert Alliance, the Cabeza Prieta Natural History Association, the Ajo Garden Club, and the various social and service clubs that are active in town; the various private and public services in Ajo such as Freeport McMoran and Ajo Improvement, APS, Arizona Water Co., Tabletop Telephone Co., and Ajo Transportation.

Ajo is also fortunate to have a very good, large, and well managed grocery store.

Factors that might make Ajo a more attractive place to live and work:

1. Border Patrol activities confined within 1 mile of the border between U.S and Mexico (along with other government policies to eliminate the “war on drugs”, which will never be effective and has disastrous unintended consequences, such as great harm to the natural environment, increasing the profitability of the illegal traffic in drugs, especially marijuana).
2. Keep the town clear of litter and trash by making every property and business owner/operator responsible for maintaining a trash-free area around in his or her location or by organizing a government unit to undertake the task. Possibly ban disposable plastic shopping bags, as other communities have done.
3. Take steps to improve medical services/access and assisted living so that elderly citizens would not be forced to move away when their health becomes precarious.
4. Undertake a community- wide effort to sell Ajo to the rest of the world as a safe, beautiful, and inexpensive place to live, with great recreational opportunities practically at one’s doorstep.
5. Improve high speed internet communication in Ajo to encourage at home businesses and younger people to come and stay here.
6. Emphasize the eco-touring potential centered here.
7. Get control of water sources serving the town so that they cannot be diverted to other uses.

## Hillary Turby

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**From:** Janet Emel <Janet.Emel@pima.gov>  
**Sent:** Wednesday, April 09, 2014 10:27 AM  
**To:** Maria Masque; Hillary Turby  
**Subject:** FW: Ajo planning goals

*Janet Emel - Senior Planner  
Pima County Development Services Department  
Planning Division  
520) 724-9000*

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---

**From:** Tom Powell [mailto:tom@earthonly.com]  
**Sent:** Wednesday, April 09, 2014 9:41 AM  
**To:** Janet Emel  
**Subject:** Ajo planning goals

Ms. Emet,

My request for "Pima Prospers" is please give us back our local Motor Vehicle Division office. We have to drive over 60 miles to get to the nearest MVD office.

Our local (weekly) newspaper publishes the Sheriffs Log and every week several people are listed as "cited for driving with a suspended driver's license." I will probably be listed as a violator after my current driver's license expires, because I refuse to drive beyond Ajo.

Tom Powell  
912 W. Walker Rd.  
Ajo, AZ

## Hillary Turby

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**From:** Janet Emel <Janet.Emel@pima.gov>  
**Sent:** Wednesday, April 09, 2014 7:59 AM  
**To:** Maria Masque; Hillary Turby  
**Subject:** FW: PIMA COUNTY SHOULD PROTECT DARK SKIES IN AJO  
**Attachments:** Page0001.pdf; c-04082014171444.pdf

Janet Emel - Senior Planner  
Pima County Development Services Department  
Planning Division  
520) 724-9000

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**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Tuesday, April 08, 2014 6:21 PM  
**To:** Janet Emel  
**Subject:** FW: PIMA COUNTY SHOULD PROTECT DARK SKIES IN AJO

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From: tina\_\_west@hotmail.com  
To: janet.eml@pima.gov; arlan.colton@pima.gov; mmasque@azplanningcenter.com;  
carla.blackwell@pima.gov; tina\_\_west@hotmail.com  
Subject: PIMA COUNTY SHOULD PROTECT DARK SKIES IN AJO  
Date: Tue, 8 Apr 2014 18:47:15 -0600

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### PLEASE USE THIS SUBMITTAL WITH ATTACHMENTS

PIMA COUNTY SHOULD PROTECT DARK SKIES IN AJO

PIMA COUNTY SHOULD NOT PROVIDE FUNDING FOR INSTALLATION OR OPERATION OF STREETLIGHTS IN AJO RESIDENTIAL AREAS

PIMA COUNTY SHOULD STRENGTHEN IT'S DARK SKIES ORDINANCE TO PROTECT SMALL TOWNS IN RURAL AREA'S FROM LIGHT POLLUTION

(I believe PCDS staff and Pima Prospers Consultants are aware of the importance of Dark Skies to the Astronomy and Optics industries).

Making all the outdoor light in the U.S. "night sky friendly" would save up to 45 billion a year in electricity, the National Park Service estimates.

Residential electrical lighting, inside and out, is the number one cause of global warming. This electrical use is supplied by coal fired electrical generation plants, the primary source of global warming emissions.

Rising temperatures due to global warming and it's contributing factors have a negative effect on Pima County's economic potential.

People who were once drawn to warm winter temperatures in Arizona will now be driven away by the intense heat.

Even when residential streetlights are solar powered they are still, by their invasive glare, offensive and inconsiderate. Many people have purchased property in Ajo because they want to live in a rural small town with a natural living environment that includes dark skies at night. Installing invasive streetlights that glare over entire home sites or individual property lights that shine so brightly in the distance that people are forced to shut off the night sky with drapes will cause these new residents to put their property up for sale and leave town.

In 2011, the majority of property owners in Ajo rejected an official campaign to endorse a Street Lighting District (SLID) for the town of Ajo.

The attempt to create the SLID was an extensive exhaustive effort carried out by a group consisting primarily of elderly citizens. All parcels in Ajo were canvassed. (This effort was not objective. People were asked to sign only if they were in favor. However, the percentage of property owners on the tax rolls did not constitute a majority.)(Copy of Ajo Copper News article documenting the petition signing results will be sent to PCDS).

It is interesting that the people in this elderly segment of Ajo's population also have concerns about deteriorating eyesight, macular degeneration, glaucoma, and retinal damage. They need to be aware of the following factors: Our eyes have two types of photoreceptors: cones that react quickly to details and colors, and rods that are much more sensitive. This means our eyes need to have a dark hours that allow them to utilize rod photoreceptors to stay healthy. We depend on rods TO SEE AT NIGHT, but they take a long time to recover from bright light - which is why it's so hard to see the road after leaving a brightly lit service station. for an aging population, with older eyes that are sensitive to glare - dark skies make more sense than bright streetlights. Some six out of 10 Americans now live in places that don't get dark enough for their eyes to switch completely from cone to rod vision.

And bright light isn't necessarily safer, it can even be more dangerous. A blinding white security light can actually make it more difficult to see the sidewalk or an intruder lurking in the shadows.

The negative effects of outdoor residential area lighting extend further to human health. New research suggests that living in a neighborhood that's brightly illuminated at night can interfere with the production of a tumor suppressing hormone in women, raising the risk of cancer. Deep sleep deprivation caused by lack of complete darkness can cause serious sleep disorders.

We need to strengthen Pima County's new Dark Skies Ordinance so that it protects dark skies in rural towns such as Ajo.

Facts in this submittal are taken from:

Ajo Copper News/June 8, 2011-Page 8 & others to be submitted

The Arizona Republic/March 2, 2008/"Are Arizona's Dark Skies in Jeopardy?"/Kathleen Ingley

National Geographic Magazine/October 2007 (Vo.l 212 No. 4)/Carbon's New Math/Bill McKibben

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This is a citizen submittal. It is a call for professional planning staff to inventory and analyze the factors stated above in the development of Pima Prosper

## Hillary Turby

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**From:** Janet Emel <Janet.Emel@pima.gov>  
**Sent:** Wednesday, April 09, 2014 7:58 AM  
**To:** Maria Masque; Hillary Turby  
**Subject:** FW: CLIMATE MUST BE CONSIDERED IN "PIMA PROSPERS"  
**Attachments:** b-04082014171409.pdf

*Janet Emel - Senior Planner  
Pima County Development Services Department  
Planning Division  
520) 724-9000*

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---

**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Tuesday, April 08, 2014 6:21 PM  
**To:** Janet Emel  
**Subject:** FW: CLIMATE MUST BE CONSIDERED IN "PIMA PROSPERS"

---

From: tina\_\_west@hotmail.com  
To: janet.eml@pima.gov; mmasque@azplanningcenter.com; arlan.colton@pima.gov;  
carla.blackwell@pima.gov; tina\_\_west@hotmail.com  
Subject: CLIMATE MUST BE CONSIDERED IN "PIMA PROSPERS"  
Date: Tue, 8 Apr 2014 18:51:35 -0600

PLEASE USE THIS SUBMITTAL WITH ATTACHMENT

RE: PIMA COUNTY COMPREHENSIVE PLAN UPDATE  
Public Input  
Ajo/Western Pima County Community Council Meeting  
April 3, 2014

CLIMATE/GLOBAL WARMING/EFFECT ON ECONOMIC DEVELOPMENT POTENTIAL

In Western Pima County, if we don't do everything we can to keep the temperature down, there will not be enough people here to "fuel the economy". Already in the past seven years alone, the cool months have gone from 6 to 4 and the snowbirds with them.

PIMA COUNTY SHOULD MAINTAIN ARROYO GREENBELTS IN AJO

Maintaining the tree lined Arroyos in Ajo as greenbelts is one major way to reduce heat and keep the town aesthetically attractive as well as environmentally diverse and healthy. Greenbelt arroyos reduce the concrete heat of existing paved roads and buildings.

Cement lined flood control channels create more concrete heat. Flood control can be accomplished by keeping the arroyos free of trash and debris.

Pima County should provide funding for arroyo maintenance programs such as trash and debris removal. Pima County should not fund programs to line the arroyos with rip-rap, gunite or cement.

#### PIMA COUNTY SHOULD PROTECT DARK SKIES IN AJO

Residential electrical lighting, inside and out, is the number one cause of global warming. This electrical use is supplied by coal fired electrical generation plants, the primary source of global warming emissions.

Today people have purchased property in Ajo because they want to live in a rural small town with a natural living environment that includes dark skies at night. Installing invasive streetlights could cause these residents to put their property up for sale and leave town.

Pima County should not provide funding to install or operate streetlights in residential areas.

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I have some citations regarding factors stated above.

I will send them in to you over the next week.

However, this is only a layman citizen report.

It is a call for professional planning staff to inventory and analyze the factors stated above in the development of Pima Prospers policy and implementation programs.

## SLID, landfill, AUSD, legislature were WPCCC topics

The Western Pima County Community Council had a full agenda for its meeting Thursday, June 2. The meeting was chaired by Deb Morrow in the absence of Lil Jones who is was absent due to health reasons.

Councilor Carol Yokum reported on the street light improvement district project. Due to a misunderstanding on eligibility, it appears that not enough signatures from property owners in favor of the district were submitted. On April 29, a petition with 447 names in favor of the lighting district was submitted to the county. A minimum of 399 property owners' signatures was required. According to the county's determination the petitions represented only 272 owners as defined by the statutes due primarily to joint ownership of parcels by husbands and wives. A public hearing on the proposal had been scheduled in front of the Pima County Board of Supervisors for Tuesday, June 7, but was canceled as a result of the signature count. The project would have covered the area served by Arizona Public Service south of Rasmussen Road and would have included readapting 139 street lights. A \$42,000 grant for the work has been made by the Tohono O'odham Nation. Organizers have the opportunity to revisit the project.

Arizona Public Service representatives Kristi Lyzwa and Patrick McDermott were scheduled but were unable to make a presentation at the WPCCC meeting on the subject of outdoor lighting programs offered by the utility. APS has similar programs to that offered in the street lighting district proposal. That presentation will be rescheduled for September.

Councilor John Peck reported that there is ongoing input on the issue of the landfill schedule and that the *Ajo Copper News* was forwarding questionnaire responses to Supervisor Sharon Bronson's office. Deb Miller of Bronson's office noted that of 37 comments so far received, 31 are in favor of having the same opening and closing hours each day

the landfill is open. The input will be forwarded to Ursula Kramer who oversees county landfill operations.

Miller also shared the news that the county's Health Department hopes to develop an Ajo-based food sanitarian position. The position would require extensive training and would be able to provide inspection services for retail food services and activities. Further information is available by contacting Marcy Flanagan, Priscilla Urbina, or Loni Anderson at 520-243-7908.

Miller provided zoning updates. She noted that the Pima Association of Governments will offer free workshops on understanding and using census data for grant writing on Wednesday, June 29, from 9 a.m. to 4:30 p.m. Registration, limited to 25, may be made by contacting Nubia Bertsch at [nbertsch@pagnet.org](mailto:nbertsch@pagnet.org) or by calling her at 520-792-1093, ext. 458.

State Rep. Peggy Judd, whose Legislative District 25 includes Ajo, provided a brief recap of action at the last session including an inside look at early morning wrangling over budget issues and last-minute bills. Judd discussed her Tea Party affiliation and said she would like to organize a Tea Party activity in Ajo sometime this summer. When asked to comment on the fact that Pima County has been required this year to shift \$92 million of county funds to the state as a result of the state's budget shortfall, Judd noted that she had voted in favor of the shift out of necessity. She added that she understands the impact on rural communities but the need to balance the state budget is tantamount. Judd said she plans to be in Ajo for July 4<sup>th</sup> activities.

Lt. B.J. Clements reported that interviewing will begin this week for the dispatcher's position with the sheriff's department. He said he anticipates 15-20 candidates. Clements said the hiring process for new deputies will run from July 8-29. There are currently 15 Sheriff's Auxiliary Volunteers assisting the department in Ajo.

Morrow announced that

Roberta "Birdie" Nixon has retired from her cemetery caretaking position which she has undertaken since 1986. Morrow will be performing those duties in the future. Questions may be directed to her at 602-228-2495.

Alex Harper made a presentation on Ajo Unified School District issues and distributed a petition calling for the termination of Dr. Robert Dooley as district superintendent. His request for a letter of support from WPCCC was declined, although board members urged parents to be more involved in school issues. *See related story.*

WPCCC will resume monthly meetings Thursday, September 1.

## Hillary Turby

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**From:** Janet Emel <Janet.Emel@pima.gov>  
**Sent:** Wednesday, April 09, 2014 8:00 AM  
**To:** Maria Masque; Hillary Turby  
**Subject:** FW: PIMA COUNTY SHOULD MAINTAIN AJO'S ARROYO GREENBELTS  
**Attachments:** Page0001.pdf; e-04082014171549.pdf

Janet Emel - Senior Planner  
Pima County Development Services Department  
Planning Division  
520) 724-9000

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**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Tuesday, April 08, 2014 6:22 PM  
**To:** Janet Emel  
**Subject:** FW: PIMA COUNTY SHOULD MAINTAIN AJO'S ARROYO GREENBELTS

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From: tina\_\_west@hotmail.com  
To: janet.eml@pima.gov; tina\_\_west@hotmail.com  
Subject: PIMA COUNTY SHOULD MAINTAIN AJO'S ARROYO GREENBELTS  
Date: Tue, 8 Apr 2014 18:38:24 -0600

RE: PIMA COUNTY COMPREHENSIVE PLAN UPDATE  
Public Input  
Ajo/Western Pima County Community Council Meeting  
April 3, 2014

PIMA COUNTY SHOULD maintain the Ajo's arroyos in their natural state: lined with a canopy of trees and other vegetation and soil or sand banks and beds.

PIMA COUNTY SHOULD provide funding for arroyo maintenance programs such as trash and debris removal as flood control measures.

PIMA COUNTY SHOULD not fund rip-rapping, guniting, cementing or other flood control measures which destroy the natural environment of the arroyos in Ajo.

PIMA COUNTY SHOULD closely review and monitor new upstream construction to prevent erosion, and corrective flood control attempts which further damage the natural environment.

Maintaining the tree lined arroyos in Ajo as greenbelts is one major way to provide a cooling effect and keep the rural town aesthetically attractive as well as environmentally diverse and healthy.

Greenbelt arroyos reduce the concrete heat of existing paved roads and buildings.

Cement lined flood control channels produce more concrete heat and create an eyesore. Flood control can be accomplished by keeping the arroyos free of trash and debris.

Cementing or grading away the arroyos will result in mature trees now lining both sides of arroyo banks to be cut down to accommodate "armouring" or die off afterwards due to loss of water to root systems. Adjoining property owners and neighborhoods will suffer the loss of aesthetic and climate cooling tree shade and vegetation.

Grading or cementing for flood control in one area of the town will result in calls from a resident to do the same in another area.

Property owners in a rural area need to take personal responsibility for flood control on their own property.

Flood control construction requested on private property larger than one homesite should be reviewed by the County and Community for incorporation of measures to maintain the natural environment.

Otherwise , Pima county is willing to do considerable damage to community values just to pursue a feeling of false security when completely surrounded by cement.

For many Ajo residents, the arroyos are the last piece of natural open space they have near their homes.

New upstream construction must be closely reviewed and monitored. Extensive grading and a site plan that "removes all vegetation from the site" and provides no protection for the downslope arroyo results in silt buildup beneath bridges further downstream, (55 Sahuaro Customs and Border Patrol Housing Authority Project, 2010). Likewise, new upstream renovation which removes historically successful flood control features results in calls for extreme measures to the environment, which when implemented can have a negative effect on the natural and aesthetic environment. And may not work to solve the flooding problem created by Project remodelers. this is then followed by calls for and installation of more ugly rip rap.(Curley School Property Flood Control Basin, 2008).

The characteristics of the type of arroyos we have in Ajo must be recognized and cited as protected area in Pima County Flood Control Ordinances:

- Fed primarily or solely by rainfall, not spring or stream.
- Do contribute to groundwater recharge
- Natural
- May not be pristine, may have been disrupted
- Do comprise desert wildlife habitat in sand streambed: such as butterflies, dragonflies and frogs
- Do comprise wildlife habitat in vegetation cover and open space: coyote wren, cardinals and other birdlife, javelinas, coyotes and other mammals
- Do provide cooling effect for human climate

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Submitting Testimony from Ajo Meeting of November 1, 2012 with Pima County Flood Control Engineers, FreeportMcMoRan, and Ajo citizens

Submitting Ajo Copper News Article /November 7, 2012/"County Promises Better Maintenance by Bridge"

Submitting Article on Concrete Heat from Tucson Daily Star/November 18, 2012Area Heat to Worsen Over Time/Tony Davis

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This is a citizen submittal and investigation of the factors stated above by professional planning staff in development of Pima Prosper policy and implementation programs will be appreciated.

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In all public input submitted, I am using "Pima County Should" as a recommendation. Meaning, the actual Policy would read "Pima county Shall".

**Subject:** Fw: November 1, 2012 Meeting on Arroyo  
**From:** Tina West (tinawest256@yahoo.com)  
**To:** tinawest256@yahoo.com;  
**Date:** Friday, October 26, 2012 11:46 AM

November 1, 2012

PUBLIC MEETING TO DISCUSS GIBSON ARROYO/  
2nd Avenue Bridge South towards Cedar Avenue  
Ajo Golf Course Meeting Room/  
77 West Mead Road  
Ajo, Arizona

PRELIMINARY OVERVIEW STATEMENT BY Tina West

TO WHOM IT MAY CONCERN:

Please make this correspondence part of the record of today's meeting.

I am speaking as a resident of downtown Ajo and as an advocate for the Gibson Arroyo with which I am familiar because I frequently walk there. Objective full news coverage and timely publicity for today's meeting has been slight. Most people in Ajo are not aware of the implications of this meeting for the future of the Arroyo. For this reason, I ask that my comments also be entered in behalf of the people whose many footprints I see alongside the Railroad trail or in the sand of the Arroyo below.

OPPOSITION TO CEMENTING ARROYO

This correspondence is hereby entered as opposition to extended length guniting, cementing, ripraping or otherwise destroying the natural environment of Gibson Arroyo, in particular the portion from Rasmussen Road past 2nd Avenue Bridge to Cedar Avenue.

ENVIRONMENTAL REVIEW REQUIRED

This correspondence is also a request for full environmental review. Any proposal to gunite, cement, rip-rap or otherwise "armour" the banks of Gibson Arroyo in this or any area will have a significant

adverse impact on the natural, economic, and social environment of Ajo specifically and Pima County in general. Significant adverse cumulative impacts will also occur for Ajo and the County if cementing activity is initiated on the Gibson Arroyo. Longterm cumulative costs will also be incurred by the project property owner.

#### PUBLIC NOTICE

The public must receive timely, objective and full coverage Notice of any "armouring" by guniting, cementing, rip-rapping or other means. Permit Application Review Hearings must be held in Ajo at an easily accessible location. Every attempt must be made by the County to assure that full, objective coverage of any project effecting the Arroyo appears in local newspapers in a timely manner.

Mature Trees now lining both sides of the Arroyo banks will either be cut down to accomodate "armouring" or die off afterwards due to loss of water to rootsystems. Adjoining property owners and neighborhoods on the West side of the Arroyo must be notified of the potential loss of aesthetic and climate cooling tree shade.

#### CUMULATIVE IMPACTS

Pima County Flood Control Engineers have repeatedly informed concerned parties that cementing the Arroyo banks will not increase the Gibson Arroyo's ability near the 2nd Avenue Bridge to contain or carry water. In an unusual rain event such as last September 6th, the Arroyo at that location is going to flood, regardless.

Furthermore, cementing in part of the Arroyo increases the velocity of water and causes more erosion and the need for more cementing downstream. A cumulative impact results when people additionally upstream start requesting their arroyos be turned into storm drains and eventually somebody is responsible for maintaining a cement system in the entire A Mountain watershed to Ten Mile Wash. Loss of climate cooling shade and aesthetic impacts on the community also occur at that point.

With these cumulative impacts come cumulative costs to the County and Freeport McMoran. Pima County may not have the money to cement in the Arroyo, but Freeport McMoran is being appealed to as surely seeing such a project as "a drop in the bucket" compared to their high profits and other operating costs. In fact, however, initiating cementing at the 2nd Avenue Bridge Arroyo would lead to much more extensive costs and responsibilities up the road for both Freeport McMoran and Pima County.

#### FLOOD INSURANCE CONCERNS

Cementing in the Arroyo with an objective of eliminating Flood Insurance costs in the Eastside area is an exercise in futility. Research indicates that as early as July, well before the September 6th flood event, an Eastside resident was seeking County assistance in eliminating the basis for a requirement to purchase \$600 a year in flood insurance. The elimination of this Flood Insurance seems to be the underlying basis for the cementing proposition.

Cementing in the Arroyo will not change flood insurance requirement status. Pima County Flood Control District has informed Eastside Residents that even if the Arroyo is cemented, it is not large enough to contain an unusual flow event such as September 6th. District engineers would not be able to sign off saying a cemented Arroyo would no longer flood. Therefore mortgagors would not eliminate their flood control insurance requirements.

Pima County FEMA management analysts have also informed residents that \$600 annual flood insurance is at an incredibly low grandfathered in rate. It is also often possible to spread the cost out over time by working with the mortgagator to add the annual insurance cost to the mortgage.

Flood Insurance is one way to mitigate some of the impacts of flooding. Eastside residents are actually very fortunate they can receive any flood insurance at all, since insurance companies do not insure when the chances are high that high cost floods will occur. There are many parts of the country where people cannot get any flood insurance because regular, sometimes annually, real flooding is so great, sometimes over the rooftops.

Much of the flooding in Ajo is happening as a torrent that goes right through the roof or sheets off a newly paved road. This also happens where people do not live next to an Arroyo and never anticipated the need for flood insurance.

Comparatively, everyone is accepting some sort of hazard in their dwelling location. Residents on the Eastside are very close to the Ajo-Gibson Fire Station. Other locations have longer response times. In parts of the country where fire hazard is extreme residents are required to clear an extensive distance around their homes to help prevent their home catching fire. They also often have to pay into a Fire District and incur higher fire insurance costs.

The flooding on the Eastside can be mitigated by property owners installation of retaining walls and sandbags when necessary, and the opportunity to utilize flood insurance when an unusual event occurs. Property owners who want to eliminate or reduce flood insurance costs can also have surveys done to see if their elevation is actually higher than what they have been designated on FIRM maps and check to see if they are being insured at a rate which is more than their home is worth.

There may also be some form of grandfathered in rate for everyone who purchased a property before the FIRM maps were implemented. If

buildings were originally allowed to be built in a floodplain, then development of some sort of a weatherization grant program for various income levels to build retaining walls can be sought from FEMA, Pima County, and other federal and state agencies. Overriding considerations to floodplain criteria used at the Eastside location could also be sought.

The maintenance of the Arroyo can be borne by the County and Freeport McMoRan, but some responsibility also rests with the property owner.

Otherwise, you are willing to do considerable damage to community values just to pursue a feeling of false security when completely surrounded by cement.

#### NATURAL ENVIRONMENT

If cementing the arroyos is pursued as a project, there may be a 404 Permit required from the Army Corps of Engineers, who are charged, along with Pima County Flood Control District, with attempting to maintain watercourses in their natural condition when possible.

An Eastside resident has been asserting that Gibson Arroyo is not a natural environment, for reasons that are speculative. Regardless, after the construction of the railroad line, the Arroyo may not be "pristine" but it is still natural. During the almost 100 years since the railroad was constructed, the Arroyo has re-established itself as a natural environment with many large mature trees, a sand bottom watercourse, and wildlife habitat. A natural reclamation process. There are ironwoods, mesquites, palo verdes, cactus wrens, roadrunner, quail, dove, rabbits, coyote, javelina. There are butterflies, dragonflies and frogs which sometimes emerge after a storm and this may indicate riparian habitat. And there are human beings. A liveable environment for wildlife is a quality environment for people.

This Arroyo/Railroad Trail runs from the Ajo Plaza past the Elks Club, picks up kids from Ajo School, links in the Health Clinic and then connects with the Community Center and Desert beyond. It is the last piece of natural open space downtown residents have within walking distance of their homes. The trail has a huge potential as a community greenbelt, which would be a very positive contribution for Freeport McMoRan.

#### ALTERNATIVES

The Arroyos are one of Ajo's most beautiful and beneficial treasures. There are significant and cumulative consequences and costs if they are cement channelled.

The Gibson Arroyo has been neglected. The thing to advocate is having Freeport McMoran and the County initiate a co-ordinated monitoring and maintenance program that focuses on removing dead trees, soil re-vegetation, trash pickup and minimum soil level maintenace at the bridge. The effects of upstream paving and construction on the Arroyo must be monitored and mitigated as well.

**From:** Guy Moussalli [<mailto:guymoussalli@rocketmail.com>]  
**Sent:** Monday, June 24, 2013 3:50 PM  
**To:** Carla Blackwell  
**Subject:** "Pima County Supervisors approve Public Participation Plan"

Dear Ms. Blackwell:

This is in reference to the press release appearing on the Pima County website and dated June 19, 2013, concerning the above-referenced subject .

The press release describes the overall themes that will be covered under the update of Pima County's 2001 Comprehensive Plan, dubbed "Pima Prospers". Those themes clearly emphasize physical infrastructure elements, economic development elements (including fiscal viability), cost of development and human infrastructure components. The latter appears to be a catch-all classification for such disparate topics as parks and recreation, health care, libraries and public safety. (I would like to posit that parks in and of themselves ought to also be addressed in a green infrastructure element rather than simply a human infrastructure element where the ratio of green space per county resident might be dwelled upon.)

Based on this assessment, a glaring omission clearly emerges - that of the sustainability element. For example, climate change is not mentioned in the press release. Will it be addressed in the energy element? However, so much more goes into an analysis of climate change than mere energy usage, not the least being the patterns of land use and transportation especially in such a vast area as unincorporated Pima County. This is regrettably not mentioned in the press release. One can only hope that it is included in the final document.

The themes thus announced lead one to conclude that, for Pima County, true prosperity comes from economic development and growth. However, it is now widely accepted that ecosystem collapse and the concomitant effects of climate change will hamper any optimistic economic development projections Pima County lays out for the next decade. Factors such as increasingly hot summers, erratic rainfall patterns, earlier and more intense wildfires, water shortages and rising human needs to name a few will test and put to rest the most optimistic prosperity prognostications. I certainly hope that Pima County will take all those factors into account.

I'd also like to ask you about the selection of the Planning Center as the lead coordinating team for Pima Prospers. How was this selection arrived at? Was the consultant selection process put out to bid and a national search undertaken? My main concern here has to do with the fact that the Planning Center has been involved in crafting or producing a great many general plans for cities and counties throughout southern Arizona, which could lead one to conclude that originality, authenticity, innovation and a cutting-edge approach could all fall victim to de facto replication and the potential for a cookie-cutter approach to yet one more plan, in this case Pima Prospers. I would like to think that the selection of the Planning Center was arrived at after an exhaustive regional and national search for a lead consultant.

It appears that, contrary to Plan Tucson, which was solely an in-house enterprise established for the City of Tucson General Plan Update and conducted solely by City planning staff, Pima County has decided to rely on outside consultants as evidenced not only by the selection of the

Planning Center but also by a number of other firms referenced in the press release. Why did the County decide on such a process instead of relying on its existing, knowledgeable staff and resources? Will existing rank-and-file County planning staff - other than the department directors referenced in the press release - be called upon to contribute and write portions of the document? Will any and all staffing additions be left to the purview of the respective consulting firms or will your department take the decision to hire temporary planning staff from the community to assist with the plan at some point in the process?

I realize this is a long e-mail touching on many topics associated with Pima Prospers. I nonetheless hope you'll take the time to address the points raised herein and I eagerly look forward to receiving your insightful responses.

Thank you very much for your time and assistance.

Sincerely,  
Guy Moussalli

# Pima Prospers Response 6/25/13

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Mr. Guy Moussalli

Via Email: [guymoussalli@rocketmail.com](mailto:guymoussalli@rocketmail.com)

Thank Mr. Moussalli for your comments. You are the first to query about the process and content of the plan so we have an opportunity to practice our organizational skills in setting up a tracking and response network. I am the project manager along with Arlan Colton for this comprehensive plan update. Arlan is out of town however, you may hear from him since I forwarded your email to him. As Planning Director for Pima County, Arlan will make final decisions on the plan content. It is difficult to summarize an entire planning effort into a short press release regarding the plan kickoff and public participation. The Scope of Work for this project is 33 pages long of detailed tasks, topics and deliverables. As the planning process unfolds, you will see much of the content considered in a deliberate and comprehensive fashion. We plan to go way beyond the statute required elements and make implementation as important as the plan.

Pursuant to the questions in your email, I would like to offer the following responses:

1. I would like to posit that parks in and of themselves ought to also be addressed in a green infrastructure element rather than simply a human infrastructure element where the ratio of green space per county resident might be dwelled upon.  
**Response: Agreed.** For instance the river park system (Loop) will be predominately discussed as a circulation element.
2. A glaring omission clearly emerges - that of the sustainability element.  
**Response: We do not believe that sustainability should be a standalone element but woven throughout the plan in all policies, maps and elements of the plan.** We will accomplish this by referring to STAR Community Rating indicators, Smart Growth scorecard criteria and known best practices. Beginning with the environment, in 2001 the Sonoran Desert Conservation Land embedded in our comprehensive plan the conservation values, policies and land pattern to preserve desert habitat and resources. The focus of this plan update will be the social and economic policies that impact our urban footprint. The Board of Supervisors earlier this year adopted an economic development plan that will be integrated into this plan. The Health Director is looking forward to also integrating health and wellbeing into community design. This is in addition to working with the established rural communities to preserve their way of life.
3. How will climate change (or adaptation) be addressed in the plan?  
**Response: Agreed that it encompasses more than energy.** Climate change impacts every aspect of our lives. Climate change or adaptation strategies will be considered with land uses, emerging environmental hazards, energy use, housing and community design, water resources, health and public safety.

4. How was this selection of the Planning Center made?

**Response: Development Services through the Procurement Department had a competitive process with an extensive Request for Qualifications process nationally published in planning journals/websites.** Notice of the pending RFQ was sent by Arlan Colton to members of the planning community not only in Arizona but nationally. 6 proposals were received and 3 were selected for interviews and presentations. All prime consultant candidates were asked to form teams of experts to handle public participation, engineering, urban design, community initiatives, environmental planning, economic analysis and modeling, as well as planning. A panel of 4 Pima County staff and one outside planner from a neighboring jurisdiction selected The Planning Center in the final outcome. The Planning Center assembled a fine team which also includes their California office of nationally known experts in Smart Growth and innovative planning techniques. We are pleased with the selection.

5. Why did the County decide on such a process instead of relying on its existing, knowledgeable staff and resources?

**Response:** We will rely heavily on our own subject matter experts. This will be a collaborative process with the consultant team involving over 50 different staff from the Health Department, GIS, Transportation, Office of Sustainability and Conservation, Economic Development and Tourism, Flood Control, Regional Wastewater Reclamation Department, Community Development and Neighborhood Conservation, Pima Animal Care Center, Office of Emergency Management, Natural Resources, Parks and Recreation, Facilities, Finance, and the County Administrator's office. Unfortunately, with the Great Recession, we lost some planning expertise and only have 3 individuals to rely upon in addition to their daily tasks. We knew that we needed to supplement this extraordinary effort with a consultant to help lead the planning efforts and public outreach. All staff will be playing a role in the key tasks of data gathering, analysis, policy writing, editing or facilitating. The Guidance Committee will help create the implementation plan that ultimately all of Pima County will own.

Thank you for your comments. Please let me know if you need any additional information. Watch our website for more information, especially this fall when we anticipate our public process to launch : <http://www.pima.gov/pimaprosper/>

## Janet Emel

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**From:** Laura Shaw <laura.shaw@treoaz.org>  
**Sent:** Tuesday, December 23, 2014 11:09 AM  
**To:** Janet Emel  
**Subject:** Re: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-Day Review E3

Hi Janet,

Thanks for this earlier email. As you are at your deadline now, wanted to let you know that TREO did review and give input prior to Carla.

Thanks and have a great holiday.  
Laura

On Oct 21, 2014, at 11:50 AM, Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)> wrote:

Good Morning,

With the much-appreciated participation by many of you, Pima County Development Services Department – Planning Division presents Pima Prospers Draft 2 – the proposed update to the Pima County Comprehensive Plan as found on the website [www.pimaprospers.com](http://www.pimaprospers.com). The website will look different but is intended to be very user friendly for your review of the draft plan.

The draft plan is still a work in progress but thanks to your help Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but is absent some parts that must come later, after public review (e.g. fiscal impact study).

We are now undergoing the 60-day review period. **Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014 (but of course, the earlier the better).**

If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at (520)724-9000.

Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701

✓

## Janet Emel

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**From:** Carla Blackwell  
**Sent:** Tuesday, December 09, 2014 11:39 AM  
**To:** Janet Emel  
**Subject:** FW: Pima Prospers Plan Review meetings

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Tracy Taft [mailto:tracy@isdanet.org]  
**Sent:** Sunday, December 07, 2014 9:53 PM  
**To:** Carla Blackwell  
**Cc:** Arlan Colton  
**Subject:** RE: Pima Prospers Plan Review meetings

Shoot, somehow I missed this (I was in Kentucky until Thursday afternoon but could have made the meeting). I really want to know whether there is anything specifically about Ajo or rural areas in general.

Tracy Taft / Executive Director  
INTERNATIONAL SONORAN DESERT ALLIANCE  
ALIANZA INTERNACIONAL DEL DESIERTO SONORENSE  
Tel: 520-387-3229 • Fax: 520-387-5626 • [www.isdanet.org](http://www.isdanet.org)

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ISDA — working to preserve and enrich the environment, culture, and economy of the Sonoran Desert

**From:** Carla Blackwell [mailto:Carla.Blackwell@pima.gov]  
**Sent:** Wednesday, December 03, 2014 8:33 AM  
**To:** 'Tracy Taft'  
**Cc:** Arlan Colton  
**Subject:** RE: Pima Prospers Plan Review meetings

Hi Tracy,  
That meeting will be this Thursday. I thought you were on this list also, but if not, here is the information. We are also available to meet/phone with you on your thoughts.

Thanks

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Tracy Taft [<mailto:tracy@isdanet.org>]  
**Sent:** Wednesday, December 03, 2014 5:25 AM  
**To:** Carla Blackwell  
**Subject:** RE: Pima Prospers Plan Review meetings

Hi Carla – are you planning a presentation in Ajo? Or did I already miss it, hope not! Tracy

Tracy Taft / Executive Director  
INTERNATIONAL SONORAN DESERT ALLIANCE  
ALIANZA INTERNACIONAL DEL DESIERTO SONORENSE  
Tel: 520-387-3229 • Fax: 520-387-5626 • [www.isdanet.org](http://www.isdanet.org)

ISDA — working to preserve and enrich the environment, culture, and economy of the Sonoran Desert

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**From:** Carla Blackwell [<mailto:Carla.Blackwell@pima.gov>]  
**Sent:** Tuesday, December 02, 2014 11:23 AM  
**Subject:** Pima Prospers Plan Review meetings

Pima Prospers is the vision and the name of Pima County's Comprehensive Plan update effort. The plan is being shaped – with your help – to guide the region's growth, conservation and community design for decades to come.

Based on your continued input at 25 community meetings, presentations to many groups and associations throughout the County, and your online comments, we have compiled the second draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan.

Pima County staff would like to share the features of this latest, more complete draft plan in a presentation and discussion with you. We invite you to:

- Attend any of our upcoming public meetings to hear a presentation on the plan, participate in discussions with us, and share your comments.
- Review the second draft plan and share your comments at [www.pimaprospers.com](http://www.pimaprospers.com) before the end of the year.

Saturday  
December 6, 2014  
Mission Branch Library  
3770 S. Mission Road  
10:30 am – Noon  
Presentation at 10:45 am

Thursday  
December 11, 2014  
Ellie Towne Flowing Wells Community Center  
1660 E. Ruthrauff Road  
11:00 am – 12:30 p.m.  
Presentation at 11:15 am

Saturday  
December, 13 2014  
Valencia Branch Public Library

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Wednesday, October 22, 2014 7:06 AM  
**To:** Janet Emel  
**Subject:** Fwd: River and La Canada

Sent from my iPhone

Begin forwarded message:

**From:** Bill Ford <[wlfa@earthlink.net](mailto:wlfa@earthlink.net)>  
**Date:** October 22, 2014, 12:04:26 AM MST  
**To:** Arlan Colton <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Subject: Re: River and La Canada**

Arlon, just to comment on Pima Prospers, I downloaded it. In a nutshell, it is every bit impressive as Plan Tucson. I look forward to a joint plan in 2030. Ed Mazria says that year is marked as a watershed for sustainable success and that means economic health. Every thing we do now needs to move us into that direction. I am glad Pima County has this opportunity. Truly historical. Visit New Mexico's Ed Mazria's site at <http://www.architecture2030.org/> Read it on the plane. I Looking forward to inputting Pima Prospers and I am glad you asked. Bill

---

**From:** Arlan Colton <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Date:** Tuesday, October 21, 2014 5:00 PM  
**To:** William Ford <[wlfa@earthlink.net](mailto:wlfa@earthlink.net)>  
**Cc:** Chris Poirier <[Chris.Poirier@pima.gov](mailto:Chris.Poirier@pima.gov)>, Jim Cunningham <[Jim.Cunningham@pima.gov](mailto:Jim.Cunningham@pima.gov)>  
**Subject: RE: River and La Canada**

Bill.... I can answer half of your question but not the other half. I apologize for not calling back yesterday, but I've been heavily engaged in getting our comprehensive plan update draft 2 ([www.pimaprospers.com](http://www.pimaprospers.com)) out the door and wrap up in the next 40 minutes before catching a plane tomorrow. I beg forgiveness! So the certificate of compliance is what was provided to indicate compliance enough to get the zoning ordinance changed to commercial. It is subject to the listed zoning conditions from that rezoning case. It is your bible in addition to the regular county ordinances and checklists toward doing a development plan (which has now been changed slightly in terminology). Condition 4 on that list says the d.p. must adhere to the preliminary development plan from the rezoning case, for example.

What I don't know is whether you do a new DP or DP amendment. I have not worked in that area in a while, and the rules have changed. I have copied people who would know the answer... I would ask them but they are all gone for the day. By this email, I'm asking Jim or Chris to get back to you with the appropriate direction. Thanks for understanding.

And I'd appreciate any feedback you might have on the draft plan if you want to look at it at your leisure this fall. We'll go through the public hearing process next January-April.

Take care, Bill...  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at  
[www.pimaprospers.com](http://www.pimaprospers.com)***

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**From:** Bill Ford [<mailto:wlfafa@earthlink.net>]  
**Sent:** Tuesday, October 21, 2014 4:21 PM  
**To:** Arlan Colton  
**Subject:** River and La Canada

Hi Arlan

I am proposing architectural design service to an investor who will develop the west portion of an older DP that was not built out along with Albertsons and a couple small pads. I attached a certificate of compliance with your signature on it given to me by the investor. How does Pima County use this document and how does it relate to the DP? Do we need to do a new DP if we proceed with the undeveloped portion of the original one or change anything? It might be better to talk on the phone

Bill  
**WLFA AND ASSOCIATES LLC**  
1227 N. 3rd Ave, Tucson, Az. 85705  
(520)-623-0364 fax (520)-623-0364  
<http://www.wlfadesign.com>  
<http://www.uuitucson.com>  
[wlfafa@earthlink.net](mailto:wlfafa@earthlink.net)



## Janet Emel

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**From:** Arlan Colton  
**Sent:** Thursday, October 23, 2014 9:24 AM  
**To:** Janet Emel; Carla Blackwell  
**Subject:** Fwd: Pima Prospers

For file. This one will need to be answered, perhaps Carla or you otherwise will handle when I return. Thanks

*JE asked Carla to respond.*

Sent from my iPhone

Begin forwarded message:

**From:** Marilyn Chico <[stha@theriver.com](mailto:stha@theriver.com)>  
**Date:** October 23, 2014, 11:15:27 AM EDT  
**To:** <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Subject:** Pima Prospers

Good Morning Mr. Colton,

I have reviewed Pima Prospers.

I have a question on Use of Land. The Western section of Tucson has had a huge increase in housing developments (i.e. Star West, Star East, LGI development, DR Horton development, Tucson Estates (older development). What is the County planning for meeting "public needs" as far as convenient shopping? There is a huge population of homeowners who must travel at least 5 or more miles to a decent grocery store.

Also, to "meet social...needs" has the County investigated the building of a recreational center? There are a lot of youth who could use a safe place to meet, play, study, and interact. To date there is no such facility but plenty of open land to build such a center.

Thank you for your time and I look forward to your response.

Sincerely,  
Marilyn L. Chico  
6721 S May Fly Drive  
Tucson, AZ 85757  
520-465-1059

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Thursday, October 23, 2014 9:22 AM  
**To:** Janet Emel  
**Subject:** Fwd: Sustainable Communities Collaborative invite

For file.

Sent from my iPhone

Begin forwarded message:

**From:** <[rpsparkmd@cox.net](mailto:rpsparkmd@cox.net)>  
**Date:** October 22, 2014, 11:39:38 PM EDT  
**To:** <[arlan.colton@pima.gov](mailto:arlan.colton@pima.gov)>  
**Subject:** RE: Sustainable Communities Collaborative invite

Hi,Arlan. Thanks for calling my attention to Pima Prospers. I read through the Preamble and Chapter 1 and found the wording clear and the scope exhortatory. I'm sure there'll be some wordsmithing but the substance has both breadth and meat! I suspect you're a tough editor.

We'll miss you at our session.

Best,  
Ron

On Tue, Oct 21, 2014 at 5:40 PM, Arlan Colton wrote:

Ron:

I would love to attend on the 7 th but I am in Yuma at the Arizona Planning Association conference which wraps up that day. Can I send a substitute in my place?

Hope all is well....wish I could have attended more of the Modernism Week stuff. Next year!!

We have released Draft 2 of the County Comprehensive Plan, Pima Prospers. I'd be honored if you'd take a look -see. IGT for the vision is covered in Chapter 1 (and elsewhere) It's on line at the website on the bottom of this email.

Arlan

Arlan M Colton FAICP  
Planning Director



## Janet Emel

---

**From:** Arlan Colton  
**Sent:** Friday, November 21, 2014 4:55 PM  
**To:** 'tina west'  
**Cc:** Carla Blackwell; Sue Morman; Maria Masque; Janet Emel (janet\_emel@hotmail.com)  
**Subject:** RE: Ajo/Upper Rocalla-Alley Road Designation

Hi Tina....

The central part of Ajo is designated MIU (Medium Intensity Urban) which is what it had been designated previously. (Recall that this is not zoning.) As Alley Road moves further south, it enters federal government land. The current plan did not differentiate private from federal land, and so also showed the federal land as MIU. In our second draft of Pima Prospers, we down-planned the federal land from MIU to LIR (Low Intensity Rural) of 0.3 residences per acre, one of our least dense categories on the land use legend. The large acreage private land, we did not change. You will also note that, at your suggestion, we down-planned most of the land north of Rasmussen due to the lack of sewer. The category LIU 3.0 was used because it is the lowest land use category that can achieve the SH zoning requirement of two homes on one 36,000 acre lot. SH exists north of Rasmussen.

The maps for the bound printed copies of the plan placed in the libraries are not easy to read as they are not scalable. For reading maps, I strongly suggest you look at the [www.pimaprospers.com](http://www.pimaprospers.com) website if you haven't been there already. You can easily scale up the maps to look at the finer detail which cannot be done on the paper map, of course.. The website is arranged a bit differently from the printed book to make it easier to use. Toward the bottom of the website page, you will find a horizontal tab labeled "Legend/Maps". The land use maps AND the hydrology maps can both be found under Section 8.2 under this tab.

Hope that helps....

You will see an ad in the Copper News for the next WPCCC meeting on the evening of December 4<sup>th</sup>. I am presenting this draft at that meeting. Hope to see you there.

Arlan

---

**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Thursday, November 20, 2014 5:38 PM  
**To:** Arlan Colton  
**Subject:** Ajo/Upper Rocalla-Alley Road Designation

Hello Arlan,

Would you please have someone on your staff let me know what the land use designation(s) are for the upper Rocalla Road-Alley Road area which starts about Rocalla and Rosedale Avenue and heads into the "Scenic Loop" area west of town.

I cannot read the map in the library as the print is too small.

Not sure if the people from this area have contacted you. Will be running into them and want to let them know how to pursue their desire for a Conservation area.



**Sue Morman**

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**From:** notification@pima.gov  
**Sent:** Wednesday, December 03, 2014 9:52 AM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-03 09:51 AM Submission Notification

**Pima Prospers Feedback Form 2014-12-03 09:51 AM** was submitted by Guest on 12/3/2014 9:51:30 AM (GMT-07:00) US/Arizona

Name	Value
First Name	Dave
Last Name	Devine
Email	<a href="mailto:ddevine1705@yahoo.com">ddevine1705@yahoo.com</a>
Address	1705 E. Water Street
City	Tucson
State	AZ
Zipcode	85719

**Message Subject** Comments on draft plan

**Comment**

Since 1980, the percentage of people in Pima County living on wages below the federal poverty level has risen from approximately 14 percent to 20 percent. Given current and future economic development possibilities in the county, that steady increase shows no signs of abating. To change this direction, commentators for decades have pointed to the importance of improving education in Pima County as a key component. As was stated in the Arizona Daily Star in 1989: "business leaders and [TUSD] district officials said that without a 'good educational system' businesses here would suffer because future employees and entrepreneurs would lack education needed to succeed." Despite that and numerous other warnings, public education funding has been drastically cut in Arizona and in Tucson voters in many school districts have denied spending overrides. Thus, Pima County's economy has stagnated and the new jobs that are created are mostly low paying in the service sector. To address this issue, the draft plan emphasizes transportation and tourism related economic development projects, the same types of recommendations that have been issued for many years. But trying the same thing and expecting different results won't bring about different outcomes. As an alternative, I believe reducing the county's poverty rate as well as lifting wage rates should be specific goals in the plan. In addition, the focus of tourism should be dropped. According to the U.S. Bureau of Labor Statistics, the average hourly earnings of an employee in the leisure and hospitality supersector was \$14.06/hour, and the average number of hours worked weekly was 26.2. In comparison, mit.edu shows that for Tucson, one adult with one child needs to earn \$19.10/hour to take home a "living wage." Thus, most new jobs in the tourism sector will create more poverty, not reduce it. In addition, a policy 8 should be added to section 5.4 "Workforce Training/Education Element" that would read: The Board of Supervisors should support the creation of a Regional Education Association to be funded by a voter approved sales tax increase. These funds will be distributed to all public schools, from K-8 to the University of Arizona, on an annual basis for approved projects." In conclusion, Pima County is not prospering now, nor has it been since the Great Recession. Without investing more in education, the possibility of reversing that trend seems unlikely. The

Board of Supervisors needs to take a leadership role in this area, or by 2020 and beyond, who knows what the poverty rate in Pima County will be. Thank you.

