



Water Planning Meeting AGENDA

November 14, 2013 at 10:00 a.m.
San Antonio River Authority – Board Room
100 E. Guenther Street
San Antonio, Texas 78204

1. Introductions and Certification of a Quorum by the Secretary
2. Approval of the Minutes from August 2013
3. Presentation from Mark Lenz, National Weather Service –
Drought Update and Long Range Outlook
4. Region L administrative update and recap of November 7 meeting
5. Presentation from HDR Engineering
 - i. Results of Revision Requests: Final Population and Water Demand Projections
 - ii. Phase II Survey Results
 - iii. Regional Planning Process update and next steps
6. Presentation from Ann Gabriel, Conservation Program Manager,
Texas A&M Department for Energy and Environmental Sustainability
7. New Business
8. Adjourn

AGENDA ITEM NO. 2

Approval of Minutes from August 8, 2013



**Council of Representatives
MEETING MINUTES**

10:00 a.m. – August 8, 2013
San Antonio Water Systems, Room CR-C145
2800 US Hwy 281 North
San Antonio, TX

Council of Representatives Present:

Alan Cockerell	Schertz-Seguin Local Government Corporation
Avery Lunsford, <i>Secretary</i>	City of Universal City
Brandon Bradley	Cibolo Creek Municipal Authority
Humberto Ramos, <i>Member at Large</i>	Canyon Regional Water Authority
Janet Thelan	City of La Vernia
John Chisholm	San Antonio River Authority
Mike Taylor	Crystal Clear Water Supply Corporation
Pat Allen, <i>Chair</i>	Green Valley Special Utility District
Patrick Sullivan	City of Alamo Heights
Sam Willoughby	City of Schertz
Steven Siebert, <i>Member at Large</i>	San Antonio Water System
Timothy Fousse	City of Cibolo

Members, Guests & Administrative:

Ann Gabriel	Texas A&M
Brian Perkins	HDR Engineering
David Davenport	Canyon Regional Water Authority
Erin Newberry	San Antonio River Authority
Julia Velez	San Antonio River Authority
Ryan Sabol	City of Converse

AGENDA ITEM NO. 1: Certification of a Quorum by the Secretary

A Quorum was established and meeting was called to order by Avery Lunsford, Secretary.

AGENDA ITEM NO. 2: Approval of the Minutes from March 27, 2013

Minutes were approved.

AGENDA ITEM NO. 3: Update from Brackish Wilcox Groundwater Project Workgroup

Humberto Ramos, from Canyon Regional Water Authority (CRWA), updated the group on the latest meeting of the Brackish Wilcox Groundwater Project workgroup that met on June 24 at the offices of SS

Water Supply Corporation (SS WSC). The intent of the meeting was to determine whether continuation of project would remain with the Regional Water Alliance (RWA), or would be transferred to a RWA member. Members of CRWA, San Antonio Water Systems (SAWS), City of La Vernia, Green Valley Special Utility District, City of Cibolo, San Antonio River Authority (SARA) and SS WSC were present for this meeting. It was decided by the group that CRWA would carry the project forward, and the request to make that change was forwarded to HDR.

AGENDA ITEM NO. 4: Region L Update

Erin Newberry reported that the most recent Region L meeting was held on August 1. The group heard updates from Matt Nelson with the Texas Water Development Board (TWDB) and Robert Gulley with the Edwards Aquifer Authority. Also at that meeting, the group reviewed nominations and selected new members to fill the 12 vacant slots on the planning group. The new members elected were: Dianne Wassenich for Public; Will Conley for Counties; Gená Leathers for Industry; Blair Fitzsimmons for Agriculture; Doug McGooky and David Roberts for Small Business; Suzanne Scott for River Authorities; Roland Ruiz, Tim Andruss, and Greg Sengelmann for Water Districts; and Steve Ramsey for Water Utilities. All those elected, will sit on the planning group for another five years. Erin also provided a breakdown of Region L representation by county. Lastly, the planning group decided to allow the Eagleford Shale Workgroup to complete their research and development of the recommendation outside of the planning group meeting.

Humberto asked about the timeline for the next Carrizo-Wilcox workgroup meeting, and Brian Perkins reported that after a conversation he had with Greg Sengelmann, HDR will be drafting a short technical memorandum for the workgroup to review and comment on. If the summary and recommendation outlined in the memo are approved by the workgroup than that will be presented to the Region L Planning Group in November.

The next meeting of the Region L Planning Group will be Thursday, November 7, 2013 at SAWS.

AGENDA ITEM NO.5: Presentation from HDR Engineering

Brian Perkins reviewed the updated schedule for the Region L planning group and noted that there are a couple items pertaining to population and water demand projections that are of interest. TWDB staff is expected to review all requested population and water demand revisions and present a recommendation to the new TWDB board in September. At that point the regional planning groups will finally be working with final projections. Brian also discussed the water management strategies being evaluated by HDR, and stated that there will be another round of strategies approved for evaluation in November and a small amount in February 2014. HDR's goal is to have 95% of all water management strategies evaluated, scoped and budgeted by February.