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona



**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Tuesday, December 09, 2014 1:27 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-09 01:27 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-09 01:27 PM** was submitted by Guest on 12/9/2014 1:27:12 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	amber
<b>Last Name</b>	mathewson
<b>Email</b>	<a href="mailto:amber.dawn50@gmail.com">amber.dawn50@gmail.com</a>
<b>Address</b>	17751 S Placita de Niquel
<b>City</b>	Sahuarita
<b>State</b>	AZ
<b>Zipcode</b>	85629

**Message Subject** Remember the Aging in our Communities

**Comment** The population of older adults in Tucson and Pima County is growing. This change in demographics has huge implications for planning and policy making going forward. As the council responsible for planning, Pima Council on Aging is the Area Agency for Aging in our area and needs government support for a robust planning capability. City, county and regional governments need to fund this capability.

**Response requested** No

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona



**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Monday, December 08, 2014 9:44 AM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-08 09:44 AM Submission Notification

**Pima Prospers Feedback Form 2014-12-08 09:44 AM** was submitted by Guest on 12/8/2014 9:44:03 AM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Maria
<b>Last Name</b>	Ramirez-Trillo
<b>Email</b>	<a href="mailto:mrtrillo@aarp.org">mrtrillo@aarp.org</a>
<b>Address</b>	6700 N Oracle Rd, Ste 332
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85704

**Message Subject** Support for Aging Services Professional Planner

**Comment** Greetings to the members of the City of Tucson and Pima County Consortium: As a member of the ELDER Alliance, we seek support for a professional planner for aging services in Pima County. With the ever growing population of older adults in the Tucson and Pima County areas, there will be huge implications for planning and policy making in the near future. Funding will be needed to fill the position of a professional planner for aging services. As the local Area Agency on Aging has responsibility for this planning, Pima Council on Aging, will need government support for a robust planning capability. Thank you in advance for your consideration of this request. Respectfully, Maria Ramirez-Trillo AARP Arizona and ELDER Alliance Member Associate State Director-Community Outreach 602 577-4862 or 1-866-389-5649 (toll)

**Response requested** No

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona



**Sue Morman**

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**From:** notification@pima.gov  
**Sent:** Friday, December 05, 2014 3:27 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-05 03:26 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-05 03:26 PM** was submitted by Guest on 12/5/2014 3:26:42 PM (GMT-07:00) US/Arizona

**Name** **Value**

**First Name** Kathy

**Last Name** Wilson

**Email** [kathy.wilson@itngreatertucson.org](mailto:kathy.wilson@itngreatertucson.org)

**Address** 3543 N. Stone Ave

**City** Tucson

**State** AZ

**Zipcode** 85705

**Message Subject** Page 4.23 Physical Infrastructure Connectivity Goal 3

By 2020 25% of Pima county residents will be 60 or older, compared to about 15% today. The fastest growing segment is the 85+ population. This has many implications for our community when it comes to housing, transportation needs, human services, health care access, and many other issues. In order to ensure that our community can respond to changing demographic needs, we need to support a professional planning effort, taking into account our changing population. With the right plan and infrastructure, these older citizens can remain active and connected with affordable housing and access to transportation and to services. Pima Council on Aging (PCOA), our Area Agency on Aging is part of a national network of agencies that help communities plan to deliver

**Comment** services and supports to older residents. Since many Area Agencies on Aging are part of county governments in other communities, planning for older adults is a natural part of the process. Since Pima County has a non-profit Area Agency on Aging, we need to create a position within PCOA, supported by each jurisdiction within the county in order to make the most of our collective resources. Pima County is a great place to live. Let's work together to ensure that our older citizens can continue to live here, remain independent and live in their own homes for as long as possible. In addition, these older folks have considerable talents and wisdom to share. Let's value their contributions by putting some effort into keeping them connected. Kathy Wilson Member, Elder Alliance and Executive Director ITN (Independent Transportation Network) Greater Tucson

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

Sue Morman

✓

**From:** notification@pima.gov  
**Sent:** Friday, December 05, 2014 2:36 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-05 02:35 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-05 02:35 PM** was submitted by Guest on 12/5/2014 2:35:58 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	LaVonne
<b>Last Name</b>	Douville
<b>Email</b>	<a href="mailto:ldouville@unitedwaytucson.org">ldouville@unitedwaytucson.org</a>
<b>Address</b>	330 N Commerce Park Loop
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	98145

**Message Subject** Human Services 5.1, goal 9

The ELDER Alliance is a group of committed adults concerned about planning and policy making for our aging population. Every day more people are joining the 65+ and 85+ population with an overall increase projected by 2020 of at least 30%. As a member and leader within the ELDER Alliance, I join others in agreeing that Pima Council on Aging, as the area agency on aging in Pima County, needs to be supported by Pima County and City of Tucson governments, and the United Way and Community Foundation to hire planning staff to work with various City, County, and community agencies to develop a comprehensive plan and policy actions to address the growing needs of this important population and resource in our community. We strongly believe that Pima County should be one of the contributing partners to fund PCOA to lead this important part of our community's plans for the future.

**Comment**

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

Sue Morman

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**From:** notification@pima.gov  
**Sent:** Friday, December 05, 2014 2:35 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-05 02:34 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-05 02:34 PM** was submitted by Guest on 12/5/2014 2:34:45 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Lucy
<b>Last Name</b>	Read
<b>Email</b>	<a href="mailto:read4481@aol.com">read4481@aol.com</a>
<b>Address</b>	P.O. Box 80316
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85751

**Message Subject** Planning for Senior Services and Programs

**Comment** I am a Community Mobilizer associated with the ELDER Alliance which seeks to make Pima County as elder-friendly as possible. It is hard to believe that there is no designated Planner for Senior Services and Programs in Pima County! In an effort to assist planning for the influx of Boomers and others in this area, I hope you will consider funding such a position at Pima Council on Aging. Thank You.

**Response requested** No

**Referred Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona



**Sue Morman**

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**From:** notification@pima.gov  
**Sent:** Friday, December 05, 2014 1:21 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-05 01:20 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-05 01:20 PM** was submitted by Guest on 12/5/2014 1:20:48 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Dot
<b>Last Name</b>	Esler
<b>Email</b>	<a href="mailto:desler@unitedwaytucson.org">desler@unitedwaytucson.org</a>
<b>Address</b>	330 N Commerce Park Loop suite 200
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	857

**Message Subject** Planning for AGING

**Comment** I am a member of the ELDER Alliance and a 30 year resident of PIma County. I care about our commmunity and believe we need to be sure to consider the following as you work on finalizing this plan. The demographic shift in population is underway. According to the US Census in 2013 23% of our population is over 60 year of age. With over 10,000 babyboomers turning 65 every day in the United States, estimates indicate that this number will be over 30% within 10 years.. The implications of this growing older population for planning and policy making are enormous. The Area Agency for Aging bears the responsibility for planning for aging services. PIma Council on Aging is that designated body in Pima County and needs government support in order to have a robust planning capacity. The city of Tucson, PIma County and other regional municipalities need to provide funds to pay for a professional planner focused on the issues related to aging. Any plan for the future should address this need. The population of older adults will continue to grow and social change will occur, our government needs to proactively be prepared to deal with these changes.

**Response requested** No

**Referred Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

**Sue Morman**

---

**From:** notification@pima.gov  
**Sent:** Wednesday, December 03, 2014 11:05 AM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-12-03 11:05 AM Submission Notification

**Pima Prospers Feedback Form 2014-12-03 11:05 AM** was submitted by Guest on 12/3/2014 11:05:29 AM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Anthony R
<b>Last Name</b>	Bruno
<b>Email</b>	<a href="mailto:Tbruno@uchcaz.org">Tbruno@uchcaz.org</a>
<b>Address</b>	28200 S Foxwood Way
<b>City</b>	Amado
<b>State</b>	AZ
<b>Zipcode</b>	85645

**Message Subject** Kudos for the overall plan with Comments

I recently had the opportunity to review the plan in its entirety. I was pleased with the road map this plan provides and how it integrated all areas of concern. With that said I was a little surprised that it did not take into account what opportunities already exist in Pima County when it came to goal 5 and additional ways to support what already exists. I am specifically speaking of Goal 5, health and well being. Health in rural communities means health and health care availability not just the fact that we need hiking and biking trails.

**Comment** Many rural areas in Pima County are considered target areas for not only health related issues but poverty. These communities may already have health care clinics or health care plans in place or planed for the future. These opportunities provide not only for health but for economic development in these areas and goal 5 should support the current health care and related organizations but allow for those planned for in the future. Goal 5 seems to be more focused on lifestyles rather than completely investing in local public service facilities,

**Response requested** No

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona

Message received 10/21/14 from Donna Heidinger. She does not want RP-14 (~ 220(?)) removed as the site could be rebuilt at some point and she wants the policies to carry forward.

Doesn't want to lose what they worked for with the Westcor agreement.

Her numbers are 297-9761 (Hm) / 349-5667

Email is best - - LCMNA2@AOL.COM

## Janet Emel

---

**From:** Laura Penny <lpenny@womengiving.org>  
**Sent:** Tuesday, October 21, 2014 3:19 PM  
**To:** Arlan Colton  
**Cc:** Janet Emel  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Perfect! Thanks, Arlan.

Laura

---

**From:** Arlan Colton [mailto:Arlan.Colton@pima.gov]  
**Sent:** Tuesday, October 21, 2014 2:59 PM  
**To:** Laura Penny  
**Cc:** Janet Emel  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Thanks Laura, and good to hear from you! It does. It is covered in Chapter 1 under Vision, mentioned elsewhere as well, and the link is given to the entire vision as we just had to summarize. As it turns out, there are not many land use changes in the unincorporated area where we could do anything sweeping to change the land use pattern, which is mostly set. However the policies I think are indicative of creating a healthy community and moving toward implement of the Vision. Much will need to be done inside incorporated communities, particularly. After you peruse the document, if you have any comments, thoughts or suggestions, let us know before the end of the calendar year.

Thanks much,

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

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**From:** Laura Penny [mailto:lpenny@womengiving.org]  
**Sent:** Tuesday, October 21, 2014 1:13 PM  
**To:** Arlan Colton  
**Subject:** FW: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Hi Arlan,

I haven't had a chance to read this in any depth, but I am hoping that the findings from Imagine Greater Tucson informed the planning process and are cited in the comprehensive plan. That is yet another way for the county to consider public input, since many of us (including you!) spent many hours soliciting public input and comment as IGT volunteers.

Thank you,  
Laura Penny

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**From:** Janet Emel [<mailto:Janet.Emel@pima.gov>]  
**Sent:** Tuesday, October 21, 2014 1:06 PM  
**To:** Janet Emel  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Hello,

Pima County has been in the process of preparing a draft update to the Pima County Comprehensive Plan - called "Pima Prospers". If approved, Pima Prospers is to be our plan looking ahead about 20 years into the future. It has been built on the ideas of hundreds of Pima County residents from Ajo to Vail, Catalina to Arivaca Junction, many business and citizen interests in our communities, representatives from the other jurisdictions in the region, and more than 100 county staff members from many departments.

With the much-appreciated participation by many of you, Pima County Development Services Department – Planning Division presents Pima Prospers Draft 2 – the proposed update to the Pima County Comprehensive Plan as found on the website [www.pimaprospers.com](http://www.pimaprospers.com). The website will look different but is intended to be very user friendly for your review of the draft plan.

Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but as you may be aware, is absent some parts that must come later, after public review (e.g. fiscal impact study).

We are now undergoing the 60-day review period. **Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014 (but of course, the earlier the better).**

If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at (520)724-9000.

Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

## Janet Emel

---

**From:** Arlan Colton  
**Sent:** Tuesday, October 21, 2014 2:54 PM  
**To:** Valenzuela, Dr. Manuel O.; Carla Blackwell  
**Cc:** Janet Emel  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

I appreciate your comments. We'll take a look at seeing what we can do.

Thanks!  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

**From:** Manny Valenzuela [mailto:mvalenzuela@sahuarita.net]  
**Sent:** Tuesday, October 21, 2014 1:37 PM  
**To:** Arlan Colton; Carla Blackwell  
**Subject:** Fwd: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Thanks for sharing this comprehensive and informative document. It is certainly very impressive and reflective of a most detailed and methodical process.

I suggest that, in any way that it fits, the importance of the K-12 school community and strategic partnerships, field experiences, and intentional planning efforts be part of the plan. This may be a valuable piece in regional alignment and growth of congruent educational programs, economic development, workforce development, and overall quality of life.

Again, thanks for your hard work with this effort, and for the opportunity to share.

Sincerely,

Manuel O. Valenzuela, Ed.D.  
Superintendent  
Sahuarita Unified School District  
350 W. Sahuarita Rd.  
Sahuarita, AZ 85629  
Ph (520)625-3502 x1001 Fax (520) 625-5380

----- Forwarded message -----

From: **Janet Emel** <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

Date: Tue, Oct 21, 2014 at 1:04 PM

Subject: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

To:

Cc: Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

Hello,

Pima County has been in the process of preparing a draft update to the Pima County Comprehensive Plan - called "Pima Prospers". If approved, Pima Prospers is to be our plan looking ahead about 20 years into the future. It has been built on the ideas of hundreds of Pima County residents from Ajo to Vail, Catalina to Arivaca Junction, many business and citizen interests in our communities, representatives from the other jurisdictions in the region, and more than 100 county staff members from many departments.

With the much-appreciated participation by many of you, Pima County Development Services Department – Planning Division presents Pima Prospers Draft 2 – the proposed update to the Pima County Comprehensive Plan as found on the website [www.pimaprospers.com](http://www.pimaprospers.com). The website will look different but is intended to be very user friendly for your review of the draft plan.

Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but as you may be aware, is absent some parts that must come later, after public review (e.g. fiscal impact study).

We are now undergoing the 60-day review period. **Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014 (but of course, the earlier the better).**

If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at [\(520\)724-9000](tel:5207249000).

Thank you,

✓

**Sue Morman**

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**From:** Janet Emel  
**Sent:** Tuesday, November 18, 2014 3:13 PM  
**To:** Arlan Colton; Carla Blackwell; janet\_emel@hotmail.com; Sue Morman  
**Subject:** FW: Pima Prospers Feedback Form 2014-11-18 03:13 PM Submission Notification

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**From:** [notification@pima.gov](mailto:notification@pima.gov)  
**Sent:** Tuesday, November 18, 2014 3:13:10 PM (UTC-07:00) Arizona  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-11-18 03:13 PM Submission Notification

**Pima Prospers Feedback Form 2014-11-18 03:13 PM** was submitted by Guest on 11/18/2014 3:13:10 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Wendy
<b>Last Name</b>	Swager
<b>Email</b>	<a href="mailto:wendy@soreo.com">wendy@soreo.com</a>
<b>Address</b>	9107 E Smoke Rise Drive
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85715

**Message Subject** Human Infrastructure Connectivity

**Comment** Excellent document! On Page 5.23 it states for Goal 1 b. "Support investment for training of direct care workers and the Caregiver Training Institute." I do not think it is appropriate for Pima County to identify a specific training program, Caregiver Training Institute. There are many other state approved training programs in Tucson such as Practical Training Solutions, ABIL and A.I.R.E.S. Direct Care worker training programs are approved and monitored by the State of Arizona AHCCCS program or their contracted MCOs. This goal should be re-written to state "Support investment for training of direct care workers through state approved training programs."

**Response requested** Yes

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

**Sue Morman**

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**From:** notification@pima.gov  
**Sent:** Thursday, November 13, 2014 3:06 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-11-13 03:06 PM Submission Notification

**Pima Prospers Feedback Form 2014-11-13 03:06 PM** was submitted by Guest on 11/13/2014 3:06:29 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Adam
<b>Last Name</b>	Kmiec
<b>Email</b>	<a href="mailto:adamkmiec@comcast.net">adamkmiec@comcast.net</a>
<b>Address</b>	2338 E Stone Stable Dr.
<b>City</b>	Oro Valley
<b>State</b>	AZ
<b>Zipcode</b>	85737

**Message Subject** Transportation

**Comment** The Comprehensive Plan is really impressive and contains all the basic elements that need to be included in the future Pima County planning. Most of the elements are described in general term, of course, and the details will be included in the annual plans of particular county departments. I hope that the detailed transportation plans for the coming years will conform to the Chapter 4, Transportation, Goal 2, "Maintain the county roadway system in a state of good repair", and will include the neglected for years Edwin Road, east of Lago Del Oro (in Tortolita Planning Area).

**Response requested** Yes

**Referred\_Page** [http://webcms.pima.gov/government/pima\\_prospers/](http://webcms.pima.gov/government/pima_prospers/)

Thank you, Pima County, Arizona

**Sue Morman**

---

**From:** notification@pima.gov  
**Sent:** Wednesday, November 12, 2014 2:38 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-11-12 02:38 PM Submission Notification

**Pima Prospers Feedback Form 2014-11-12 02:38 PM** was submitted by Guest on 11/12/2014 2:38:14 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Lois
<b>Last Name</b>	Berkowitz
<b>Email</b>	<a href="mailto:offers2@att.net">offers2@att.net</a>
<b>Address</b>	
<b>City</b>	
<b>State</b>	AZ
<b>Zipcode</b>	85755

**Message Subject** Mandatory green building parameters

**Comment** See page 9.88, RP-122: 1. page 9.88, Ref: RP-122, B: - should change "Example measures may include..." to "Measures shall include...". These conditions should be mandatory not optional. Note all other policies under RP-122 are mandatory. 2. Policies 1-3 listed under RP-122, B should be added to and made mandatory for EVERY new building project, commercial or residential in the Pima Prospers document. There is no conceivable justification for new construction to be made without regard to 1. Solar orientation of buildings; 2. Landscape design to enhance shading of buildings and reduce urban heat island effects; and 3. On-site rainwater harvesting with the goal of augmenting or meeting irrigation needs. These rudimentary conservation efforts must be part of development in Pima County to improve quality of life for all.

**Response requested** Yes

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona

**Sue Morman**

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**From:** notification@pima.gov  
**Sent:** Wednesday, November 05, 2014 5:02 PM  
**To:** Sue Morman  
**Subject:** Pima Prospers Feedback Form 2014-11-05 05:02 PM Submission Notification

**Pima Prospers Feedback Form 2014-11-05 05:02 PM** was submitted by Guest on 11/5/2014 5:02:02 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Caroline
<b>Last Name</b>	Salcido
<b>Email</b>	<u>csal2929@aol.com</u>
<b>Address</b>	4905 W Cashin Dr
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85757

**Message Subject** Southwest of Tucson Meeting Space Needs & Services for the Non-Elderly Disabled  
**Comment** The area southwest of Tucson lacks public meeting rooms. Usable space could possibly be added to the Southwest branch library or senior center. The county may also consider including the non-elderly disabled population in senior activities as both groups have similar needs.

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona



December 22, 2014

Mr. Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
Arlan.Colton@pima.gov

Dear Mr. Colton,

Thank you for providing Pima Association of Governments (PAG) the opportunity to review and share comments on Draft 2 of the Pima County Comprehensive Plan Update ("Update").

As you may know, PAG serves the local jurisdictions and tribal governments in Pima County as a council of governments to coordinate regional decision making. PAG also serves as the federally designated metropolitan planning organization (MPO) for regional transportation planning, through a process that is continuous, cooperative, and comprehensive. As an MPO, PAG must provide for consideration and implementation of projects, strategies, and services that will address the following factors:

- (1) Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency;*
- (2) Increase the safety of the transportation system for motorized and non-motorized users;*
- (3) Increase the security of the transportation system for motorized and non-motorized users;*
- (4) Increase accessibility and mobility of people and freight;*
- (5) Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;*
- (6) Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;*
- (7) Promote efficient system management and operation; and*
- (8) Emphasize the preservation of the existing transportation system.*

Understanding that Pima County and PAG coordinate frequently on regional planning decisions, the goals, policies, and implementation measures described in the Update appear to be consistent with these factors for metropolitan transportation planning. For example, the Update includes the goal of promoting economic development with strategic transportation investments. It also includes the goal of providing a comprehensive and multi-modal

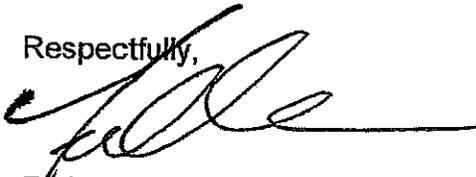
transportation system that provides mobility for all users and goods, and all modes of travel including automobile, transit, bicycling, and walking. We understand the critical importance of the transportation network to community prosperity and noted that "Infrastructure (especially transportation . . ." was the first of the top five topics most commented on for the Update as indicated in Chapter 1.

As you and your team work to finalize the Update, below are a few comments for your consideration.

- Chapter 4, Physical Infrastructure and Connectivity, Transportation Element – Should you wish to reference the most recently adopted long-range transportation plan, the PAG 2040 RTP Update, please let us know if we can be of assistance. Transportation projects of regional significance must be included in an adopted long-range transportation plan to be eligible for funding through regionally programmed funding sources.
- Chapter 6, Economic Development Element, Page 6.9 – Although the Sun Corridor MPO was not involved in the development of the Freight Transportation Framework Study, please note that it has joined the Joint Planning Advisory Council (JPAC).
- Appendix E, Glossary – PAG's organizational structure no longer includes Environmental and Energy Planning divisions. Instead, it currently includes Transportation Planning, Sustainable Environment Planning, and Technical Services divisions.
- General – Where PAG is mentioned specifically (e.g., Chapter 6, Goal 8, Policy 5) or referred to generally as a regional partner, we look forward to supporting Pima County's efforts to reach these goals.

Thank you again for the opportunity to review and provide comments on draft 2 of the Pima County Comprehensive Plan Update, a document which will serve as an important planning tool over the next decade. If you have any questions or comments, please feel free to contact me, PAG Deputy Director, Cherie Campbell, or PAG Transportation Planning Director, John Liosatos, at (520) 792-1093.

Respectfully,



Farhad Moghimi, P.E.  
Executive Director  
Pima Association of Governments

Cc: Ms. Cherie Campbell, Deputy Director, PAG  
Mr. John Liosatos, Transportation Planning Director, PAG

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Tuesday, December 23, 2014 9:52 AM  
**To:** Janet Emel  
**Subject:** FW: Pima County Comprehensive Plan Update, Draft 2: PAG comment letter  
**Attachments:** Pima County Comp Plan Update Draft 2, PAG comment letter, Dec 22, 2014.pdf

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**From:** Jamie Brown [mailto:jbrown@pagregion.com]  
**Sent:** Monday, December 22, 2014 2:54 PM  
**To:** Arlan Colton  
**Cc:** 'Farhad Moghimi'; Campbell, Cheri; Liosatos, John  
**Subject:** Pima County Comprehensive Plan Update, Draft 2: PAG comment letter

Dear Mr. Colton,

In response to your letter regarding the review and comment period for Draft 2 of the Pima County Comprehensive Plan Update, please see the attached letter from Farhad Moghimi, Executive Director of Pima Association of Governments. Thank you for the opportunity.

Respectfully,

Jamie

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### Jamison (Jamie) Brown

*Senior Transportation Planner*



Pima Association of Governments

1 E. Broadway Blvd, Suite 401

Tucson, Arizona 85701

(520) 792-1093 (PAG front desk)

(520) 495-1473 (Direct)

(520) 620-6981 (Fax)

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THE STATE OF ARIZONA  
**GAME AND FISH DEPARTMENT**

5000 W. CAREFREE HIGHWAY  
 PHOENIX, AZ 85086-5000  
 (602) 942-3000 • WWW.AZGFD.GOV

REGION V, 555 N. GREASEWOOD ROAD, TUCSON, AZ 85745

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**DIRECTOR**

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TY E. GRAY



Arlan M. Colton, FAICP  
 Planning Director  
 Pima County Development Services Department,  
 Planning Division  
 201 N. Stone Avenue, 2<sup>nd</sup> floor  
 Tucson, AZ 85701

RECEIVED  
 DEC 22 2014

Re: Pima County Comprehensive Plan

Dear Mr. Colton:

The Arizona Game and Fish Department (Department) has reviewed the draft update to the Pima County Comprehensive Plan called "Pima Prospers". The Department recognizes the need for the County to balance economic growth with adequate services and quality of life for Pima County residents. The Department commends the County's recognition of the importance of a healthy environment and the role that plays in the overall health and prosperity of the County, and in particular the emphasis the County has placed on the continuance of wildlife habitat conservation. Arizona Revised Statute (ARS) §17-102 codifies state ownership of wildlife. The Department has public trust responsibility and primary authority to manage and regulate take of wildlife within the state of Arizona irrespective of landownership, excepting those wildlife existing on tribal trust-status lands. We provide the following comments for consideration in the Plan.

In general, the Department recommends identifying, protecting, and conserving desert washes and riparian areas to the extent possible. Pima County, through its Sonoran Desert Conservation Plan and Regional Flood Control District policies, has clearly demonstrated it places great emphasis on protecting these features as well.

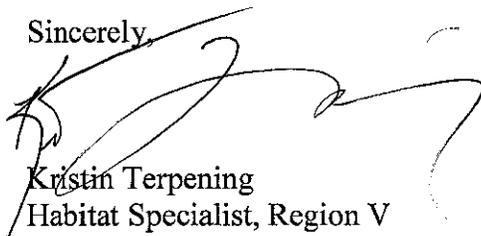
Habitat connectivity for wildlife movement should be considered in all County development planning. In 2006, the Arizona's Wildlife Linkages Assessment was published, representing the results of a stakeholder workshop at which important potential wildlife linkage zones were identified. A subset of wildlife linkage zones identified in the 2006 report were further analyzed and developed into detailed modeled corridors based on suitability characteristics of the landscape. Funded by the Department, a team of conservation biologists and GIS analysts at Northern Arizona University modeled detailed wildlife linkage designs for 16 priority areas highlighted in the Wildlife Linkages Assessment. These design plans identify and map multi-species corridors that will best maintain wildlife movement between wildland blocks, as well as highlight specific planning and road mitigation measures required to maintain connectivity in these corridors. Four of the original detailed wildlife linkage designs occurred in Pima County.

Sonoran Desert via the threat of a drastically altered fire regime in a non-fire-adapted desert community. Including such language in the Comprehensive Plan demonstrates to Pima County residents, as well as neighboring Counties, Pima County's commitment to responsibly manage and develop the county while maintaining its unique identity and iconic desert environment.

**Page 9.64/RP-107** - Add Sahara mustard (*Brassica tournefortii*) to the list of species not to be used in RP-107, under any circumstances, for landscaping or revegetation.

The Department appreciates the opportunity to provide comments on the draft Pima County Comprehensive Plan as well as the opportunity to maintain a collaborative relationship with Pima County for incorporation of wildlife values throughout the various development and planning processes. Please contact me at 520-388-4447 or [kterpening@azgfd.gov](mailto:kterpening@azgfd.gov) if you would like to discuss any aspects of this letter or other wildlife-related issues.

Sincerely,



Kristin Terpening  
Habitat Specialist, Region V

cc: Raul Vega, Regional Supervisor, Region V  
Joyce Francis, Habitat Branch Chief  
Laura Canaca, Project Evaluation Program Supervisor

## Janet Emel

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**From:** Carla Blackwell  
**Sent:** Monday, December 22, 2014 3:50 PM  
**To:** Janet Emel; Arlan Colton  
**Subject:** FW: San Xavier District of the Tohono O'odham Nation Comments on Pima Prospers Comprehensive Plan Initiative

It appears that he is reacting to my stakeholder email, not the official 60 day review. Who at the nation received that?

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

---

**From:** Mark Pugh [mailto:mpugh@waknet.org]  
**Sent:** Monday, December 22, 2014 3:46 PM  
**To:** Carla Blackwell  
**Cc:** Michael Bends; Arlan Colton  
**Subject:** San Xavier District of the Tohono O'odham Nation Comments on Pima Prospers Comprehensive Plan Initiative

December 22, 2014

Carla,  
The San Xavier District Planning Department of the Tohono O'odham Nation has reviewed the draft version of Pima Prospers Comprehensive Plan Initiative, whose comments were due no later than today, December 22, 2014.

Due to time limitations, and other projects, the SXD Planning Department only reviewed the following sections of the drafted Pima County Comprehensive Plan:

- **Introduction**
- **Use of Land**
- **Physical Infrastructure Connectivity**
- **Economic Development**

In general, SXD planners were surprised that the Tohono O'odham Nation and the San Xavier District were not in any significant way mentioned or included in any of the 3 sections reviewed. As the Tohono O'odham Nation is part of the population, geography, and resources of Pima County, this would appear to be a considerable oversight on the part of the authorship of this document.

The following are some of the specific areas noted for what we believe where additional text should be included.

1. In the **Cultural Resources Element** there is no mention of the Tohono O'odham Nation's Cultural Resources Affairs Department for Archaeological and Historical reviews by the Tribal Historical Preservation Office and his staff.

2. On a related issue would be the **Environmental and Biological review** and the Nation's Environmental Protection Office, as reviewers of these resources within the County.
3. Within the **Water Resources Element** there is not mention of the SAWRA agreement with the TON and SXD, which includes CAP water allocations that could be available to County entities as a water resource. Also, of note is that the SXD is one area within the County which has not been mapped by FEMA.
4. Within the **Tourism Element** there is no mention of the National Historic Landmark, San Xavier del Bac Mission. As the premier historic mission in the Southwest, this international touristic destination should be importantly highlighted within this document.
5. Also of note is a lack of any written documentation of support for the people of the Nation or their needs or ambitions. Was there any coordination with the Nation in the planning of this document and uses of County resources?

The San Xavier District of the Tohono O'odham Nation remains involved in many issues and project integral to County future plans including the Sonoran Corridor and its planned crossing of the San Xavier District as part of the currently proposed route. In addition to transportation projects and the areas noted above, other areas include health issues, flooding issues, jobs, and economic development.

As such, we would be interested in seeing verbiage which acknowledges the issues and concerns the Tohono O'odham Nation in the future versions of this Comprehensive Plan Initiative. These are the initial and primary comments as related to the welfare of the Tohono O'odham Nation and the San Xavier District. We greatly appreciate be included in the review of the Pima Prospers Comprehensive Plan Initiative. Thank you.

Sincerely,

Mark C. Pugh  
Principal Planner  
San Xavier District  
[mpugh@waknet.org](mailto:mpugh@waknet.org)  
(520) 573-4076

---

**From:** Carla Blackwell [mailto:[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)]  
**Sent:** Tuesday, December 02, 2014 11:18 AM  
**To:** Carla Blackwell  
**Subject:** Pima Prospers Plan Review meetings

Pima Prospers is the vision and the name of Pima County's Comprehensive Plan update effort. The plan is being shaped – with your help – to guide the region's growth, conservation and community design for decades to come.

Based on your continued input at 25 community meetings, presentations to many groups and associations throughout the County, and your online comments, we have compiled the second draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan.

Pima County staff would like to share the features of this latest, more complete draft plan in a presentation and discussion with you. We invite you to:

## Janet Emel

---

**From:** Arlan Colton  
**Sent:** Tuesday, December 23, 2014 8:53 AM  
**To:** Janet Emel  
**Subject:** FW: Pima Prospers Section 4.6, New Comm Tech  
**Attachments:** Pima Co.-Pima Prospers 4.6 Comm Element CURRENT 10 Dec 2014.doc; Pima Co.-Pima Prospers 4.6 Comm Element EDITED 10 Dec 2014.doc

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**From:** Dr. Robert Jacobson, Bluefire Consulting [mailto:bluefire@well.com]  
**Sent:** Wednesday, December 10, 2014 9:40 PM  
**To:** Arlan Colton  
**Subject:** Pima Prospers Section 4.6, New Comm Tech

Hi Arlan,

November and December have been a bear: lots of changes and (welcome) challenges, including relocating myself (from Tucson to the County) and becoming engaged. I finally had a few days to clear my mind and come to grips with the Smart Citizens Pima opportunity.

The first thing I did was edit *Pima Prospers'* Section 4.6, New Communication Technologies. I added goals directives relevant to Pima Co.'s near- and longer-term futures. The results are attached. The document will be reedited, but first I wanted Mr. Huckleberry and you to explore my thoughts, see if we're on the same page.

(*Smart Citizens Pima* — now in the works — is a narrative that will describe SCP and align it with the goals and policies enunciated in the amended 4.6.)

My concern is not to get hung up in the Comp Plan process. My goal is to get the County behind SCP, incorporate a 501(c)3, raise funds, and begin organizing for SCP. It will be easier to do if 4.6 is amended as I've suggested and becomes part of the final Plan. But SCP can get done in other ways if amending the Plan becomes an issue. I welcome your thoughts.

Can we get together before the holidays, to talk about 4.6, SCP, and what comes next? Perhaps we can include Mr. Huckleberry? Thanks, Arlan.

Bob

Robert Jacobson, Ph.D.  
 Bluefire Consulting | Praxis Innovation by Design  
 Designing Innovation Platforms  
 Tucson, Arizona & The San Francisco Bay Area

Office: +1 520-762-7267  
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Skype:

bob.jacobson (with a dot)

Twitter: @Robert\_Jacobson

PIMA PROSPERS, Draft Comprehensive Plan

4.6 Communications Element

(Edit 1.0 Version, Dec 10, 2014)

Deleted: Current

Fast, efficient, affordable, and reliable communication networks, learning and collaboration technologies, and people-centric services – public, private, and hybrid -- are fundamental to the County's economic development and to its enhanced human-infrastructure connectivity described in their respective Elements.

These networks, technologies, and services are essential to the County's and its people's ability to meet social and environmental challenges and to seize forthcoming opportunities. They are where and how many of the County's social, cultural, governance, and economic activities get done today, which increasingly will take place in the virtual realm.

The people's ability to use these networks, technologies and services – as residents in communities, businesses, and cultural and educational organizations, and as economic and social actors – is equally important if they are to become the County's economic driver described in the Economic Development Element.

Goal 2: Encourage and ensure universal access on a countywide basis to fast, efficient, affordable, and reliable, wireless and broadband communication networks, learning and collaboration technologies, and people-centric services that support economic development – especially the formation and operation of regional innovation platforms that build on and multiply unique regional strengths and capabilities, and their connection to form a powerful southern element in Arizona's Sun Corridor,

Deleted: Provide

Deleted: access to

Deleted: countywide

Deleted:

Goal 3: Explore the use of emerging, advanced communication networks and collaboration technologies to (a) enhance the County's human-infrastructure connectivity and (b) increase the capacity of the County and its people to anticipate, plan for, and collaboratively meet social and environmental challenges and seize forthcoming opportunities,

Deleted: explore

Deleted:

Policy 1: Support and participate in the countywide development of facilities that provide fast, efficient, affordable, equitable, and reliable access to regional and community programs and services via wireless and broadband communication networks, and learning and collaboration technologies

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Policy 2: Proactively explore and exploit opportunities to extend wireless and

Deleted: Explore

Deleted:

broadband communication networks, learning and collaboration technologies, and people-centric services throughout the county's communities and rural areas.

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**Deleted:** of the county.

Policy 3: To meet the Goals stated above and throughout this Comprehensive Plan, promote and support the educated, thoughtful use of new communication technologies such as wireless and broadband networks (including fiber networks), learning and collaboration technologies, and people-centric services.

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**Deleted:** utilization  
**Deleted:** and installation of  
**Deleted:** .

**Goal 2 Implementation Measures:**

a. Continuously evaluate the communication, learning and collaboration, and people-centric service needs of the County's residents, communities, businesses, cultural and educational institutions, and overall prosperity and well being. Make this a regular part of the County comprehensive planning process.

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b. Procure, provide, and encourage the development of latest emerging networks, technologies, and services to meet the needs described in (a).

**Deleted:** Keep current with  
**Deleted:** the  
**Deleted:** latest emerging technologies to meet the needs of the county's residents and businesses.

b. Address changes in codes or ordinances as appropriate.

**Janet Emel**

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**From:** Arlan Colton  
**Sent:** Wednesday, December 17, 2014 2:32 PM  
**To:** Medler, Robert  
**Cc:** Janet Emel; Carla Blackwell  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Hi Robert,

For the people who have the official 60-day review deadline, that is Dec 22<sup>nd</sup>. But that affects mostly government agencies.

For others what I've said is that if the comments come in with the first few days of January, we will work to incorporate what we can into the draft the Commission sees ( with staff changes and public and stakeholder changes from the 2<sup>nd</sup> draft now on the website. After that, we will have to create (which we will anyway ) a matrix of comments with recommendations on each item in that matrix for incorporating, not incorporating, or partially incorporating or doing something else in combination with another. The commission will then have the 3<sup>rd</sup> draft plan with the page based matrix to go by for changes.

So we'll get the comments in either case, but just in a different format.

Hope that helps.

Best,  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

---

**From:** Robert Medler [mailto:RMedler@tucsonchamber.org]  
**Sent:** Wednesday, December 17, 2014 1:00 PM  
**To:** Arlan Colton  
**Subject:** FW: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Arlan,

What's the real deadline for feedback on the second draft?

Robert



**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Wednesday, December 17, 2014 1:24 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-17 01:24 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-17 01:24 PM** was submitted by Guest on 12/17/2014 1:24:09 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Bill
<b>Last Name</b>	McCreery
<b>Email</b>	<a href="mailto:bmccreery@casagv.org">bmccreery@casagv.org</a>
<b>Address</b>	780 S. Park Centre Ave
<b>City</b>	Green Valley
<b>State</b>	AZ
<b>Zipcode</b>	85614

**Message Subject** Aging Planner

**Comment** AS the Director of a nonprofit organization in Green Valley AZ for the last 20 years and a member of the Elder Alliance I see the need in Pima County for an Aging Planner. This person could support the efforts of our communities in planning for the needs of older adults that will undoubtedly grow in the near and distant future. This position could also work with PCOA to support the planning work they are doing to provide the necessary changes to our community to make them/it a good place to grow old. Thank you.

**Response requested** No

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona



**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Wednesday, December 17, 2014 1:10 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-17 01:09 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-17 01:09 PM** was submitted by Guest on 12/17/2014 1:09:59 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Mary
<b>Last Name</b>	Dillon
<b>Email</b>	<a href="mailto:mdillon@lungs.org">mdillon@lungs.org</a>
<b>Address</b>	
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	

**Message Subject** PCOA Support

**Comment** I am writing you today as a member of the ELDER Alliance to advocate for Pima County to address the need for a professional aging planner on staff at PCOA. Here are some key points to justify this need: → The population of older adults in Tucson and Pima County is growing. → This change in demographics has huge implications for planning and policy making going forward. → The Area Agency has the responsibility for planning. → Pima Council on Aging is the Area Agency for Aging in our area and needs government support for a robust planning capability. → City, county and regional governments need to fund this capability. Thank you.

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona



**Janet Emel**

---

**From:** Arlan Colton  
**Sent:** Tuesday, December 16, 2014 5:10 PM  
**To:** Bolton, Tim  
**Cc:** Janet Emel; Carla Blackwell  
**Subject:** RE: Meeting to discuss Comp Plan

Hi Tim....

Doing fine, thanks. Hopefully you are the same!

Good point. I think there is a difference between west and east of Wilmot Road. I think we have tried to reflect a good faith effort to try to recognize the draft Sahuarita Conceptual Plan west of Wilmot. Development in the eastern area (Corona de Tucson and surrounds) is different. There is as you know an existing wastewater treatment plant servicing this eastern area. It's capacity is limited, and would need expansion most likely to accommodate Hook M but there are no expansion plans for the area you've circled. We also don't tend to plan land for single institutional use (park and school) which I think is what is shown around the plant as they tend to migrate, though E might stand for employment come to think of it. By the time this land becomes marketable should Sahuarita annex it, we'd likely be looking at shifting sewage processing to a larger as yet unbuilt plant well to the west. Given the level of service capability that must be established with multiple annexations, and that we are planning for 20 years out, anything more than we've done to try to reflect the Town's future interests would be premature. And from a fully practical matter, I do think that anything east of Wilmot (in Sahuarita's context) is in any way, way more than 20 years out)

So, concluding, I think we are more than copasetic with the Town's conceptual interests as best as we can within our plan's time horizon west of Wilmot. East of Wilmot, we are way beyond the county's plan horizon relative to the Town's draft vision. I don't really see a conflict for all practical purposes.

Hope that makes sense.

Let me know if you want to chat more.

Thanks  
Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

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**From:** Tim Bolton [mailto:tbolton@azland.gov]  
**Sent:** Tuesday, December 16, 2014 3:11 PM  
**To:** Arlan Colton  
**Subject:** RE: Meeting to discuss Comp Plan

Hi Arlan – first off, I hope all is well. Second, I was looking over the SECAP land use plans again and then comparing them to Pima Prosper's land use plans and noticed that a large amount of State Land on the SECAP Plan does not mirror Pima Prosper's (see attached maps). I thought I would mention this as we discuss the planning area boundary lines at our last meeting and as I recall, the boundary lines will not be issue so long as the land use(s) mirror each other. Does this still create an issue? If so, I will meet with Sarah to discuss.

Tim Bolton  
Principal Planner  
Arizona State Land Department  
Southern Arizona Office  
177 N. Church Ave., Suite 1104  
520-209-4263  
520-209-4251 (fax)  
[tbolton@azland.gov](mailto:tbolton@azland.gov)

---

**From:** Arlan Colton [<mailto:Arlan.Colton@pima.gov>]  
**Sent:** Tuesday, December 02, 2014 9:16 AM  
**To:** Tim Bolton  
**Cc:** Jim Veomett  
**Subject:** RE: Meeting to discuss Comp Plan

Hi Tim  
I'm OK at 10 , but at 10:30, I have to bolt for the University. Why don't you come over here in case we have to look at something.

Arlan

---

**From:** Tim Bolton [<mailto:tbolton@azland.gov>]  
**Sent:** Tuesday, December 02, 2014 7:34 AM  
**To:** Arlan Colton  
**Subject:** RE: Meeting to discuss Comp Plan

Perfect. Lets meet at 10am (open to a location) Wednesday. Thank you Arlan.

Tim Bolton  
Principal Planner  
Arizona State Land Department  
177 N Church Avenue Suite 1104  
Tucson AZ 85701  
520-209-4263  
[tbolton@azland.gov](mailto:tbolton@azland.gov)

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**From:** Arlan Colton [[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)]  
**Sent:** Monday, December 01, 2014 6:05 PM  
**To:** Tim Bolton  
**Subject:** Re: Meeting to discuss Comp Plan

I could do Wednesday bet 9 and 10. Rest of Wednesday is shot and Thursday in in Phx and Ajo.

Sent from my iPhone

On Dec 1, 2014, at 3:50 PM, "Tim Bolton" <[tbolton@azland.gov](mailto:tbolton@azland.gov)> wrote:

Hi Arlan – I'd like to sit down and discuss the Comp Plan. I have some general comments and thoughts I would like to run by you before I draft a comment letter. Do you have time to chat on Wednesday or Thursday? Please let me know.

Thank you,

Tim Bolton  
Principal Planner  
Arizona State Land Department  
Southern Arizona Office  
177 N. Church Ave., Suite 1104  
520-209-4263  
520-209-4251 (fax)  
[tbolton@azland.gov](mailto:tbolton@azland.gov)

**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Wednesday, December 10, 2014 5:39 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-10 05:38 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-10 05:38 PM** was submitted by Guest on 12/10/2014 5:38:40 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Peter
<b>Last Name</b>	Archuleta
<b>Email</b>	<a href="mailto:archtruil@msn.com">archtruil@msn.com</a>
<b>Address</b>	2560 W Overton Ridge Pl
<b>City</b>	Pima County
<b>State</b>	AZ
<b>Zipcode</b>	85742

**Message Subject** Transportation Planning

**Comment** Our local arterial roads are taking a toll with the amount of traffic they must accommodate 24hours a day. The amount of air pollution produced by stop and go traffic will only deteriorate more as population in the area increases. There needs to be a bypass constructed connecting Aviation to I-10.reducing traffic thru downtown. Extend I-19 along the Oracle Rd corridor Hwy 79 in Pinal county as a toll HWY. Constructed, operated, and maintained by a private entity. Construct a loop system from Ina & I-10 along Ina, Skyline, sunrise east to I-10 also as a privately operated toll Hwy. Construct Tangerine as an expressway with limited access to Oracle Rd. Recognizing some outcry on the four suggested projects it is still the right direction to go for protecting our arterial roads from deteriorating so quickly and causing continued maintenance problems, minimizing personal vehicle damaged caused by poor roads, and minimizing air pollution by reducing idling vehicles.

**Response requested** Yes

**Referred\_Page** <https://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=42392>

Thank you, Pima County, Arizona

✓

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Monday, November 17, 2014 7:40 AM  
**To:** Sue Morman  
**Subject:** FW: Thank you from LWV in Green Valley

For file. Thanks

**From:** mgirardeau@aol.com [mailto:mgirardeau@aol.com]  
**Sent:** Monday, November 17, 2014 7:30 AM  
**To:** Arlan Colton; CarlaBlackwell@pima.gov  
**Subject:** Thank you from LWV in Green Valley

To Arlan Colton and Carla Blackwell,

Hello again from the Green Valley unit of the LWV Greater Tucson,

Thank you both for visiting with the GV unit members about the Pima Prospers long-range plan for the county. Your talk was full of important information about the future of the region. It is interesting to learn that the Millennial generation will not want to live in the country. Bringing people closer together where services are available already is what should be happening now. I hope your explanation will generate some e-mail comments from the people attending.

We appreciate the hard but interesting work you put in for so long to produce the new plan. Many thanks for your good explanation at the meeting.

Sincerely, Sue Girardeau, Program Chair, GV unit

**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Sunday, December 21, 2014 7:07 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-21 07:06 PM Submission Notification

**Pima Prospers Feedback Form 2014-12-21 07:06 PM** was submitted by Guest on 12/21/2014 7:06:52 PM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b>	Peg (Margaret)
<b>Last Name</b>	Sutherland-Jones
<b>Email</b>	<a href="mailto:sutherlandjones@cox.net">sutherlandjones@cox.net</a>
<b>Address</b>	9808 E. Rock Ridge Ct.
<b>City</b>	Tucson
<b>State</b>	AZ
<b>Zipcode</b>	85749

**Message Subject** 6.4 Our People as Econ. Driver, Goal1 Policy 2

**Comment** "Invest in workforce development..." A core solution to our economic problems (e.g., drawing businesses to Tucson) and many social problems (poor wages, dropouts, youth demoralization and crime) is for young people to KNOW that they can succeed in jobs in the REAL world. My suggestion is for Pima County to pioneer serious job training in high schools, using the German model of an intensive training track in the last two years of high school, concurrent with traditional education. (Please see a recent article in The Economist describing this). We can talk about a "favorable climate" and "support" forever, but we need real programs in focused job training. There are some programs already (one mentioned in the Star recently in a demanding machinist program). Such programs build maturity as well as job skills. It requires a concerted and well publicized effort, with outreach in low income area schools to bring students in. This is so essential for our County's success that we should make it a very high priority. By the way, don't consider waiting till they get to PCC, because many of them - particularly male students - will be out of reach by then. This is urgent. (Thank you for the chance to comment).

**Response requested** Yes

**Referred\_Page** [http://webcms.pima.gov/government/pima\\_prospers/](http://webcms.pima.gov/government/pima_prospers/)

Thank you, Pima County, Arizona

**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Saturday, December 20, 2014 10:28 AM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-20 10:27 AM Submission Notification

**Pima Prospers Feedback Form 2014-12-20 10:27 AM** was submitted by Guest on 12/20/2014 10:27:33 AM (GMT-07:00) US/Arizona

**Name** Value

**First Name** Jerry

**Last Name** Bodmer

**Email** [jlbodmer@gmail.com](mailto:jlbodmer@gmail.com)

**Address** 4851 South Harvest Moon Drive

**City** Green Valley

**State** AZ

**Zipcode** 85622

**Message Subject** Feedback on Pima Prospers Plan

First, I would like to congratulate the architects and contributors to to the Plan. It is comprehensive and well constructed to guide Pima County to its future state. I have only a few general comments below: Section 1.6 Population: This section states that population in the Sun Corridor will increase from 5.2 to 9.0 million. Water availability is inadequate to support that growth. Either a lot of water needs to magically appear, water use per capita needs to drastically decrease, or population growth needs to be significantly curtailed. In reality, all three are probably necessary. I see nothing in the plan which addresses the water/population issue that will mitigate crippling shortages in the planning horizon. While some good work is being done and is being proposed, the region still has its "head in the sand" regarding inevitable water shortages. It is the elephant in the room that no one wants to realistically acknowledge. The lust for money still trumps the truth. Goal Implementation Measures (in general): I am not sure that Measures in the Plan means "actions" or "metrics". If the former, the Plan may be better served by labeling these "Initiatives". If they are meant to be the latter, then they are poorly written. To be Measures (i.e. metrics), they need to be stated in terms that can actually be measured. That is, for example, completion dates, numerical targets, etc. They should also specifically state what is to be delivered and who is responsible. Is the TBD Appendix B mentioned in Section 10.8.C designed to address this? I firmly believe that what is measured gets done. Without this discipline all the good work in this Plan will never come to fruition. To me, intense attention and allegiance to Section 10.8 (the shortest section in the Plan!) is absolutely critical. Thankd you for the opportunity to comment.

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona

## Janet Emel

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**From:** Jeff M. Tannler <jmtannler@azwater.gov>  
**Sent:** Friday, December 19, 2014 12:56 PM  
**To:** Arlan Colton  
**Cc:** Janet Emel  
**Subject:** RE: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-Day Review

Dear Planning Director Arlan Miller Colton:

The Arizona Department of Water Resources appreciates the opportunity to review the Pima County Comprehensive Plan. We have reviewed the Plan and have no comments to offer at this time. Thank you,

**Jeff Tannler**

Area Director, Statewide Active Management Areas  
Arizona Department of Water Resources  
3550 North Central Avenue  
Phoenix, AZ 85012  
602.771.8424



**PROTECTING ARIZONA'S  
WATER SUPPLIES  
for ITS NEXT CENTURY**

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**From:** Janet Emel [mailto:Janet.Emel@pima.gov]  
**Sent:** Tuesday, October 21, 2014 6:58 AM  
**To:** nicole.ewing-gavin@tucsonaz.gov; BVella@orovalleyaz.gov; smore@ci.sahuarita.az.us; jgastelum@southtucson.org; rmahoney@marana.com; maria.arvayo@pascuayaqui-nsn.gov; bjwilson@cochise.az.gov; JGoodman@graham.az.gov; darrengerard@mail.maricopa.gov; Himanshu.Patel@pinalcountyaz.gov; mdahl@santacruzcountyaz.gov; monty.stansbury@yumacountyaz.gov; fmoghimi@pagregion.com; Jeff M. Tannler; Michael.Toriello@dm.af.mil; Bolton, Tim; medelman@azland.gov; aginfo@azag.gov  
**Cc:** Arlan Colton; Carla Blackwell; Janet Emel  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-Day Review

Hello,

On Monday, October 20, 2014 (yesterday) the Pima County Development Services Department – Planning Division mailed to you a disk copy of the proposed update to the Pima County Comprehensive Plan – called Pima Prospers (Draft 2) - for your review and comments. The draft may also be found on our website [www.pimaprospers.com](http://www.pimaprospers.com). This notification is in compliance with A.R.S. §11-805 regarding the comprehensive plan update 60-day review period.

Pima County has been in the process of preparing a Draft update to the Pima County Comprehensive Plan - called "Pima Prospers". If approved, Pima Prospers is to be our plan looking ahead about 20 years into the future. It has been built on the ideas of hundreds of Pima County residents from Ajo to Vail, Catalina to Arivaca Junction, many business and citizen interests in our communities, representatives from the other jurisdictions in the region, and more than 100 county staff members from many departments.

Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but is absent some parts that must come later, after public review (e.g. fiscal impact study).

**Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014.**

If you have any questions, please feel free to contact me at (520)724-9000.

Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)



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[www.pimaprospers.com](http://www.pimaprospers.com)

20 December 2014

Arlan M. Colton, FAICP  
Planning Director, Pima County Development Services Department  
201 N. Stone Avenue  
Tucson, Arizona 85701

Dear Mr. Colton: The members of the APSS (Astronomy, Planetary and Space Science) Consortium, representing the major astronomical organizations in Arizona, would like to commend you and your staff for leading development of the Pima Prospers draft. It offers an excellent overall framework for guiding the future direction of our county.

We offer the following comments on this draft:

1. Astronomy is the specific aim of Policy 17 for Goal 1 of land use on Page 3.5, which encourages areas to be more stringent than the code in all zones E1. Encouragement by itself is not sufficient to ensure a more stringent application. Code lighting limits should be reviewed to protect dark skies. Also, the special zone around Mt. Lemmon, E3a, should be included.
2. The implementation plan Point i. should also include notifying Mt. Lemmon operators about potential impacts of development or zoning requests.
3. In the Tourism section, Policy 3, Goal 1 – protect Sonoran Desert and Dark Skies! P.6.14. When addressing the comprehensive plan issues, this point should be an overriding approach relevant to all other aspects of the plan.
4. Chapter 9. Special Areas and Rezoning Policies. The special protective zones E1 and E3a in the Outdoor Lighting Code should be added to this chapter with detailed requirements for rezoning in these areas. Light limits go both with the area and the zoning within the area.

One point of fact: Goal 4 in public safety and emergency services attempts to define quality lighting – is there an adequate description on P.5.14?. For example, who will develop CPTED design standards? Many of the other items should be part of the adopted standards, eg item 6).

There are two related points, which do not include APSS activities as significant economic factors in the region:

1. Workforce development on p.5.22 – optics cluster/astronomy/APSS are not obviously mapped to or contained in what are stated as high-priority strategic sectors for developing the local economy.

2. Economic growth Policy 8, enhancing collaboration with UA, p. 6.5 – again, APSS is not mentioned as one category of economic engine where the University impacts the community.

We recommend for significant emphasis: the shared resource of dark night sky for the regional distribution of major research astronomy facilities is impacted by sky glow from the entire urban area. Although the E1 and E3a zones require special protection, for energy savings, preservation of the unique quality of the Sonoran desert ambience for residents and tourists, as well as protection of astronomical sites, reduction of unnecessary light at night throughout the region should be a strong goal of planning, regulation, and enforcement.

We suggest an alternative statement in the Glossary regarding Dark Sky/Skies in order to better capture the full range of the topic.

“Dark Sky/Skies: Preservation of the natural light/dark cycle through minimizing light pollution. Reducing unneeded light is essential to maintaining the viability of the numerous major astronomical assets in the region covered by the Plan and comes with proven economic, ecological and human health benefits.”

We would be pleased to meet with you to discuss further these issues and to answer any questions that you might have.

Your Truly,

Donald R. Davis and the APSS Consortium

## Janet Emel

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**From:** Carla Blackwell  
**Sent:** Monday, December 22, 2014 3:50 PM  
**To:** Janet Emel; Arlan Colton  
**Subject:** FW: San Xavier District of the Tohono O'odham Nation Comments on Pima Prospers Comprehensive Plan Initiative

It appears that he is reacting to my stakeholder email, not the official 60 day review. Who at the nation received that?

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Mark Pugh [mailto:mpugh@waknet.org]  
**Sent:** Monday, December 22, 2014 3:46 PM  
**To:** Carla Blackwell  
**Cc:** Michael Bends; Arlan Colton  
**Subject:** San Xavier District of the Tohono O'odham Nation Comments on Pima Prospers Comprehensive Plan Initiative

December 22, 2014

Carla,

The San Xavier District Planning Department of the Tohono O'odham Nation has reviewed the draft version of Pima Prospers Comprehensive Plan Initiative, whose comments were due no later than today, December 22, 2014.

Due to time limitations, and other projects, the SXD Planning Department only reviewed the following sections of the drafted Pima County Comprehensive Plan:

- **Introduction**
- **Use of Land**
- **Physical Infrastructure Connectivity**
- **Economic Development**

In general, SXD planners were surprised that the Tohono O'odham Nation and the San Xavier District were not in any significant way mentioned or included in any of the 3 sections reviewed. As the Tohono O'odham Nation is part of the population, geography, and resources of Pima County, this would appear to be a considerable oversight on the part of the authorship of this document.

The following are some of the specific areas noted for what we believe where additional text should be included.

1. In the **Cultural Resources Element** there is no mention of the Tohono O'odham Nation's Cultural Resources Affairs Department for Archaeological and Historical reviews by the Tribal Historical Preservation Office and his staff.

2. On a related issue would be the **Environmental and Biological review** and the Nation's Environmental Protection Office, as reviewers of these resources within the County.
3. Within the **Water Resources Element** there is not mention of the SAWRA agreement with the TON and SXD, which includes CAP water allocations that could be available to County entities as a water resource. Also, of note is that the SXD is one area within the County which has not been mapped by FEMA.
4. Within the **Tourism Element** there is no mention of the National Historic Landmark, San Xavier del Bac Mission. As the premier historic mission in the Southwest, this international touristic destination should be importantly highlighted within this document.
5. Also of note is a lack of any written documentation of support for the people of the Nation or their needs or ambitions. Was there any coordination with the Nation in the planning of this document and uses of County resources?

The San Xavier District of the Tohono O'odham Nation remains involved in many issues and project integral to County future plans including the Sonoran Corridor and its planned crossing of the San Xavier District as part of the currently proposed route. In addition to transportation projects and the areas noted above, other areas include health issues, flooding issues, jobs, and economic development.

As such, we would be interested in seeing verbiage which acknowledges the issues and concerns the Tohono O'odham Nation in the future versions of this Comprehensive Plan Initiative. These are the initial and primary comments as related to the welfare of the Tohono O'odham Nation and the San Xavier District. We greatly appreciate be included in the review of the Pima Prospers Comprehensive Plan Initiative. Thank you.

Sincerely,

Mark C. Pugh  
Principal Planner  
San Xavier District  
[mpugh@waknet.org](mailto:mpugh@waknet.org)  
(520) 573-4076

---

**From:** Carla Blackwell [mailto:Carla.Blackwell@pima.gov]  
**Sent:** Tuesday, December 02, 2014 11:18 AM  
**To:** Carla Blackwell  
**Subject:** Pima Prospers Plan Review meetings

Pima Prospers is the vision and the name of Pima County's Comprehensive Plan update effort. The plan is being shaped – with your help – to guide the region's growth, conservation and community design for decades to come.

Based on your continued input at 25 community meetings, presentations to many groups and associations throughout the County, and your online comments, we have compiled the second draft of Pima Prospers, the 10-year update of the County's Comprehensive Plan.

Pima County staff would like to share the features of this latest, more complete draft plan in a presentation and discussion with you. We invite you to:

- Attend any of our upcoming public meetings to hear a presentation on the plan, participate in discussions with us, and share your comments.
- Review the second draft plan and share your comments at [www.pimaprospers.com](http://www.pimaprospers.com) before the end of the year.

Saturday

December 6, 2014

Mission Branch Library

3770 S. Mission Road

10:30 am – Noon

Presentation at 10:45 am

Thursday

December 11, 2014

Ellie Towne Flowing Wells Community Center

1660 E. Ruthrauff Road

11:00 am – 12:30 p.m.

Presentation at 11:15 am

Saturday

December, 13 2014

Valencia Branch Public Library

202 W. Valencia Road

10:00 – 11:30 am

Presentation at 10:15 am

Monday

December 15, 2014

Rincon Valley Fire District, Station #1

8850 S. Camino Loma Alta

6:30 – 8 pm

Presentation at 6:45 pm

Wednesday

December 17, 2014

Kirk-Bear Canyon Branch Library

8959 E. Tanque Verde Road

5:30 – 7:00 pm

Presentation at 5:45 pm

Thursday

December 18, 2014

Quincie Douglas Branch Library

1585 E. 36<sup>th</sup> Street

Noon- 1:30 pm

Presentation at 12:15

Friday

December 19, 2014

Nanini Branch Library  
7300 N. Shannon Road  
2:00 – 3:30 pm  
Presentation at 2:15 pm

Saturday  
December 20, 2014  
Littletown Recreation Center  
6465 S. Craycroft Road  
10:30 a.m. – Noon  
Presentation at 10:45 am

For more information, or for individuals with disabilities who require special accommodations, please contact Lindsey at (520) 885-9009 or email [Lindsey@kaneenpr.com](mailto:Lindsey@kaneenpr.com).

*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

Message virus-scanned by Barracuda Spam Firewall

**Janet Emel**

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**From:** notification@pima.gov  
**Sent:** Monday, December 29, 2014 10:49 AM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2014-12-29 10:49 AM Submission Notification

**Pima Prospers Feedback Form 2014-12-29 10:49 AM** was submitted by Guest on 12/29/2014 10:49:22 AM (GMT-07:00) US/Arizona

<b>Name</b>	<b>Value</b>
<b>First Name</b> Dot	
<b>Last Name</b> Esler	
<b>Email</b> <a href="mailto:dotgardner@msn.com">dotgardner@msn.com</a>	
<b>Address</b> 10750 W Ina	
<b>City</b> Tucson	
<b>State</b> AZ	
<b>Zipcode</b> 85743	

**Message Subject** Special Area Policy for Picture Rocks Rural Activity Center

**Comment** As a resident of Picture Rocks, I believe measure to protect the rural character and to mitiage negative impacts of strip commercial along Sandario are important. Reviewing the individual policies A--this makes sense even thought the Picture Rocks Business Association is no longer in existence, sidewalks are the most important element. B. Again I think these kind of development guidelines are important but the Hitching area and access for equestrians is not relevant. The recommendations about parking are valid. C. Nothing wrong with southwestern or western motifs being promoted D. I agree NO HIGH RISES The other important issue not address is how to keep the dark skies at night. This is a value many residents hold in Picture Rocks. The special area should also highlight a connection to the Saguaro National Park.

**Response requested** No

**Referred\_Page** <http://webcms.pima.gov/cms/One.aspx?portalId=169&pageId=35831>

Thank you, Pima County, Arizona



# CITY OF TUCSON

Office of Integrated Planning

December 22, 2014

Arlan Colton  
Planning Director  
Land Use and Regulation  
Pima County Development Services  
201 N. Stone Ave.  
Tucson, AZ 85701

Dear Arlan:

City staff appreciates the opportunity to review and comment on the second draft of *Pima Prospers*, the County's Comprehensive Plan. We are well aware of the extensive commitment of time and energy that is necessary to undertake such a plan, and applaud you and your team for the range of issues addressed and the far reaching public participation process.

We also want to thank you for finding time in your busy schedule to meet with City staff from multiple departments to provide an overview presentation regarding *Pima Prospers Draft 2* and to field questions. The following observations and suggestions were provided by some of the departmental representatives who attended that meeting. If you should want to discuss any of these comments, I am happy to put you in touch with the author(s).

#### From Tucson Water Department

- From Tucson Water's perspective, *Pima Prosper* appears to be congruent with the water goals of *Plan Tucson* (the City of Tucson General and Sustainability Plan, adopted by the voters in Nov. 2013) and of Tucson Water.
- An additional goal that both the City and the County might want to include is that of making beneficial use of the Conservation Effluent Pool (CEP). Perhaps an additional goal added to section 4.2 supporting the use of the CEP for environmental/community benefits would be useful.

#### From the Office of Integrated Planning

- Regional Vision, pg. 1.4: Does the second sentence mean that the *Pima Prospers* reflects the Imagine Greater Tucson (IGT) vision, or that it reflects a vision that is more compete for the County than that provided by IGT? A bit further clarification of the vision could be useful given references to "the plan's vision" – such as that found in the second line on page 3.1. [*An Observation:* The answer to "1.4 What We Mean by *Pima Prospers*" appears to encompass elements of a vision.]
- Goal 1 Implementation Measures, pg. 3.5: Just a general suggestion that this subtitle might be revised to read "*Goal [# as appropriate] and Related Policy Implementation Measures.*" Also, it might be helpful to find a way to reference the explanation about the implementation measures provided in the second paragraph under "2.3 Using the Document." That was quite useful in understanding what the measures did not and did not include.
- Policy 6, pg. 3.3: Defining the various types of development specified in this policy would be helpful. Perhaps this could be done in the Glossary or in conjunction with the land use maps.



# CITY OF TUCSON

Office of Integrated Planning

- ✕ • Development Types: Throughout the document, a variety of types of development are referenced. For instance, about ten types of corridors are mentioned (e.g., “International Trade,” “Key Transportation,” “Revitalization Development Opportunity,” “Economic Development,” etc.). This can get a bit confusing. Is it possible that the number of types could be reduced? Perhaps in addition or alternatively, the type names and definitions could be included in the Glossary.
- ↳ • Policy 6, pg. 3.8: Consider revising second line of text to read “...Park as the major economic driver” to “...Park as a major economic driver” to acknowledge importance of economic diversity.
- ↳ • Policy 12, pg. 3.4: “Health Impact Assessment” may be a new concept for many readers. While it is defined in the Glossary, it might also be useful to introduce the concept in the introductory text of this section on page 3.2.
- ↗ • Goal 3, Implementation Measure f., pg. 3.12: Perhaps working with local jurisdictions could be included in addition to working with the State Land Department.
- ↳ • Policy 1, pg. 4.4: Unclear as to whether this policy also includes Davis-Monthan Air Force Base for the growth of aerospace, defense, and logistics industries.
- ↳ • Maps: Will the legibility of the maps be dependent on using the Internet for their use, or is the intention to make them more legible in print copies in future drafts? [Note: We know from our experience with *Plan Tucson* that map legibility can be challenging.]
- ↳ • Map Legends: Noted in printing maps at 11 x17, it was difficult to read the legend. Perhaps reformatting the legend would help address this problem.

## Office of Economic Initiative and Office of Integrated Planning

- Plan Tucson Future Growth Scenario Map: We would appreciate consideration being given to incorporating reference to the *Plan Tucson* “Future Growth Scenario Map” (Exhibit LT-7, pg. 3.144) in *Pima Prospers*. This illustrative map, which “reflects Plan Tucson policies that promote an emphasis on more sustainable approaches, such as focusing on use of existing infrastructure, fostering more transportation alternatives, and encouraging more mixed-use development” (*Plan Tucson*, pg. 3.143) appears consistent with *Pima Prospers* goals and policies, and with the acknowledgment that “most of the growth of the County will be within incorporated jurisdictions, most notably the City of Tucson and the Towns of Marana and Sahuarita” (*Pima Prospers*, page. 2).

Thank you for reviewing these comments. We wish you and your team a very happy and productive New Year as you work together to complete this comprehensive plan. We recognize that both the City and County are in pursuit of essentially the same overarching outcome - a region that allows everyone the opportunity to prosper – and look forward to ongoing collaboration to achieve this outcome.

Cordially,

Rebecca Ruopp  
Principal Planner

✓

**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#); [Carla Blackwell](#)  
**Subject:** FW: Pima Prospers Input/Protect Dark Skies  
**Date:** Friday, January 02, 2015 1:28:04 PM

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**From:** tina west [mailto:[tina\\_\\_west@hotmail.com](mailto:tina__west@hotmail.com)]  
**Sent:** Sunday, December 28, 2014 7:22 PM  
**To:** Arlan Colton  
**Subject:** Pima Prospers Input/Protect Dark Skies

Arlan,

Please include development policies that speak to the following:

1. Public and private utility companies must provide shields on streetlights to direct light onto the public street only and not onto neighboring private residential properties.
2. Individuals or organizations installing stand alone privately operated outside lights must provide shields to direct light onto their property alone and not onto adjacent or neighboring properties.
3. County properties must minimize to the fullest extent the electrical light brightness level of lighting installed at public facilities such as parks, recreation buildings, schools, ballfields etc. to reduce the significant negative impact of lighting on dark skies for the community and private neighborhoods.

I submitted extensive research information on the value of dark skies to public health and the economy.

Please let me know if my being more current plan draft specific would be of any value at this point.

Thanks,

Tina

✓

**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#); [Carla Blackwell](#)  
**Subject:** FW: PIMA PROSPERS INPUT Ajo/Gibson Arroyo Status  
**Date:** Friday, January 02, 2015 1:27:55 PM

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**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Sunday, December 28, 2014 7:07 PM  
**To:** Arlan Colton  
**Subject:** FW: PIMA PROSPERS INPUT Ajo/Gibson Arroyo Status

**ARLAN,**

Here again below, is my input to the Plan on the subject of Flood Control and the Ajo Arroyos. This project example Plan input is in the form of my comments to PCR Flood Control District regarding a current proposed project on the Gibson Arroyo. The Gibson arroyo is in eminent danger of being rip-rapped according to political designs which are over-riding even District engineers best attempts to advise to the contrary. Cumulatively, other Ajo arroyos will follow political demands.

Is there anything in the new Plan that could guide flood control development in the Ajo arroyos with some wisdom and sound planning development guidelines?????

I am afraid definitions such as "riparian" and other terminologies, specifics, etc. leave Ajo's arroyos without protection.

Please let me know if I can be heard by being more current draft plan citation specific.  
???????

**Tina**

---

From: tina\_\_west@hotmail.com  
To: bill.zimmerman@pima.gov  
Subject: RE: Ajo/Gibson Arroyo Status  
Date: Tue, 25 Nov 2014 14:24:09 -0700

Bill,

I am trying to prevent walking out to this area one day to find that the powers that be have leveled the arroyo out and left rip rap in place of trees and trails.

Please balance the "effectiveness" of the proposed project with consideration of:

1. Climate cooling contribution of arroyos left in natural green state
- 2 .Economic benefit of natural arroyos as aesthetic community greenbelts
3. Neighborhood open space recreation values to youth in isolated area
4. Cost of project to all taxpayers to benefit a few complaintants.
5. Throwing more good money after bad: building the bridge there caused the problem. Political pride prevents it's removal. A larger maintained natural arroyo crossing at Cedar Road on Gibson Arroyo works fine. At Second Street area sediment could fill in and gradually raise the road level at the crossing. Road Department did not consult with Flood Control Department.

Please do not effectively wipe out the natural potential of this area as part of a greenbelt trail from the Ajo School/Plaza to the Community Center Park.

Tina

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From: Bill.Zimmerman@pima.gov  
To: tina\_\_west@hotmail.com  
Subject: RE: Ajo/Gibson Arroyo Status  
Date: Mon, 24 Nov 2014 14:32:32 +0000

Morning Tina,

Plans are not scheduled to be completed until this coming spring and then an evaluation will be done to assess the effectiveness of the proposed improvement.

Hope you have a Happy Thanksgiving,

Bill Zimmerman  
Deputy Director  
97 E. Congress, 2<sup>nd</sup> Floor  
Tucson, AZ 85701  
520 724-4600

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**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Thursday, November 20, 2014 5:31 PM  
**To:** Bill Zimmerman  
**Subject:** Ajo/Gibson Arroyo Status

Hi Bill,

Would you please let me know the status of any plans for construction work in the Gibson Arroyo or any other Ajo area arroyos.

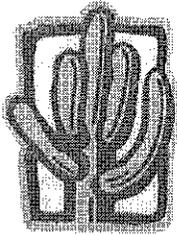
When your assistant Joseph Cuiffari met with me he said everything was under study status and did not have any site plans to show.

The 9/3/14 RPCFCD study document in the Ajo library contains a recommended Alternative for a debris basin and riprap at vertical drop points (which are numerous). Is this being pursued?

I am way behind, just trying to catch up with what might be going on.

Thank you,

Tina West



## Coalition for Sonoran Desert Protection

300 E. University Blvd., Suite 120  
Tucson, Arizona 85705  
p (520) 388-9925 • f (520) 791-7709  
www.sonorandesert.org

September 16, 2014

Arizona Center for Law  
in the Public Interest

Arizona League of Conservation  
Voters Education Fund

Arizona Native Plant Society

Bat Conservation International

Cascabel Conservation  
Association

Center for Biological Diversity

Center for Environmental  
Connections

Center for Environmental Ethics

Defenders of Wildlife

Desert Watch

Drylands Institute

Empire Fagan Coalition

Environmental and Cultural  
Conservation Organization

Environmental Law Society

Friends of Cabeza Prieta

Friends of Ironwood Forest

Friends of Madera Canyon

Friends of Saguaro National  
Park

Friends of Tortolita

Gates Pass Area Neighborhood  
Association

Native Seeds/SEARCH

Neighborhood Coalition of  
Greater Tucson

Northwest Neighborhoods  
Alliance

Protect Land and  
Neighborhoods

Safford Peak Watershed  
Education Team

Save the Scenic Santa Ritas

Sierra Club- Grand Canyon  
Chapter

Sierra Club- Rincon Group

Silverbell Mountain Alliance

Sky Island Alliance

Sky Island Watch

Society for Ecological  
Restoration

Sonoran Arthropod  
Studies Institute

Sonoran Permaculture Guild

Southwestern Biological  
Institute

Tortolita Homeowners  
Association

Tucson Audubon Society

Tucson Herpetological Society

Tucson Mountains Association

Wildlands Network

Women for Sustainable  
Technologies

Arlan Colton, Planning Official  
Pima County Development Services  
201 N. Stone Ave.  
Tucson, AZ 85701

### RE: Comments on the first draft of Pima Prospers

Dear Mr. Colton:

The Coalition for Sonoran Desert Protection appreciates the opportunity to provide preliminary comments on the first draft of Pima County's Comprehensive Land Use Plan update, *Pima Prospers*. As subsequent drafts and accompanying maps are released for review, our comments will undoubtedly evolve as well.

We respectfully submit the following comments and hope they are helpful as you continue to revise and refine *Pima Prospers* in the months ahead.

1. The Coalition supports the following sections of *Pima Prospers* and appreciates their emphasis on protecting biologically important lands, encouraging compact development, creating a connected open space preserve system, protecting our water resources, and recognizing the contribution of conservation to the "long-term viability of the region" (p. 7.2).
  - i. 4.1 Land Use Element – Policies 2, 4, and 5
  - ii. 4.3 Open Space Element – Goal 1, Policy 1 and 2
  - iii. 5.2 Water Resources Element – Goal 2, Policy 1; Goal 4, Policies 7, 8, 9, 10; Goal 5, Policy 3
  - iv. 7.1 Economic Development – Goal 2, Policy 1
2. In the Environment Element (4.4), the following sections have been deleted: definitions of CLS categories and guidelines related to Rezoning Activities, Application of Conservation Guidelines, and Conservation Lands System Implementation Strategies. Why were these sections deleted?
3. In the Transportation Element (5.1), there is only one mention of "connectivity" in Policy 8. We strongly suggest that additional policies be added that address the protection and re-connection of Pima County's threatened wildlife linkages through the construction of wildlife crossings, upgrading box culverts at wash crossings, using and implementing guidelines from the Environmentally Sensitive

Roadway Design manual, retrofitting bridges to create bat habitats, and the purchase and preservation of open space.

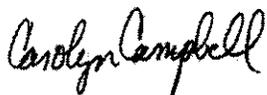
4. In section 7.2, Tourism as an Economic Engine, Policy 3, we suggest the addition of a bullet point advocating for the purchase and protection of open space. It is well-established that natural open space is positive for the economy and a huge draw for tourists to visit our region. While bullet point “d” does advocate for protecting and preserving “native species and habitats,” we think the inclusion of open space generally is also warranted.
5. We fully support the addition of an official policy addressing Conservation Land System Off-site Mitigation Guidelines (Environment Element, Policy 9). We recognize that County staff has been unofficially implementing this policy for years, including County Administrator C.H. Huckelberry, and we support codifying this policy in *Pima Prospers*. The guidelines provide direction on how to appropriately select off-site mitigation lands and state the following:
  - 1) The location of off-site mitigation properties should be within the same general geographic region of the original project site.
  - 2) Off-site mitigation property should provide the same or better resource values as the original project site including, but not limited to:
    - a. Conservation Lands System (CLS) designations inclusive of 2004 Conservation Bond Habitat Protection Priority designations;
    - b. Vegetation community type (s);
    - c. Habitat values for applicable CLS Special Species (e.g., breeding, dispersal);
    - d. Surface water or unique landforms such as rock outcrops; and
    - e. Contribution to landscape connectivity.
  - 3) Demonstration that the resource and conservation values of the off-site mitigation property will be protected in perpetuity.

We support including the above Mitigation Principles and the new off-site mitigation guidelines section in *Pima Prospers*. We also strongly recommend that additional language be added to these Principles. This language should state that 1) off-site mitigation property should be monitored to ensure that mitigation goals are being met, and 2) off-site mitigation acreage should be consistent with CLS mitigation guidelines.

Thank you again for the opportunity to comment on the first draft of *Pima Prospers*. We also appreciate our meeting with County staff in July 2014 where we discussed proposed changes to land use designations and draft maps that will be included in future versions of *Pima Prospers*. We look forward to reviewing new drafts of these maps and additional parcel-by-parcel analysis of proposed changes as they become available.

We also look forward to ongoing engagement on *Pima Prospers* as the new draft text evolves. If you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Carolyn Campbell". The signature is written in a cursive, flowing style.

Carolyn Campbell  
Executive Director

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Monday, December 29, 2014 8:51 PM  
**To:** Janet Emel; Carla Blackwell; Jim Veomett  
**Subject:** Fwd: Comp Plan rezoning policies

FYI... I've not responded yet.

Sent from my iPhone

Begin forwarded message:

**From:** David Williams <[dwilliams@urbanengineering.com](mailto:dwilliams@urbanengineering.com)>  
**Date:** December 29, 2014, 5:08:58 PM EST  
**To:** <[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)>  
**Subject:** **Comp Plan rezoning policies**

Hi Arlan,

I hope you are having a nice holiday season!

I have been reviewing the draft Pima Prospers document. Am I correct in finding no policies related to the 1,900 acre property, Rancho Verdad? Is this because you are still working on policies for this property? You may have explained this already, and if so, I apologize for the repeat.

Secondly, I am not a fan of such property specific policies being contained in a comprehensive plan document. One of the primary reasons is we create the need for major amendments in order to shift land use for specific parcels later, regardless of how the updated use fits with the overall vision and goals of the plan. This helps create the 'hard to get projects approved' label for the County. I can guess this is a 'political' requirement to appease stakeholder neighborhood groups, and when favorable to vacant property, also supported by vacant land owners. I am not really sure but if there is a succinct explanation of 'why' rezoning policies are needed in the plan, it would be helpful to have it on hand.

I will continue to review the draft (it's huge!...) but overall I find the updated plan to be of excellent quality with the expected polish needed to complete it. Also, thank you for your presentation the other day at Nanini Library.

---

All for now and thank you.

My best for a very happy, healthy and productive New Year,  
David

David A. Williams, AICP  
Vice President, Planning  
**Urban Engineering**  
877 S. Alvernon Way  
Tucson, AZ 85711  
[dwilliams@urbanengineering.com](mailto:dwilliams@urbanengineering.com)  
520-318-3800  
520-360-5790 (cell)

## Janet Emel

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**From:** Arlan Colton  
**Sent:** Friday, January 02, 2015 1:28 PM  
**To:** Janet Emel; Carla Blackwell  
**Subject:** FW: Ajo Input/"Pima Prospers" Flood control/Drainage Element

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**From:** tina west [mailto:tina\_\_west@hotmail.com]  
**Sent:** Sunday, December 28, 2014 6:53 PM  
**To:** Arlan Colton  
**Subject:** Ajo Input/"Pima Prospers" Flood control/Drainage Element

**ARLAN -**

I made the comments below to PCR Flood Control District and your PCDS staff in June 2014 but never got an answer.

Please put something in the Plan that maintains the arroyos/washes in and around Ajo in their natural state for their greenbelt, climate cooling, economic-aesthetic and community open space values.

Am sending one other short e-mail on this subject.

Citations below are in reference to the first draft of Pima Prospers.

Mostly, it is since Ajo's arroyos are mostly supplied by rain water - do they have any protection under or outside wording such as "riparian" or other plan terminologies???

Sorry that I do not have more specific citations, trying to get something in by 12/31/14.  
If it makes any difference, let me know and I will go back and try to reference the current draft more accurately.

Thanks,

Tina

Please help me understand Section 5.9 of Pima Prospers as it applies to arroyos in Ajo.

What I want to know is:

?There anything that protects maintaining the Arroyos in and around Ajo in their natural state: sandy bottom, earth sides, vegetative understory, vegetative overstory, etc?

?There anything that threatens the Arroyos remaining in their natural state and being replaced with concrete,

rip-rap, gunite, etc?

?There anything that suggests creating more water retention basins such as the one at the top of the Curley School property?

?There anything that leads towards making upstream construction correct or not create their own flood and erosion control problems?

For instance:

? Policy 1: Do Ajo arroyos qualify as "riparian" habitat?

? Policy 3: Do Ajo arroyos qualify here?

? Policy 4: Same question?

?Policy 5: How does this apply to Ajo arroyos?

? Policy 6: How do you determine "consistent with the overall character of the area"?

?Policy 8: How does this apply to Ajo arroyos?

?Policy 9: Same question?

My concern is that since our arroyos are rain water run off and (to my knowledge) not spring or seep fed, do they have any protection?

Thanks,

Tina

**From:** [Arlan Colton](#)  
**To:** [Janet Emel](#)  
**Subject:** FW: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**Date:** Tuesday, October 21, 2014 2:52:35 PM

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**From:** Manny Valenzuela [mailto:mvalenzuela@sahuarita.net]  
**Sent:** Tuesday, October 21, 2014 1:37 PM  
**To:** Arlan Colton; Carla Blackwell  
**Subject:** Fwd: Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review

Thanks for sharing this comprehensive and informative document. It is certainly very impressive and reflective of a most detailed and methodical process.

I suggest that, in any way that it fits, the importance of the K-12 school community and strategic partnerships, field experiences, and intentional planning efforts be part of the plan. This may be a valuable piece in regional alignment and growth of congruent educational programs, economic development, workforce development, and overall quality of life.

Again, thanks for your hard work with this effort, and for the opportunity to share.

Sincerely,

Manuel O. Valenzuela, Ed.D.  
Superintendent  
Sahuarita Unified School District  
350 W. Sahuarita Rd.  
Sahuarita, AZ 85629  
Ph (520)625-3502 x1001 Fax (520) 625-5380

----- Forwarded message -----

**From:** Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>  
**Date:** Tue, Oct 21, 2014 at 1:04 PM  
**Subject:** Pima County Comprehensive Plan Update Pima Prospers Draft for 60-day Review  
**To:**  
**Cc:** Janet Emel <[Janet.Emel@pima.gov](mailto:Janet.Emel@pima.gov)>

Hello,

Pima County has been in the process of preparing a draft update to the Pima County Comprehensive Plan - called "Pima Prospers". If approved, Pima Prospers is to be our plan looking ahead about 20 years into the future. It has been built on the ideas of hundreds of Pima County residents from Ajo to Vail, Catalina to Arivaca Junction, many business and citizen interests in our communities, representatives from the other jurisdictions in the region, and more than 100 county staff members from many departments.

With the much-appreciated participation by many of you, Pima County Development Services Department – Planning Division presents Pima Prospers Draft 2 – the proposed update to the Pima County Comprehensive Plan as found on the website [www.pimaprospers.com](http://www.pimaprospers.com). The website will look different but is intended to be very user friendly for your review of the draft plan.

Draft 2 is essentially complete. It contains draft goals, policies and implementation strategies, but as you may be aware, is absent some parts that must come later, after public review (e.g. fiscal impact study).

We are now undergoing the 60-day review period. **Please send any comments on the Pima Prospers draft plan to my attention at the mailing or email address below by no later than December 22, 2014 (but of course, the earlier the better).**

If you have any questions, please feel free to contact me – Arlan Colton, or Carla Blackwell at [\(520\)724-9000](tel:5207249000).

Thank you,

Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 N. Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
[Arlan.Colton@pima.gov](mailto:Arlan.Colton@pima.gov)

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)

*Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)*



RECEIVED  
DEC 10 2014

December 8, 2014

Mr. Arlan M. Colton, FAICP  
Planning Director  
Pima County Development Services Department, Planning Division  
201 North Stone Avenue, 2<sup>nd</sup> Floor  
Tucson, Arizona 85701

BY: .....

**Re: Comments on Pima Prospers 2**

Dear Director Colton:

The Metropolitan Domestic Water Improvement District (District) appreciates this opportunity to provide comments on Pima Prospers 2. The District supports Pima County efforts to update the Pima County Comprehensive Plan. In particular, the inclusion of collaboration with water providers under Goals 2, 3 and 4 of the Water Resources Element will mutually benefit the citizens of Pima County and the water provider customers. Collaboration and cooperation is one of the most significant ways to better integrate land use and water planning as noted in the attached American Water Resources Association Journal article.

The District is also supportive of the intention of the Goal 1 – Achieve water sustainability through comprehensive integrated planning that coordinates water supply, demand management and respect for the environment. The District believes that Goal 1 would be strengthened if it included a County policy on reclaimed water entitlement for water providers contributing flows to non-metropolitan water reclamation facilities, which has the benefit of achieving sustainable water management in areas outside of the Tucson metropolitan area. For example, the District as a water provider has a reclaimed water entitlement proportional to the reclaimed water generated by the District's Metro-Main and Metro-Hub service area customers and treated at the Tucson metropolitan water reclamation plants per the 1978 Intergovernmental Agreement and 2000 Supplemental Agreements between Pima County and the City of Tucson. However, effluent entitlements are lacking between water providers and Pima County at non-metropolitan water reclamation facilities under Pima County's control. Water providers other than the City of Tucson will likely be the water provider in unincorporated Pima County because of restrictions in the City of Tucson water service policy. Thus, these water providers will need access to renewable water supplies as addressed in Goal 2 and Policy 1. Reclaimed water is a vital renewable supply that is locally available in unincorporated Pima County and would benefit from clear policy objectives and implementation measures.

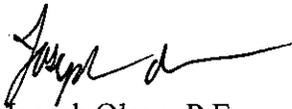
The District has demonstrated leadership in sustainable water management stewardship where groundwater supplies are limited. After purchasing the Diablo Village Water Company in 2010, the District Board of Directors approved the conversion of its Central Arizona Groundwater Replenishment District (CAGR) member lands and Certificate of Assured Water Supply to a CAGR Member Service Area and Designation of Assured Water Supply. The District applied and was recommended for a Non-Indian Agricultural Priority CAP Water allocation of 299 acre-feet per year by the Arizona Department of Water Resources. Unfortunately, allocations were

limited to projected growth year of 2020. Demand build out for Metro Southwest-Diablo Village is projected at 4,144 acre-feet per year. This means having a renewable and sustainable water supply such as reclaimed water will be important for water management in those areas.

The District strongly encourages the Pima County Comprehensive Plan Update to include a policy on Reclaimed Water entitlements for water providers contributing effluent to non-metropolitan water reclamation facilities. The policy should require that the water provider have a Designation of Assured Water Supply (DAWS) to be consistent with sustainable water management efforts.

Please contact Michael Block or me, if you or your staff have any questions or would like to discuss the District's comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph Olsen", with a long horizontal flourish extending to the right.

Joseph Olsen, P.E.  
General Manager

## 4.2 Water Resources Element

The state mandated water resources element requires that counties perform a basic known water supply and demand comparative analysis to show whether there is an impact of proposed new development on the overall water supply. Pima County is not a water provider, and no new hydrogeologic studies are required to do this analysis. Consequently, quite a number of assumptions are required. **[Note: The analysis portion of this element will be done as the proposed land use pattern gets more solidified.]** The water quality portion of this element satisfies part of the state mandated Environmental Planning Element.

### Pima County 2011-2015 Action Plan for Water Sustainability and Water Resource Policy

The City of Tucson and Pima County completed a multi-phase water/wastewater infrastructure study in 2010. Phase 1, completed in February 2009, consisted of an infrastructure inventory. Phase 2 established a framework for sustainable water resources planning through the implementation of 19 goals and 56 recommendations. A five-year Action Plan for Water Sustainability (2011-2015) guides completion of the recommendations and each year the City and County transmit an annual report card tracking progress towards meeting those goals.

In 2007 the Board of Supervisors adopted a policy (F54.9) <sup>County</sup> on water rights acquisition, protection and management. The policy requires that Pima County water resources be used to the benefit of Pima County's citizens. It establishes a collaborative effort of numerous Pima County Departments to identify County initiatives for improved management and utilization of water resources. <sup>Countyowned rights</sup> The County Water Management Committee has provided guidance in managing <sup>its</sup> water resources by building a database of water sources, rights and infrastructure while encouraging improved departmental maintenance, procedure and administration. Strategic planning for County reclaimed water, long term storage credits and groundwater and surface water rights will maximize resource value and efficient utilization.

The Pima County 2011-2015 Action Plan for Water Sustainability and the Water Rights Policy have numerous common goals and are complimentary plans that reinforce sustainable planning.

### **Goal 1: Achieve water sustainability through comprehensive integrated planning that coordinates water supply, demand management and respect for the environment**

Policy 1: Comply with all applicable goals and recommendations in the 2011-2015 Action Plan for Water Sustainability, approved by the Board of Supervisors and the City of Tucson Mayor and Council.

Policy 2: Maximize County water resource assets including groundwater rights, surface rights and production and use of reclaimed water to sustain and protect the County's natural environment consistent with Board of Supervisors Policy F 54.9 "Water Rights Acquisition, Protection and Management".

Policy 3: Increase reliance upon renewable water supplies.

Policy 4: Protect groundwater-dependent ecosystems including springs, perennial and intermittent streams and shallow groundwater areas.

Policy 5: Review all comprehensive plan amendments and rezoning proposals for water impacts and sustainability, and require water conservation measures when appropriate as conditions of rezoning.

Policy 6: Minimize impacts of development upon water supply for existing and future residents of Pima County.

Policy 7: Provide water providers having designation of assured water supply a proportional share to reclaimed water they contribute to County non-metropolitan water reclamation facilities

Goal 1 Implementation Measures:

- a. Implement and update as needed the 2011-2015 Action Plan for Water Sustainability.
- b. Continue transmittal of Year End Progress Reports of the Action Plan recommendations.
- c. Develop strategies for the utilization of Pima County water resources consistent with the Water Rights Policy.
- d. Prepare a Watershed Management Plan which identifies the watersheds impacting Pima County, their drainage characteristics, regulatory and infrastructure needs.
- e. Continue to conduct Preliminary Integrated Water Management Plan (PIWMP) and Water Resource Impacts Assessments on all rezoning requests that require a site analysis.
- f. Continue to conduct Water Resource Supply Review on proposed comprehensive plan amendment requests larger than four acres.
- g. Develop incentives to encourage beneficial use of stormwater.
- h. Execute reclaimed water entitlements with water providers

#### Water Supply and Demand Management

The Bureau of Reclamation and the Arizona Department of Water Resources (ADWR) studies recommend using all water supplies as efficiently as possible and the expansion of reclaimed water use for non-potable purposes to ease potable demand. Reclaimed water has and will continue to be a key water supply in the state's management plans and goal of safe yield, or hydrological balance. Yet both reports agree that no one strategy will solve future imbalance; augmentation of supply will be required despite conservation and reuse efforts.

Tucson Water recently released a Recycled Water Master Plan. New recycled water programs are predicated on the conclusion that the reclaimed water system is not expected to gain significant additional demand and new uses are needed to achieve full utilization and maximize water resource benefit. Full utilization is a compelling goal as Tucson Water expects shortages to the City's Central

Arizona Project (CAP) allocation due to drought and climate change and is shifting strategy “to decrease reliance on CAP supplies”. Plans for supplementing the City’s CAP allocation include recycled water, Central Arizona Groundwater Replenishment District (GRD) replenishment, Arizona Water Banking Authority (AWBA) credits, long term storage credits and incidental recharge.

Tucson Water plans to use unutilized recycled water for groundwater replenishment, through recharge, and then recover the water for advanced treatment before delivery as a supplement to potable water supplies- a process called “indirect potable reuse”, one used by other communities in the Southwest. Indirect potable reuse is the primary strategy of Tucson Water’s Recycled Water Master Plan to establish additional renewable water supplies, increase system reliability and retain a valuable water resource within the county.

In 2013, concerned about the ongoing drought and the continuing decline of water levels in Lake Mead and Lake Powell, the Department of the Interior and the Basin States set out to develop a drought response and sustainability plan for the Colorado River basin. The Lower Basin states have proposed to retain an additional 1.5 to 3 million acre-feet in Lake Mead over the next five years to reduce the risk of that reservoir dropping below the critical elevation of 1,000 feet. Central Arizona Project is partnering with other states and the US Bureau of Reclamation to fund pilot Colorado River water conservation projects demonstrating cooperative, voluntary compensated demand reduction in the agricultural, municipal and industrial sector. The Colorado River System Conservation Program is a critical first step in conserving water within the Colorado system to protect reservoir levels.

**Goal 2: Acknowledge new water supplies may need to be secured to meet future demand and adopt planning accordingly**

Policy 1: Collaborate with water providers to support the development of new water supplies.

Policy 2: Consider <sup>use</sup> production and underground storage of high-quality reclaimed water as viable future water supply strategies.

Policy 3: Identify water providers serving Member Lands of the Central Arizona Groundwater Replenishment District (GRD Subdivisions) and work with these water providers to identify renewable water supplies.

**Goal 2 Implementation Measures:**

- a. Achieve full utilization of the county’s reclaimed water as part of a strategy that best incorporates direct reuse, aquifer replenishment and accrual of long term storage credits
- b. Support increased use of reclaimed water by water providers with reclaimed water entitlements
- c. Execute reclaimed water entitlements with water providers having Designation of Assured Water Supply status that contribute flows to County non-metropolitan ~~water~~ water reclamation facilities

## 4.4 Wastewater Treatment Element

The Pima County Regional Wastewater Reclamation Department (RWRD) provides design, management and maintenance of the sanitary sewer system including conveyance and treatment systems. The extension of sewer lines is the most significant public works infrastructure tool the County has to guide growth and development into suitable areas.

### Goal 1: Efficiently manage and operate the County's wastewater system

Policy 1: Enhance opportunities for aquifer recharging at the water reclamation facilities to:

- a) Increase our existing water supply; and
- b) Diversify our regional water resources.

Policy 2: Support future sewer system expansions into regional growth areas.

Policy 3: Encourage growth in areas with or in close proximity to existing infrastructure.

Policy 4: Utilize existing right-of-way for the placement and realignment of public sewer systems while preserving environmentally sensitive areas through a coordinated approach.

Policy 5: Continue to support development of regional economic opportunities through well planned, infill sewer system capacity expansions.

Policy 6: Periodically review policies that recover costs associated with new development to ensure that growth pays for itself.

Policy 7: Continue to monitor emerging technologies in wastewater and consider new technologies that improve cost and operational efficiencies within the public sewer system.

Policy 8: Include land use planning in the evaluations and planning for sewer system expansions.

Policy 9: *Develop reclaimed water entitlements with water providers that contribute flows to County non-metropolitan water reclamation facilities*

Goal 1 Implementation Measures:

- a. Integrate land use planning changes into sewer system planning.
- b. Establish strategies to support growth close to existing sewer infrastructure.
- c. Continue to explore opportunities for aquifer recharge via water reclamation facilities.
- d. Assure that sewer conveyance system extensions are undertaken with priority to Focused Development Investment areas.
- e. *Develop reclaimed water entitlements with water providers*

DREW BECKWITH

## Integrating land use and water planning

WITH INCREASED STRESSES ON A DWINDLING WATER SUPPLY, IT'S ESSENTIAL THAT LAND USE PLANNERS AND WATER PROVIDERS WORK TOGETHER TOWARD A CONSERVATION MINDSET

**L**ocal water providers face increasing challenges, including population growth, aging infrastructure, budget cuts, and competition for freshwater resources. Climate changes are also creating challenges—such as historic drought and flooding in the same year—that affect the quality

and reliability of water supplies in varied and significant ways across the country.

In addition, cities and towns are placing a higher value on local rivers and streams that support vibrant communities, wildlife habitat, and a multibillion-dollar freshwater recreation economy. Therefore, keeping these rivers healthy and free-flowing becomes yet another critical factor driving local water management decisions.

Given these challenging realities, the prudent actions for water providers are increased conservation and efficiency, which are often the fastest and least expensive ways to meet water supply needs.

water consumption patterns for decades to come.

- There is evidence that local and regional land use planning processes and water management decisions are not systematically coordinated. These two functions are normally siloed; planners of either stripe may be working at cross-purposes and missing opportunities to achieve water savings, or worse yet, may be making decisions that increase future water consumption instead of tempering it.

- Rapid population growth brings challenges. Colorado's Front Range is expected to double in population during the next 40 years, exacerbating competition among farmers, city

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Setting water conservation goals and using the land use process to achieve them is imperative for a more sustainable water management future.

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### A FORWARD-THINKING APPROACH

Many water providers focus on reducing existing uses by providing various incentives to homeowners in order to achieve water conservation goals. Although such actions are beneficial and much needed, providers need to address in a comprehensive way the future impacts that new development will have on water resource management. And that's where land use planning comes in.

**Integrating water and land use planning.** In Colorado there is a strong appetite for integrating water and land use planning—an emerging trend that holds promise for water providers nationwide. Three factors are driving this new approach in Colorado.