Brian reviewed the schedule for the remainder of the planning cycle. In 2014 HDR will evaluate water management strategies, and determine information on supply and cost. HDR will also begin drafting write-ups for approval by the Region L Planning Group in 2014, with the plan of drafting the Initially Prepared Plan (IPP) early 2015. The IPP will be presented for public comment in May 2015, and there will be one-to-three public hearings held before the Regional Water Plan is adopted.

Lastly, Brian reported that Phase 2 of the Water Demand survey will be sent to all water user groups within the next couple weeks to determine water needs. The survey will also request updated information on entities' water management strategies that were either included in the last regional water plan, or new water management strategies in development. The results of that survey will be presented to the regional planning group at the November meeting.

AGENDA ITEM NO.6: Regional Planning Process status and next steps

Brian Perkins covered the next steps in the planning process under the previous agenda item. The next Region L planning group meeting will be held November 7, and the planning group will be presented with phase 2 survey results and final municipal population and water demand projections.

AGENDA ITEM NO.7: New Business

With no new business the meeting was adjourned.

MINUTES RECOMMENDED FOR APPROVAL BY THE SECRETARY.

Avery Lunsford, Secretary

AGENDA ITEM NO. 3

Presentation from Mark Lenz, National Weather Service-
Drought Update and Long Range Outlook

Drought and Long Range Outlook

Regional Water Alliance

Water Planning Meeting

San Antonio, Texas

November 14, 2013

Mark Lenz

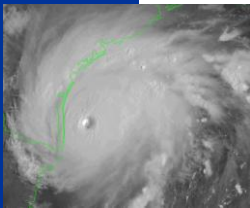
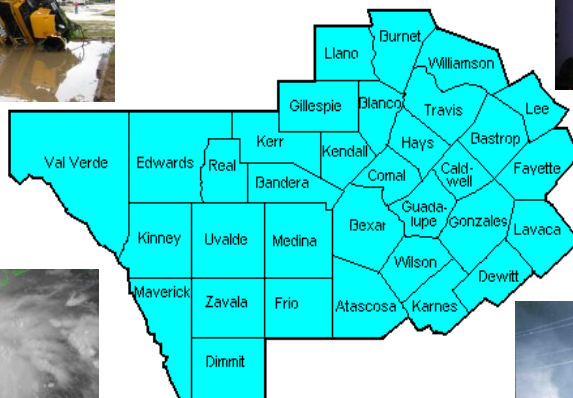
Senior Service Hydrologist

National Weather Service

Austin/San Antonio



Austin/San Antonio National Weather Service Office



NWS Forecast



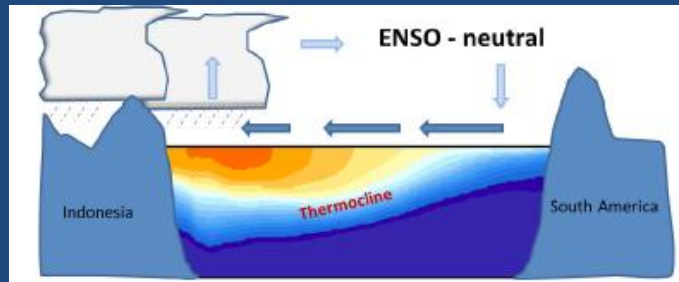
- Severe Warnings
- Public forecast
- River Stage
- Aviation forecast
- Air Quality/Hazmat
- Fire Weather

✓ Climate Patterns

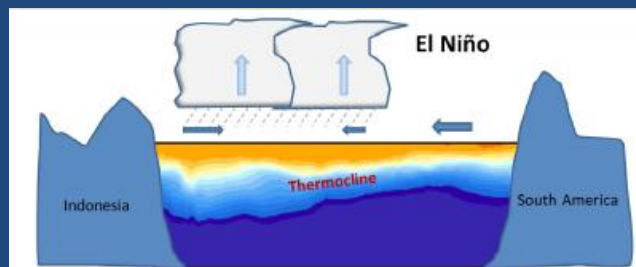
✓ Current Status – Drought/Lakes/Aquifer