• There is growing recognition that land use decisions lock in

dwellers, and the energy industry over finite water resources.

This same scenario is playing out across numerous states and regions in the arid West. Engaging in the land use process to advance sustainable water management is ripe for opportunity given the impact that land use decisions have on conservation and consumption patterns. Unfortunately, many water providers have only a vague idea, if any, about who their local land use planners are, what planning tools they have at their disposal, and what goals and directives drive their decisions. Land use planners have a similar vague understanding of water providers. A lack of coordination and collaboration between water providers and land use planners is currently the norm and not the exception. But this is changing.

### TRAINING AND EDUCATION

Western Resource Advocates, a regional nonprofit-based environmental law and policy organization in Boulder, Colo., recently brought together municipal land use planners, water providers, economic developers, elected officials, and private industry leaders from five metro-Denver-area communities for a multiday training session taught by Pace University School of Law's Land Use Law Center. Through the center's Land Use Leadership Alliance (LULA) training program, professors and participants identified several opportunities for explicitly integrating water management and land use planning aimed at reducing future water demands.

The program included discussions on fostering cooperation and communication across disciplines and jurisdictions; integrating water conservation as a key element of comprehensive land use plans; encouraging higher density in new development; and, for water providers in particular, taking the initiative and being proactive about using land use tools to accomplish conservation goals.

### LESSONS LEARNED

**Collaborate and cooperate.** One of the most significant ways to better integrate land use and water planning is for land use planners and water providers to work together more collaboratively, thereby influencing each other's plans. By designing water efficiencies into plans for new development, redevelopment, and supporting infrastructure, reliable water supplies can be ensured much farther into the future without compromising other important values.

Initiating this kind of collaboration can be daunting, but the rewards are worth it. Land use planning tools and techniques offer numerous ways to help local communities achieve water conservation goals and to do

so quickly and affordably. Starting this process can be as informal as a conversation with a colleague in the land use planning department over lunch, which can lead to a more systematic cooperation and sharing of goals and information, or it can be as formal as a directive from decision-makers and management to host a series of meetings with land use planners as part of an integrated plan update.

**Local collaboration.** Local training such as the LULA program offers another option. Whether it be siting new residential development, changing local sales tax, or allocating water resources, the actions of each individual city, town, and county can affect each other. Local jurisdictions can benefit greatly by learning and planning with each other both regionally and locally, thereby breaking down the silos that they normally operate in. As one participant of the Denver LULA training from the Parker Water and Sanitation District said, "This [workshop] helped to overcome nearly two decades of disconnect between us and the Town of Parker."

**Governmental collaboration.** Intergovernmental organizations can also have an important role to play in integrating water use and land use decision-making. Specific land use and water goals can be firmly established in regional plans. This could require creating new entities at the appropriate scale, such as by watershed or river basin, or by broadening responsibilities within existing entities. Metropolitan planning organizations such as councils of government are ideal organizations for assuming this role because they have already been set up to make collective decisions about how best to spend federal funding for transportation improvements across multiple local governments.

**Regional collaboration.** Staff-level collaboration among multiple water providers and land use planners can

also happen on the regional scale outside of existing organizations through the use of intergovernmental agreements (often referred to as IGAs). Although joint regional planning in this arena is infrequently used by local governments, it is beginning to show promise. As one example on Colorado's Front Range, the City of Aurora partnered with Denver Water and several south-metro communities to implement the Water, Infrastructure and Supply Efficiency (WISE) partnership. Under this partnership, Aurora is able to share the financial cost of a new excess-capacity pipeline with Denver Water, which receives a reliable drought-time water supply, and

Unfortunately, many comprehensive plans and supporting documents, such as zoning ordinances and codes, site plans, and permitting processes, do not address water or water conservation in any meaningful way. In Colorado, a Center for Systems Integration report (Kathlene et al, 2010) shows that at least two-thirds of city master plans and the vast majority of county comprehensive plans do not specifically address growth management and water supply. However, given the essential link between land use and water conservation, a well-developed water element in the comprehensive land use plan is essential.

To assist, water providers can begin assessing whether their com-

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This kind of water-smart development presents an opportunity to use existing water supplies more wisely and to defer or eliminate the need for new, environmentally harmful water projects.

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south-metro communities that receive a nondrought renewable water supply.

Whether these water use and land use integration discussions happen at the local or regional level, sharing more information across jurisdictions, between water providers and land use planners, and with the public is critical to ensuring good decision-making.

The bottom line is that water providers and land use planners need to understand and acknowledge the full implications of each other's decisions because they have a direct impact on each other.

**Look at comprehensive land use plans.** Comprehensive land use plans or master plans describe community goals and aspirations for community development, and they ultimately drive public policies and regulations

community's existing comprehensive plans have fully integrated strategies and tactics that help achieve conservation goals. The Denver LULA workshop developed a 27-question assessment tool ([www.westernresourceadvocates.org/water/landuse.php](http://www.westernresourceadvocates.org/water/landuse.php)) to help evaluate water use and land use integration of a community's comprehensive plan. Following are questions from this assessment tool:

- Does your comprehensive plan contain a water element?
- Does the element identify water conservation goals and objectives?
- Does the element include strategies and implementation techniques for prioritizing the zoning of water-efficient land uses?
- Does the element contain strategies to incentivize landowners to use water-conserving techniques?

that exceed those required by existing regulations?

Such questions serve to naturally show where work can be done to better integrate land use and water use planning at the local level.

Water providers will also want to dive deeper than the comprehensive land use plan by reviewing local zoning codes and subdivision and site plan regulations because this is where much of the legally enforceable land use regulations are contained. There may also be relevant state-specific land use laws and guidance to be aware of.

**Leverage land use tools for conserving water.** When it comes to defining the relationship between land use and water efficiency, it can be as simple as "sprawl is foe and density is friend." Although sprawl is not the only determining factor of water use, it plays a very significant role in resource needs. As an example, sprawling development requires more infrastructure to serve and generally involves larger irrigated landscapes by comparison with more dense forms of development. And with intensifying constraints on water supplies, sprawl is a luxury that most communities can ill afford in the long run.

"Whenever I get a chance to speak on the Front Range my focus is on our inability to sustain growth if it continues halfway to Kansas," Jim Lochhead, chief executive officer and manager of Denver Water, told *The Summit Daily* (Oct. 23, 2013; [www.summitdaily.com/news/8617505-113/denver-lochhead-colorado-front](http://www.summitdaily.com/news/8617505-113/denver-lochhead-colorado-front)). "We can talk about efficient showerheads and low-flow toilets, but until we get to the issue of sprawl, we're just scratching the surface."

Setting water conservation goals and using the land use process to achieve them is imperative for a more sustainable water management future. Inserting these goals into comprehensive land use plans is just the first step. These goals must be

translated into actions that are encouraged and/or required via zoning regulations.

The list of tools that can provide water conservation benefits is long and growing. The tools shown here are just a sample of the range of options available:

- **Urban growth boundary.** Communities such as Boulder, Colo., and Portland, Ore., have pioneered urban growth boundaries, which are a useful tool for anticipating and planning for future water needs. Urban growth boundaries can also be helpful in limiting total future water demand.

- **Overlay zones.** Overlay zones establish additional or stricter standards and criteria for covered properties under these zones. Douglas County, Colo., uses an overlay zone with differing water supply standards to guide development activities in areas of limited groundwater availability.

- **Compact development.** Compact development involves platting more homes per acre of land than traditional suburban development, promoting efficiency in water infrastructure, and conserving water resources. In Colorado, the City of Aurora in Douglas County encourages compact development patterns through a mix of incentives and mandates. As another example, the Southern California Association of Governments' comprehensive land use plan encourages development strategies to promote compact growth, specifically noting that this growth style requires less water and less energy for transporting and treating water than sprawling growth patterns and helps protect water quality.

- **Cluster development.** Cluster development is the grouping of residential properties on a development site in order to use the extra land for open space, recreation, or agricultural purposes. This action reduces lot size and irrigable area

Several Colorado counties encourage cluster development by giving exemptions from parcel requirements and other bonuses.

- **Mixed-use development.** In a broad sense, mixed-use development physically blends a combination of residential, commercial, cultural, institutional, or industrial uses. Mixed-use developments are rapidly growing in many cities' downtowns, bringing residents into a denser living environment.

- **Planned unit developments.** These special zones are created during large tract development and are often a negotiation between the property's master developer and the governing community. As such, they can be filled with water conservation elements.

- **Water conservation targets.** Goal-setting can be one of the most effective conservation strategies, and putting goals into a comprehensive plan provides direction to the community's larger public policy efforts that water conservation is important.

- **Outdoor landscape standards.** Communities can set ordinances that cover efficiency specifications for irrigation systems, soil quality, allowable plant lists, and maximum irrigable area—all in service to minimizing outdoor use. For example, Eagle County, Colo., limits irrigated turf to 25% of a residential lot or 1,000 sq ft, whichever is less, and Castle Rock, Colo., has strict specifications on irrigation system design aimed at reducing use.

- **Green building programs.** These offer yet another venue for encouraging water conservation. In addition to standards for energy efficiency, these programs may also include standards for reducing water use. Cities ranging from Boulder, Colo., to Austin, Texas, to Santa Fe, N.M., all incorporate water conservation standards and requirements into their green building programs.

- **Tap fees.** Although not strictly considered a land use action, tap

fees can be used to create incentives for higher-density, multifamily developments that consume less water per capita than single-family homes. As an example, Westminster, Colo., offers developers significantly lower tap fees for multifamily units, such as duplexes, on the same-size lot as a single-family home, and Aurora, Colo., offers a \$1,000 discount on its tap fees for low-water-use landscaping.

**Maintain consistency.** With the wide range of land use tools and techniques available for minimizing future water use and the complexity of the planning process, it is important to provide clarity and consistency throughout the process to ensure there is predictability for developers. "You need a flow chart of all the steps in the development review process for residential development," said Don Elliott of Clarion Associates, at the Denver LULA workshop. "The land use and water consumption concerns need to be clear and integrated, so that developers know what is required of them early in the process. You don't want a situation where a developer goes through the site-permitting process only to discover that the Kentucky bluegrass he's shown on 20 new lawns has to be replaced with drought-tolerant fescue, or that the irrigated areas he's shown on the site plan exceed the amounts allowed by the city. That's annoying and costly, and it doesn't have to happen."

**Review land use documents that address water planning.** Land use documents provide important information about a number of water planning issues that should be consulted during water planning decision-making, including

- ordinances, codes, and incentives that are likely to affect demand projections; and
- geographic information about where future demands are likely to occur, as well as the magnitude and seasonality of those demands.

Ignoring these types of available information has the potential to result in improper infrastructure sizing or placement.

The Southern Nevada Water Authority (SNWA) provides a good example of the follow-through necessary to better integrate land use and water. Shortly after a severe drought in the early 2000s, SNWA determined that turf grass in front yards in Nevada was not a preferred use of potable water. SNWA then developed a model landscape code eliminating irrigated turf in front yards, and subsequently worked with every municipality in its service area, eventually winning support and the adoption of the ordinances at each city council.

#### LOOKING AHEAD

New growth presents a huge opportunity to reduce costs and infrastructure investments in water development. Although updating and retrofitting existing homes and buildings will play a role in achieving conservation savings, it is much cheaper to build new residential development that is smart from the start.

In the interior West, where water supplies are already strained and population growth will continue to drive demand for more water, the policies and techniques commonly used by land use planners can be used to design new residential development in ways that significantly reduce future water demands. This kind of water-smart development presents an opportunity to use existing water supplies more wisely and to defer or eliminate the need for new, environmentally harmful water projects.

Water providers have a critically important role in promoting water-smart residential development. Instead of being left to scramble for more water to supply thirsty, sprawling developments, the water community must take the initiative to team up with land use planners and community stakeholders and add its voice

to collective decisions about how to build cities that are resilient in the face of climate change and that grow within the limits of projected water supplies. Only by actively engaging and driving the process can water providers secure the clean water that residents demand at an affordable cost while also protecting local rivers and streams that enhance and sustain healthy communities.

#### ABOUT THE AUTHOR



*Drew Beckwith is water policy manager for Western Resource Advocates in Boulder, Colo.; drew.beckwith@*

*westernresources.org. He works closely with water providers, state officials, and partner organizations around the interior West to find sustainable ways to meet both human and environmental water needs. Beckwith is responsible for research, legislative, and policy initiatives that advance water conservation efforts and nontraditional water supplies across the region. His current work includes integrating water efficiency into land use planning, partnering with the performance contracting industry to boost water conservation savings, and enabling rural communities to increase local streamflows through conservation actions.*

<http://dx.doi.org/10.5942/jawwa.2014.106.0131>

#### REFERENCE

Kathlene, L.; Lynn, J.; Greenwade, A.; Sullivan, W.; & Lung, Q., 2010. Colorado Review: Water Management and Land Use Planning Integration. Center for Systems Integration, Denver.

JOURNAL AWWA welcomes  
comments and feedback  
at [journal@awwa.org](mailto:journal@awwa.org).



# United States Department of the Interior

**NATIONAL PARK SERVICE**  
Saguaro National Park  
3693 South Old Spanish Trail  
Tucson AZ 85730



IN REPLY REFER TO:

January 16, 2015

Mr. Jim Veomett  
Pima County, Senior Planner  
210 N. Stone Ave, 2<sup>nd</sup> Floor  
Tucson, AZ 85701

Dear Mr. Veomett,

Thank you for the opportunity to review the updated county comprehensive plan. We appreciate the level of effort required to complete such a challenging planning process. The extent of the document and the timing of its release precluded our ability to review it and prepare comments before the end of 2014, so we appreciate your being willing to accept them at this time.

Providing improved connections to Saguaro National Park from surrounding communities is a park goal. Many of the transportation goals described in the plan such as multi-modal initiatives, trail connectors, transit and others should help us move in the direction of achieving this goal. We are pleased that the County has recently committed to connecting The Loop to the park's east district, and we look forward to additional opportunities such as this.

Enhancing and protecting viewsheds into and from the park are also important values that we are pleased to see addressed in this plan. As with most large scale planning efforts such as this, ensuring consistency with stated goals over time and working out the details as new developments come on line will be crucial in ensuring success. To this end, we look forward to working with the county in the implementation of many of the goals and principles outlined in the updated plan. We request to be included in any future actions that have the potential to affect park resources and values, as well as those of mutual benefit that we can partner together to achieve.

Attached are comments to some specific sections of the plan for your consideration. Please contact Scott Stonum, Chief of Science and Resource Management at the park if you have any questions. He can be reached at 520-733-7170 or via email at [scott\\_stonum@nps.gov](mailto:scott_stonum@nps.gov).

Thank you again, and we look forward to continuing collaborative efforts with Pima County.

Sincerely,

Darla Sidles  
Superintendent

Specific comments to comprehensive plan:

Page 50, Goal 1: Conserve and protect natural resources:

Request the addition of specifically identifying the need to control buffelgrass across all land designations in the county.

Page 3.2, Conservation Guidelines, Policy 2:

Request adding a requirement that in all cases where a permit is required for ground disturbing activities, that buffelgrass and other invasive non-native plant species are eradicated and controlled.

Page 3.24, Conservation Guidelines, Policy 8, bullet D:

Request that connections and linkages from county lands to non-county conservation or otherwise protected lands such as Saguaro National Park are also considered and prioritized.

Page 3.3, Goal 2 Implementation Measures:

Request the addition of another implementation measure to develop, adopt, and enforce regulations to control the spread of buffelgrass.

Page 4.3, Goal 1 Implementation Measures, bullet c.:

Correct spelling: Change National Park Services to National Park Service.

Page 4.25, Trails Element

Consider adding a policy that requires the addition of bike lanes to all paved county roads either during new construction or when existing roads are resurfaced.

Page 4.25, Policy 6:

Protection of trail corridors should also be considered for linking private lands to each other such as one neighborhood to an adjacent one, or that connect private lands to existing or approved trail corridors.

Page 9.4, Picture Rocks Rural Activity Center, Policies, E.:

We appreciate the inclusion of this policy that requires notification to the park of any rezoning applications for this planning area.



## Metropolitan Pima Alliance

January 27, 2015

Arlan Colton, FACIP  
Planning Director  
Pima County Land Planning and Regulation  
201 N. Stone Ave.  
Tucson, AZ 85701

Dear Mr. Colton:

We thank you for the opportunity to comment on *Pima Prospers* and the diligent work put forth by staff to develop a vision and future direction for our communities. Metropolitan Pima Alliance (MPA) is a land use advocacy organization representing 120 members involved in both commercial and residential development. MPA advocates for balanced land use policies that stimulate economic development. MPA is pleased with the articulation and comprehensive nature of this plan, as well as the forward thinking in promoting our community's shared values of job creation, economic development, protection of the natural environment and enhancing our quality of life.

Overall, the draft of *Pima Prospers* reasonably reflects an attainable future vision for Pima County, and adequately addresses and guides the future vision of our vibrant communities. As we have met with consultants, we have formulated a recommendation that we think can improve and strengthen *Pima Prospers*. MPA respectfully suggests that the Maeveen Maria Behan Conservation Land System portion of *Pima Prosper* be removed due to its complex language and technical nature. MPA feels that this portion would better serve and protect the natural environment as a stand-alone document ultimately providing greater flexibility and ameliorating the difficult amendment process. MPA will continue to review the document as it evolves to ensure it mirrors the goals of MPA in creating reasonable land use policies that promotes growth and development while protecting our natural environment and neighborhoods.

We are confident that many of the goals and policies outlined in *Pima Prospers* are obtainable and we look forward to reviewing the next draft. Again, we thank you for the opportunity to provide commentary on this document and look forward to collaborating to advance the community's shared values and the success of this region.

Sincerely,

Amber Smith, MPA  
Executive Director  
Metropolitan Pima Alliance

Metropolitan Pima Alliance  
PO Box 2790  
Tucson, AZ 85702  
[www.mpaaz.org](http://www.mpaaz.org)

## Janet Emel

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**From:** notification@pima.gov  
**Sent:** Monday, January 26, 2015 7:04 PM  
**To:** Janet Emel  
**Subject:** Pima Prospers Feedback Form 2015-01-26 07:03 PM Submission Notification

**Pima Prospers Feedback Form 2015-01-26 07:03 PM** was submitted by Guest on 1/26/2015 7:03:41 PM (GMT-07:00) US/Arizona

Name	Value
<b>First Name</b>	Adam
<b>Last Name</b>	Kmieć
<b>Email</b>	<a href="mailto:adamkmiec@comast.com">adamkmiec@comast.com</a>
<b>Address</b>	2338 E Stone Stable Dr
<b>City</b>	Oro Valley
<b>State</b>	AZ
<b>Zipcode</b>	85737

**Message Subject** Consideration for road users

**Comment** When contemplating the issue of the Edwin Road maintenance (East of Lago Del Oro) the consideration for various road users seems to be the main problem. It applies actually to any other road in Pima county. The car and truck drivers need a road for themselves, the ATV riders need a road for themselves, the bike riders beg for safer bike paths, and the horse riders have their needs too. And when driving on Edwin road one vehicle has to stop to make safe passage for the oncoming car because the road is so narrow. And it is a funny situation, since we certainly do not suffer from lack of vacant land in the US. Why not make the roads wider (the norms for road wideness) to provide for everyone's safe usage? When looking on the map we can see that almost 70% of land is begging for being use. Let's use it!

**Response requested** Yes

**Referred\_Page** [http://webcms.pima.gov/government/pima\\_prospers/](http://webcms.pima.gov/government/pima_prospers/)

Thank you, Pima County, Arizona

## Janet Emel

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**From:** Carla Blackwell  
**Sent:** Thursday, February 26, 2015 1:09 PM  
**To:** Arlan Colton; Janet Emel  
**Cc:** Carmine DeBonis  
**Subject:** RE: Meeting?

I am going to add something into the Chapter on Econ. Dev. For this. Done...

Carla L. Blackwell  
Deputy Director, Development Services  
201 N. Stone Ave. First Floor  
Tucson, Arizona 85701  
(520) 724-9516  
*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Arlan Colton  
**Sent:** Thursday, January 22, 2015 10:12 AM  
**To:** Carla Blackwell; Janet Emel  
**Cc:** Carmine DeBonis  
**Subject:** FW: Meeting?

For post-study session

---

**From:** Robert Medler [mailto:RMedler@tucsonchamber.org]  
**Sent:** Thursday, January 22, 2015 10:06 AM  
**To:** Arlan Colton  
**Subject:** Re: Meeting?

Arlan,

Mike still has concerns that the plan does not incorporate enough of the following (his words):

Little or no emphasis on the business community's two most important priorities:

- improving permitting and other systems
- streets and roads.

For the first concern can improving the permitting process be included under section 6.1, Goal #3? It would seem like a natural fit and an easy way to directly approach this concern.

Transportation funding focus could fit under the same section, but Goal #8. One of the things we hear consistently from those in logistics is how the roads wear and tear on their vehicles. Increased funding to road maintenance supports our region's ability to be a key transportation and logistics center.

Thanks.

Robert

Robert Medler, IOM

VP Government Affairs  
Tucson Metro Chamber  
o: (520) 792-1212

**From:** Arlan Colton <[arlan.colton@pima.gov](mailto:arlan.colton@pima.gov)>  
**Date:** Thursday, January 8, 2015 at 07:37  
**To:** Robert Medler <[RMedler@tucsonchamber.org](mailto:RMedler@tucsonchamber.org)>  
**Cc:** Linda Morales <[Linda.Morales@pima.gov](mailto:Linda.Morales@pima.gov)>, 'Maria Masque' <[mmasque@azplanningcenter.com](mailto:mmasque@azplanningcenter.com)>, Carla Blackwell <[Carla.Blackwell@pima.gov](mailto:Carla.Blackwell@pima.gov)>  
**Subject:** Meeting?

Hi Robert.... Happy new year. Just following up. Did you and Mike Varney want to meet regarding roads, economic development or anything else about the plan? I know some concerns were raised about roads and economic development, so just wanted to circle back if you wanted that. Let me know either way. Thanks.

Hope all is well.

Arlan

Arlan M Colton FAICP  
Planning Director  
Pima County Development Services Dept  
201 N Stone Avenue, 2<sup>nd</sup> floor  
Tucson, Arizona 85701  
520-724-9000  
520-623-5411 fax

***Help us plan Pima County's future. Join the conversation at [www.pimaprospers.com](http://www.pimaprospers.com)***

✓ 1/14/15

**From:** [Carla Blackwell](#)  
**To:** [Janet Emel](#)  
**Subject:** FW: Forthcoming Drought  
**Date:** Friday, January 09, 2015 1:29:08 PM  
**Attachments:** [Santa Cruz Aquifer 2013 Master Plan.pdf](#)  
[Lake Mead Crisis.pdf](#)  
[Lake Mead Water Levels.pdf](#)

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I do not see these on the list?

Carla L. Blackwell  
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*Help plan our future! Share your ideas at [www.pimaprospers.com](http://www.pimaprospers.com)*

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**From:** Den and Barb [mailto:[dbrezabek@centurylink.net](mailto:dbrezabek@centurylink.net)]  
**Sent:** Friday, November 14, 2014 2:49 PM  
**To:** [arian.colton@pima.gov](mailto:arian.colton@pima.gov)  
**Cc:** Carla Blackwell  
**Subject:** Forthcoming Drought

A new study jointly released Thursday November 6th by NASA and the University of California at Irvine paints a shocking picture for the future of Western water.

In the last seven years, Lake Mead's dwindling has accelerated. The lake is now just barely more than **1,080 feet** above sea level, slightly below its previous record low set in November 2010.

The before images were taken when the lake level was 1,111 feet above sea level. Lake Mead hasn't been officially full—1,221 feet above sea level—since 1983

The challenge to policy makers and water managers in the Colorado River Basin is to reliably meet freshwater demand under these dynamic conditions. Our work suggests that a conjunctive surface water and groundwater management plan is essential for sustainable water management in the Basin. Despite commendable efforts to craft solutions to meet required surface water allocations [Bureau of Reclamation 2012], consideration of the ability of groundwater withdrawals to meet current and future demands remains dormant. We hope that the heightened awareness of the rates of the Basin groundwater depletion highlighted here will foster urgent discussion on conjunctive management solutions required to ensure a sustainable water future for the Colorado River Basin and for the western United States.

see attachments

STATE OF THE SANTA CRUZ AQUIFER 2/7/13 Gov Council  
- Lake Mead Water Levels  
- AGU Publications - Groundwater Depletion ...

Dennis Rezabek  
Green Valley

## RESEARCH LETTER

10.1002/2014GL061055

## Key Points:

- Groundwater depletion in the Colorado River Basin is greater than we thought
- As GW disappears, the basin will struggle to supply water to the seven basin states
- It is time to bring groundwater under the water management umbrella

## Supporting Information:

- Readme
- Figure S1
- Figure S2
- Figure S3
- Figure S4

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## Groundwater depletion during drought threatens future water security of the Colorado River Basin

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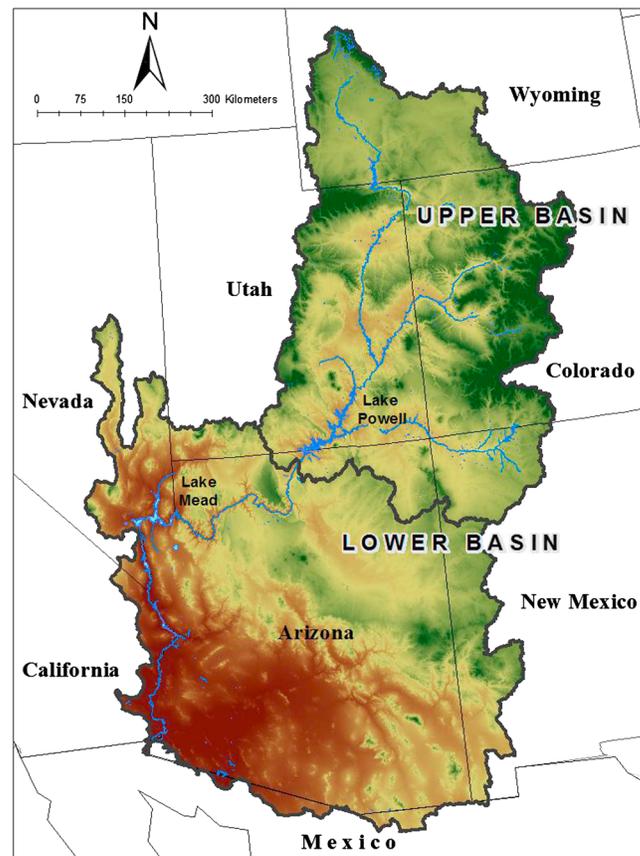
**Abstract** Streamflow of the Colorado River Basin is the most overallocated in the world. Recent assessment indicates that demand for this renewable resource will soon outstrip supply, suggesting that limited groundwater reserves will play an increasingly important role in meeting future water needs. Here we analyze 9 years (December 2004 to November 2013) of observations from the NASA Gravity Recovery and Climate Experiment mission and find that during this period of sustained drought, groundwater accounted for 50.1 km<sup>3</sup> of the total 64.8 km<sup>3</sup> of freshwater loss. The rapid rate of depletion of groundwater storage ( $-5.6 \pm 0.4 \text{ km}^3 \text{ yr}^{-1}$ ) far exceeded the rate of depletion of Lake Powell and Lake Mead. Results indicate that groundwater may comprise a far greater fraction of Basin water use than previously recognized, in particular during drought, and that its disappearance may threaten the long-term ability to meet future allocations to the seven Basin states.

### 1. Introduction

Over a decade, drought in the Colorado River Basin (Basin; Figure 1) has exposed the vulnerability [*Bureau of Reclamation*, 1975; *Barnett and Pierce*, 2008] of the most overallocated river system in the world [*Christensen et al.*, 2004]. Recently, the U.S. Bureau of Reclamation acknowledged the potential challenges [*Bureau of Reclamation*, 2012] to meeting future surface water allocations to the seven Basin states (Figure 1), noting that the contribution of local supplies, including groundwater withdrawals, will be required to offset anticipated shortages. While the need to exploit groundwater resources to meet Basin water demands has long been recognized [*Bureau of Reclamation*, 1975], withdrawals required to meet current demands remain undocumented and are uncertain in the future. In particular, water management under drought conditions focuses on surface water resources [*Basin Interim Guidelines*, 2007] without a regulatory framework to manage groundwater withdrawals outside of “river aquifer” systems [*Leake et al.*, 2013]. At question is the potential impact of solely managing surface water allocations and diversions in the Basin, without regard to groundwater loss, on meeting future water demands.

The ability to observe changes in water resources at large scales has been greatly facilitated by the deployment of recent Earth-observing satellites. One such satellite mission, the NASA Gravity Recovery and Climate Experiment (GRACE) [*Tapley et al.*, 2004], has measured the temporal variations in the Earth’s gravity field since March 2002. These observations are now routinely applied to estimate the monthly changes in terrestrial or total land water storage (i.e., all of the snow, surface water, soil moisture, and groundwater) in regional areas that are 200,000 km<sup>2</sup> or larger [*Wahr et al.*, 2004] (Figure 2). Several studies have now demonstrated that GRACE observations, when combined with coincident data sets for snow water equivalent (SWE), surface water storage, and soil water content in a mass balance, can quantify changes in groundwater storage with sufficient accuracy [e.g., *Rodell et al.*, 2009; *Famiglietti et al.*, 2011] to influence regional water management decisions [*Famiglietti and Rodell*, 2013].

Our goal in this report is to identify changes in freshwater storage, including surface reservoir and groundwater storage, to assess the influence of conjunctive surface water and groundwater use on water availability in the Colorado River Basin during the recent drought. We evaluate the terrestrial water storage anomalies (TWSA) using GRACE observations during a 9 year period (December 2004 to November 2013) that begins 4 years into a prolonged drought in the southwestern United States, after water levels in Lake Powell



**Figure 1.** The Colorado River Basin of the western United States. The state and international boundaries are in light gray. The green and brown colors represent the high and low elevations, respectively [McKay et al., 2012]. The upper Basin is that portion of the Basin upstream of Lake Powell. The lower Basin is the remainder of the basin downstream of Lake Powell. The basin outlines are in dark gray. The river, its main tributaries, and Lake Powell and Lake Mead are shown in blue.

and Lake Mead had declined precipitously [Piechota et al., 2004] (see Methods section). In particular, we estimate the changes in groundwater storage during the 9 year drought period, when reservoir volumes were intensively managed to maintain hydropower production and to meet surface water allocations to the Basin states.

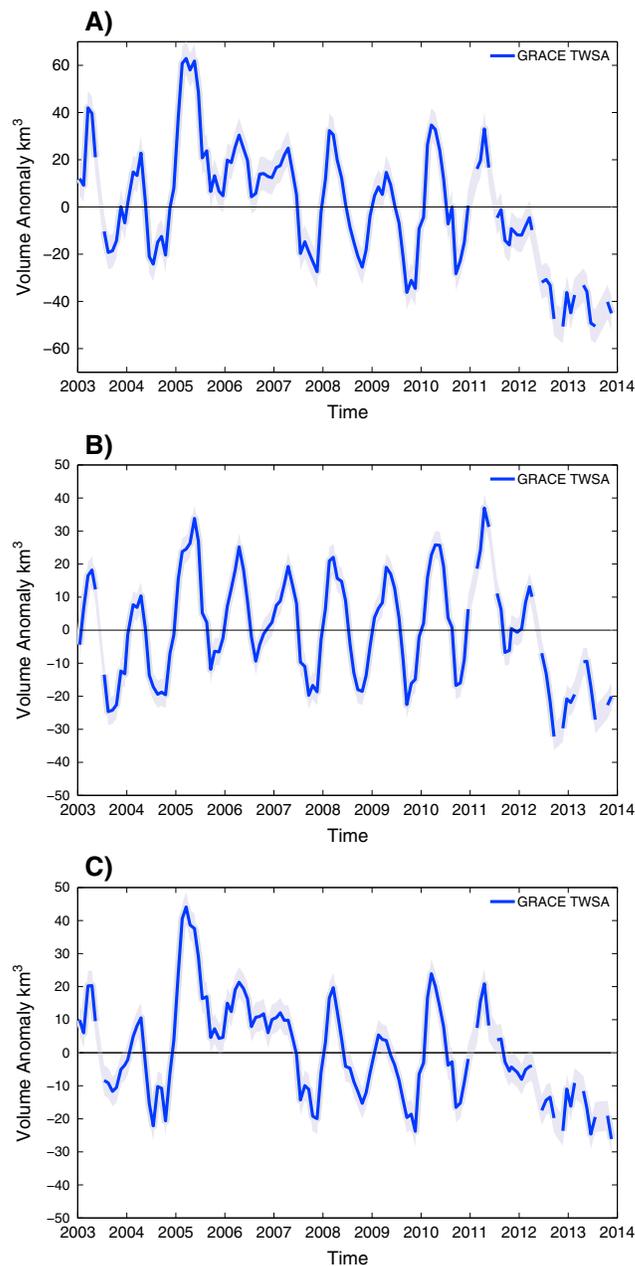
## 2. Methods

We used the Release 05 of the University of Texas Center for Space Research GRACE data [Tapley et al., 2007] (<ftp://podaac.jpl.nasa.gov/allData/grace/L2/CSR/RL05/>). Average water storage changes for the Colorado River Basin were computed as anomalies of terrestrial water storage in equivalent water height (in millimeters, converted to cubic kilometers here using the area of the study basins) following Swenson and Wahr [2009] (Figure 2). Processing methods include filtering GRACE data to reduce noise [Swenson and Wahr, 2006] and later restoring the associated lost signal over a specific region by scaling the data correctively [Velicogna and Wahr, 2006]. This processing results in estimates of satellite measurement error and leakage error from out-of-basin signal, both of which are included in a Basin-specific time-invariant error

estimate [Wahr et al., 2006]. Figure 2 shows the Basin time series of terrestrial water storage changes from January 2003 to November 2013, nearly the complete available GRACE data record.

Because our focus here is on quantifying groundwater storage changes versus surface water storage changes during drought, we restrict our analyses to the 9 year period from December 2004 to November 2013. Prior to December 2004, the Basin had experienced four additional years of drought, effectively limiting surplus inflows that replenish Lake Powell and Lake Mead. This caused steep declines in reservoir storage prior to December 2004. Late 2004 also marked the beginning of a clear drought signal in the GRACE data, relative to its launch date in March 2002 (Figure 2).

To assess the accuracy of the GRACE data used here, we performed independent water budget analyses using regional precipitation ( $P$ ) data from the PRISM system [Daly et al., 2008] (<http://prism.oregonstate.edu/recent/>), satellite-based evapotranspiration ( $ET$ ) from Moderate Resolution Imaging Spectroradiometer (MODIS) [Tang et al., 2009], and the U.S. Bureau of Reclamation dam releases ( $Q$ ) ([usbr.gov](http://usbr.gov); accessed December 2013) on the Colorado River. Uncertainty in the water balance estimate [Rodell et al., 2004a, 2004b] was calculated assuming relative errors of 15% for  $P$  [Jeton et al., 2005] and 5% in  $Q$  [Rodell et al., 2004b]. A 15% bias on the daily  $ET$  was determined by Tang et al. [2009]; we assume the relative error increases to 25% on a monthly time scale. We computed the monthly storage changes,  $dS/dt$ , as  $P - ET - Q$ , and compared them to  $dS/dt$  derived from the GRACE terrestrial water storage anomalies using a discrete backward difference. Results illustrate a good agreement between  $dS/dt$  derived from the water budget and that



**Figure 2.** Monthly anomalies (deviations from the mean of the study period) of the total water storage (TWSA) for (a) the entire Basin, (b) the upper Basin, and (c) the lower Basin, from January 2003 to November 2013 (i.e., the full GRACE RL05 record available at writing). The three TWSA estimates were calculated independently using basin-specific scaling. The anomaly errors are shown in light blue shading. There are inconsecutive gaps in the GRACE data record, increasing in number toward the end of the time period due to recent declines in satellite power supply. Subsequent analyses focus on the period of prolonged drought extending from December 2004 to November 2013.

large scales and for consistency with the previous studies [Rodell et al., 2009; Famiglietti et al., 2011]. We average the results of three land surface models from GLDAS (Variable Infiltration Capacity [Liang et al., 1994], Noah [Chen et al., 1996], and Community Land Model 2 [Dai et al., 2003]) and apply the mean monthly standard deviation as an error estimate based on model structural biases (Figure S2 in the supporting information).

observed by the GRACE, for the entire Basin, and the upper and lower Basins (Figure S1 in the supporting information). Our comparisons were limited to March 2005 to March 2010 owing to the availability of *ET* estimates. Numerous additional studies have shown strong correspondence between GRACE water storage changes, hydrologic fluxes, and observations [see, e.g., Swenson et al., 2006; Famiglietti et al., 2011].

Accessible water storage changes (the combination of surface reservoir and groundwater storage changes) in the Basin are quantified using a water mass balance approach. Studies [e.g., Rodell and Famiglietti, 2002; Rodell et al., 2009; Famiglietti et al., 2011; Scanlon et al., 2012] have shown that GRACE-observed water storage changes, in combination with additional data sets, can be used to isolate individual components of the terrestrial water balance. We assume that the total water storage in a region is composed of soil moisture (SM), snow water equivalent (SWE), surface water (SW), and groundwater (GW):

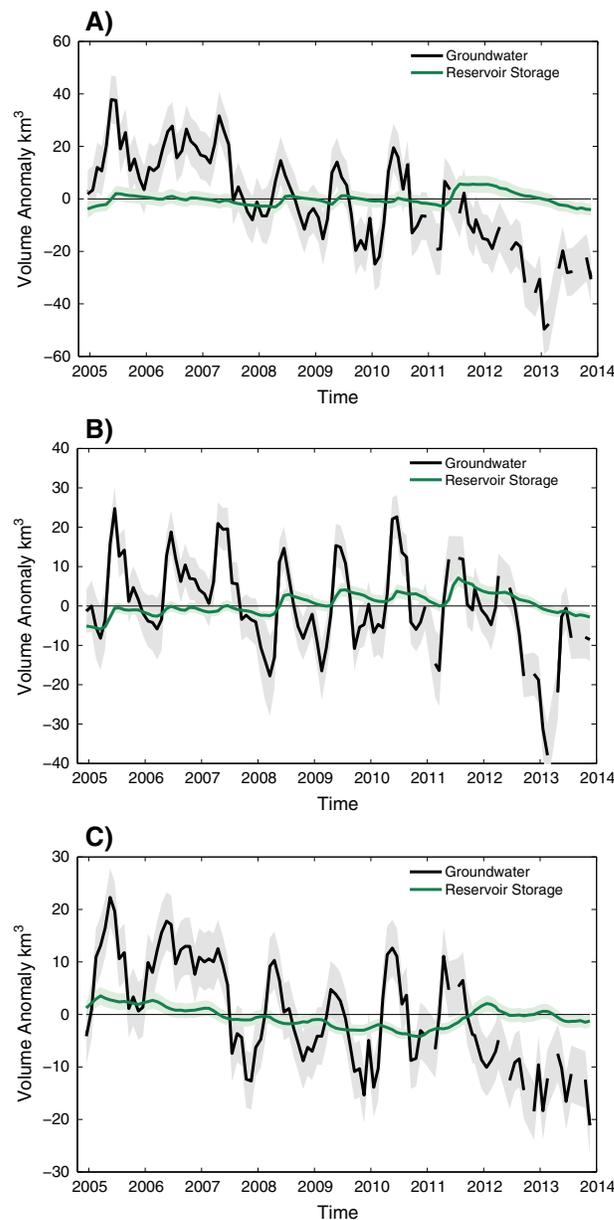
$$TWS_t = SM_t + SWE_t + SW_t + GW_t, \quad (1)$$

where the subscript *t* indicates a function of time, and changes in these components balance in their sum. We apply GRACE observations of variations from the long-term mean of this total with estimates of soil moisture and SWE to quantify changes in accessible water. We simplify equation (1) by defining accessible water as the sum of groundwater and surface water storage:

$$\Delta AW_t = TWSA_t - \Delta SWE_t - \Delta SM_t, \quad (2)$$

where  $\Delta$  indicates a variation from the time mean in an individual variable, and TWSA is the terrestrial water storage anomaly.

Soil moisture anomalies in equation (2) were estimated from the NASA Global Land Data Assimilation System (GLDAS) [Rodell et al., 2004a] (<http://disc.sci.gsfc.nasa.gov/>) due to the lack of observational soil moisture data on



**Figure 3.** Monthly anomalies ( $\text{km}^3$ ) of groundwater storage (black) and of surface reservoir storage (green) for (a) the entire Basin (trend:  $-5.6 \pm 0.4 \text{ km}^3 \text{ yr}^{-1}$ ) and Lake Powell and Lake Mead combined (trend:  $-0.9 \pm 0.6 \text{ km}^3 \text{ yr}^{-1}$ ), (b) the upper Basin (trend:  $-1.7 \pm 0.4 \text{ km}^3 \text{ yr}^{-1}$ ) and Lake Powell (trend:  $-0.6 \pm 0.6 \text{ km}^3 \text{ yr}^{-1}$ ), and (c) the lower Basin (trend:  $-2.6 \pm 0.3 \text{ km}^3 \text{ yr}^{-1}$ ) and Lake Mead (trend:  $-0.1 \pm 0.6 \text{ km}^3 \text{ yr}^{-1}$ ), from December 2004 to November 2013. The anomaly errors are shown in light gray shading for groundwater storage and in light green shading for reservoir storage. All trends are summarized in Table 1.

changes (Figure 3) to changes in the total water storage (Figure 2). We used the reservoir storage changes in Lake Mead and Lake Powell with soil moisture and snow water equivalent data as described above:

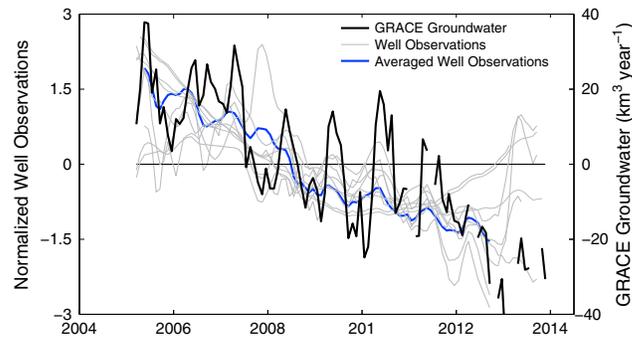
$$\Delta \text{GW}_t = \text{TWSA}_t - \Delta \text{SWE}_t - \Delta \text{SM}_t - \Delta \text{SW}_t, \tag{3}$$

where  $\Delta \text{SW}_t$  indicates the surface water anomaly from the reservoirs (Lake Powell and Lake Mead combined for the entire Basin; Lake Powell for the upper Basin and Lake Mead for the lower Basin). Equation (3) was

Data obtained from the Snow Data Assimilation System (SNODAS) [National Operational Hydrologic Remote Sensing Center, 2004] (<http://nsidc.org/data/polaris/>) were used for SWE in equation (2) (Figure S2 in the supporting information). SNODAS is the only gridded observation-based SWE product that assimilates ground, airborne, and satellite snow observations into its model structure and consequently has been used to represent SWE in other regional hydrologic studies [Famiglietti et al., 2011; Barlage et al., 2010]. Previous studies documented error of approximately 11% between SNODAS and snowpit observations in the Rocky Mountains [Rutter et al., 2008] and 15% error for basin-wide analysis [Famiglietti et al., 2011]. For this study, we assume 20% error due to the topographic and terrain heterogeneity throughout the Basin [U.S. Geological Survey, 2004].

We further separated the components of accessible water (Figure S3 in the supporting information) into surface water reservoir storage and groundwater storage (Figure 3). Reported reservoir storage time series from Lake Powell and Lake Mead were obtained from the U.S. Bureau of Reclamation [usbr.gov; accessed December 2013]. We assume that Lake Powell and Lake Mead account for the majority of the observed surface water change as they comprise approximately 4 times the annual flow of the river and make up 85% of surface water in the Basin [Rajagopalan et al., 2009]. The U.S. Geological Survey (USGS) errors for hydrologic measurements ranging from “excellent (5%)” to “fair (15%)” [Sauer and Meyer, 1992] were used to provide error estimates for surface water reservoir storage. A two sample *t* test could not reject the null hypothesis that sample means were different using the USGS ranges in error, and throughout the rest of the analysis, we used a 10% error estimate for the surface water reservoir storage time series.

We rearranged equation (1) to isolate the contribution of groundwater storage



**Figure 4.** Entire Basin comparison between the GRACE groundwater storage anomalies (black line) in km<sup>3</sup> and the monthly USGS well observations. Because specific yield information is not available for all wells, we normalize each well time series by its standard deviation and then average (in blue). Selected well observations were only available from March 2005 to October 2012; thus, we calculated the average over this time period.

solved each month, and errors in the groundwater storage were estimated by propagating the errors of TWSA, SM, SWE, and SW, following Rodell et al. [2004b].

We compared our GRACE-based estimates of groundwater storage changes to groundwater level observations at 74 monitoring wells located throughout the Basin. These data were obtained from the USGS [USGS Groundwater Climate Response Network, 2014] and from the Arizona Department of Water Resources (ADWR; <https://gisweb.azwater.gov/waterresourcedata/GWSI.aspx>, accessed May 2014). The selection of wells for comparison was limited to the locations with observations that were concurrent with GRACE. Of

these, 7 USGS and 65 ADWR were located in the lower Basin, and 2 USGS monitoring wells were identified in the upper Basin. GRACE-derived groundwater estimates generally capture the observed behavior well (see Results section and Figure 4).

The trends reported in the text and summarized in Table 1 were estimated employing a method that accounts for residual serial correlation and time series error, and subbasin trends may not sum linearly [Johnston and DiNardo, 1997]. We identified several significant trends over the entire 108 month time period studied, and in shorter time periods, from December 2004 to January 2010 and from February 2010 to November 2013 (Table 1).

**Table 1.** Trends in Water Budget Components Were Calculated Employing a Method Which Adjusts a Linear Model for Residual Serial Correlation and Time Series Error [Johnston and DiNardo, 1997]<sup>a</sup>  
Trends in Terrestrial Water in km<sup>3</sup>/yr

Time	Component	Entire Colorado River Basin (CRB)	Upper CRB	Lower CRB
Entire time period	TWSA	<b>-7.18 ± 0.75</b>	<b>-2.34 ± 0.59</b>	<b>-3.90 ± 0.47</b>
December 2004 to November 2013	SWE	0.00 ± 0	0.00 ± 0	0.00 ± 0
	SM	-1.29 ± 1.8	-0.861 ± 0.85	<b>-0.905 ± 0.24</b>
	Reservoirs	-0.865 ± 0.60	-0.638 ± 0.63	-0.057 ± 0.63
	GW	<b>-5.56 ± 0.44</b>	<b>-1.66 ± 0.40</b>	<b>-2.63 ± 0.30</b>
	AW	<b>-5.40 ± 0.47</b>	<b>-1.13 ± 0.44</b>	<b>-3.02 ± 0.30</b>
Time				
Piecewise analysis 1 December 2004–January 2010	TWSA	<b>-10.6 ± 1.4</b>	<b>-3.41 ± 1.1</b>	<b>-7.49 ± 0.90</b>
	SWE	0.00 ± 0	0.00 ± 0	0.00 ± 0
	SM	-2.67 ± 4.2	-1.74 ± 1.9	-1.45 ± 2.2
	Reservoirs	-0.428 ± 0.34	<b>1.31 ± 0.13</b>	<b>-1.20 ± 0.05</b>
	GW	<b>-6.23 ± 0.91</b>	<b>-1.91 ± 0.80</b>	<b>-4.06 ± 0.60</b>
AW	<b>-6.29 ± 0.96</b>	-1.37 ± 2.2	<b>-5.27 ± 0.62</b>	
Time				
Piecewise analysis 2 February 2010 to November 2013	TWSA	<b>-19.2 ± 2.1</b>	<b>-11.5 ± 2.0</b>	<b>-9.14 ± 1.3</b>
	SWE	0.00 ± 0	0.00 ± 0	0.00 ± 0
	SM	<b>-6.82 ± 1.2</b>	<b>-2.88 ± 0.76</b>	<b>-3.64 ± 0.62</b>
	Reservoirs	-8.42 ± 4.7	<b>-3.22 ± 1.2</b>	-0.085 ± 2.0
	GW	<b>-10.9 ± 1.5</b>	<b>-6.10 ± 1.5</b>	<b>-5.83 ± 0.89</b>
AW	<b>-11.2 ± 1.6</b>	<b>-7.48 ± 1.6</b>	<b>-4.85 ± 0.90</b>	

<sup>a</sup>The approach identified several significant trends (shown in bold) in accessible water (AW) in the Basin over the entire time period from December 2004 to November 2013 and a piecewise trend analysis conducted from December 2004 to January 2010 and from February 2010 to November 2013. The Basin TWSA estimates are calculated independently, and there is no assumption that subbasin trends will sum linearly.

### 3. Results

We find that during the 108 month study period, the entire Colorado River Basin lost a total of  $64.8 \text{ km}^3$  of freshwater ( $-7.2 \pm 0.8 \text{ km}^3 \text{ yr}^{-1}$ , where  $\pm$  represents the standard error of the slope coefficient) (Figure 2a) with a more severe rate of loss since February 2010 ( $-19.2 \pm 2.1 \text{ km}^3 \text{ yr}^{-1}$ ). The upper Basin (Figure 1) lost  $21.6 \text{ km}^3$  of water during the entire study period, with more severe loss rates after February 2010 ( $-11.5 \pm 2.0 \text{ km}^3 \text{ yr}^{-1}$ ) (Figure 2b). Study period losses in the lower Basin of  $34.7 \text{ km}^3$  were greater than in the upper Basin and declined at a faster rate ( $-3.9 \pm 0.5 \text{ km}^3 \text{ yr}^{-1}$ ) (Figure 2c). All trends are listed in Table 1. As described in the Methods section, we compared our GRACE-derived water storage estimates to independent water balances for the entire, upper, and lower Basins with good agreement (Figure S1 in the supporting information). This comparison lends additional confidence to the results reported here.

Further analysis of trends in groundwater storage (Figure S4 in the supporting information) revealed two distinct phases of depletion prior to and following 2009–2010. From December 2004 to January 2010, groundwater storage declined more rapidly in the lower Basin ( $-4.1 \pm 0.6 \text{ km}^3 \text{ yr}^{-1}$ ) compared to the upper Basin ( $-1.9 \pm 0.8 \text{ km}^3 \text{ yr}^{-1}$ ). Groundwater losses from February 2010 to November 2013 were found to be even greater in the upper ( $-6.1 \pm 1.5 \text{ km}^3 \text{ yr}^{-1}$ ) and lower Basins ( $-5.8 \pm 0.9 \text{ km}^3 \text{ yr}^{-1}$ ).

A brief recovery in groundwater storage is apparent from June 2009 to March 2010, when moderately wetter conditions provided a combination of potential groundwater recharge and temporarily alleviated the need to augment surface water supplies. The steepest rate of groundwater storage decline (in the upper Basin in 2013) follows exceptional drought conditions in 2012 and record low Rocky Mountain snowpack (U.S. Drought Monitor, 2012; see Figure S2 in the supporting information). Such behaviors highlight the close connection between surface water availability and groundwater use [Famiglietti *et al.*, 2011].

We find that water losses throughout the Basin are dominated by the depletion of groundwater storage (Figure 3). Renewable surface water storage in Lake Powell and Lake Mead showed no significant trends during the 108 month study period, more recent declines (since 2011) and currently low (<50% of capacity) storage levels notwithstanding. Groundwater storage changes however accounted for the bulk (Table 1) of the freshwater losses in the entire Basin ( $50.1 \text{ km}^3$  and  $-5.6 \pm 0.4 \text{ km}^3 \text{ yr}^{-1}$ ), the majority of which occurred in the lower Basin (Figure 3c). As mentioned in the Methods section, we examined the USGS and ADWR monitoring wells in the Basin during the study period. The observed behavior in these wells showed a good agreement with our GRACE-based estimates. Figure 4 shows the comparisons for the USGS wells. A Sen's slope trend comparison to the ADWR wells showed that measured groundwater table changes closely matched our GRACE-based estimates. These comparisons help confirm the groundwater depletion rates reported here.

### 4. Discussion

Drought in the Basin has effectively limited the surplus inflows that replenish Lake Powell and Lake Mead since the beginning of the 9 year study period, while active surface water management has prevented further declines in reservoir levels. Consequently, reservoirs show insignificant trends in storage levels ( $-0.9 \pm 0.6 \text{ km}^3 \text{ yr}^{-1}$ ), while groundwater has been significantly depleted ( $-5.6 \pm 0.4 \text{ km}^3 \text{ yr}^{-1}$ ). The vast difference may well be attributed to the regulatory framework already in place to manage surface waters, and to the general need for more active and enforceable groundwater management throughout the Basin, in particular, during drought.

The large, net negative change in groundwater storage is a clear indication that groundwater withdrawals are not balanced by recharge and must be greater than the observed depletion rate. The additional loss of  $5.6 \text{ km}^3 \text{ yr}^{-1}$  of groundwater, relative to the annual Basin surface water allocations of  $18 \text{ km}^3 \text{ yr}^{-1}$ , indicates further that the Basin water supply was overallocated by at least 30% during the study period. Thus, we observe that groundwater is already being used to fill the gap between Basin demands and the annual renewable surface water supply.

Groundwater is typically used to augment sparse surface water supplies in the arid, lower Basin, and across the entire Basin during drought [Hutson *et al.*, 2004; Kenny *et al.*, 2009]. More generally, water managers around the world rely on groundwater to mitigate the impacts of drought on water supply [Leblanc *et al.*, 2009; Famiglietti *et al.*, 2011; Famiglietti and Rodell, 2013; Taylor *et al.*, 2013]. Groundwater represents the largest supply of water for irrigation within the Basin [Hutson *et al.*, 2004; Kenny *et al.*, 2009], while irrigated acreage in the Basin

has increased during our study period [Ward and Pulido-Velazquez, 2008; Cohen et al., 2013]. Furthermore, prolonged drought across the southwestern U.S. has resulted in overreliance on groundwater to minimize impacts on public water supply [Famiglietti and Rodell, 2013]. Long-term observations of groundwater depletion in the lower Basin (e.g., in Arizona—despite groundwater replenishment activities regulated under the 1980 Groundwater Code—and in Las Vegas [Konikow, 2013]) underscore that this strategic reserve is largely unrecoverable by natural means and that the overall stock of available freshwater in the Basin is in decline.

Future water management scenarios that account for both population growth and climate change also point to the inability of reservoir storage alone to meet the Basin allocations [Barnett and Pierce, 2008; Bureau of Reclamation, 2012]. These scenarios indicate that additional stresses will be placed upon the groundwater system, beyond those described here, to meet future Basin water demands. We believe that the combination of reduced surface water availability resulting from decreasing future snowpack [Barnett et al., 2008] and groundwater depletion poses a significant threat to the long-term water security of the region. As groundwater supplies reach their limits, the ability to supply freshwater during drought, or to fill the predicted, increasing gap between supply and demand [Bureau of Reclamation, 2012], will be severely constrained.

The challenge to policy makers and water managers in the Colorado River Basin is to reliably meet freshwater demand under these dynamic conditions. Our work suggests that a conjunctive surface water and groundwater management plan is essential for sustainable water management in the Basin. Despite commendable efforts to craft solutions to meet required surface water allocations [Bureau of Reclamation, 2012], consideration of the ability of groundwater withdrawals to meet current and future demands remains dormant. We hope that the heightened awareness of the rates of the Basin groundwater depletion highlighted here will foster urgent discussion on conjunctive management solutions required to ensure a sustainable water future for the Colorado River Basin and for the western United States.

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# State Of The Santa Cruz Aquifer

Presented By The Green Valley Council

Thursday - February 7<sup>th</sup>, 2013



# Program

**Introduction**

**Stan Riddle, President GVC**

**Overview**

**John Kozma, GVC Environ. Comm.**

**Characteristics TAMA/USC**

**Wally Wilson, Tucson Water**

**Depletion Rates & Forecast**

**Bob Hedden, USCPUG**

**CAP & Water Availability**

**Mitch Basefsky, CAP**

**New Sustainable Sources**

**Virgil Davis, Community Water**

**Dick & Nan Walden, FICO**

**Question & Answer Period**

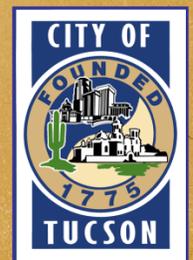
**(All Participants)**

# Overview

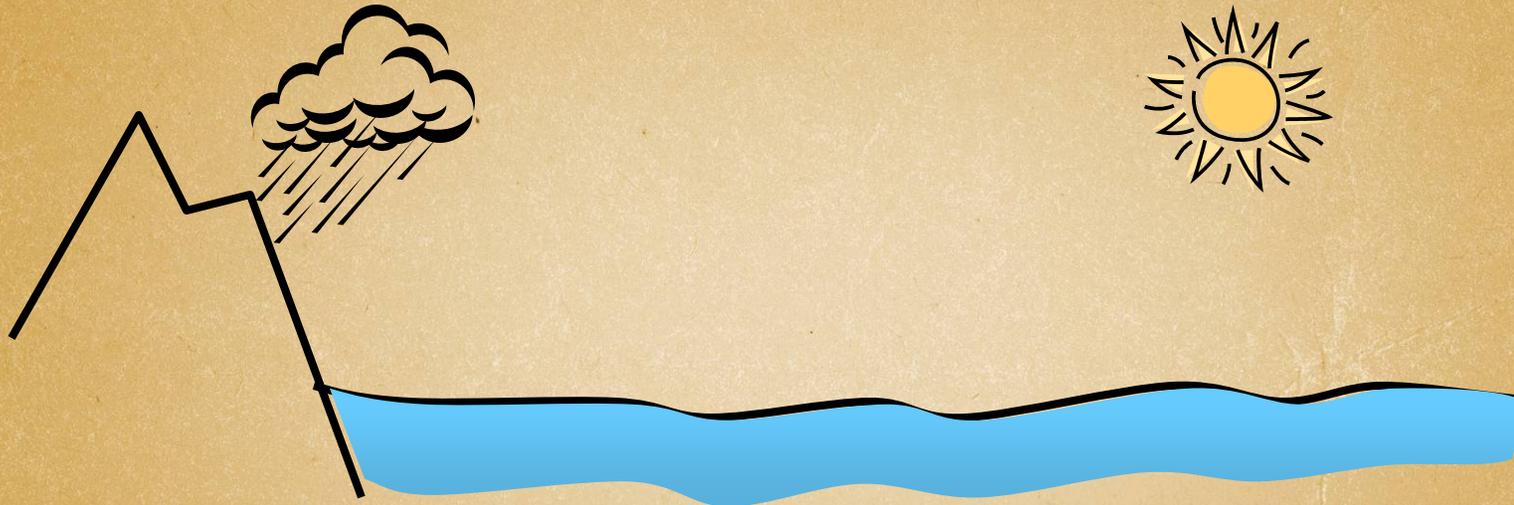
- **Q&A Via Hand Printed Cards**
- **Program Theme 3 P's – Perspective, Progress & Passion**
- **Today You Will See Lots Of Numbers – 5,000 Foot View**
- **Our Upper Santa Cruz Has Been Experiencing Net Depletion For Decades – Major Issue Is Subsidence**
- **AZ 1980 Ground Water Act Was The Coming Together Of Agriculture, Cattleman, Mining And Government**
- **6 Water Providers In Green Valley / Sahuarita Area**
- **Commitment Of The USC Providers & Users Group**
- **Departing Message – Stay Informed and Involved / Ask**

# Characteristics Of The Tucson Active Management Area & The Upper Santa Cruz

Presented by Mr. Wally Wilson Of Tucson Water



# Status of the Aquifer

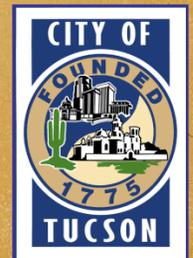


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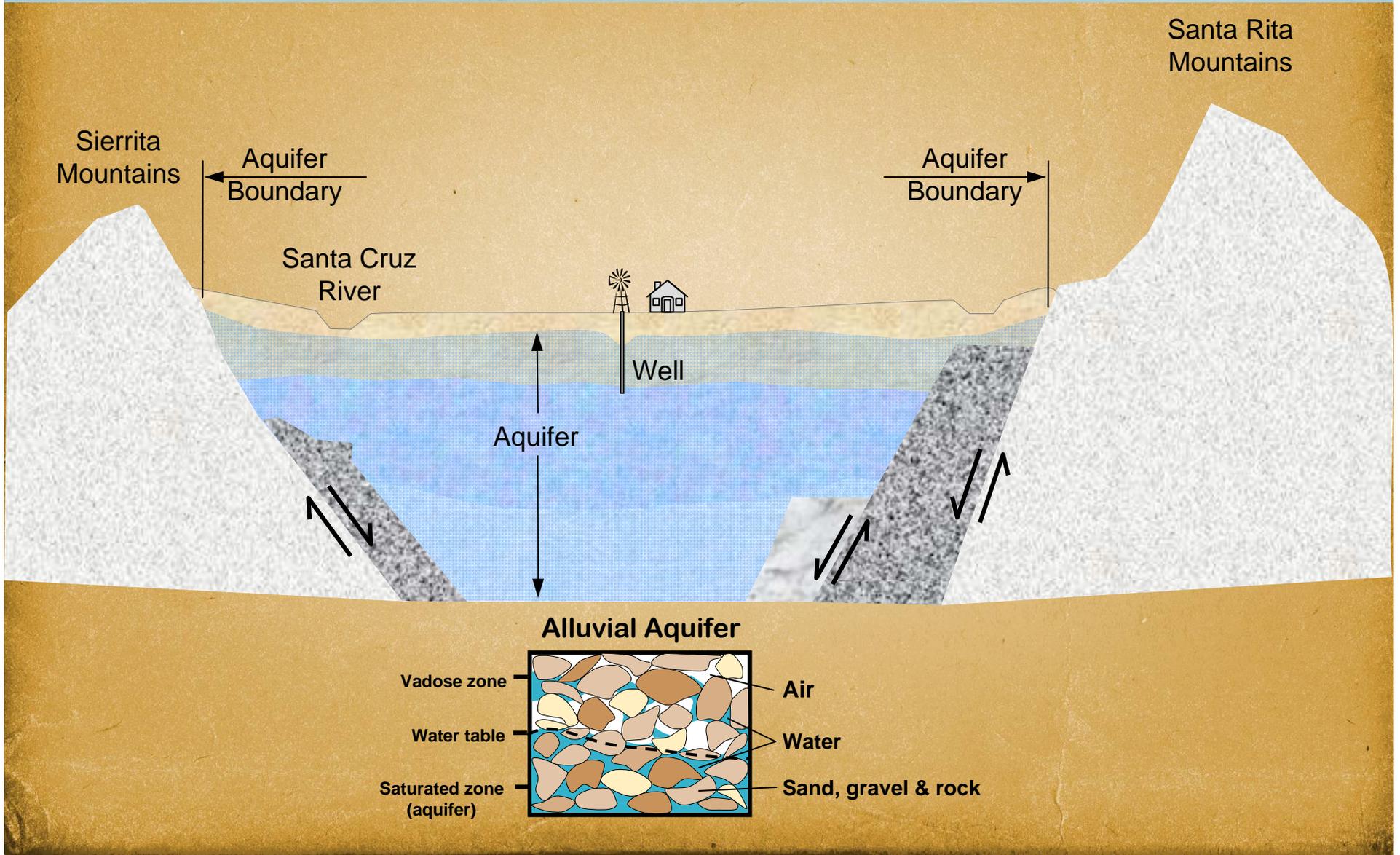
The Green Valley/Sahuarita  
Community

Presented by:

Wally Wilson – Chief Hydrologist



# Aquifer Section

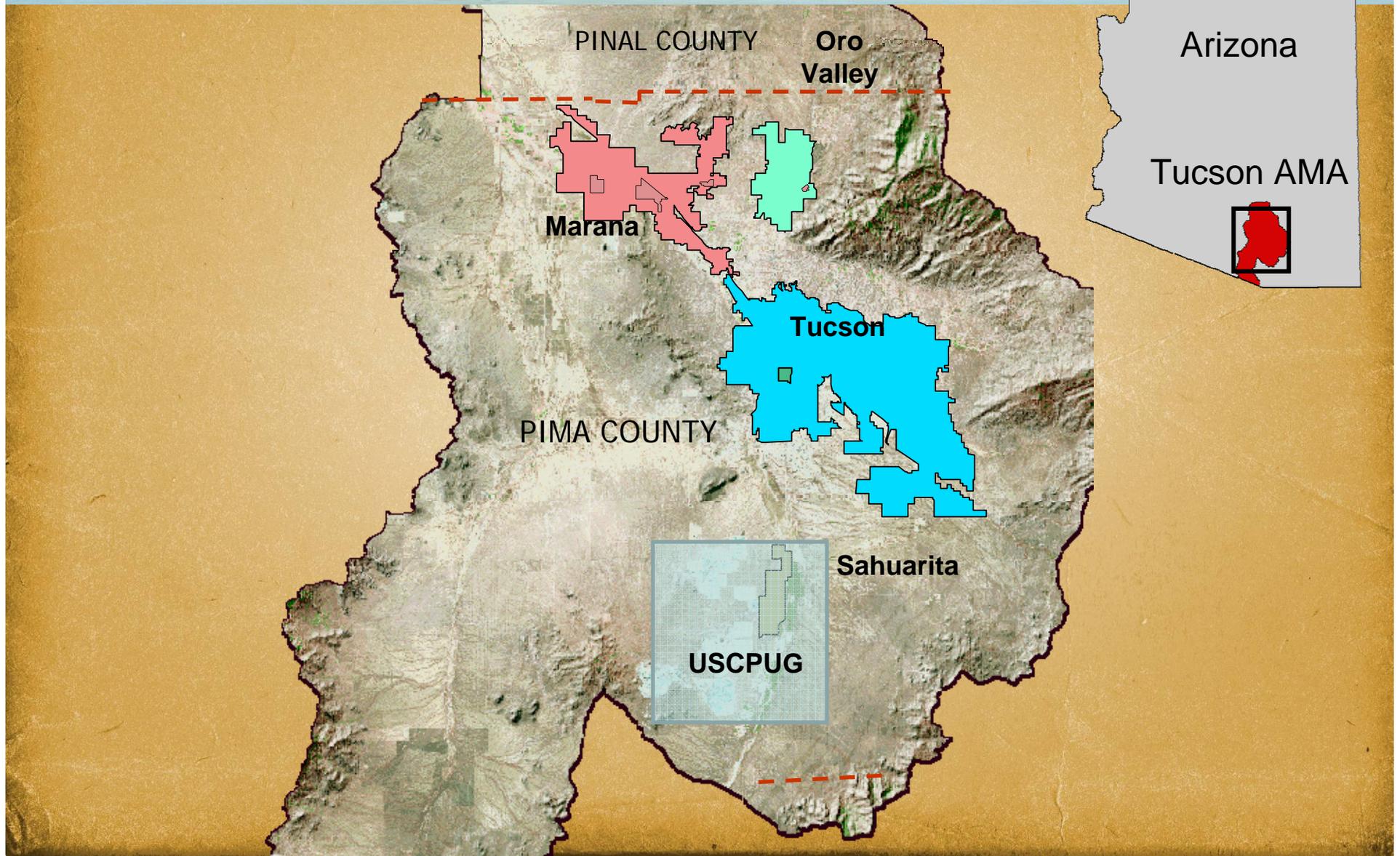


# Tucson AMA

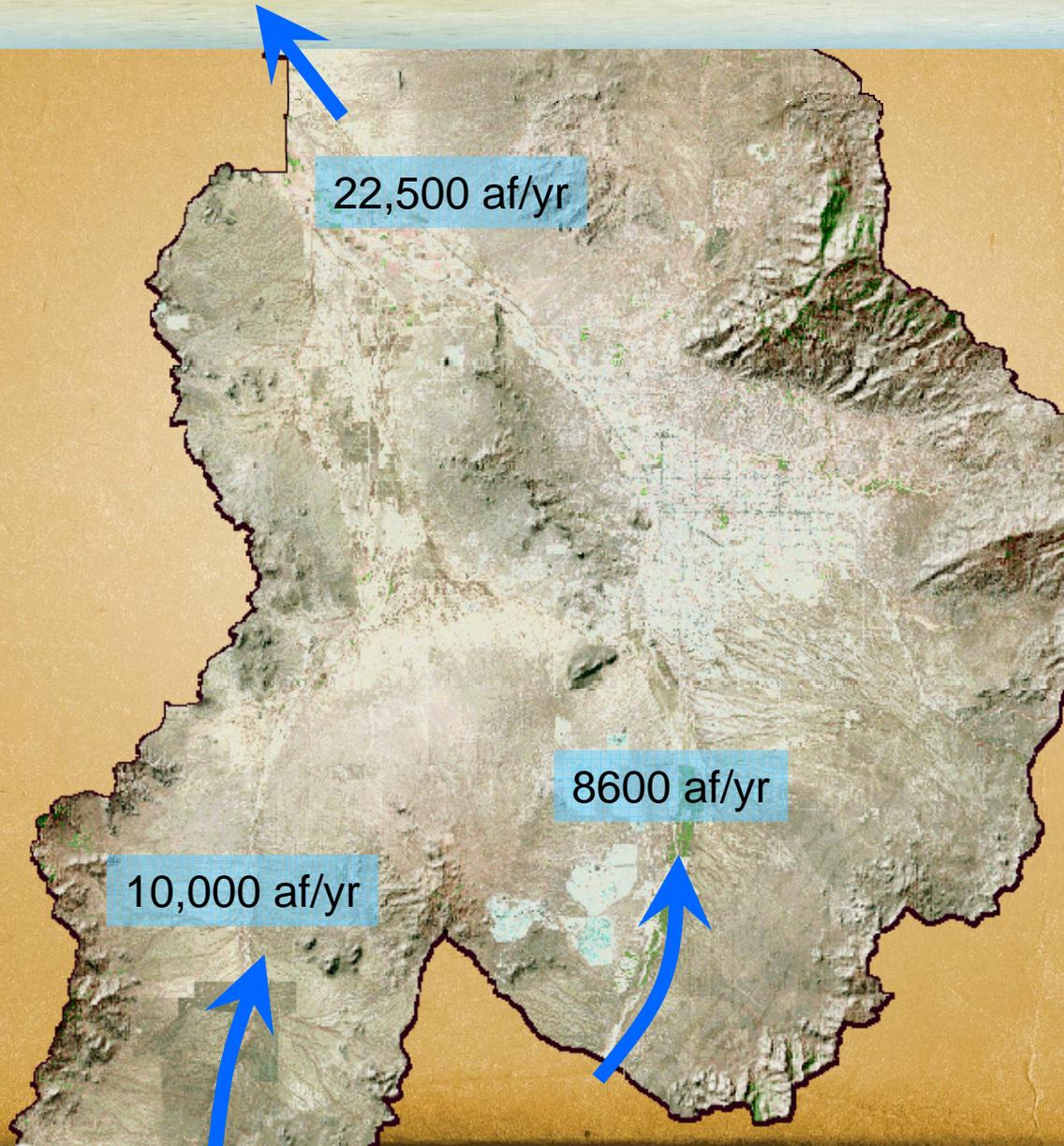


United States/Arizona  
Mexico

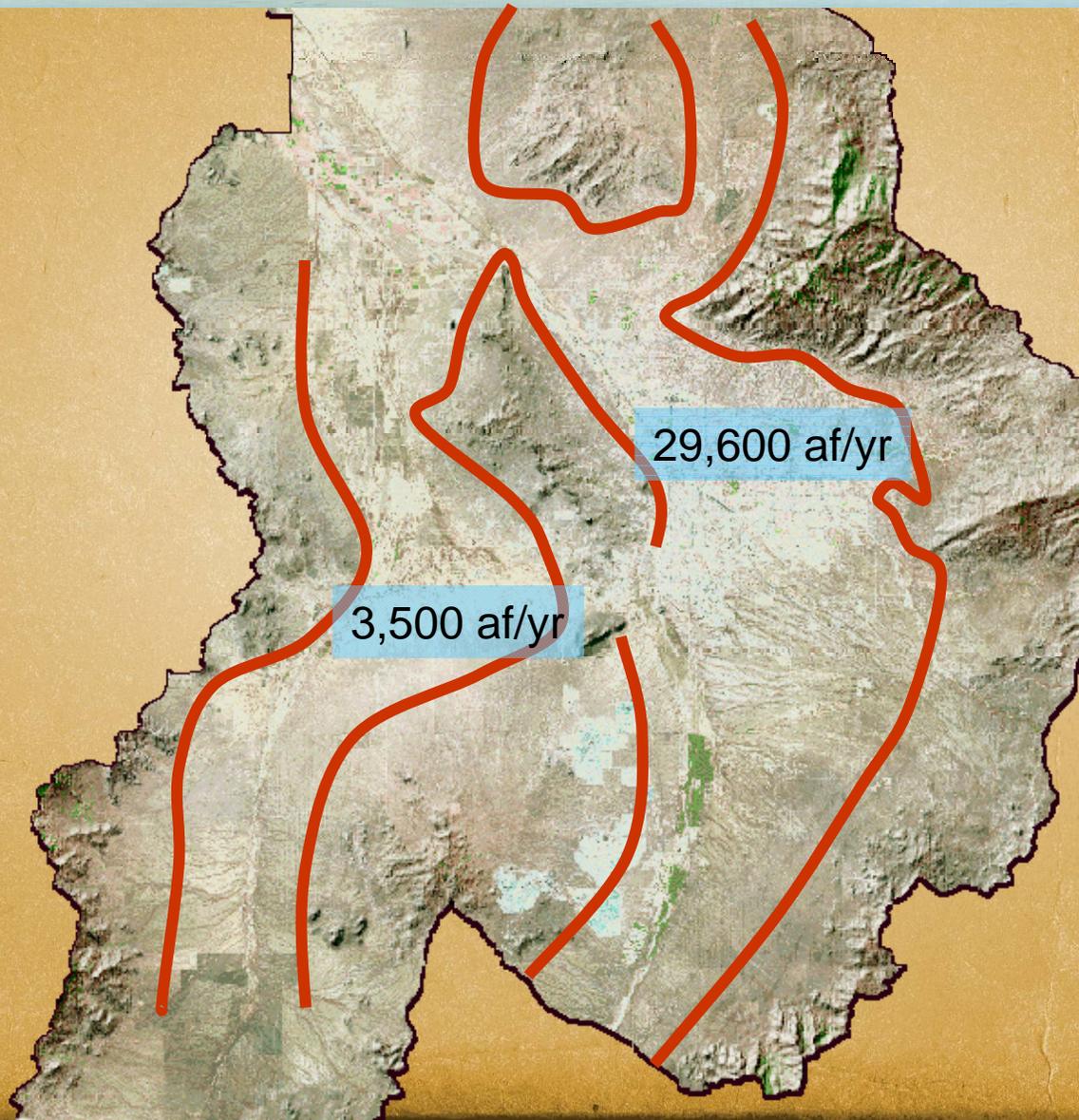
# Regional Groundwater Users



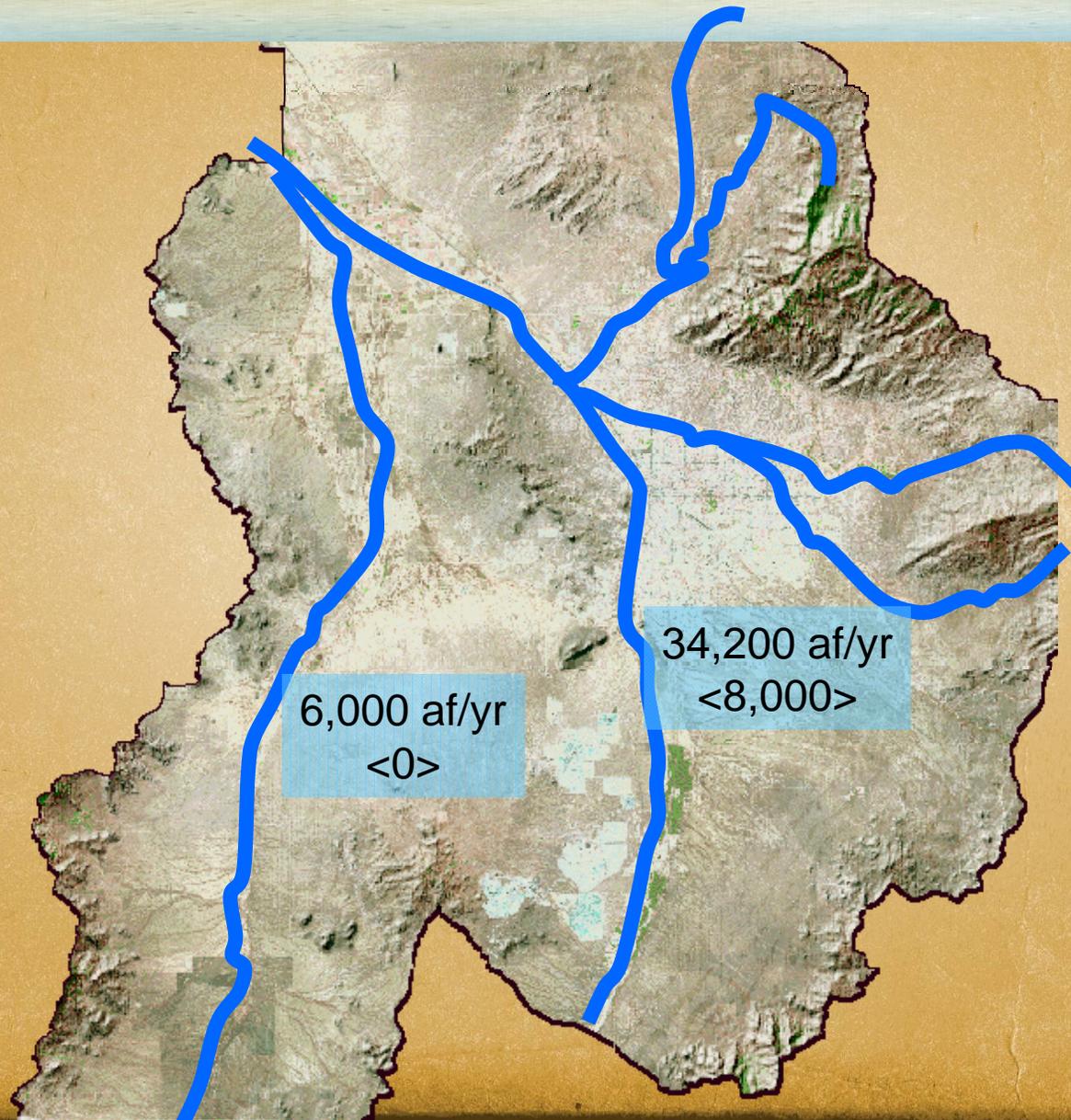
# Groundwater Underflow



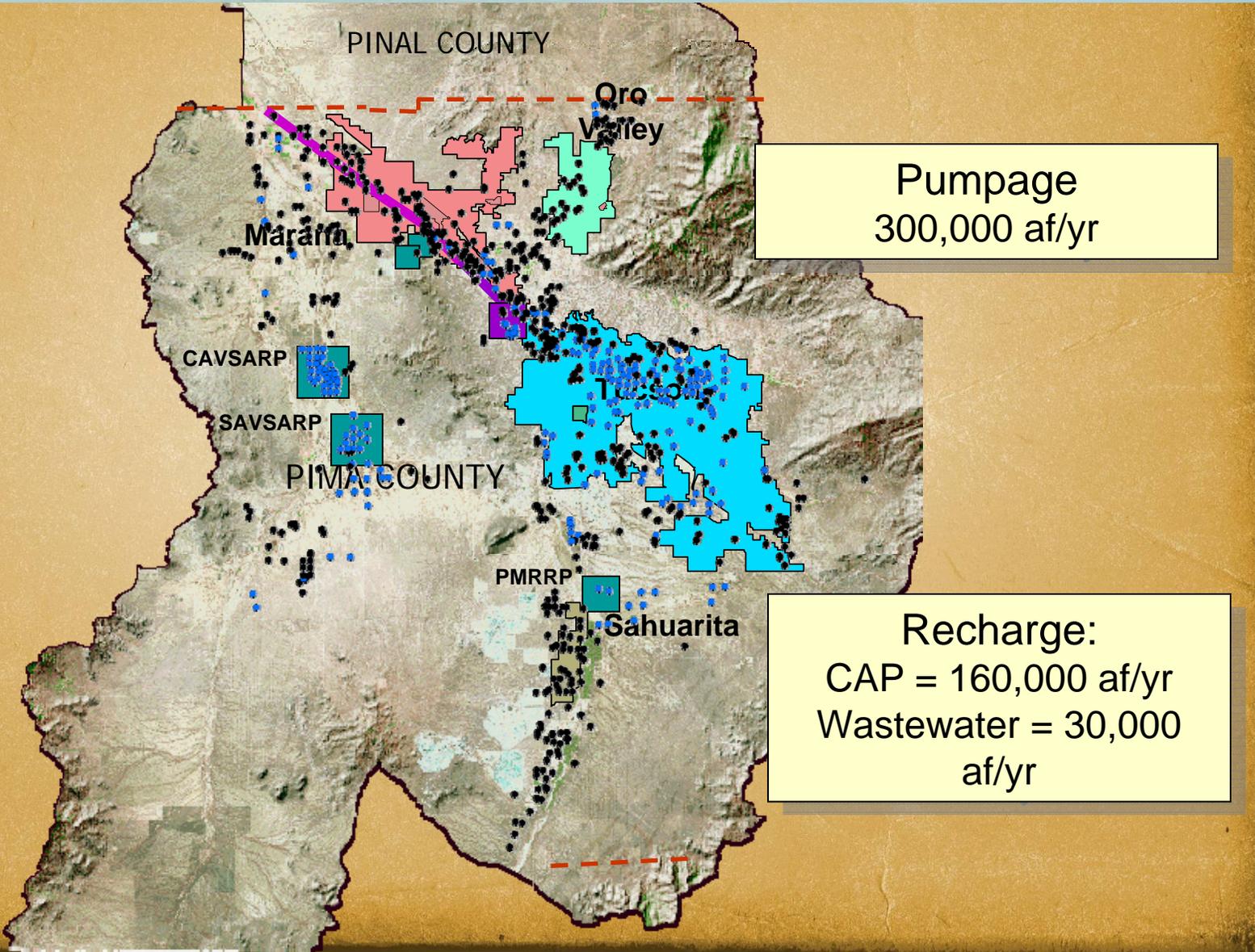
# Mountain Front Recharge



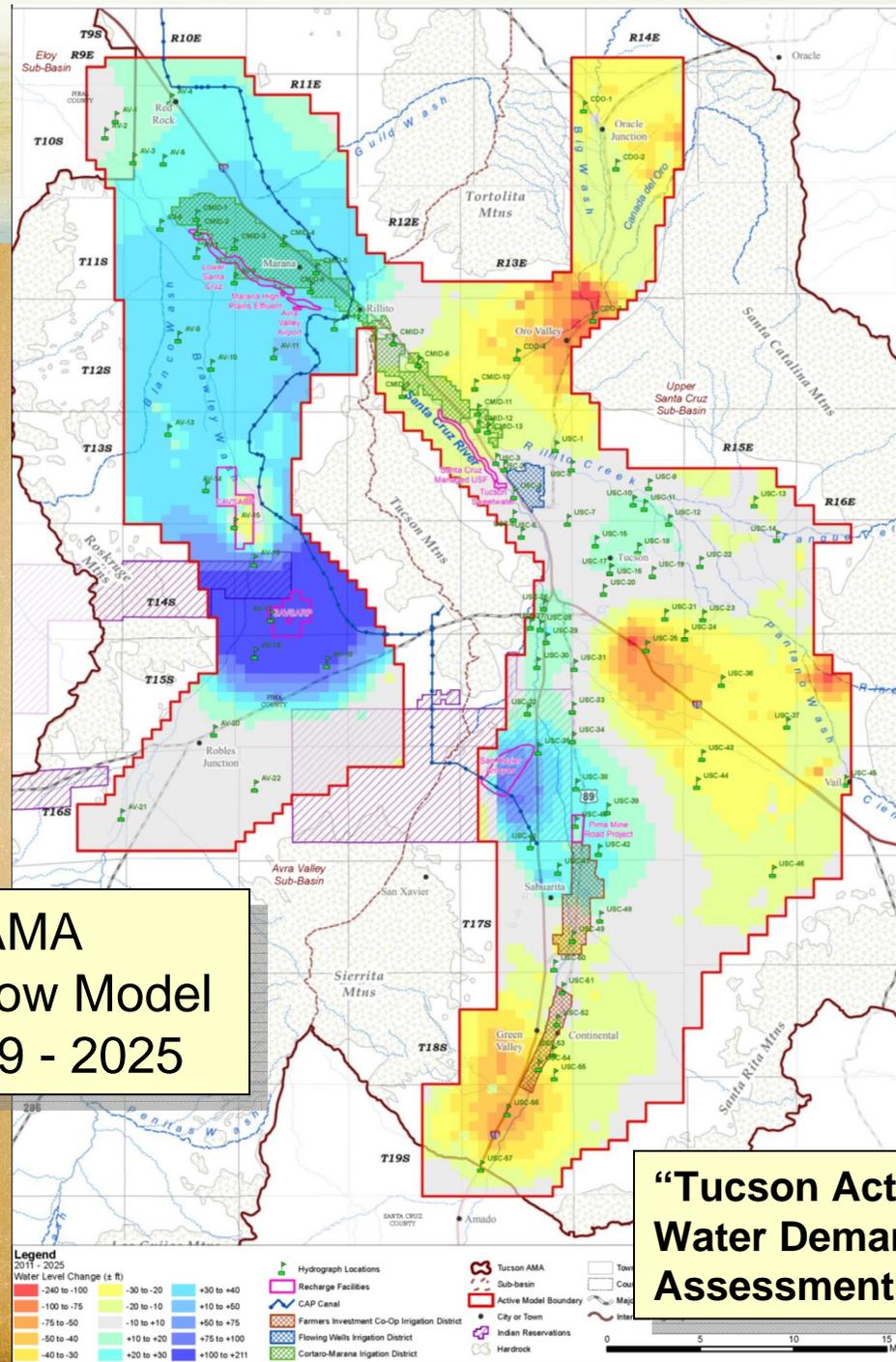
# Stream Flow Recharge and ET



# Artificial Input and Output

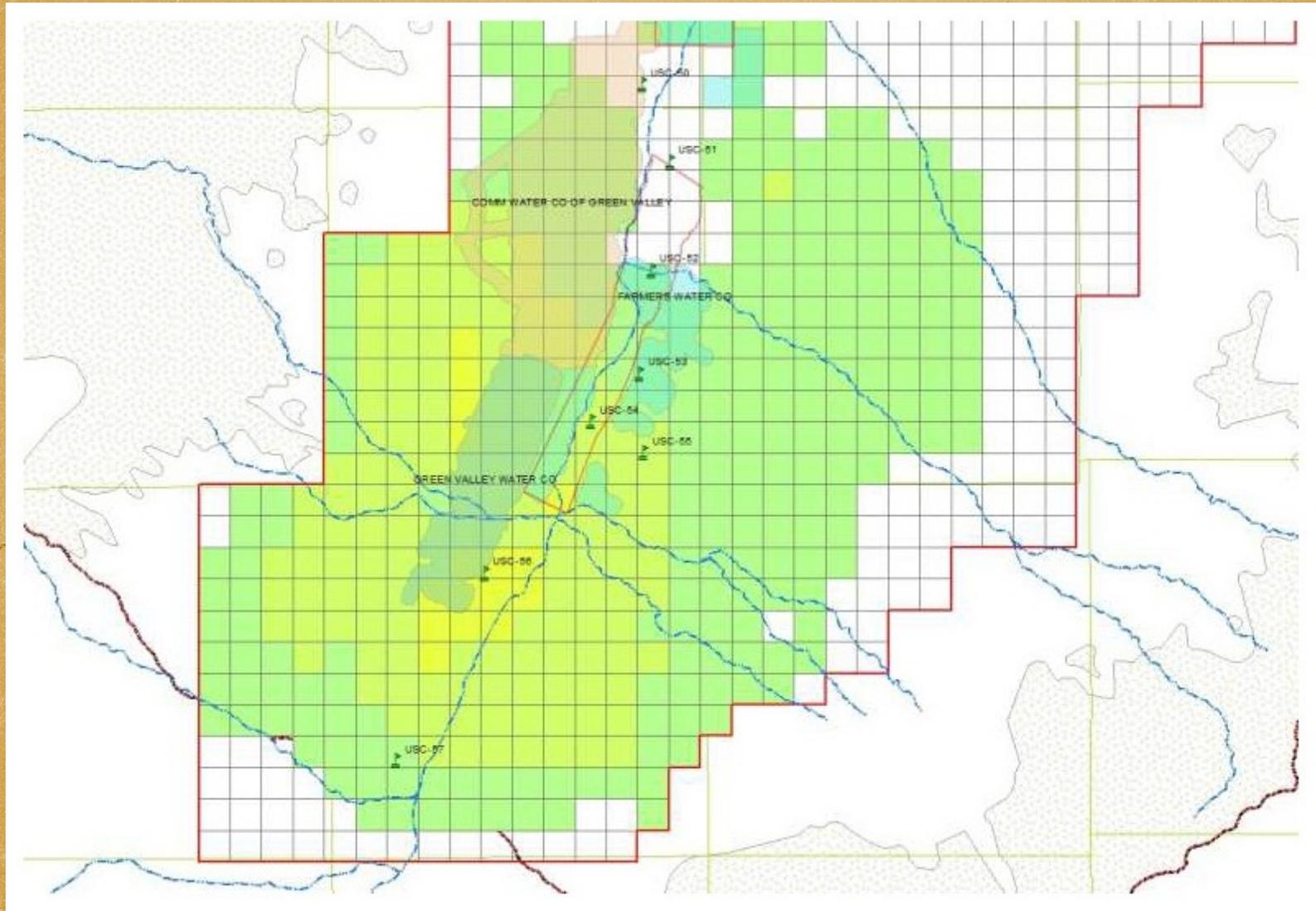


ADWR TAMA  
Groundwater Flow Model  
Projection 2009 - 2025



“Tucson Active Management Area  
Water Demand and Supply  
Assessment: 1985 — 2025”

# Southern USC Area

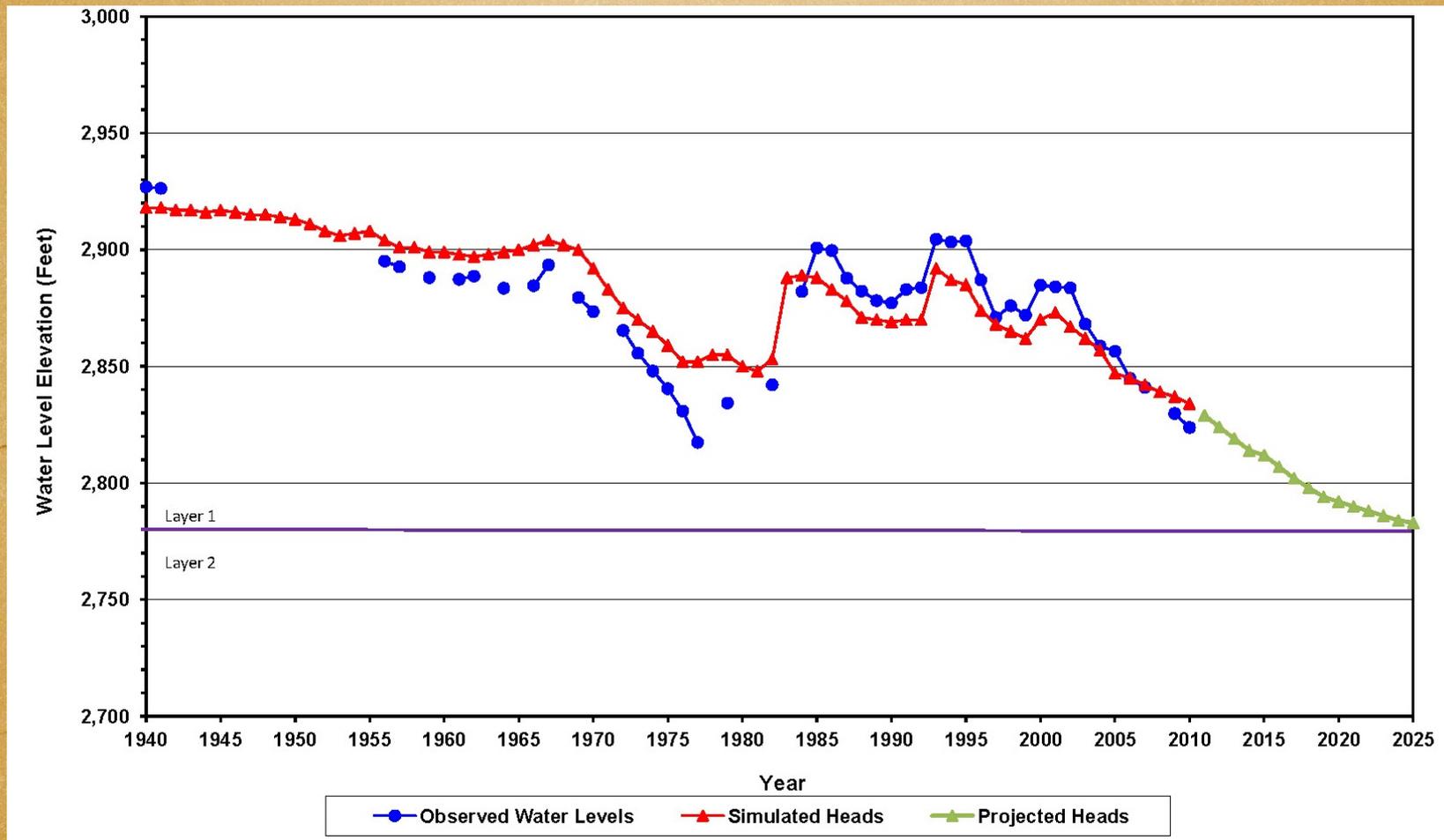


# Hydrograph USC-56

## Canoa Ranch/I-19

Land Surface: 3,005 Ft.  
Layer 2 Top: 2,780 Ft.

Well Use: Irrigation  
Well Depth: Unknown



# Key Points

- There are still areas of the TAMA that continue to face water level decline challenges
- Regional Wheeling decreasing groundwater pumping in vulnerable areas
- USCPUG plans for recharging CAP supply
- FICO plans for GSF
- Bringing more renewable supplies to use requires significant infrastructure investment.