✓ Outlook - Short Term/Long Term





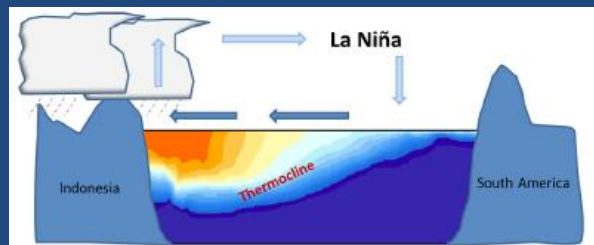
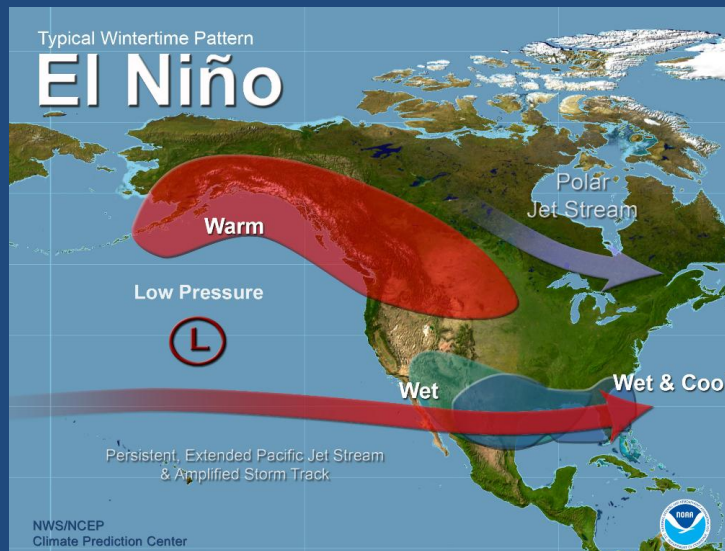
Enso-neutral – Strong trade winds blow from the east along the equator, pushing warm water into the western Pacific.



El Niño conditions occur when abnormally warm waters accumulate along the equator in the central and eastern Pacific Ocean associated with the weakening of the low-level easterly winds. Tropical rains that usually fall over Indonesia shift eastward.



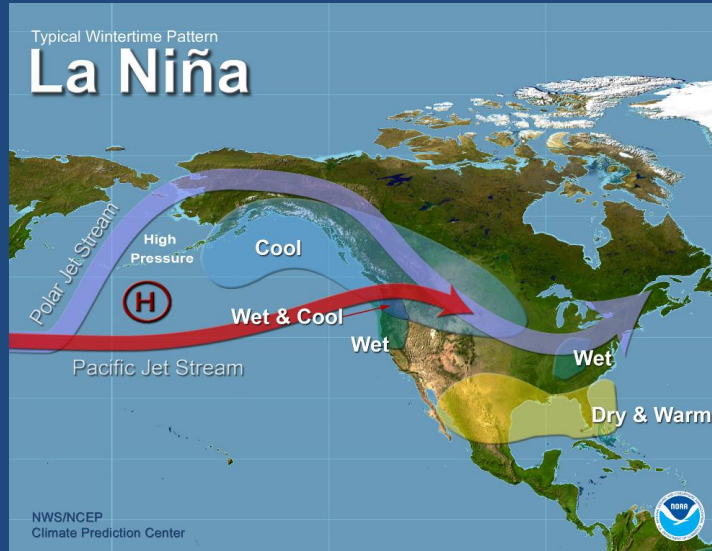
El Niño



La Nina conditions occur when cooler-than-average waters accumulate in the central and eastern Pacific, associated with the strengthening of the low-level easterly winds over the central tropical Pacific. Heavy rainfall is seen over Indonesia and Malaysia.

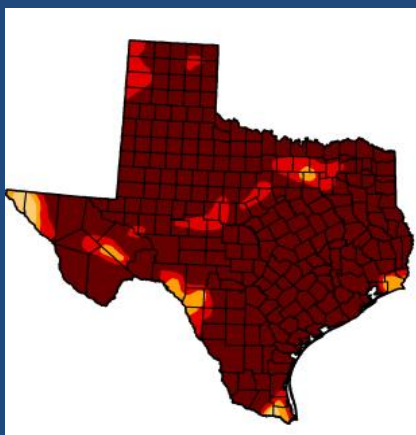


La Niña



Drought Monitor Map – September 13, 2011

<http://www.drought.unl.edu/dm/monitor.html>



Intensity:

- | | |
|--|--|
| D0 Abnormally Dry | D3 Drought - Extreme |
| D1 Drought - Moderate | D4 Drought - Exceptional |
| D2 Drought - Severe | |