***Local Upper Santa Cruz  
Depletion Rates, Forecast,  
and Other Factors***

Presented By Mr. Bob Hedden, USCPUG & GVDWID

# *USC/PUG*

*Upper Santa Cruz Providers and Users Group*

Sustainable Water for the  
Sahuarita & Green Valley Area

# *About USC/PUG*

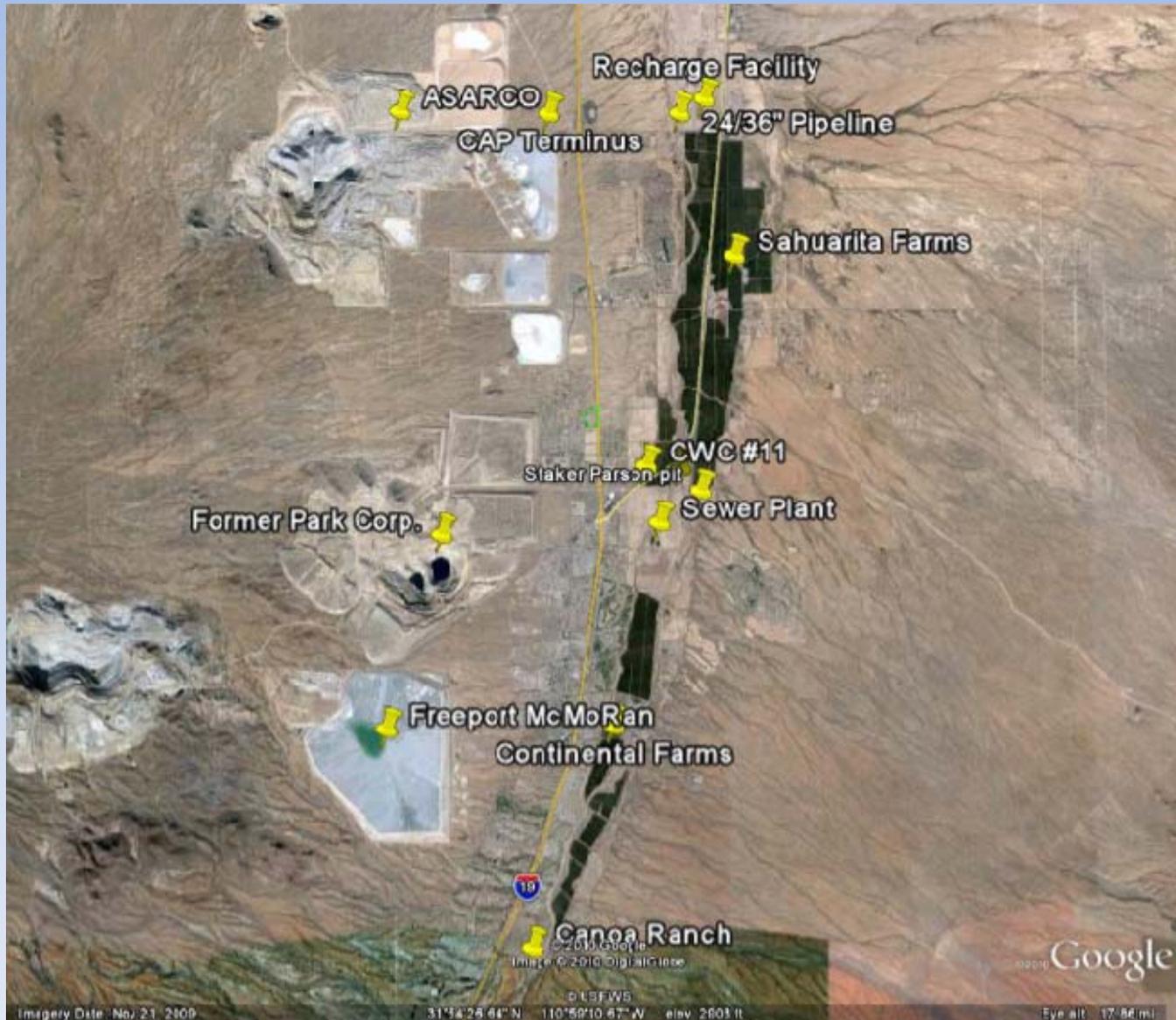
- Formed in 2007, Incorporated as a scientific/educational nonprofit in 2009
- Motivated by long term aquifer decline and increasing water demand
- Brings together major water companies, agriculture and mining interests
- Produced several water studies
- Partners with US Bureau of Reclamation

# *PARTICIPANTS*

Disparate group of organizations – large versus small, profit making versus non-profit, public versus private

- Farmers Investment Company
- Sahuarita Water Company
- Green Valley Domestic Water Improvement District
- Community Water Company
- Freeport McMoRan Copper and Gold
- Town of Sahuarita

# USCPUG AREA



# *Average Depth by Water Provider*

Community Water Co.	( 4 wells) : 190' - 315'
Green Valley Water District	( 4 wells) : 145' - 230'
Farmer's Water Co.	( 6 wells) : 225' - 300'
Sahuarita Water Co.	( 2 wells) : 185' - 275'
Las Quintas Serenas Water	( 3 wells) : 345' - 390'
Quail Creek Water	( 4 wells) : Not Avail.

# *Average Annual Decline by Water Provider*

Community Water Co.	1.5' - 3.0'
Green Valley Water District	1.0' - 3.0'
Farmer's Water Co.	1.5' - 4.0'
Sahuarita Water Co.	+ 1.0' - 2.5''
Las Quintas Serenas Water	+ 0.8' - 2.2'
Quail Creek Water	(Not Avail)

# *Sulfate Plume*

- Plume originates from seepage at the Freeport McMoRan retention pond
- Sulfate concentration reaches up to 1500 mg/L.
- Plume flowing north – northeast
- Freeport replaced Community Water Co. wells
- 2006/2007 Mitigation Plan includes:
  - Minimum quarterly monitoring of groundwater
  - Construction of 18 – 20 new interceptor wells
  - Construction of new retention pond

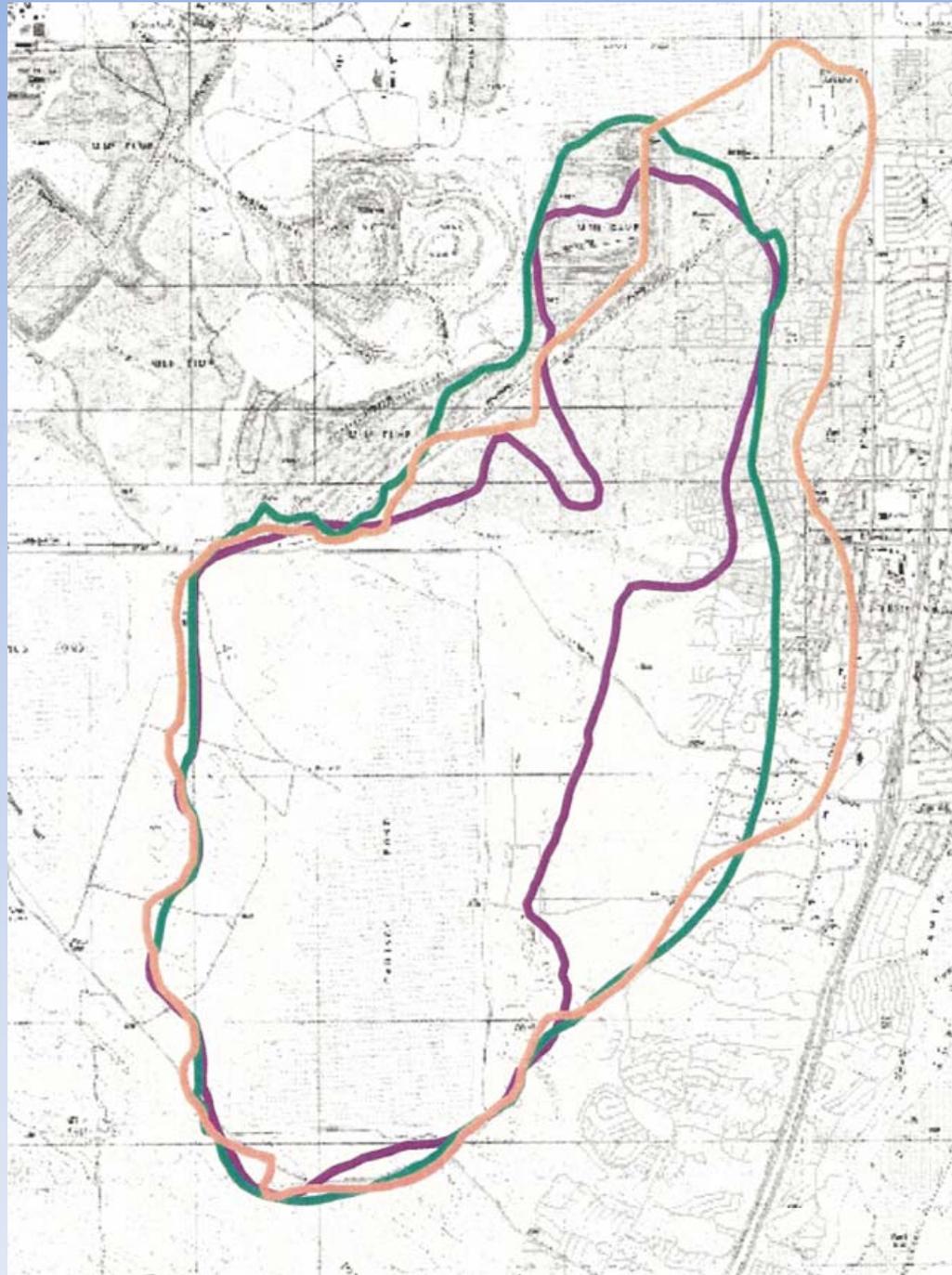
# *Sulfate Plume*

250 mg/l  
Boundary

Upper Layer

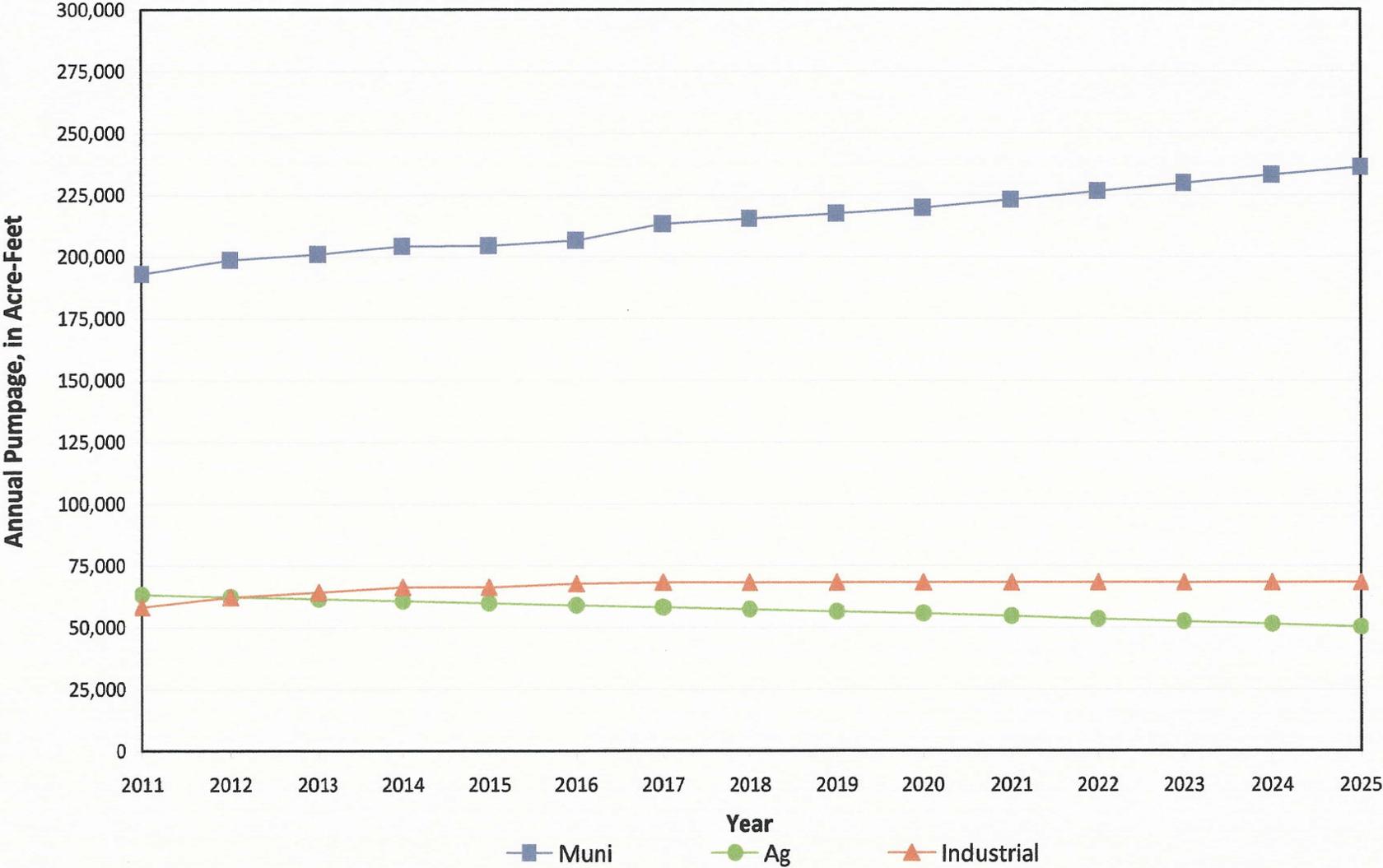
Middle Layer

Lower Layer



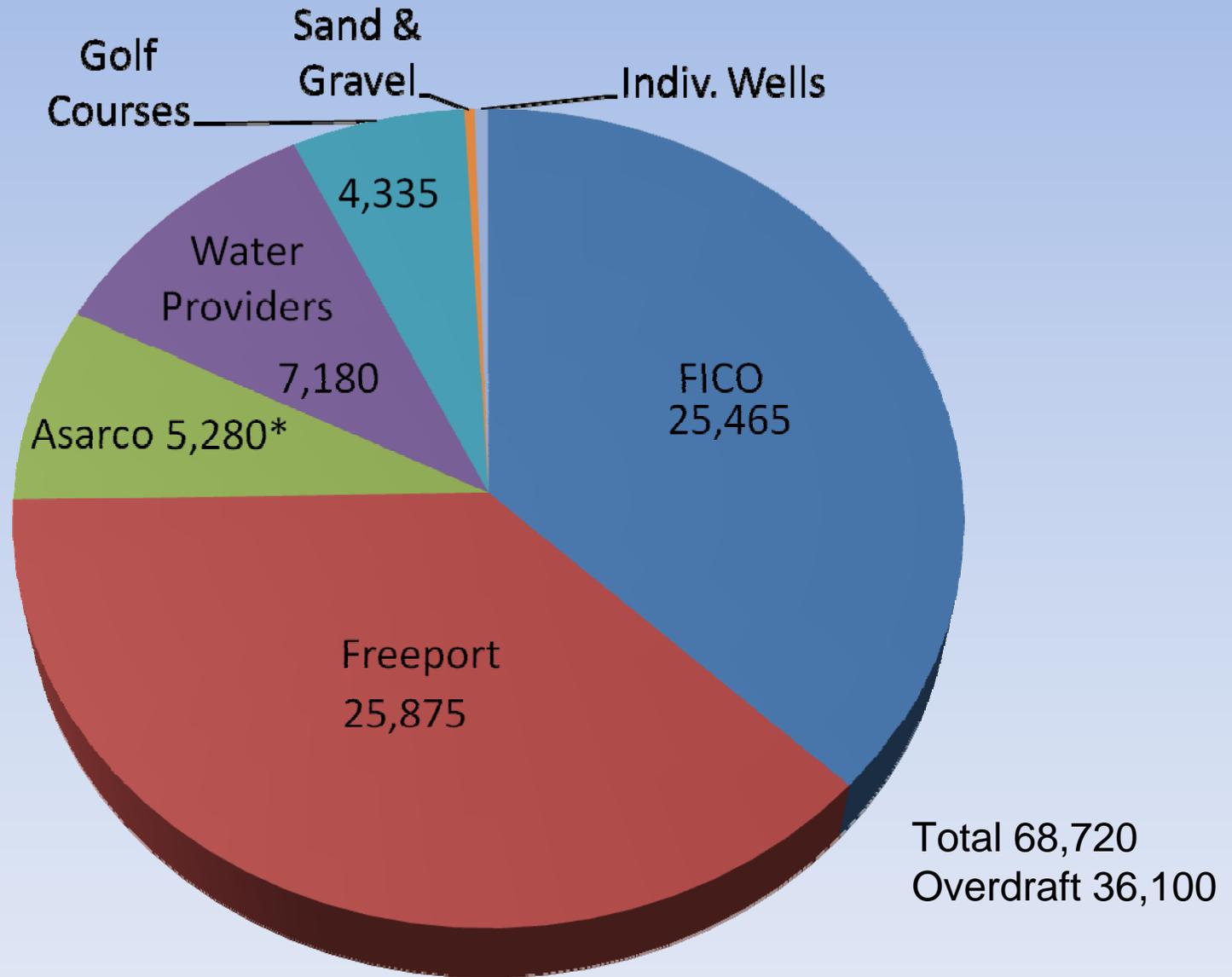
# Tucson AMA Pumping

Pumpage by Sector: 2011-2025



# Water Usage (2010)

Acre feet per year



\*Asarco also uses 8,000 – 9,000 af/y of CAP water directly.

# Water Usage

PUG ESTIMATED WATER USAGE AND RECHARGE				
<u>MAJOR PROVIDERS &amp; USERS</u>	<u>2010</u>	<u>2015</u>	<u>2025</u>	<u>2035</u>
FICO	25,465	25,000	20,500	17,500
Freeport McMoRan	25,875	25,875	25,875	25,875
ASARCO - Aquifer*	5280	6000	6000	6000
<b>WATER PROVIDERS</b>	<b>7180</b>	<b>7690</b>	<b>9430</b>	<b>10,090</b>
GOLF COURSES	4335	4335	4335	4335
SAND & GRAVEL	255	275	300	300
Indiv. Homeowner Wells	330	400	480	560
<u>POTENTIAL MAJOR USERS</u>				
State Trust Land Use			135	300
FICO Residential Development			335	990
ROSEMONT MINE			6000	6000
<b>TOTAL USAGE</b>	<b>68,720</b>	<b>69,575</b>	<b>73,390</b>	<b>71,950</b>
<b>TOTAL RECHARGE</b>	<b>32,620</b>	<b>32,980</b>	<b>38,985</b>	<b>38,905</b>
<b>OVERDRAFT</b>	<b>36,100</b>	<b>36,595</b>	<b>34,405</b>	<b>33,045</b>
Notes: All numbers are in acre feet per year.				
*Asarco is taking approximately 8,000 - 9,000 af/y of CAP water directly.				
TOTAL RECHARGE projections do not include potential additional recharge or GSF use.				

# *Bureau of Reclamation & USC/PUG Study*

- Contracted by USC/PUG in Sept. 2011
- Appraisal Study
- Shared Cost between USC/PUG and USBR
- Develops List of Project Alternatives
- Evaluates Alternatives
- Develop short list for further study, design, engineering, and permitting

# *USBR & USC/PUG Study*

## Evaluation Areas

- Effectiveness
- Implementability
- Cost ( Capital and O&M )

# *USBR & USC/PUG Study*

## Project Scope of Work

- Determine CAP water availability and other possible sources of additional water
- Identify possible entities to recharge water
- Identify and evaluate possible recharge and recovery sites
- Evaluate impact of using CAP water in-lieu of aquifer water for mining and agriculture

# *USBR & USC/PUG Study*

## Project Scope of Work (cont.)

- Identify and evaluate the use of CAP water in conservation and environmental projects
- Evaluate viability of recharging directly into Santa Cruz River
- Determine pipeline alternatives to Canoa Ranch area from privately owned pipelines

# *USBR & USC/PUG Study*

## Status

- Most of the data has been provided
- USBR has been assimilating the data and evaluating the data content
- Had initial meeting to discuss report format
- Working on a time-table for draft report available by December, 2013.



# **Central Arizona Project & Colorado River Water Availability**

Presented By Mitch Basefsky, CAP Communications



# Central Arizona Project and Sustainability in Southern Arizona

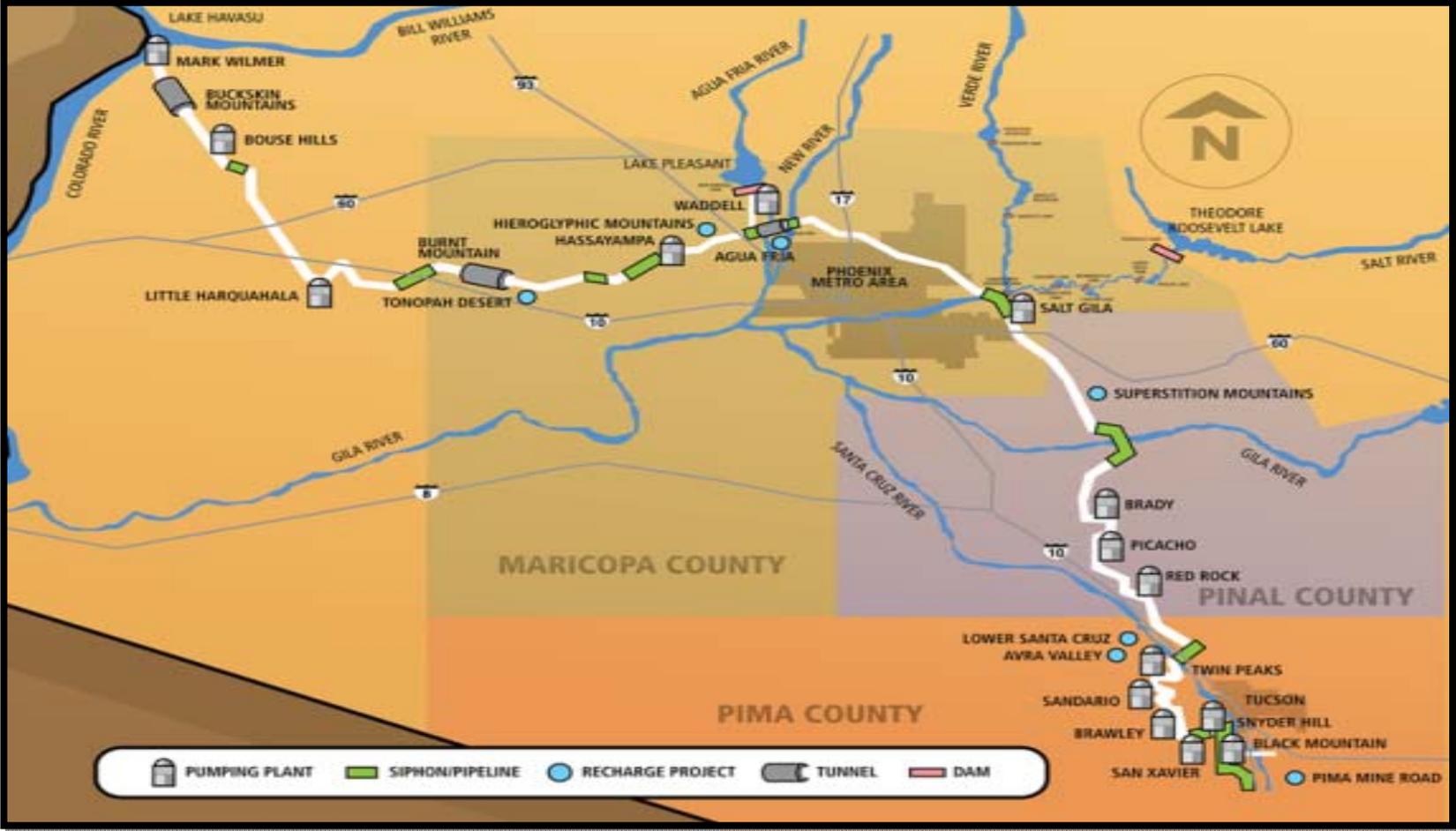
Green Valley Council  
*State of the Upper  
Santa Cruz Aquifer*  
February 7, 2013

Mitch Basefsky  
CAP Communications  
Southern Arizona



YOUR WATER. YOUR FUTURE.

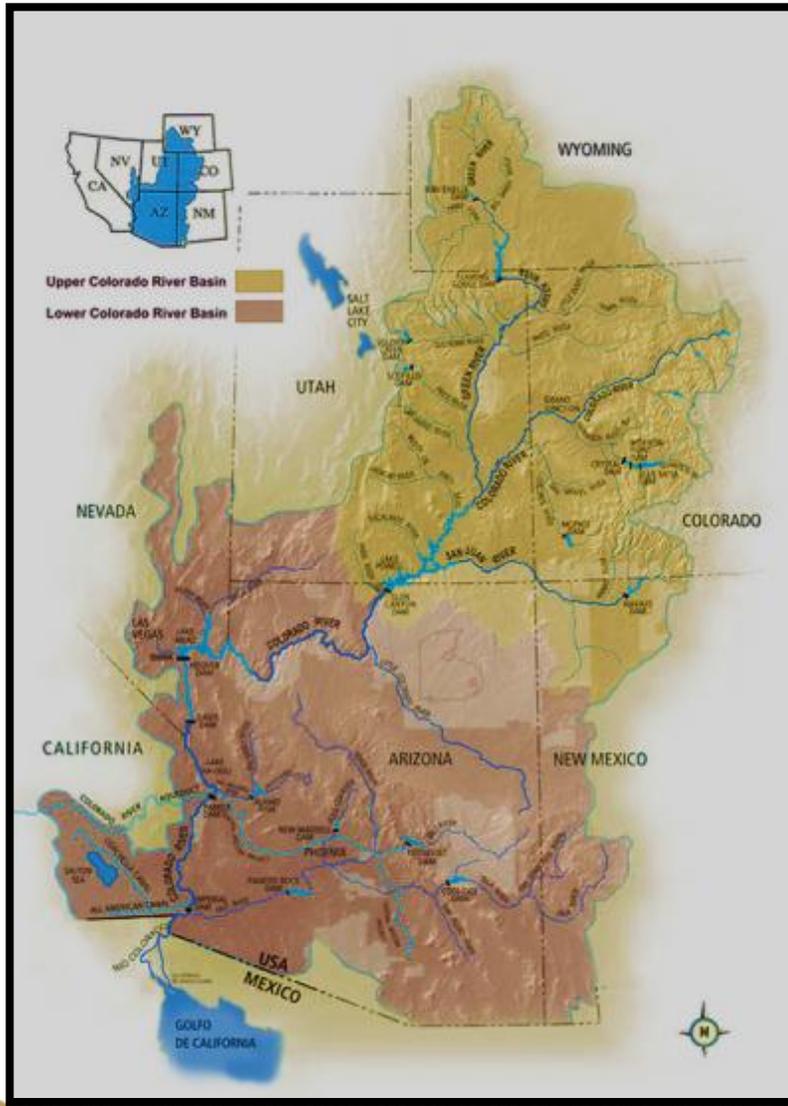
# What is the Central Arizona Project?



Conceived and built to allow Arizona to use its full 2.8 million acre-foot annual allotment



# The Colorado River



## Seven Basin States & Mexico Annual Allocations

Upper Basin – 7.5 maf  
Colorado, Wyoming,  
Utah, New Mexico

Lower Basin – 7.5 maf  
Arizona, California,  
Nevada

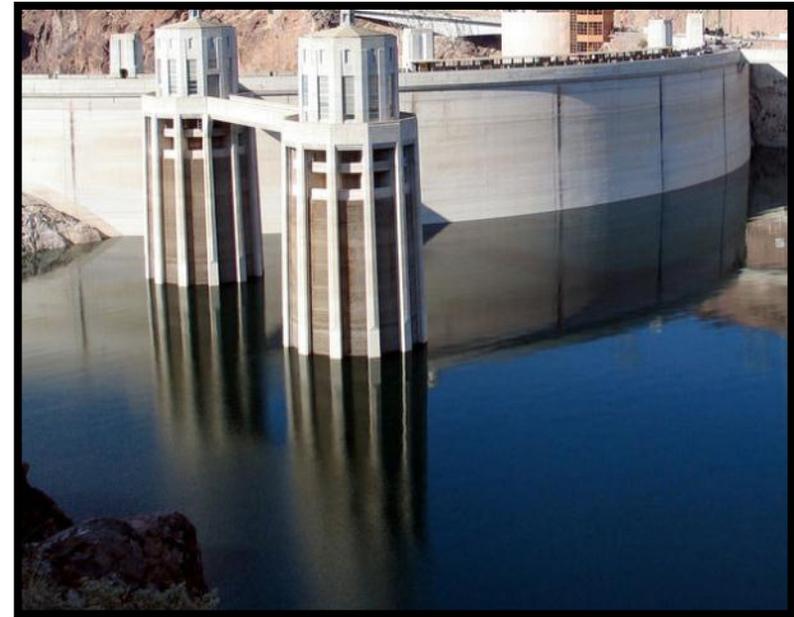
Mexico – 1.5 maf

**Avg Annual Flow - 15 maf  
(1906 – 2007)**

# What is the Status of the Colorado River?



April 1999

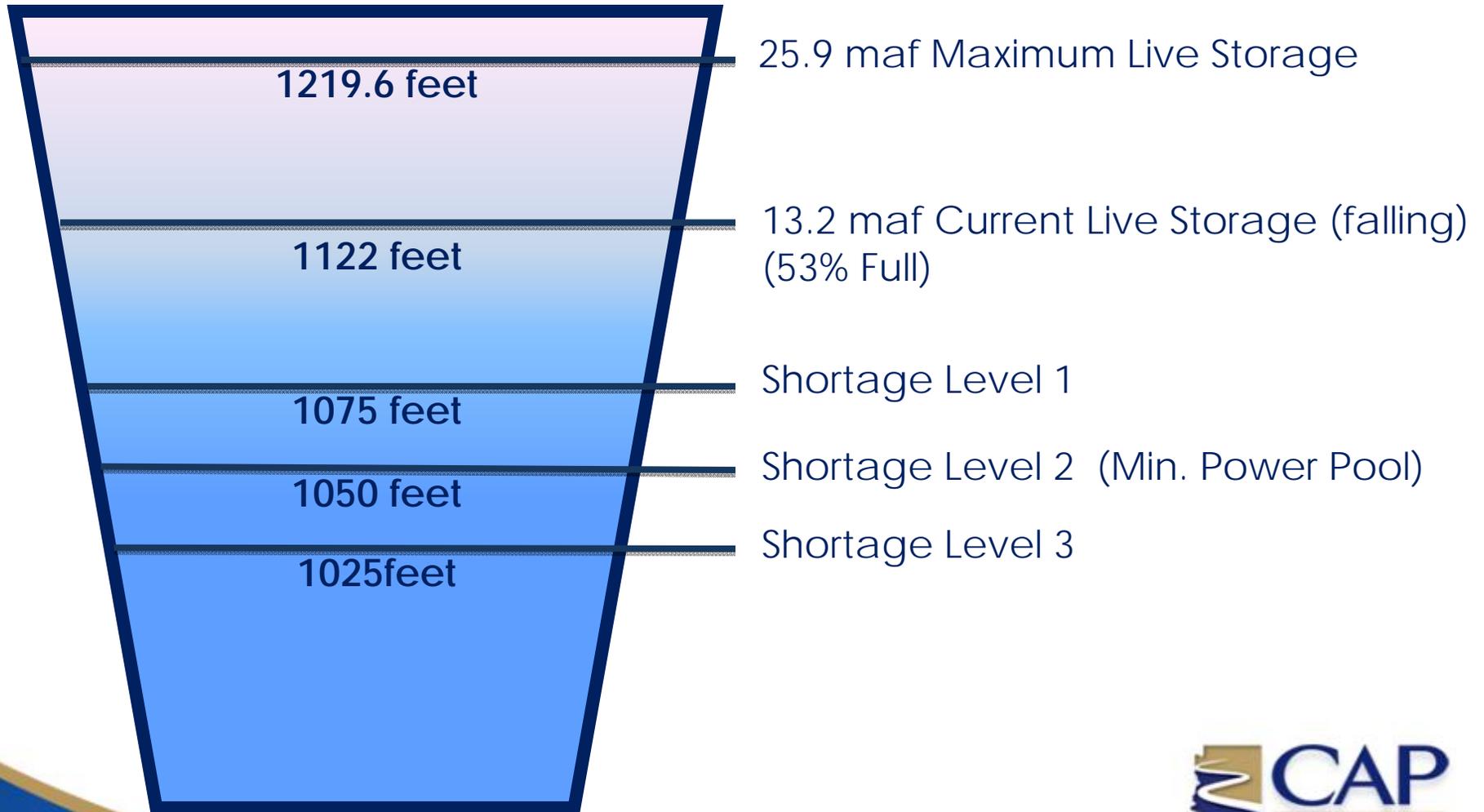


January 2013\*

**We had a reprieve in 2010 with from falling water levels in Lake Mead thanks to high snowfall in the watershed**

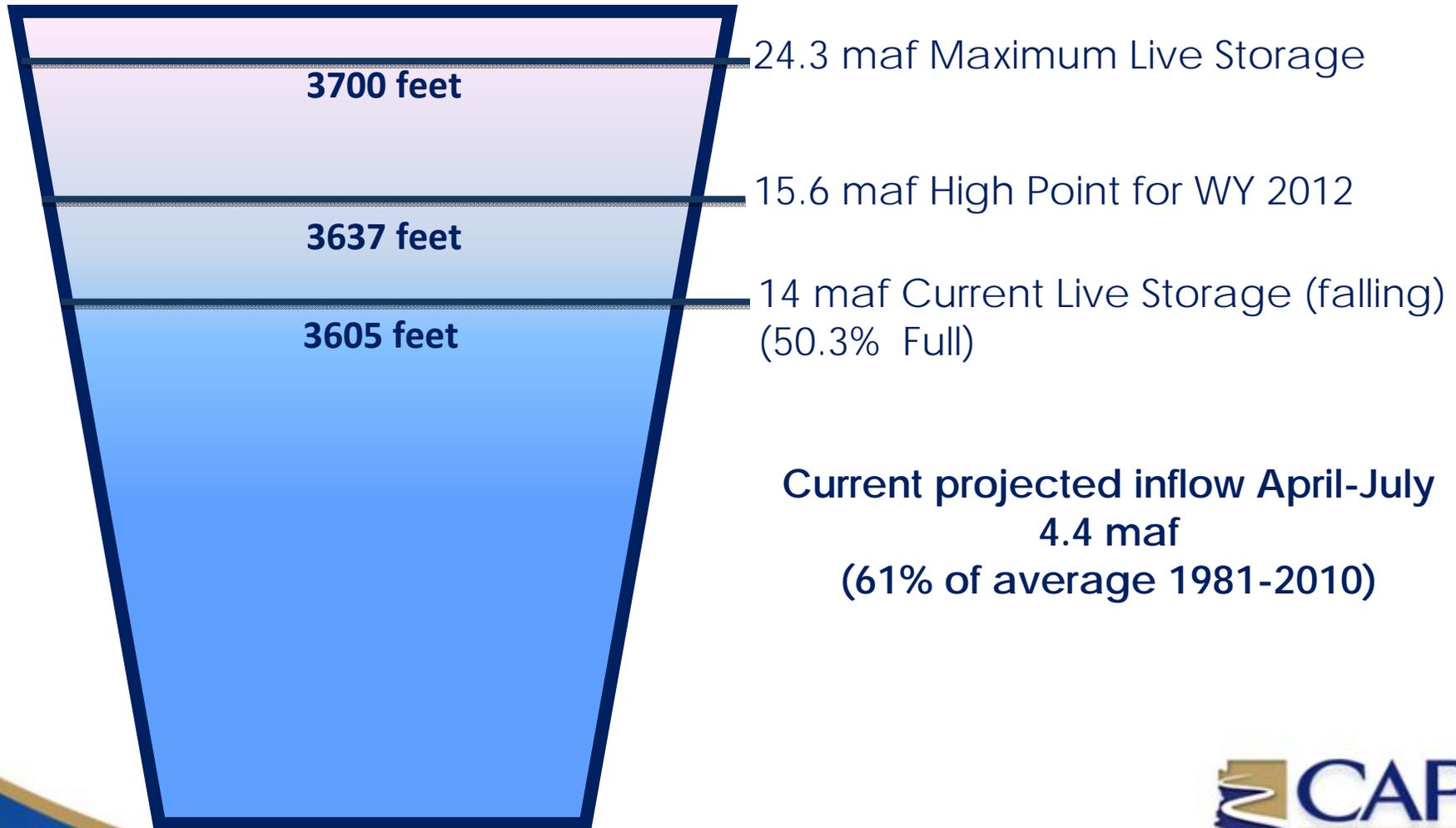
# What is the Status of the Colorado River?

## Lake Mead Capacity and Current Conditions

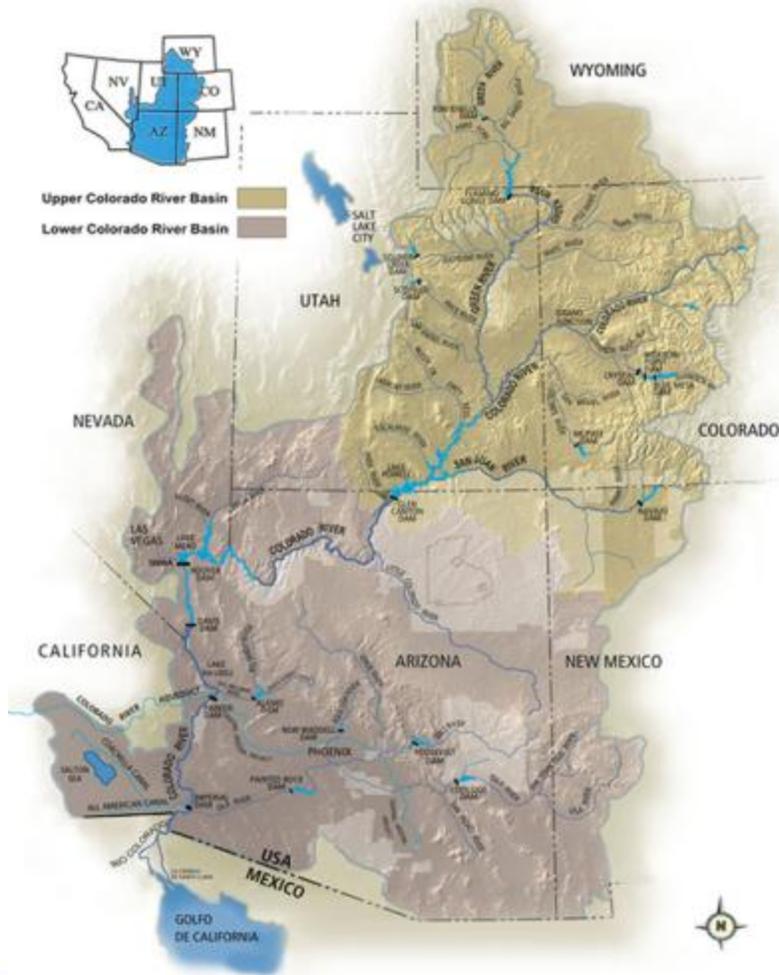


# What is the Status of the Colorado River?

## Lake Powell Capacity and Current Conditions



# Colorado River Basin Water Supply and Demand Study



Conducted by the Bureau of Reclamation's Upper Colorado and Lower Colorado Regions

Began in January 2010

Released December 2012

Defines current and future imbalances in water supply and demand over the next 50 years

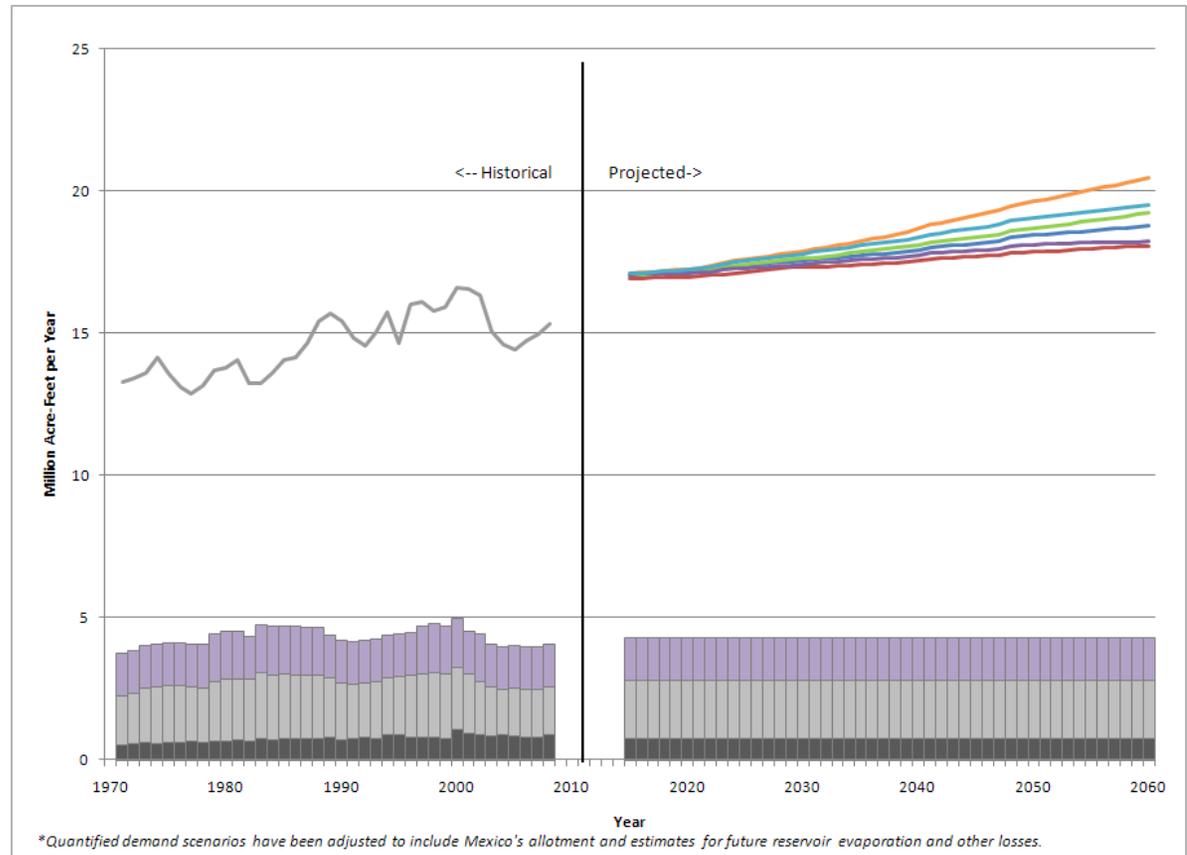
Examines several demand scenarios

Develops and analyzes adaptation and mitigation strategies to 'fill the gap'

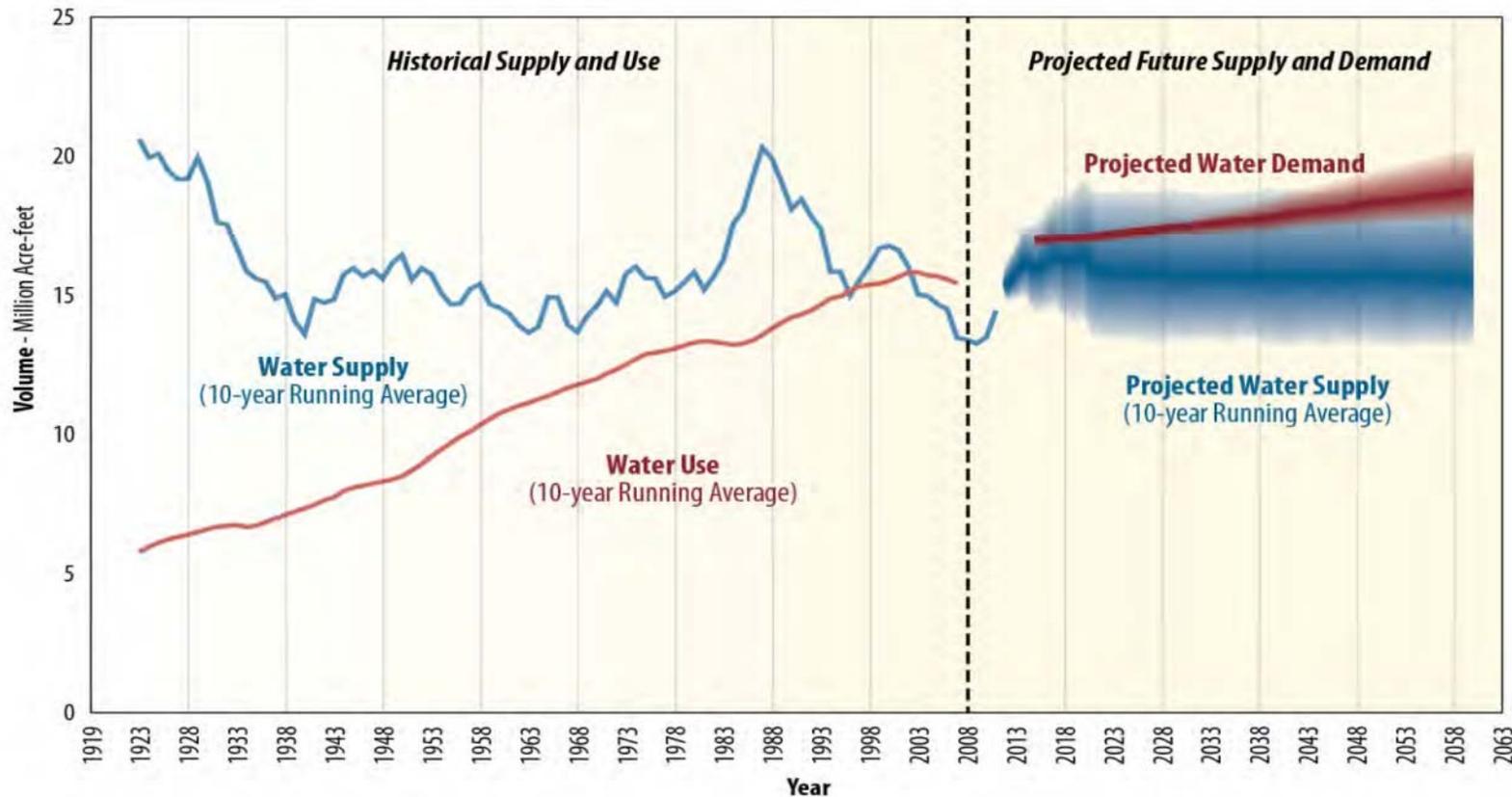
# Colorado River Basin Water Supply and Demand Study

Projected annual demands range from 13.8 and 16.2 maf by 2060

Approximately a 20% spread between the Slow Growth and Rapid Growth demand scenarios



# Colorado River Basin Water Supply and Demand Study



Average annual supply-demand imbalances by 2060 are approximately 3.5 million acre-feet (depending on the supply and demand scenario)

# Options to Increase Water Supplies

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## Importation

- River imports to Front Range
- River imports to Green River
- Ocean imports to southern CA

## Desalination

- Pacific Ocean
- Gulf of California
- Brackish groundwater
- Yuma area
- Salton Sea drain water

## Reuse

- Municipal wastewater
- Gray water recycling
- Industrial wastewater recycling

## Local Supply

- Coal bed methane water
- Non-tributary groundwater
- Rainwater harvesting

## Watershed Management

- Brush management
- Forest management
- Dust mitigation
- Tamarisk control
- Weather modification

# Options to Decrease Water Demand

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## **M&I Conservation**

- Indoor residential
- Outdoor residential
- Commercial, industrial, & institutional
- Parks and golf courses

## **Agricultural Water Conservation**

- Conveyance system efficiency
- On-farm irrigation efficiency
- Improved irrigation management
- Controlled environment agriculture
- Reductions in consumptive use

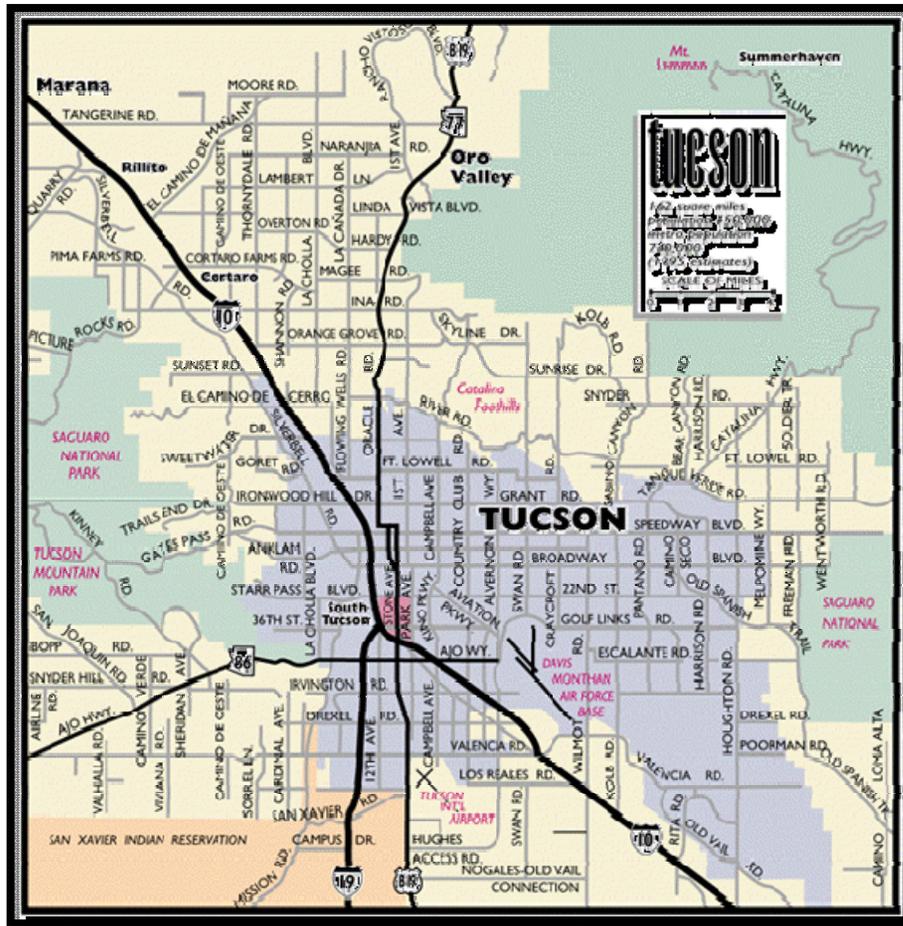
## **Energy Water Use Efficiency**

- Demand management at thermoelectric power plants

## **System Evaporation Reduction**

- Covers for canals and lakes
- System reoperation for preferential storage

# How Does the Tucson Region Use CAP Water?



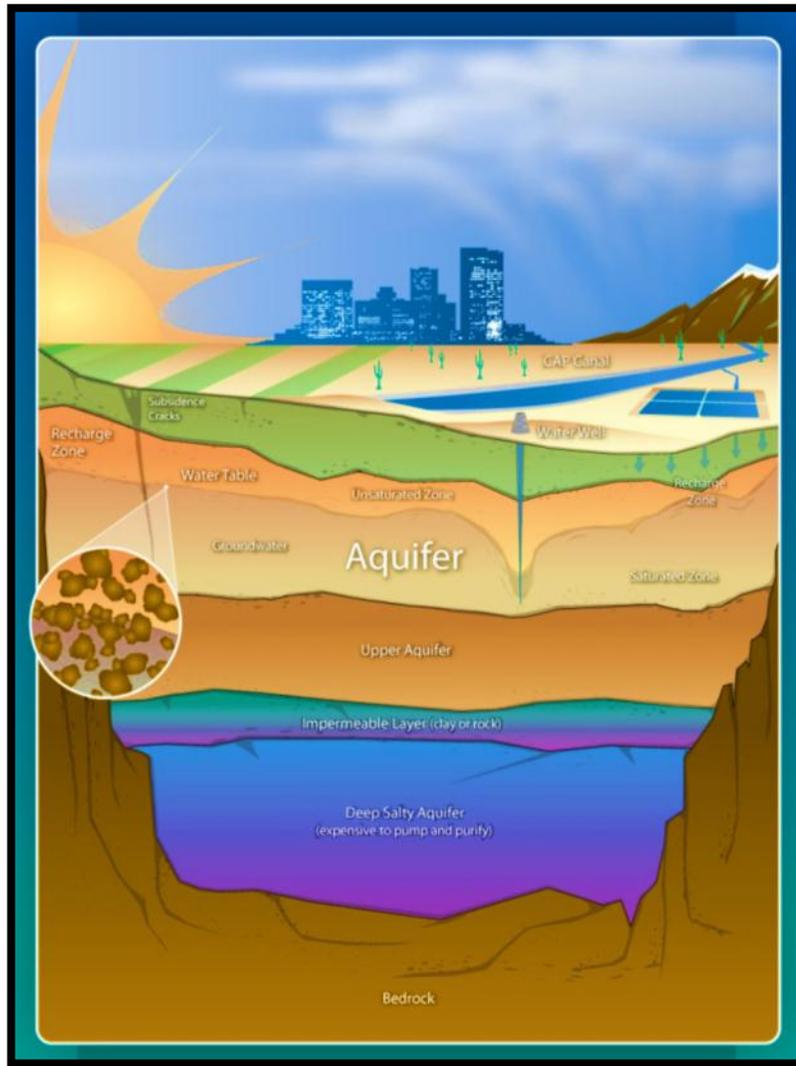
59 billion gallons of water

- 10 Water Providers
- Both Public and Private Water Companies

Recharge and Recovery

- Tucson's projects
- Rise in Groundwater
- Oro Valley/Tucson deal
- Others Using Recharge

# What is Direct Recharge?



## How Direct Recharge Works

- Basins built close to canal
- Ground must allow water to sink quickly
- Primarily sand and gravel
- Water fills empty spaces above the water table
- Water remains for future use or is recovered as a blend with groundwater

# What are Groundwater Savings Facilities?

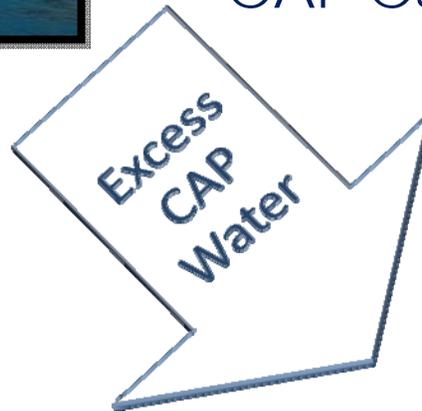
A way to store excess Colorado River water in Arizona



Use of CAP water in lieu of groundwater preserves that resource for the future

“Saved” groundwater is often stored on behalf of entities without direct access to the CAP Canal

In some areas, groundwater levels have risen by 50-100'



# Recharge in the Tucson Region

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Since 1996...

CAP's Direct Recharge Facilities in the Tucson TAMA have stored 769,000 af

Groundwater Savings Facilities in the Tucson AMA have stored 362,000 af

Recharge through the CAGRDR allows entities with no direct connection to the canal to meet ADWR Assured Water Supply rules



# The Central Arizona Groundwater Replenishment District

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## A Replenishment Contractor

Landowners and water providers within the Phoenix, Pinal and Tucson Active Management Areas rely on CAGRD to replace (replenish) groundwater used within their subdivision or service area



*Pima Mine Road Recharge Project*

# How Does Replenishment Occur?



Water Provider Annual Water Use Reports form the basis of the CAGRDR obligation

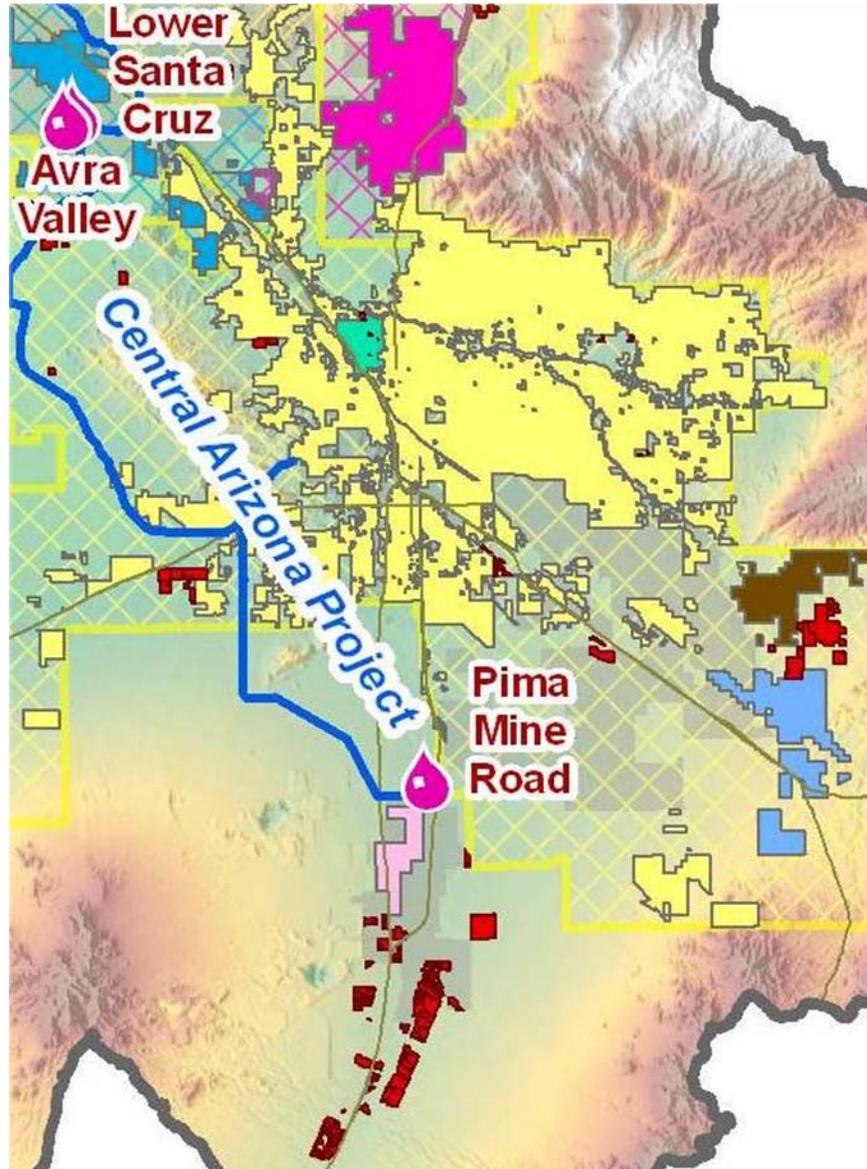
Replenishment within the Active Management Area where pumping occurred

Obligations must be fulfilled within 3 years



Replenishment through direct recharge or groundwater savings projects

# Tucson Active Management Area



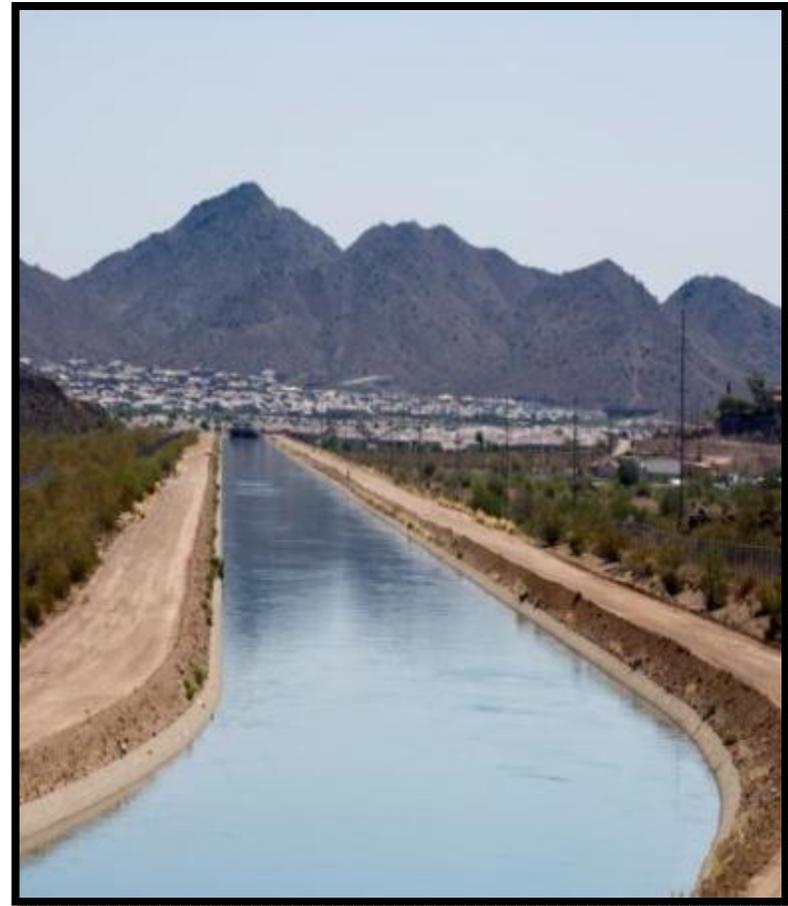
# CAP Brings Many Benefits to Southern Arizona

**Groundwater levels are rising where  
pumping has been reduced  
50 to 100' in some areas**

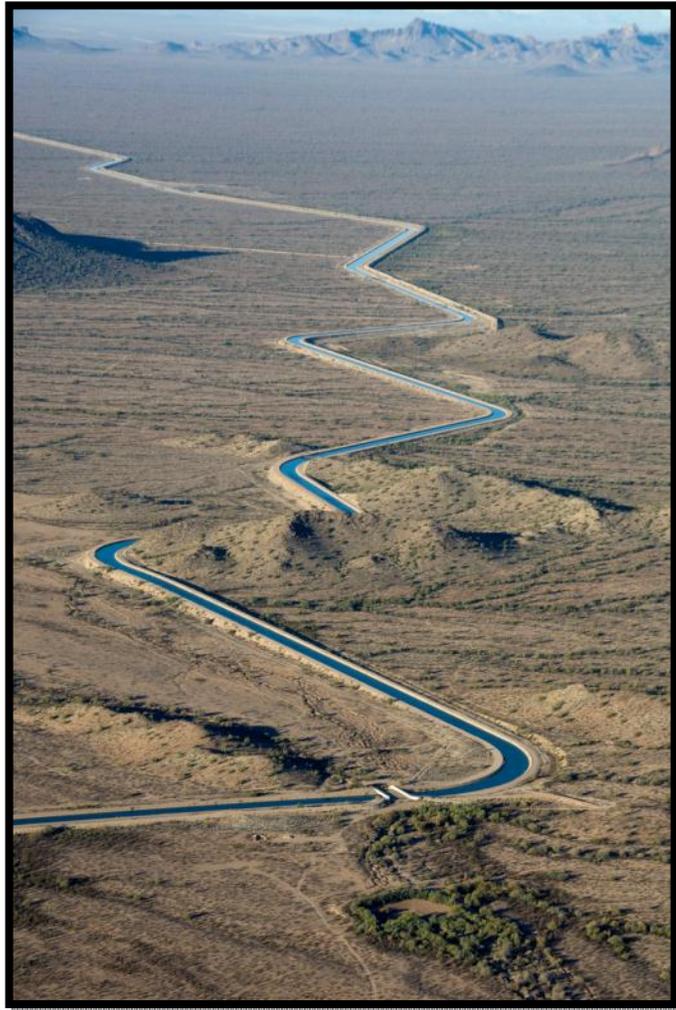
**Additional CAP is stored locally  
against future shortfalls**  
A critical supply if the Colorado  
River goes into shortage

**Our region is closer to 'Safe Yield'  
and long-term water balance**  
CAP is the largest renewable  
water supply in the region

**CAP represents all of its customers in  
Colorado River Basin issues**  
A strong voice for protecting future  
water supplies for Southern AZ



# CAP is Responding to Many Challenges



**Power to Deliver Water**  
Navajo Generating Station

**Shortage on the Colorado River**  
Sharing the pain with the other Basin States and Mexico

**Augmentation**  
How can we add to the flow of the Colorado?

**Paying for New Water Supplies**  
ADD Water – Acquire, Develop and Deliver new supplies

**Stewardship of the River**  
Sustainable Use and Environmental Sensitivity



# **New Sustainable, Community Water CAP Pipeline & Local Recharge**

Presented By Mr. Virgil Davis, Community Water



# GVC—State of the USC Aquifer

## BRINGING RENEWABLE WATER TO GREEN VALLEY AND SAHUARITA

*Project Renews Ribbon Cutting Ceremony  
September 7, 2012*



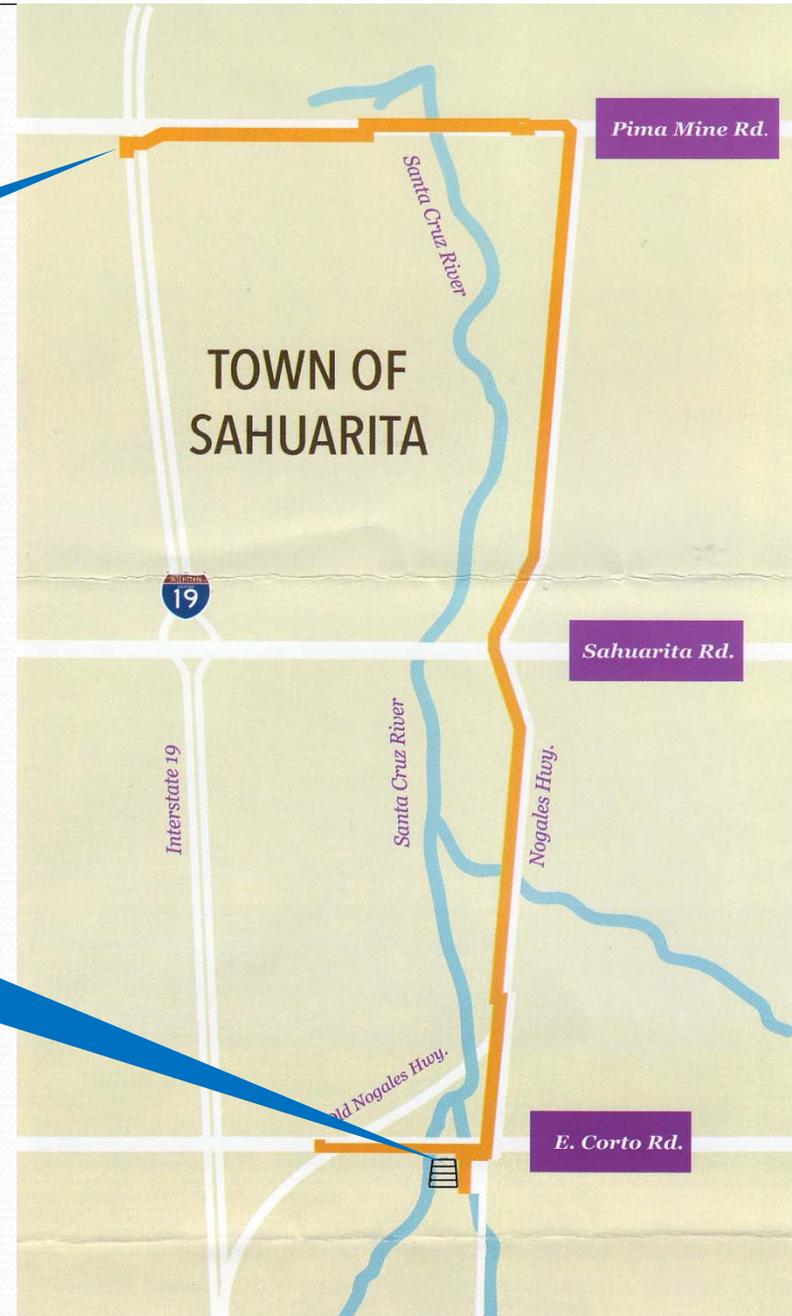
by Community Water Company of Green Valley  
*February 07, 2013*



# System Design

Cap Pima Mine Road Terminus

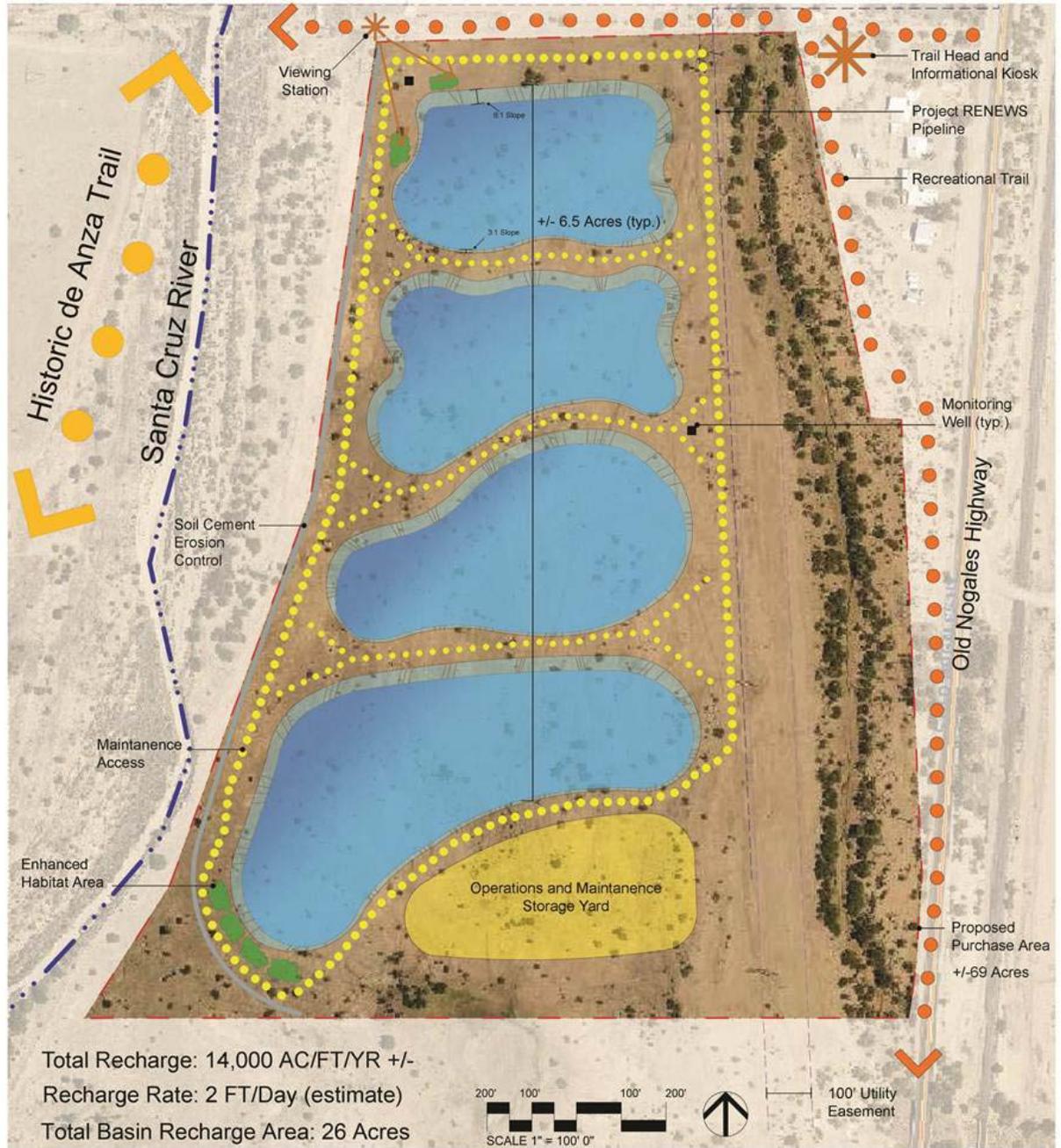
Recharge Basins



# Pipeline Construction Starts



# Basin Design



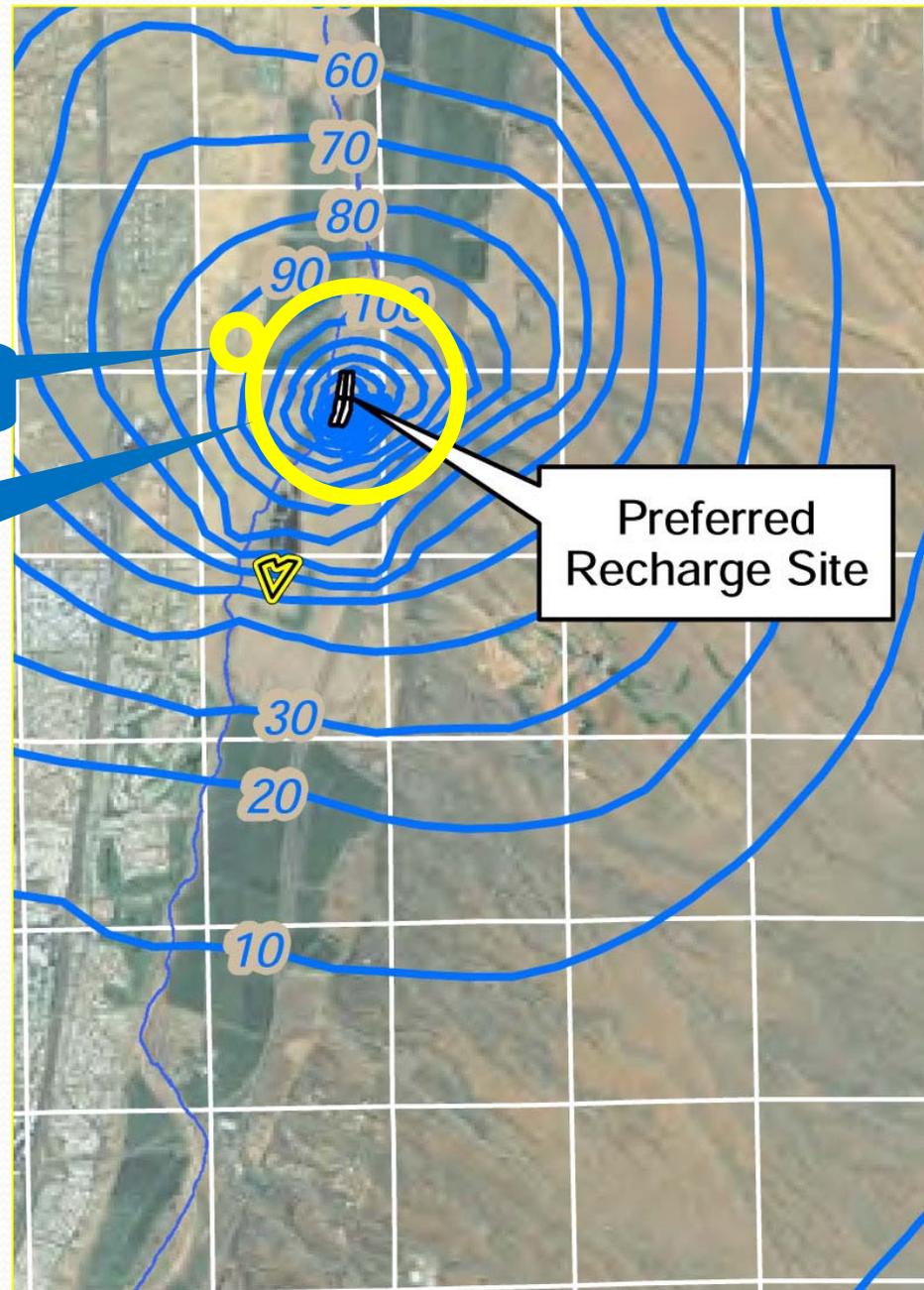
# Sonoran Desert Conservation—Bird Habitat



# Benefit—Substantial Increase in Aquifer Level

Walmart

20 Year Increase of 100 feet or more



# New Sustainable FICO CAP Pipeline & Ground Savings Facility

Presented by Dick & Nan Walden, FICO



# FICO's Regional Approach: Bringing CAP Water to the Upper Santa Cruz Valley



# Overview

- ❖ Who we are
- ❖ What are we doing to improve our aquifer
- ❖ Key questions to evaluate approaches



# Upper Santa Cruz Valley A Rich Agricultural Heritage

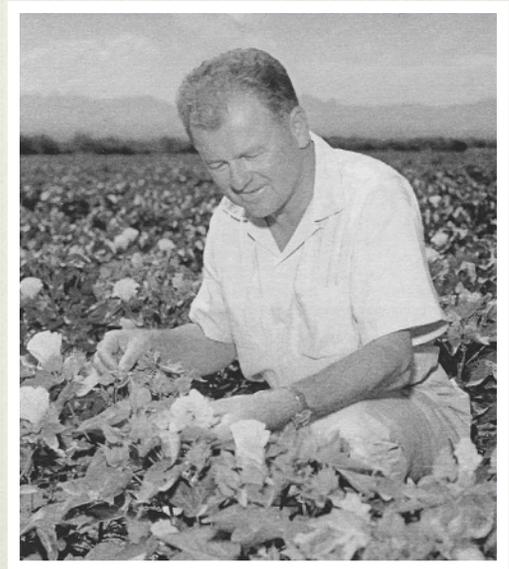


<http://www.foodmuseum.com/>



# FICO

- ❖ 1937: Keith Walden founded FICO
- ❖ 1948: Purchased Continental Farm
- ❖ Started with cotton, alfalfa, corn, wheat, and barley.
- ❖ 20,000 head cattle feedlot
- ❖ 1965-1969: 240,000 pecan trees on 5,000 acres



# FICO's Regional Operations Today

- ❖ Continental and Sahuarita
  - ❖ 7,000 acres, 4,500 in production
  - ❖ State-of-the-art processing facility



# FICO and Water

- ❖ Subject to 1980 Groundwater Act
- ❖ Net use = ~19,000 ac/ft
  - ❖ (25,000 to 26,000 ac/ft + 25% natural recharge)
- ❖ Water Conservation Technology
  - ❖ Laser leveling, micro-sprinklers
- ❖ Participation in the USC-PUG
- ❖ Groundwater Savings Facility (GSF) and CAP Pipeline



# Central Arizona Project



# CAP

- ❖ A 336-mile aqueduct to deliver Arizona's share of Colorado River water.
- ❖ Purpose includes replacing EXISTING groundwater pumping with renewable water supplies from the Colorado River.



# FICO's Two Pronged Approach for Improving Regional Aquifer Health

- ❖ Groundwater Savings Facility (GSF)
  - ❖ 2001 – FICO receives GSF permit;
  - ❖ The FICO GSF uses CAP water on farm and keeps groundwater, our best quality drinking water, in the ground;
  - ❖ Potential community partners include:
    - ❖ Central Arizona Groundwater Replenishment District (CAGRDR)  
City of Tucson, Arizona Water Bank, Arizona State Land Department, Freeport-McMoRan, and any other Tucson Active Management Area CAP subcontractors.

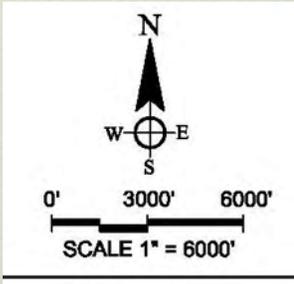
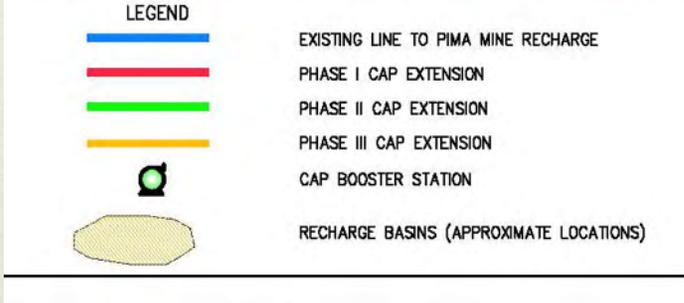


# FICO's Two Pronged Approach for Improving Regional Aquifer Health

- ❖ FICO Regional Pipeline
  - ❖ Delivers CAP water to the FICO GSF;
  - ❖ Approximately 3 ½ miles of 36" pipe;
  - ❖ Privately funded by FICO.

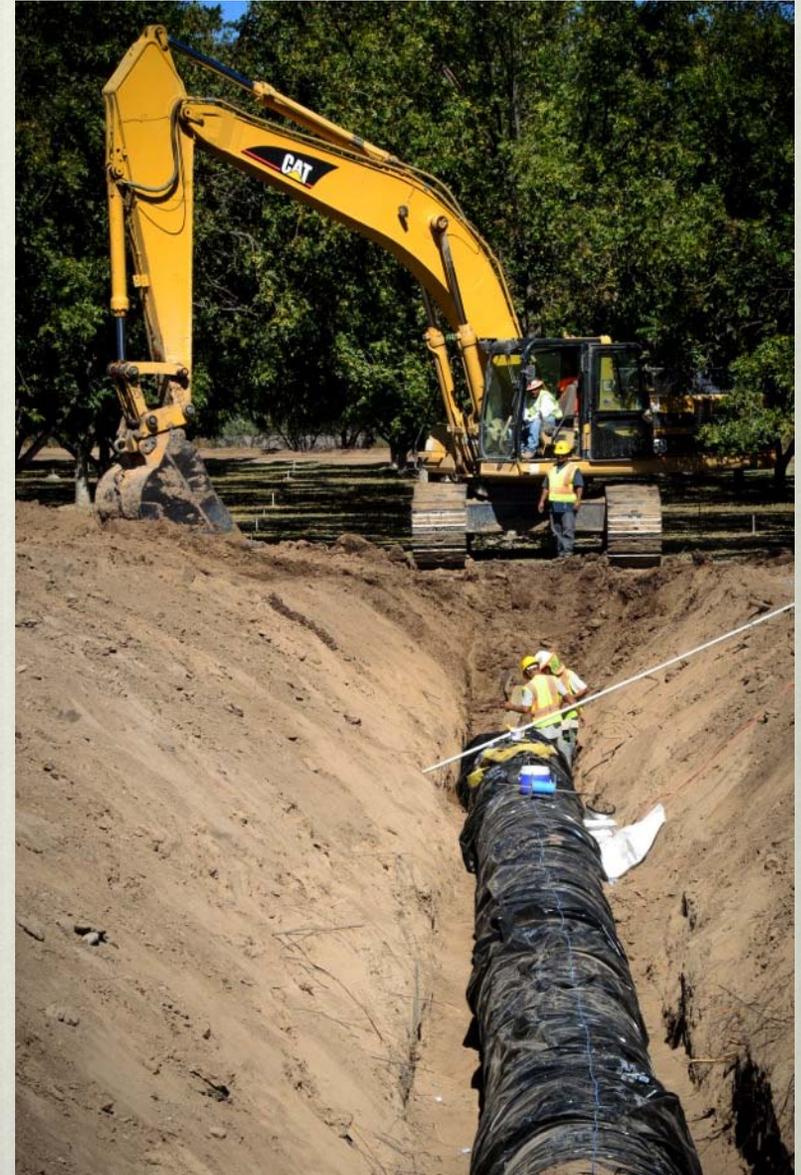


# Preliminary CAP Water Delivery System



# FICO regional pipeline status

- ❖ Pipe already installed at the New Nogales Highway crossing;
- ❖ Approval granted by UPRR and ASARCO to bore under the railroad spur;
- ❖ Engineering at 100% pending final CAP engineering review.
- ❖ Awaiting City of Tucson approval to connect at the FICO “T” on the Pima Mine Road Pipeline.



# FICO's Two Pronged Approach for Improving Regional Aquifer Health

## ❖ Benefits:

- ❖ Improves the health of our regional aquifer by addressing *existing* groundwater overdraft;
- ❖ Gallon for gallon reduction of groundwater pumping by using CAP water in lieu of groundwater;
- ❖ Leaves our highest-quality groundwater in place for future use as drinking water.



# Key Questions

❖ Does approach address existing groundwater pumping?



# Key Questions

❖ **Does approach bring net new water to region?**



# Key Questions

- ❖ **Does it provide immediate benefit to regional ratepayers and taxpayers?**



# Key Questions

- ❖ **Other potential customers/beneficiaries that can create storage credits?**



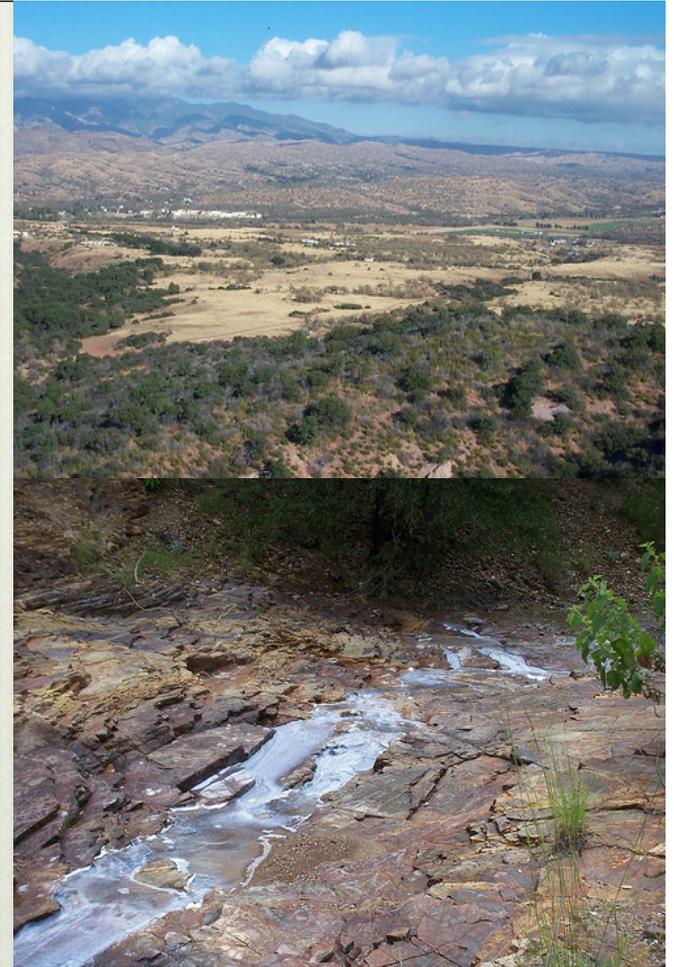
# Key Questions

❖ **Credibility and Track Record  
To Complete Project and Keep  
Promises?**



# Conclusion

- ❖ FICO approach improves the health of aquifer;
- ❖ Addresses existing groundwater pumping/overdraft;
- ❖ Community solution in which all parties can participate;
- ❖ Ready to go: GSF approved and regional pipeline funding in place; and
- ❖ FICO has a strong record of stewardship in the Upper Santa Cruz Valley.



Concludes The Formal  
Presentations

Will Open To Q&A

GVC



To: All Annual Operating Plan Recipients

From: Lower Colorado Region  
Boulder Canyon Operations Office  
River Operations Group  
Daniel Bunk  
P.O. Box 61470  
Boulder City, NV 89006-1470  
Phone: 702-293-8013



The operation of Lake Powell and Lake Mead in this October 2014 24-Month Study is pursuant to the December 2007 Record of Decision on Colorado River Interim Guidelines for Lower Basin Shortages and the Coordinated Operations of Lake Powell and Lake Mead (Interim Guidelines), and reflects the 2014 Annual Operating Plan (AOP) and the draft 2015 AOP. Pursuant to the Interim Guidelines, the August 2014 24-Month Study projections of the January 1, 2015, system storage and reservoir water surface elevations set the operational tier for the coordinated operation of Lake Powell and Lake Mead during 2015.

Consistent with Section 6.B of the Interim Guidelines, the Lake Powell operational tier for water year 2015 is the Upper Elevation Balancing Tier, with an initial water year release volume of 8.23 maf and the potential for an April adjustment to equalization or balancing releases in April 2015. This October 2014 24-Month Study projects that, consistent with Section 6.B.4 of the Interim Guidelines, an April adjustment to balancing releases is likely to occur and Lake Powell is currently projected to release 9.0 maf in water year 2015.

Consistent with Section 2.B.5 of the Interim Guidelines, the Intentionally Created Surplus (ICS) Surplus Condition is the criterion governing the operation of Lake Mead for calendar years 2014 and 2015.

The tier determinations will be documented in the 2015 AOP, which is currently in the final stages of development.

The Interim Guidelines are available for download at: <http://www.usbr.gov/lc/region/programs/strategies/RecordofDecision.pdf>.

The 2014 AOP is available for download at: <http://www.usbr.gov/lc/region/q4000/aop/AOP14.pdf>.

The draft 2015 AOP is available for download at [http://www.usbr.gov/uc/water/rsrvs/ops/aop/AOP15\\_draft.pdf](http://www.usbr.gov/uc/water/rsrvs/ops/aop/AOP15_draft.pdf).

Current runoff projections into Lake Powell are provided by the National Weather Service's Colorado Basin River Forecast Center and are as follows: Observed unregulated inflow into Lake Powell for the month of September was 0.511 maf or 125 percent of the 30-year average from 1981 to 2010. The forecast for October unregulated inflow into Lake Powell is 0.750 maf or 146 percent of the 30-year average. The observed 2014 April through July unregulated inflow is 6.92 maf or 97 percent of average.

In this study, the calendar year 2014 diversion for Metropolitan Water District of Southern California (MWD) is projected to be 1.170 maf. The calendar year 2014 diversion for the Central Arizona Project (CAP) is projected to be 1.617 maf. Consumptive use for Nevada above Hoover (SNWP Use) is projected to be 0.228 maf for calendar year 2014.

Due to changing Lake Mead elevations, Hoover's generator capacity is adjusted based on estimated effective capacity and plant availability. The estimated effective capacity is based on projected Lake Mead elevations. Unit capacity tests will be performed as the lake elevation changes. This study reflects these changes in the projections.

Hoover, Davis, and Parker historical gross energy figures come from PO&M reports provided by the Lower Colorado Region's Power Management Office, Bureau of Reclamation, Boulder City, Nevada. Questions regarding these historical energy numbers can be directed to Larry Karr at (702) 293-8094.

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Fontenelle Reservoir



	Date	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2013	53	1	19	24	43	6492.11	241
H	Nov 2013	41	1	51	4	55	6489.91	226
I	Dec 2013	30	1	61	0	61	6485.02	195
S	Jan 2014	29	1	61	0	61	6479.35	163
T	Feb 2014	29	0	55	0	55	6474.06	136
O	Mar 2014	56	0	71	0	71	6470.70	121
R	Apr 2014	101	1	83	1	84	6474.33	138
I	May 2014	272	1	96	126	222	6483.58	186
C	Jun 2014	427	2	104	254	364	6492.90	247
A	Jul 2014	220	3	90	1	117	6506.25	347
L	Aug 2014	98	2	100	1	108	6504.71	335
*	Sep 2014	69	2	21	66	87	6502.07	314
<b>WY 2014</b>		<b>1424</b>	<b>15</b>	<b>811</b>	<b>478</b>	<b>1328</b>		
	Oct 2014	85	1	95	0	95	6500.60	303
	Nov 2014	60	1	77	0	77	6498.18	285
	Dec 2014	40	1	80	0	80	6492.48	245
	Jan 2015	38	1	80	0	80	6486.00	202
	Feb 2015	35	1	72	0	72	6479.56	164
	Mar 2015	55	0	98	10	108	6468.11	111
	Apr 2015	87	1	90	14	104	6463.55	94
	May 2015	175	1	96	11	108	6478.70	160
	Jun 2015	325	2	101	119	220	6495.04	263
	Jul 2015	195	3	104	19	123	6504.29	332
	Aug 2015	73	2	92	0	92	6501.53	311
	Sep 2015	42	2	37	31	68	6497.89	283
<b>WY 2015</b>		<b>1210</b>	<b>15</b>	<b>1022</b>	<b>204</b>	<b>1227</b>		
	Oct 2015	46	1	70	0	70	6494.41	258
	Nov 2015	41	1	68	0	68	6490.43	231
	Dec 2015	32	1	70	0	70	6484.44	192
	Jan 2016	30	1	70	0	70	6477.21	152
	Feb 2016	28	0	63	0	63	6469.39	117
	Mar 2016	53	0	70	0	70	6464.99	99
	Apr 2016	85	1	77	0	77	6467.01	107
	May 2016	164	1	97	6	104	6479.81	166
	Jun 2016	299	2	101	106	207	6494.12	256
	Jul 2016	178	3	96	0	96	6504.62	335
	Aug 2016	77	2	92	0	92	6502.32	317
	Sep 2016	46	2	73	0	73	6498.46	287
<b>WY 2016</b>		<b>1078</b>	<b>14</b>	<b>947</b>	<b>112</b>	<b>1059</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Flaming Gorge Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Reg Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Jensen Flow (1000 Ac-Ft)
*	Oct 2013	68	58	6	51	0	51	113	6015.35	2819	108
H	Nov 2013	41	55	3	48	0	48	114	6015.47	2823	92
I	Dec 2013	32	62	2	49	0	49	114	6015.79	2834	66
S	Jan 2014	33	65	2	49	0	49	115	6016.19	2847	77
T	Feb 2014	46	71	2	45	0	45	116	6016.89	2871	88
O	Mar 2014	86	100	3	49	1	50	117	6018.21	2917	123
R	Apr 2014	128	111	5	50	0	50	120	6019.75	2971	306
I	May 2014	333	283	8	53	0	53	128	6025.67	3185	594
C	Jun 2014	472	409	10	208	85	293	132	6028.39	3287	775
A	Jul 2014	226	123	13	105	0	105	132	6028.51	3292	208
L	Aug 2014	126	136	13	122	0	122	132	6028.53	3293	190
*	Sep 2014	99	118	11	116	0	116	132	6028.31	3284	170
<b>WY 2014</b>		<b>1689</b>	<b>1594</b>	<b>77</b>	<b>945</b>	<b>86</b>	<b>1032</b>				<b>2799</b>
	Oct 2014	105	115	7	92	0	92	133	6028.72	3300	92
	Nov 2014	72	89	3	84	0	84	133	6028.77	3302	84
	Dec 2014	48	88	2	123	0	123	131	6027.84	3267	123
	Jan 2015	48	90	2	123	0	123	130	6026.96	3233	123
	Feb 2015	50	87	2	111	0	111	129	6026.29	3208	111
	Mar 2015	110	163	3	154	0	154	129	6026.44	3214	154
	Apr 2015	145	162	5	149	0	149	130	6026.66	3222	149
	May 2015	270	203	8	182	0	182	130	6026.98	3234	182
	Jun 2015	390	285	10	228	0	228	132	6028.17	3279	228
	Jul 2015	220	148	14	94	0	94	133	6029.19	3318	94
	Aug 2015	82	101	13	94	0	94	133	6029.06	3313	94
	Sep 2015	50	76	11	91	0	91	132	6028.40	3288	91
<b>WY 2015</b>		<b>1590</b>	<b>1607</b>	<b>80</b>	<b>1524</b>	<b>0</b>	<b>1524</b>				<b>1524</b>
	Oct 2015	55	79	7	94	0	94	131	6027.85	3267	94
	Nov 2015	50	76	3	91	0	91	131	6027.39	3249	91
	Dec 2015	35	73	2	94	0	94	130	6026.80	3227	94
	Jan 2016	40	80	2	94	0	94	129	6026.40	3212	94
	Feb 2016	45	80	2	88	0	88	129	6026.14	3203	88
	Mar 2016	102	120	3	94	0	94	130	6026.73	3225	94
	Apr 2016	134	125	5	109	0	109	130	6027.03	3236	109
	May 2016	245	185	8	190	0	190	130	6026.70	3223	190
	Jun 2016	390	297	10	107	0	107	137	6031.22	3396	107
	Jul 2016	210	129	14	111	0	111	137	6031.33	3401	111
	Aug 2016	89	104	13	111	0	111	136	6030.85	3382	111
	Sep 2016	55	83	11	107	0	107	135	6029.96	3347	107
<b>WY 2016</b>		<b>1449</b>	<b>1431</b>	<b>80</b>	<b>1288</b>	<b>0</b>	<b>1288</b>				<b>1288</b>

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Taylor Park Reservoir



	Regulated Inflow (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
Date				
* Oct 2013	7	6	9310.82	71
H Nov 2013	5	5	9310.99	71
I Dec 2013	5	5	9310.93	71
S Jan 2014	5	5	9310.93	71
T Feb 2014	4	4	9311.08	72
O Mar 2014	5	5	9310.72	71
R Apr 2014	12	13	9310.23	70
I May 2014	31	27	9312.59	74
C Jun 2014	49	28	9324.29	95
A Jul 2014	19	25	9320.83	88
L Aug 2014	12	19	9316.50	81
* Sep 2014	9	13	9314.21	77
<hr/>				
<b>WY 2014</b>	<b>161</b>	<b>154</b>		
<hr/>				
Oct 2014	8	10	9313.01	75
Nov 2014	6	6	9312.71	74
Dec 2014	5	6	9312.10	73
Jan 2015	5	6	9311.18	72
Feb 2015	4	6	9309.93	70
Mar 2015	4	6	9308.66	68
Apr 2015	7	6	9309.30	69
May 2015	27	16	9315.97	80
Jun 2015	42	22	9326.79	100
Jul 2015	15	22	9323.15	93
Aug 2015	9	20	9317.12	82
Sep 2015	7	16	9311.80	73
<hr/>				
<b>WY 2015</b>	<b>138</b>	<b>142</b>		
<hr/>				
Oct 2015	6	8	9310.84	71
Nov 2015	5	6	9310.22	70
Dec 2015	5	6	9309.39	69
Jan 2016	4	6	9308.34	67
Feb 2016	4	6	9306.90	65
Mar 2016	4	6	9305.87	64
Apr 2016	9	6	9307.69	66
May 2016	28	14	9316.41	81
Jun 2016	42	22	9327.04	100
Jul 2016	20	22	9326.09	98
Aug 2016	10	20	9320.97	89
Sep 2016	7	16	9316.14	80
<hr/>				
<b>WY 2016</b>	<b>145</b>	<b>138</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

### Most Probable Inflow\* Blue Mesa Reservoir



	Date	UnReg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2013	48	47	0	46	0	46	7456.34	349
H	Nov 2013	33	33	0	14	0	14	7459.38	367
I	Dec 2013	25	25	0	11	0	11	7461.56	381
S	Jan 2014	22	22	0	14	0	14	7462.81	389
T	Feb 2014	23	22	0	13	0	13	7464.31	398
O	Mar 2014	32	33	0	23	0	23	7465.76	408
R	Apr 2014	129	130	1	28	0	28	7480.43	509
I	May 2014	242	240	1	69	3	72	7501.73	676
C	Jun 2014	361	338	1	185	142	353	7499.76	659
A	Jul 2014	117	123	1	118	0	118	7500.15	663
L	Aug 2014	64	72	1	104	0	104	7496.00	629
*	Sep 2014	48	52	1	81	0	81	7492.28	599
<b>WY 2014</b>		<b>1145</b>	<b>1138</b>	<b>8</b>	<b>708</b>	<b>145</b>	<b>879</b>		
	Oct 2014	45	47	1	54	0	54	7491.32	592
	Nov 2014	35	36	0	25	0	25	7492.63	602
	Dec 2014	28	29	0	55	0	55	7489.28	576
	Jan 2015	26	28	0	68	0	68	7483.94	535
	Feb 2015	23	25	0	63	0	63	7478.75	497
	Mar 2015	35	37	0	47	0	47	7477.30	486
	Apr 2015	70	69	1	39	0	39	7481.34	516
	May 2015	210	199	1	105	0	105	7493.49	609
	Jun 2015	260	240	1	52	0	52	7515.61	795
	Jul 2015	95	102	2	93	0	93	7516.40	802
	Aug 2015	52	63	1	117	0	117	7510.17	747
	Sep 2015	38	47	1	110	0	110	7502.65	683
<b>WY 2015</b>		<b>917</b>	<b>921</b>	<b>9</b>	<b>828</b>	<b>0</b>	<b>828</b>		
	Oct 2015	38	40	1	60	0	60	7500.15	663
	Nov 2015	31	32	0	50	0	50	7497.93	644
	Dec 2015	26	27	0	90	0	90	7490.00	581
	Jan 2016	24	26	0	73	0	73	7483.81	534
	Feb 2016	22	25	0	51	0	51	7480.21	508
	Mar 2016	36	38	0	32	0	32	7480.92	513
	Apr 2016	77	74	1	42	0	42	7485.17	544
	May 2016	221	207	1	116	0	116	7496.65	634
	Jun 2016	261	241	1	76	0	76	7515.90	798
	Jul 2016	117	119	2	113	0	113	7516.40	803
	Aug 2016	63	73	1	120	0	120	7510.99	754
	Sep 2016	38	47	1	110	0	110	7503.47	690
<b>WY 2016</b>		<b>955</b>	<b>948</b>	<b>9</b>	<b>932</b>	<b>0</b>	<b>932</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Morrow Point Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Blue Mesa Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)
*	Oct 2013	50	46	2	48	47	1	50	7152.26	111
H	Nov 2013	34	14	1	15	0	0	15	7152.65	111
I	Dec 2013	26	11	1	12	0	0	16	7147.65	107
S	Jan 2014	24	14	2	16	0	0	16	7148.51	108
T	Feb 2014	24	13	2	14	12	0	14	7148.21	108
O	Mar 2014	33	23	1	24	25	0	25	7146.76	107
R	Apr 2014	143	28	13	41	42	0	42	7146.13	106
I	May 2014	268	72	26	98	93	0	93	7152.55	111
C	Jun 2014	379	353	18	372	295	63	382	7138.91	101
A	Jul 2014	120	118	3	122	82	8	110	7153.91	112
L	Aug 2014	64	104	1	105	104	0	104	7154.40	113
*	Sep 2014	49	81	1	82	82	0	82	7153.75	112
<b>WY 2014</b>		<b>1215</b>	<b>879</b>	<b>70</b>	<b>949</b>	<b>782</b>	<b>73</b>	<b>949</b>		
	Oct 2014	46	54	1	55	55	0	55	7153.73	112
	Nov 2014	37	25	2	27	27	0	27	7153.73	112
	Dec 2014	30	55	2	57	57	0	57	7153.73	112
	Jan 2015	27	68	1	69	69	0	69	7153.73	112
	Feb 2015	24	63	1	64	64	0	64	7153.73	112
	Mar 2015	37	47	2	49	49	0	49	7153.73	112
	Apr 2015	80	39	10	49	49	0	49	7153.73	112
	May 2015	233	105	23	128	128	0	128	7153.73	112
	Jun 2015	280	52	20	72	72	0	72	7153.73	112
	Jul 2015	99	93	4	97	97	0	97	7153.73	112
	Aug 2015	54	117	2	119	119	0	119	7153.73	112
	Sep 2015	40	110	2	112	112	0	112	7153.73	112
<b>WY 2015</b>		<b>987</b>	<b>828</b>	<b>70</b>	<b>898</b>	<b>898</b>	<b>0</b>	<b>898</b>		
	Oct 2015	40	60	2	62	62	0	62	7153.73	112
	Nov 2015	33	50	2	52	52	0	52	7153.73	112
	Dec 2015	28	90	2	92	92	0	92	7153.73	112
	Jan 2016	27	73	2	75	75	0	75	7153.73	112
	Feb 2016	25	51	3	54	54	0	54	7153.73	112
	Mar 2016	40	32	4	36	36	0	36	7153.73	112
	Apr 2016	88	42	11	53	53	0	53	7153.73	112
	May 2016	247	116	26	142	142	0	142	7153.73	112
	Jun 2016	281	76	20	96	96	0	96	7153.73	112
	Jul 2016	123	113	6	119	119	0	119	7153.73	112
	Aug 2016	67	120	3	123	123	0	123	7153.73	112
	Sep 2016	41	110	3	113	113	0	113	7153.73	112
<b>WY 2016</b>		<b>1040</b>	<b>932</b>	<b>84</b>	<b>1017</b>	<b>1017</b>	<b>0</b>	<b>1017</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*  
Crystal Reservoir



	Date	Unreg Inflow (1000 Ac-Ft)	Morrow Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Total Inflow (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Live Storage (1000 Ac-Ft)	Tunnel Flow (1000 Ac-Ft)	Below Tunnel Flow (1000 Ac-Ft)
*	Oct 2013	55	50	5	54	56	0	56	6741.56	14	36	22
H	Nov 2013	40	15	6	21	15	4	19	6748.85	16	0	19
I	Dec 2013	30	16	4	20	20	0	20	6749.68	16	0	20
S	Jan 2014	27	16	3	19	6	14	20	6746.01	15	1	20
T	Feb 2014	29	14	5	19	3	17	20	6743.52	14	1	20
O	Mar 2014	39	25	6	31	30	0	31	6744.65	15	1	30
R	Apr 2014	154	42	11	53	53	0	53	6743.26	14	28	26
I	May 2014	297	93	29	122	88	22	118	6758.88	19	52	69
C	Jun 2014	414	382	35	417	108	126	419	6751.56	17	61	378
A	Jul 2014	130	110	10	120	119	2	120	6749.06	16	67	59
L	Aug 2014	69	104	4	109	108	0	108	6749.65	16	65	48
*	Sep 2014	53	82	4	86	84	3	87	6747.57	15	62	26
<b>WY 2014</b>		<b>1337</b>	<b>949</b>	<b>123</b>	<b>1071</b>	<b>690</b>	<b>187</b>	<b>1071</b>			<b>374</b>	<b>738</b>
	Oct 2014	52	55	6	61	59	0	59	6753.04	17	30	29
	Nov 2014	41	27	4	31	31	0	31	6753.04	17	0	31
	Dec 2014	35	57	5	62	62	0	62	6753.04	17	0	62
	Jan 2015	32	69	5	74	74	0	74	6753.04	17	0	74
	Feb 2015	27	64	3	67	67	0	67	6753.04	17	0	67
	Mar 2015	43	49	6	55	55	0	55	6753.04	17	5	50
	Apr 2015	91	49	11	60	60	0	60	6753.04	17	30	30
	May 2015	265	128	32	160	134	26	160	6753.04	17	55	105
	Jun 2015	310	72	30	102	102	0	102	6753.04	17	60	42
	Jul 2015	110	97	11	108	108	0	108	6753.04	17	65	43
	Aug 2015	61	119	7	126	126	0	126	6753.04	17	65	61
	Sep 2015	46	112	6	118	118	0	118	6753.04	17	55	63
<b>WY 2015</b>		<b>1113</b>	<b>898</b>	<b>126</b>	<b>1024</b>	<b>997</b>	<b>26</b>	<b>1023</b>			<b>365</b>	<b>658</b>
	Oct 2015	46	62	6	68	68	0	68	6753.04	17	30	38
	Nov 2015	38	52	5	57	57	0	57	6753.04	17	0	57
	Dec 2015	32	92	5	97	97	0	97	6753.04	17	0	97
	Jan 2016	31	75	5	80	80	0	80	6753.04	17	0	80
	Feb 2016	29	54	4	57	57	0	57	6753.04	17	0	57
	Mar 2016	46	36	6	42	42	0	42	6753.04	17	5	37
	Apr 2016	101	53	12	66	66	0	66	6753.04	17	30	36
	May 2016	281	142	34	176	134	42	176	6753.04	17	55	121
	Jun 2016	315	96	34	130	130	0	130	6753.04	17	60	70
	Jul 2016	138	119	14	133	133	0	133	6753.04	17	65	68
	Aug 2016	75	123	8	132	132	0	132	6753.04	17	65	67
	Sep 2016	47	113	6	119	119	0	119	6753.04	17	55	64
<b>WY 2016</b>		<b>1179</b>	<b>1017</b>	<b>140</b>	<b>1156</b>	<b>1114</b>	<b>42</b>	<b>1156</b>			<b>365</b>	<b>791</b>

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Vallecito Reservoir



	Regulated Inflow	Total Release	Reservoir Elev End of Month	Live Storage
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)
* Oct 2013	18	2	7646.84	80
H Nov 2013	10	2	7650.16	87
I Dec 2013	7	2	7652.32	93
S Jan 2014	6	2	7653.61	96
T Feb 2014	5	2	7654.41	98
O Mar 2014	7	11	7653.05	94
R Apr 2014	28	16	7657.59	106
I May 2014	59	43	7663.60	122
C Jun 2014	47	50	7662.12	118
A Jul 2014	15	38	7653.12	95
L Aug 2014	14	32	7645.08	75
* Sep 2014	22	28	7642.43	70
<hr/>				
<b>WY 2014</b>	<b>238</b>	<b>229</b>		
<hr/>				
Oct 2014	15	15	7642.34	69
Nov 2014	8	1	7645.21	76
Dec 2014	6	2	7647.11	80
Jan 2015	5	2	7648.55	84
Feb 2015	4	1	7649.61	86
Mar 2015	7	2	7651.78	91
Apr 2015	20	1	7658.99	109
May 2015	65	50	7664.54	124
Jun 2015	65	65	7664.25	123
Jul 2015	27	42	7658.52	108
Aug 2015	18	38	7650.41	88
Sep 2015	15	30	7644.00	73
<hr/>				
<b>WY 2015</b>	<b>255</b>	<b>248</b>		
<hr/>				
Oct 2015	14	17	7642.54	70
Nov 2015	8	1	7645.56	77
Dec 2015	6	2	7647.60	81
Jan 2016	5	2	7649.20	85
Feb 2016	5	1	7650.53	88
Mar 2016	9	2	7653.34	95
Apr 2016	23	1	7661.72	117
May 2016	71	63	7664.51	124
Jun 2016	70	70	7664.40	124
Jul 2016	29	41	7659.49	111
Aug 2016	20	38	7652.24	92
Sep 2016	17	29	7647.49	81
<hr/>				
<b>WY 2016</b>	<b>279</b>	<b>267</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*  
Navajo Reservoir



	Mod Unreg Inflow	Azetea Tunnel Div	Reg Inflow	Evap Losses	NIIP Diversion	Total Release	Reservoir Elev End of Month	Live Storage	Farmington Flow
Date	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)	(Ft)	(1000 Ac-Ft)	(1000 Ac-Ft)
* Oct 2013	57	3	38	1	4	15	6024.13	951	45
H Nov 2013	35	1	26	1	0	16	6025.11	960	43
I Dec 2013	26	0	21	0	0	16	6025.59	965	39
S Jan 2014	19	0	16	0	0	17	6025.41	963	36
T Feb 2014	23	0	21	1	0	18	6025.70	966	35
O Mar 2014	52	2	53	1	4	18	6028.76	996	41
R Apr 2014	123	14	98	2	21	18	6034.32	1053	64
I May 2014	176	20	141	3	31	17	6042.68	1142	115
C Jun 2014	116	19	98	4	39	20	6045.77	1177	148
A Jul 2014	14	2	35	4	44	29	6042.03	1135	64
L Aug 2014	14	1	32	3	37	39	6037.72	1088	61
* Sep 2014	39	1	47	2	22	31	6036.99	1081	63
<b>WY 2014</b>	<b>696</b>	<b>62</b>	<b>626</b>	<b>23</b>	<b>203</b>	<b>253</b>			<b>754</b>
Oct 2014	35	1	34	1	32	21	6035.04	1060	21
Nov 2014	25	0	18	1	1	21	6034.64	1056	21
Dec 2014	20	0	16	1	1	22	6033.94	1049	22
Jan 2015	17	0	14	1	0	22	6033.10	1040	22
Feb 2015	22	0	19	1	0	19	6033.02	1039	19
Mar 2015	65	1	58	1	5	22	6035.95	1070	22
Apr 2015	130	13	99	2	19	21	6041.27	1127	21
May 2015	260	37	208	3	33	49	6052.07	1250	49
Jun 2015	190	32	158	4	48	77	6054.51	1280	77
Jul 2015	45	7	53	4	52	22	6052.39	1254	22
Aug 2015	33	1	52	3	44	26	6050.55	1232	26
Sep 2015	32	1	46	3	24	22	6050.30	1229	22
<b>WY 2015</b>	<b>874</b>	<b>93</b>	<b>774</b>	<b>25</b>	<b>259</b>	<b>342</b>			<b>342</b>
Oct 2015	39	1	40	2	9	22	6051.01	1237	22
Nov 2015	31	1	23	1	0	21	6051.11	1239	21
Dec 2015	25	0	20	1	0	22	6050.94	1237	22
Jan 2016	22	0	18	1	0	22	6050.58	1232	22
Feb 2016	30	0	27	1	0	20	6051.07	1238	20
Mar 2016	92	2	83	2	5	22	6055.64	1293	22
Apr 2016	170	15	133	2	20	29	6062.20	1376	29
May 2016	277	41	228	4	33	216	6060.26	1351	216
Jun 2016	224	33	190	4	49	193	6055.75	1295	193
Jul 2016	66	7	71	4	52	22	6055.18	1288	22
Aug 2016	45	1	61	3	44	22	6054.50	1279	22
Sep 2016	43	1	53	3	24	21	6055.00	1285	21
<b>WY 2016</b>	<b>1064</b>	<b>103</b>	<b>950</b>	<b>26</b>	<b>237</b>	<b>630</b>			<b>630</b>

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Lake Powell



	Date	Unreg Inflow (1000 Ac-Ft)	Regulated Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	PowerPlant Release (1000 Ac-Ft)	Bypass Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	Bank Storage (1000 Ac-Ft)	EOM Storage (1000 Ac-Ft)	Lees Ferry Gage (1000 Ac-Ft)
*	Oct 2013	549	475	30	481	0	481	3590.88	4926	10900	483
H	Nov 2013	476	435	29	553	143	696	3587.90	4904	10631	695
I	Dec 2013	295	291	23	601	0	601	3584.43	4880	10324	595
S	Jan 2014	270	271	7	800	0	800	3578.69	4840	9828	811
T	Feb 2014	330	321	7	599	0	599	3575.55	4819	9563	604
O	Mar 2014	509	444	12	504	0	504	3574.76	4813	9497	510
R	Apr 2014	964	774	19	502	0	502	3577.56	4832	9732	512
I	May 2014	2082	1632	24	493	0	493	3589.38	4915	10764	498
C	Jun 2014	3039	2676	42	598	0	598	3609.19	5066	12649	609
A	Jul 2014	838	730	53	800	0	800	3608.05	5056	12535	814
L	Aug 2014	517	615	53	801	0	801	3605.82	5039	12314	818
*	Sep 2014	511	622	48	604	0	604	3605.53	5037	12286	621
<b>WY 2014</b>		<b>10381</b>	<b>9287</b>	<b>347</b>	<b>7337</b>	<b>143</b>	<b>7480</b>				<b>7570</b>
	Oct 2014	750	763	34	600	0	600	3606.74	5046	12405	609
	Nov 2014	500	499	33	600	0	600	3605.49	5036	12282	610
	Dec 2014	380	484	26	800	0	800	3602.24	5011	11965	808
	Jan 2015	340	462	8	800	0	800	3598.89	4985	11645	811
	Feb 2015	380	479	8	650	0	650	3597.13	4972	11478	657
	Mar 2015	640	658	14	650	0	650	3597.08	4972	11473	656
	Apr 2015	1040	935	23	600	0	600	3600.13	4995	11763	609
	May 2015	2400	2065	28	650	0	650	3613.12	5097	13047	658
	Jun 2015	2650	2247	48	800	0	800	3625.39	5201	14343	808
	Jul 2015	800	708	59	1000	0	1000	3622.39	5175	14018	1017
	Aug 2015	400	515	57	1050	0	1050	3617.21	5131	13469	1069
	Sep 2015	350	478	52	800	0	800	3613.86	5104	13123	813
<b>WY 2015</b>		<b>10630</b>	<b>10293</b>	<b>389</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9124</b>
	Oct 2015	464	517	35	600	0	600	3612.79	5095	13013	609
	Nov 2015	450	502	34	600	0	600	3611.59	5085	12891	610
	Dec 2015	363	482	27	800	0	800	3608.42	5059	12572	808
	Jan 2016	361	463	8	800	0	800	3605.19	5034	12252	811
	Feb 2016	393	455	9	650	0	650	3603.26	5019	12064	657
	Mar 2016	665	589	15	650	0	650	3602.54	5013	11994	656
	Apr 2016	1056	889	23	600	0	600	3605.06	5033	12239	609
	May 2016	2343	2196	29	650	0	650	3618.87	5145	13644	658
	Jun 2016	2666	2250	50	800	0	800	3630.78	5249	14941	808
	Jul 2016	1091	1002	62	1000	0	1000	3630.29	5245	14886	1017
	Aug 2016	500	601	61	1050	0	1050	3626.04	5207	14414	1069
	Sep 2016	408	534	55	800	0	800	3623.31	5183	14117	813
<b>WY 2016</b>		<b>10760</b>	<b>10481</b>	<b>408</b>	<b>9000</b>	<b>0</b>	<b>9000</b>				<b>9124</b>

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Glen Release (1000 Ac-Ft)	Side Inflow Glen to Hoover (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	SNWP Use (1000 Ac-Ft)	Downstream Requirements (1000 Ac-Ft)	Bank Storage (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
* Oct 2013	481	38	47	733	11.9	19	718	786	1104.04	12099
H Nov 2013	696	101	47	513	8.6	12	510	800	1106.36	12310
I Dec 2013	601	43	40	558	9.1	9	556	802	1106.73	12344
S Jan 2014	800	45	33	605	9.8	8	604	815	1108.75	12531
T Feb 2014	599	76	31	717	12.9	8	716	810	1107.94	12456
O Mar 2014	504	29	34	1090	17.7	13	1087	773	1101.71	11888
R Apr 2014	502	17	41	1134	19.1	20	1130	731	1094.55	11254
I May 2014	493	13	46	1086	17.7	30	1084	692	1087.46	10639
C Jun 2014	598	10	54	959	16.1	28	803	665	1082.66	10233
A Jul 2014	800	54	67	943	15.3	27	941	654	1080.60	10061
L Aug 2014	801	112	71	735	12.0	23	727	659	1081.55	10140
* Sep 2014	604	138	58	686	11.5	18	684	658	1081.33	10121
<b>WY 2014</b>	<b>7480</b>	<b>675</b>	<b>567</b>	<b>9759</b>		<b>214</b>	<b>9561</b>			
Oct 2014	600	52	43	513	8.3	26	513	662	1082.13	10188
Nov 2014	600	52	43	627	10.5	17	627	660	1081.75	10157
Dec 2014	800	95	37	569	9.3	10	569	677	1084.87	10419
Jan 2015	800	75	30	722	11.7	8	722	684	1086.14	10527
Feb 2015	650	78	28	594	10.7	7	594	690	1087.23	10620
Mar 2015	650	68	31	1018	16.6	15	1018	669	1083.39	10294
Apr 2015	600	80	38	1131	19.0	21	1131	638	1077.63	9815
May 2015	650	60	43	1020	16.6	29	1020	615	1073.21	9456
Jun 2015	800	23	51	937	15.7	30	937	603	1070.92	9273
Jul 2015	1000	64	64	911	14.8	31	911	606	1071.60	9327
Aug 2015	1050	116	68	825	13.4	29	825	621	1074.45	9556
Sep 2015	800	97	57	749	12.6	16	749	626	1075.31	9626
<b>WY 2015</b>	<b>9000</b>	<b>861</b>	<b>533</b>	<b>9615</b>		<b>240</b>	<b>9615</b>			
Oct 2015	600	52	42	495	8.1	21	495	631	1076.40	9715
Nov 2015	600	52	42	638	10.7	11	638	629	1075.96	9679
Dec 2015	800	95	36	566	9.2	8	566	647	1079.23	9947
Jan 2016	800	75	30	611	9.9	7	611	660	1081.80	10161
Feb 2016	650	78	28	677	11.8	9	677	661	1081.96	10174
Mar 2016	650	68	31	1042	17.0	14	1042	639	1077.78	9828
Apr 2016	600	80	37	1119	18.8	20	1119	608	1072.03	9361
May 2016	650	60	42	1008	16.4	33	1008	586	1067.62	9011
Jun 2016	800	23	50	922	15.5	30	922	575	1065.46	8843
Jul 2016	1000	64	62	898	14.6	33	898	579	1066.31	8909
Aug 2016	1050	116	67	812	13.2	29	812	595	1069.40	9152
Sep 2016	800	97	56	728	12.2	20	728	601	1070.50	9239
<b>WY 2016</b>	<b>9000</b>	<b>861</b>	<b>522</b>	<b>9518</b>		<b>233</b>	<b>9518</b>			

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

**OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS**



**October 2014 24-Month Study**

Most Probable Inflow\*

**Davis Dam - Lake Mohave**



Date	Hoover Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Power Release (1000 Ac-Ft)	Spill Release (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)
* Oct 2013	733	-13	15	768	0	768	12.5	637.86	1560
H Nov 2013	513	4	11	531	0	531	8.9	636.95	1537
I Dec 2013	558	-10	9	470	0	470	7.6	639.57	1606
S Jan 2014	605	-7	10	552	0	552	9.0	640.94	1643
T Feb 2014	717	-22	10	658	0	658	11.9	641.96	1670
O Mar 2014	1090	-12	13	1074	0	1074	17.5	641.61	1661
R Apr 2014	1134	-21	17	1054	0	1054	17.7	643.13	1702
I May 2014	1086	-17	22	1023	0	1022	16.6	644.01	1726
C Jun 2014	959	-19	25	947	0	947	15.9	642.83	1694
A Jul 2014	943	-10	25	900	0	900	14.6	643.10	1701
L Aug 2014	735	-6	23	697	0	697	11.3	643.43	1711
* Sep 2014	686	-6	18	727	0	727	12.2	641.03	1645
<b>WY 2014</b>	<b>9759</b>	<b>-139</b>	<b>198</b>	<b>9400</b>	<b>0</b>	<b>9400</b>			
Oct 2014	513	-2	15	655	0	655	10.7	635.00	1486
Nov 2014	627	-13	10	578	0	578	9.7	636.00	1512
Dec 2014	569	-17	9	472	0	472	7.7	638.71	1583
Jan 2015	722	-14	10	615	0	615	10.0	641.80	1666
Feb 2015	594	-10	10	574	0	574	10.3	641.80	1666
Mar 2015	1018	-15	13	956	0	956	15.5	643.05	1700
Apr 2015	1131	-17	17	1098	0	1098	18.5	643.00	1699
May 2015	1020	-13	22	985	0	985	16.0	643.00	1699
Jun 2015	937	-14	25	925	0	925	15.5	642.00	1671
Jul 2015	911	-10	25	889	0	889	14.5	641.50	1658
Aug 2015	825	-11	23	791	0	791	12.9	641.50	1658
Sep 2015	749	-4	18	767	0	767	12.9	640.01	1617
<b>WY 2015</b>	<b>9615</b>	<b>-141</b>	<b>197</b>	<b>9304</b>	<b>0</b>	<b>9304</b>			
Oct 2015	495	-2	15	662	0	662	10.8	633.00	1434
Nov 2015	638	-13	10	564	0	564	9.5	635.00	1486
Dec 2015	566	-17	9	442	0	442	7.2	638.71	1583
Jan 2016	611	-14	10	504	0	504	8.2	641.80	1666
Feb 2016	677	-10	10	657	0	657	11.4	641.80	1666
Mar 2016	1042	-15	13	980	0	980	15.9	643.05	1700
Apr 2016	1119	-17	17	1087	0	1087	18.3	643.00	1699
May 2016	1008	-13	22	973	0	973	15.8	643.00	1699
Jun 2016	922	-14	25	910	0	910	15.3	642.00	1671
Jul 2016	898	-10	25	876	0	876	14.2	641.50	1658
Aug 2016	812	-11	23	779	0	779	12.7	641.50	1658
Sep 2016	728	-4	18	746	0	746	12.5	640.01	1617
<b>WY 2016</b>	<b>9518</b>	<b>-141</b>	<b>197</b>	<b>9180</b>	<b>0</b>	<b>9180</b>			

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Davis Release (1000 Ac-Ft)	Side Inflow (1000 Ac-Ft)	Evap Losses (1000 Ac-Ft)	Total Release (1000 Ac-Ft)	Total Release (1000 CFS)	MWD Diversion (1000 Ac-Ft)	CAP Diversion (1000 Ac-Ft)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Flow To Mexico (1000 Ac-Ft)	Flow To Mexico (1000 CFS)
*	Oct 2013	768	19	12	467	7.6	99	186	447.91	578	70	1.1
H	Nov 2013	531	25	9	314	5.3	77	144	448.37	587	89	1.5
I	Dec 2013	470	7	7	285	4.6	100	138	445.37	531	99	1.6
S	Jan 2014	552	13	6	353	5.7	101	84	446.23	547	131	2.1
T	Feb 2014	658	19	8	450	8.1	48	130	448.13	582	162	2.9
O	Mar 2014	1074	-3	9	809	13.1	90	176	447.05	562	260	4.2
R	Apr 2014	1054	24	11	756	12.7	105	178	448.11	582	241	4.0
I	May 2014	1022	-4	13	694	11.3	110	184	448.48	589	115	1.9
C	Jun 2014	947	10	15	713	12.0	95	133	447.90	578	112	4.5
A	Jul 2014	900	17	17	685	11.1	105	93	448.27	585	118	1.9
L	Aug 2014	697	25	17	495	8.1	106	99	448.10	582	100	1.6
*	Sep 2014	727	15	15	474	8.0	102	140	448.17	583	90	1.5
<b>WY 2014</b>		<b>9400</b>	<b>167</b>	<b>140</b>	<b>6496</b>		<b>1137</b>	<b>1685</b>			<b>1587</b>	
	Oct 2014	655	25	12	438	7.1	105	131	447.50	571	55	0.9
	Nov 2014	578	31	9	363	6.1	100	132	447.50	571	86	1.4
	Dec 2014	472	23	7	263	4.3	103	137	446.50	552	97	1.6
	Jan 2015	615	16	6	357	5.8	92	171	446.50	552	130	2.1
	Feb 2015	574	11	8	438	7.9	40	91	446.50	552	161	2.9
	Mar 2015	956	17	9	732	11.9	75	144	446.70	555	205	3.3
	Apr 2015	1098	21	11	806	13.6	89	166	448.70	593	205	3.4
	May 2015	985	21	13	717	11.7	92	172	448.70	593	113	1.8
	Jun 2015	925	17	16	700	11.8	89	123	448.70	593	111	1.9
	Jul 2015	889	29	17	723	11.8	92	85	448.00	580	119	1.9
	Aug 2015	791	27	17	622	10.1	92	84	447.50	571	100	1.6
	Sep 2015	767	25	15	556	9.3	89	122	447.50	570	89	1.5
<b>WY 2015</b>		<b>9304</b>	<b>263</b>	<b>139</b>	<b>6716</b>		<b>1059</b>	<b>1559</b>			<b>1473</b>	
	Oct 2015	662	25	12	457	7.4	81	129	447.50	571	55	0.9
	Nov 2015	564	31	9	376	6.3	78	126	447.50	571	103	1.7
	Dec 2015	442	23	7	279	4.5	81	113	446.50	552	108	1.7
	Jan 2016	504	16	6	348	5.7	70	92	446.50	552	125	2.0
	Feb 2016	657	11	8	437	7.6	64	152	446.50	552	156	2.7
	Mar 2016	980	17	9	732	11.9	70	174	446.70	555	201	3.3
	Apr 2016	1087	21	11	816	13.7	67	167	448.70	593	212	3.6
	May 2016	973	21	13	726	11.8	70	173	448.70	593	111	1.8
	Jun 2016	910	17	16	709	11.9	67	122	448.70	593	109	1.8
	Jul 2016	876	29	17	730	11.9	70	87	448.00	580	111	1.8
	Aug 2016	779	27	17	630	10.2	70	86	447.50	571	105	1.7
	Sep 2016	746	25	15	560	9.4	67	120	447.50	570	102	1.7
<b>WY 2016</b>		<b>9180</b>	<b>263</b>	<b>139</b>	<b>6802</b>		<b>855</b>	<b>1542</b>			<b>1498</b>	

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Hoover Dam - Lake Mead



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Hoover Static Head (Ft)	Hoover Gen Capacity MW	Hoover Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2013	733	11.9	1104.04	12099	-263	460.18	1332.0	300.5	77	410.1
H	Nov 2013	513	8.6	1106.36	12310	212	465.65	1179.0	209.8	68	408.7
I	Dec 2013	558	9.1	1106.73	12344	34	463.77	1188.0	230.3	68	412.8
S	Jan 2014	605	9.8	1108.75	12531	186	465.47	746.0	250.9	43	414.5
T	Feb 2014	717	12.9	1107.94	12456	-75	461.16	1415.0	298.2	81	415.9
O	Mar 2014	1090	17.7	1101.71	11888	-567	457.72	1234.0	451.5	71	414.3
R	Apr 2014	1134	19.1	1094.55	11254	-635	447.66	1146.0	459.8	68	405.6
I	May 2014	1086	17.7	1087.46	10639	-615	440.39	1341.0	431.0	81	397.1
C	Jun 2014	959	16.1	1082.66	10233	-406	437.98	1541.0	372.9	93	388.7
A	Jul 2014	943	15.3	1080.60	10061	-172	434.94	1615.0	363.6	100	385.7
L	Aug 2014	735	12.0	1081.55	10140	79	436.53	1493.0	279.3	94	379.9
*	Sep 2014	686	11.5	1081.33	10121	-18	437.59	1493.0	262.1	94	382.2
<b>WY 2014</b>		<b>9759</b>							<b>3910.2</b>		
	Oct 2014	513	8.3	1082.13	10188	67	433.47	1282.0	199.7	81	389.6
	Nov 2014	627	10.5	1081.75	10157	-32	436.75	1073.0	243.7	68	388.8
	Dec 2014	569	9.3	1084.87	10419	262	436.99	1072.0	220.9	67	388.2
	Jan 2015	722	11.7	1086.14	10527	108	436.94	1133.0	284.7	71	394.3
	Feb 2015	594	10.7	1087.23	10620	93	439.10	835.0	236.0	52	397.5
	Mar 2015	1018	16.6	1083.39	10294	-326	435.27	1123.0	404.6	71	397.4
	Apr 2015	1131	19.0	1077.63	9815	-479	429.64	1168.0	450.2	75	398.2
	May 2015	1020	16.6	1073.21	9456	-359	423.90	1249.0	390.7	82	383.1
	Jun 2015	937	15.7	1070.92	9273	-183	418.99	1513.0	354.5	100	378.4
	Jul 2015	911	14.8	1071.60	9327	54	418.68	1518.0	342.0	100	375.3
	Aug 2015	825	13.4	1074.45	9556	229	420.59	1534.0	314.2	100	381.0
	Sep 2015	749	12.6	1075.31	9626	70	422.91	1539.0	285.0	100	380.5
<b>WY 2015</b>		<b>9615</b>							<b>3726.3</b>		
	Oct 2015	495	8.1	1076.40	9715	89	428.11	1238.0	190.2	80	384.1
	Nov 2015	638	10.7	1075.96	9679	-36	431.20	1169.0	244.8	76	383.5
	Dec 2015	566	9.2	1079.23	9947	268	430.16	1267.0	214.9	81	380.0
	Jan 2016	611	9.9	1081.80	10161	213	430.78	1286.0	234.9	82	384.4
	Feb 2016	677	11.8	1081.96	10174	14	430.48	1383.0	261.1	88	385.6
	Mar 2016	1042	17.0	1077.78	9828	-347	429.86	1103.8	410.7	71	393.9
	Apr 2016	1119	18.8	1072.03	9361	-466	424.08	1146.6	439.2	75	392.4
	May 2016	1008	16.4	1067.62	9011	-350	418.35	1225.8	380.3	82	377.3
	Jun 2016	922	15.5	1065.46	8843	-169	413.52	1484.5	343.6	100	372.5
	Jul 2016	898	14.6	1066.31	8909	66	413.36	1489.3	331.9	100	369.6
	Aug 2016	812	13.2	1069.40	9152	243	415.47	1506.7	305.1	100	375.7
	Sep 2016	728	12.2	1070.50	9239	88	418.02	1512.9	273.0	100	374.9
<b>WY 2016</b>		<b>9518</b>							<b>3629.8</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Davis Dam - Lake Mohave



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Davis Static Head (Ft)	Davis Gen Capacity MW	Davis Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2013	768	12.5	637.86	1560	-63	136.18	196.4	94.7	77	123.3
H	Nov 2013	531	8.9	636.95	1537	-24	137.13	158.1	61.5	62	115.9
I	Dec 2013	470	7.6	639.57	1606	69	136.36	173.4	59.4	68	126.5
S	Jan 2014	552	9.0	640.94	1643	37	139.11	163.2	68.9	64	124.9
T	Feb 2014	658	11.9	641.96	1670	28	138.63	173.4	84.5	68	128.3
O	Mar 2014	1074	17.5	641.61	1661	-10	138.63	252.5	134.6	99	125.3
R	Apr 2014	1054	17.7	643.13	1702	42	141.55	255.0	132.2	100	125.4
I	May 2014	1023	16.6	644.01	1726	24	143.52	255.0	127.7	100	124.9
C	Jun 2014	947	15.9	642.83	1694	-32	141.57	255.0	119.3	100	126.0
A	Jul 2014	900	14.6	643.10	1701	7	143.48	244.8	112.8	96	125.4
L	Aug 2014	697	11.3	643.43	1711	9	143.79	252.5	88.3	99	126.7
*	Sep 2014	727	12.2	641.03	1645	-65	138.41	255.0	91.5	100	126.0
<b>WY 2014</b>		<b>9400</b>							<b>1175.6</b>		
	Oct 2014	655	10.7	635.00	1486	-160	132.68	191.3	80.1	75	122.3
	Nov 2014	578	9.7	636.00	1512	26	132.05	135.2	69.5	53	120.3
	Dec 2014	472	7.7	638.71	1583	71	133.69	142.8	57.9	56	122.8
	Jan 2015	615	10.0	641.80	1666	83	135.97	163.2	76.6	64	124.5
	Feb 2015	574	10.3	641.80	1666	0	136.77	186.2	72.2	73	125.8
	Mar 2015	956	15.5	643.05	1700	34	135.44	255.0	119.1	100	124.6
	Apr 2015	1098	18.5	643.00	1699	-2	136.07	255.0	136.4	100	124.3
	May 2015	985	16.0	643.00	1699	0	136.04	255.0	123.1	100	125.0
	Jun 2015	925	15.5	642.00	1671	-27	135.51	255.0	115.3	100	124.7
	Jul 2015	889	14.5	641.50	1658	-14	134.73	255.0	110.5	100	124.3
	Aug 2015	791	12.9	641.50	1658	0	134.46	255.0	98.6	100	124.6
	Sep 2015	767	12.9	640.01	1617	-40	133.68	255.0	95.0	100	123.9
<b>WY 2015</b>		<b>9304</b>							<b>1154.3</b>		
	Oct 2015	662	10.8	633.00	1434	-183	129.77	234.6	79.9	92	120.9
	Nov 2015	564	9.5	635.00	1486	51	127.90	209.1	67.2	82	119.1
	Dec 2015	442	7.2	638.71	1583	97	130.45	224.4	54.2	88	122.5
	Jan 2016	504	8.2	641.80	1666	83	135.97	163.2	63.1	64	125.2
	Feb 2016	657	11.4	641.80	1666	0	137.17	173.4	82.4	68	125.4
	Mar 2016	980	15.9	643.05	1700	34	135.44	255.0	122.0	100	124.5
	Apr 2016	1087	18.3	643.00	1699	-2	136.07	255.0	135.1	100	124.3
	May 2016	973	15.8	643.00	1699	0	136.04	255.0	121.7	100	125.0
	Jun 2016	910	15.3	642.00	1671	-27	135.51	255.0	113.6	100	124.7
	Jul 2016	876	14.2	641.50	1658	-14	134.73	255.0	108.9	100	124.4
	Aug 2016	779	12.7	641.50	1658	0	134.46	255.0	97.1	100	124.7
	Sep 2016	746	12.5	640.01	1617	-40	133.68	255.0	92.6	100	124.1
<b>WY 2016</b>		<b>9180</b>							<b>1137.7</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Parker Dam - Lake Havasu



	Date	Power Release (1000 Ac-Ft)	Power Release (1000 CFS)	Reservoir Elev End of Month (Ft)	EOM Storage (1000 Ac-Ft)	Change In Storage (1000 Ac-Ft)	Parker Static Head (Ft)	Parker Gen Capacity MW	Parker Gross Energy MKWH	Percent of Units Available	KWH/AF
*	Oct 2013	467	7.6	447.91	578	18	83.28	96.0	31.7	80	67.9
H	Nov 2013	314	5.3	448.37	587	9	82.63	92.4	22.1	77	70.5
I	Dec 2013	285	4.6	445.37	531	-56	80.69	91.2	19.0	76	66.8
S	Jan 2014	353	5.7	446.23	547	16	80.02	90.0	24.2	75	68.4
T	Feb 2014	450	8.1	448.13	582	35	82.38	92.4	31.2	77	69.4
O	Mar 2014	809	13.1	447.05	562	-20	77.18	106.8	55.4	89	68.5
R	Apr 2014	756	12.7	448.11	582	20	80.82	120.0	52.3	100	69.1
I	May 2014	694	11.3	448.48	589	7	80.45	106.8	49.2	89	70.8
C	Jun 2014	713	12.0	447.90	578	-11	81.61	120.0	49.8	100	69.8
A	Jul 2014	685	11.1	448.27	585	7	82.46	120.0	47.9	100	70.0
L	Aug 2014	495	8.1	448.10	582	-3	81.82	120.0	35.2	100	71.2
*	Sep 2014	474	8.0	448.17	583	1	82.36	91.2	33.7	76	70.9
<b>WY 2014</b>		<b>6495</b>							<b>451.6</b>		
	Oct 2014	438	7.1	447.50	571	-13	76.62	90.0	28.9	75	66.0
	Nov 2014	363	6.1	447.50	571	0	75.98	96.0	23.6	80	64.9
	Dec 2014	263	4.3	446.50	552	-19	74.40	120.0	16.3	100	62.2
	Jan 2015	357	5.8	446.50	552	0	75.13	93.6	22.9	78	64.2
	Feb 2015	438	7.9	446.50	552	0	75.13	93.6	28.6	78	65.2
	Mar 2015	732	11.9	446.70	555	4	74.53	108.0	47.9	90	65.5
	Apr 2015	806	13.6	448.70	593	38	75.08	120.0	53.2	100	66.0
	May 2015	717	11.7	448.70	593	0	76.05	120.0	47.7	100	66.5
	Jun 2015	700	11.8	448.70	593	0	76.05	120.0	46.6	100	66.5
	Jul 2015	723	11.8	448.00	580	-13	75.71	120.0	48.0	100	66.3
	Aug 2015	622	10.1	447.50	571	-9	75.13	120.0	40.8	100	65.5
	Sep 2015	556	9.3	447.50	570	0	74.89	120.0	36.3	100	65.2
<b>WY 2015</b>		<b>6716</b>							<b>440.7</b>		
	Oct 2015	457	7.4	447.50	571	0	76.04	94.8	30.0	79	65.6
	Nov 2015	376	6.3	447.50	571	0	75.69	102.0	24.4	85	64.8
	Dec 2015	279	4.5	446.50	552	-19	74.40	120.0	17.4	100	62.5
	Jan 2016	348	5.7	446.50	552	0	75.01	96.0	22.2	80	64.0
	Feb 2016	437	7.6	446.50	552	0	75.13	93.6	28.5	78	65.1
	Mar 2016	732	11.9	446.70	555	4	74.01	120.0	47.6	100	65.0
	Apr 2016	816	13.7	448.70	593	38	75.08	120.0	53.9	100	66.1
	May 2016	726	11.8	448.70	593	0	76.05	120.0	48.3	100	66.5
	Jun 2016	709	11.9	448.70	593	0	76.05	120.0	47.2	100	66.6
	Jul 2016	730	11.9	448.00	580	-13	75.71	120.0	48.4	100	66.3
	Aug 2016	630	10.2	447.50	571	-9	75.13	120.0	41.3	100	65.6
	Sep 2016	560	9.4	447.50	570	0	74.89	120.0	36.5	100	65.2
<b>WY 2016</b>		<b>6802</b>							<b>445.8</b>		

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Upper Basin Power



Date	Glen Canyon 1000 MWHR	Flaming Gorge 1000 MWHR	Blue Mesa 1000 MWHR	Morrow Point 1000 MWHR	Crystal Reservoir 1000 MWHR	Fontenelle Reservoir 1000 MWHR
* Oct 2013	202	19	12	16	10	1
H Nov 2013	231	18	3	0	1	4
I Dec 2013	253	19	3	0	1	5
S Jan 2014	337	19	3	0	0	4
T Feb 2014	247	17	3	4	0	4
O Mar 2014	207	19	6	8	4	4
<b>Winter 2014</b>	<b>1477</b>	<b>110</b>	<b>30</b>	<b>28</b>	<b>17</b>	<b>22</b>
R Apr 2014	206	19	7	13	9	5
I May 2014	204	20	19	32	17	6
C Jun 2014	260	80	54	103	21	7
A Jul 2014	354	41	35	29	22	8
L Aug 2014	353	48	31	37	21	9
* Sep 2014	266	46	23	29	16	2
<b>Summer 2014</b>	<b>1643</b>	<b>255</b>	<b>169</b>	<b>243</b>	<b>106</b>	<b>37</b>
Oct 2014	241	34	16	20	10	9
Nov 2014	240	31	7	10	5	7
Dec 2014	319	45	16	21	11	7
Jan 2015	316	45	20	25	13	7
Feb 2015	256	41	18	23	12	6
Mar 2015	255	56	13	18	10	7
<b>Winter 2015</b>	<b>1627</b>	<b>251</b>	<b>91</b>	<b>116</b>	<b>60</b>	<b>42</b>
Apr 2015	236	54	11	18	10	6
May 2015	259	67	31	46	23	6
Jun 2015	328	84	16	26	18	8
Jul 2015	414	34	29	35	19	10
Aug 2015	431	34	37	43	22	9
Sep 2015	327	33	34	40	20	3
<b>Summer 2015</b>	<b>1995</b>	<b>306</b>	<b>158</b>	<b>208</b>	<b>112</b>	<b>42</b>
Oct 2015	243	34	18	22	12	6
Nov 2015	242	33	15	19	10	6
Dec 2015	322	34	27	33	17	6
Jan 2016	319	34	21	27	14	5
Feb 2016	258	32	15	19	10	4
Mar 2016	257	34	9	13	7	4
<b>Winter 2016</b>	<b>1642</b>	<b>202</b>	<b>105</b>	<b>134</b>	<b>69</b>	<b>32</b>
Apr 2016	238	40	12	19	11	5
May 2016	262	69	34	51	23	7
Jun 2016	332	39	23	35	22	8
Jul 2016	419	41	35	43	23	9
Aug 2016	438	41	38	44	23	9
Sep 2016	332	39	34	41	21	7
<b>Summer 2016</b>	<b>1690</b>	<b>230</b>	<b>143</b>	<b>192</b>	<b>103</b>	<b>37</b>

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast

# OPERATION PLAN FOR COLORADO RIVER SYSTEM RESERVOIRS



## October 2014 24-Month Study

Most Probable Inflow\*

### Flood Control Criteria

#### Beginning of Month Conditions



Date	Flaming Gorge	Blue Mesa	Navajo	Lake Powell	Upper Basin Total	Lake Mead	Total	Flaming Gorge	Blue Mesa	Navajo	Tot or Max Allow	Lake Powell	Lake Mead	Total	BOM Space Required	Mead Sched Rel	Mead FC Rel	Sys Cont	
	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	KAF	MAF	
<b>**** PREDICTED SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>											
Oct 2014	495	230	615	12036	13377	17256	30633	495	230	615	1341	12036	17256	30633	3040	513	0	30.1	
Nov 2014	491	238	636	11917	13281	17189	30470	491	238	636	1364	11917	17189	30470	3810	627	0	30.0	
Dec 2014	507	228	640	12040	13415	17220	30635	507	228	640	1374	12040	17220	30635	4580	569	0	29.9	
Jan 2015	583	254	647	12357	13840	16958	30799	583	254	647	1484	12357	16958	30799	5350	722	0	29.6	
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>											
Jan 2015	583	254	647	12357	13840	16958	30799	192	252	378	822	12357	16958	30137	5350	722	0	29.6	
Feb 2015	659	294	656	12677	14286	16850	31137	267	294	386	947	12677	16850	30475	1500	594	0	29.4	
Mar 2015	721	333	657	12844	14555	16757	31312	328	333	386	1047	12844	16757	30648	1500	1018	0	29.1	
Apr 2015	769	343	626	12849	14587	17083	31670	372	343	350	1065	12849	17083	30996	1500	1131	0	29.0	
May 2015	778	314	569	12559	14221	17562	31782	376	314	272	961	12559	17562	31082	1500	1020	0	30.3	
Jun 2015	700	221	446	11275	12641	17921	30563	288	210	112	610	11275	17921	29806	1500	937	0	31.7	
Jul 2015	553	34	416	9979	10982	18104	29086	126	2	31	159	9979	18104	28242	1500	911	0	31.5	
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>											
Aug 2015	444	27	442	10304	11217	18050	29267	444	27	442	913	10304	18050	29267	1500	825	0	31.1	
Sep 2015	471	82	464	10853	11869	17821	29690	471	82	464	1017	10853	17821	29690	2270	749	0	30.6	
Oct 2015	523	146	467	11199	12335	17751	30086	523	146	467	1136	11199	17751	30086	3040	495	0	30.4	
Nov 2015	569	167	459	11309	12503	17662	30165	569	167	459	1195	11309	17662	30165	3810	638	0	30.2	
Dec 2015	614	185	457	11431	12687	17698	30385	614	185	457	1256	11431	17698	30385	4580	566	0	30.1	
Jan 2016	674	248	459	11750	13132	17430	30562	674	248	459	1382	11750	17430	30562	5350	611	0	30.0	
<b>**** EFFECTIVE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>											
Jan 2016	674	248	459	11750	13132	17430	30562	374	248	229	851	11750	17430	30030	5350	611	0	30.0	
Feb 2016	729	295	464	12070	13558	17216	30774	427	295	232	955	12070	17216	30241	1500	677	0	29.7	
Mar 2016	775	322	458	12258	13813	17203	31015	470	322	225	1018	12258	17203	30478	1500	1042	0	29.4	
Apr 2016	770	317	403	12328	13818	17549	31368	462	317	163	942	12328	17549	30820	1500	1119	0	29.4	
May 2016	751	285	320	12083	13439	18016	31455	437	285	59	781	12083	18016	30879	1500	1008	0	30.5	
Jun 2016	705	195	345	10678	11923	18366	30289	382	189	47	618	10678	18366	29662	1500	922	0	32.0	
Jul 2016	442	32	401	9381	10256	18534	28790	99	4	50	154	9381	18534	28069	1500	898	0	32.1	
<b>**** CREDITABLE SPACE ****</b>								<b>**** CREDITABLE SPACE ****</b>											
Aug 2016	359	27	408	9436	10231	18468	28699	359	27	408	794	9436	18468	28699	1500	812	0	31.7	
Sep 2016	395	75	417	9908	10795	18225	29021	395	75	417	887	9908	18225	29021	2270	728	0	31.4	

\* Based on the Colorado River Basin Forecast Center's Most Probable Water Supply Forecast