Outdoor Burn Bans

September 20, 2011



Email updates to:
burnban@tfs.tamu.edu

- Counties without Undeclared Burn Bans
- Counties with Undeclared Burn Bans



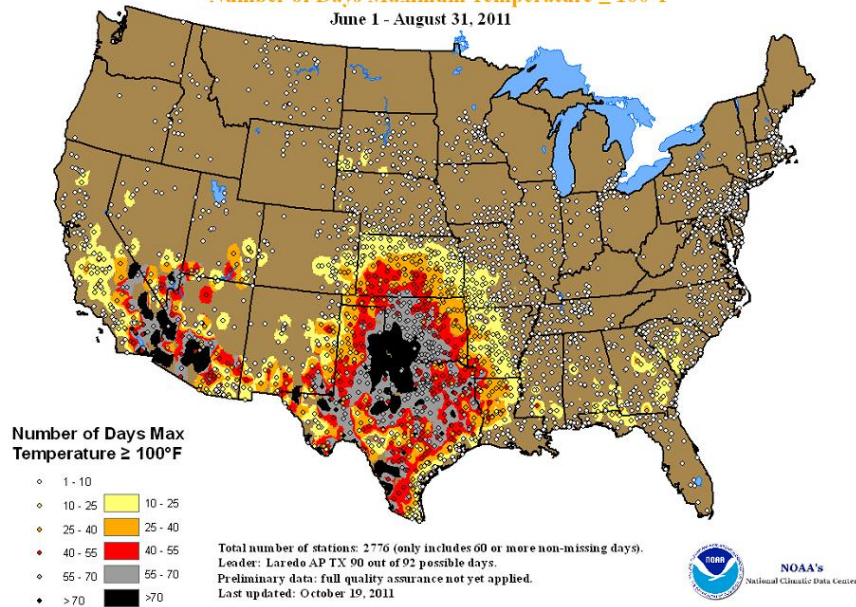
DISCLAIMER
County burning bans are established by County Judges and/or County Commissioners/Courts. The Texas Forest Service is not responsible for establishing or enforcing burning bans. The Texas Forest Service is only displaying this information as a public service.
For More Information Please Contact Your Local County Judge's Office

<http://tfsfrp.tamu.edu/wildfires/decban.png>

Persistent Heat Engulfs Much of the Nation - Summer 2011

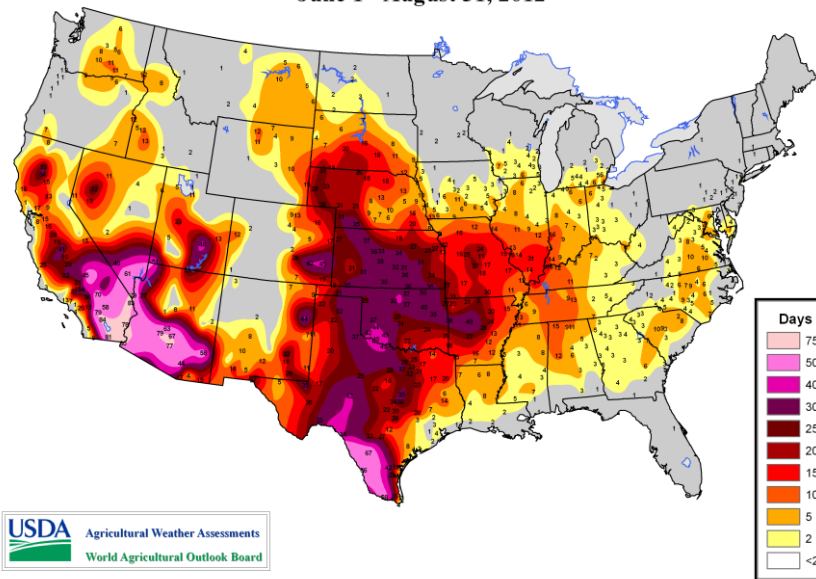
Number of Days Maximum Temperature $\geq 100^{\circ}\text{F}$

June 1 - August 31, 2011



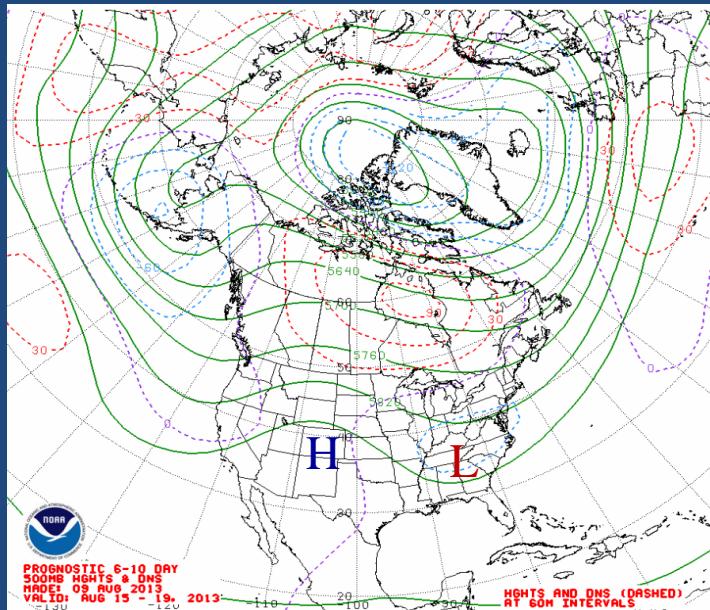
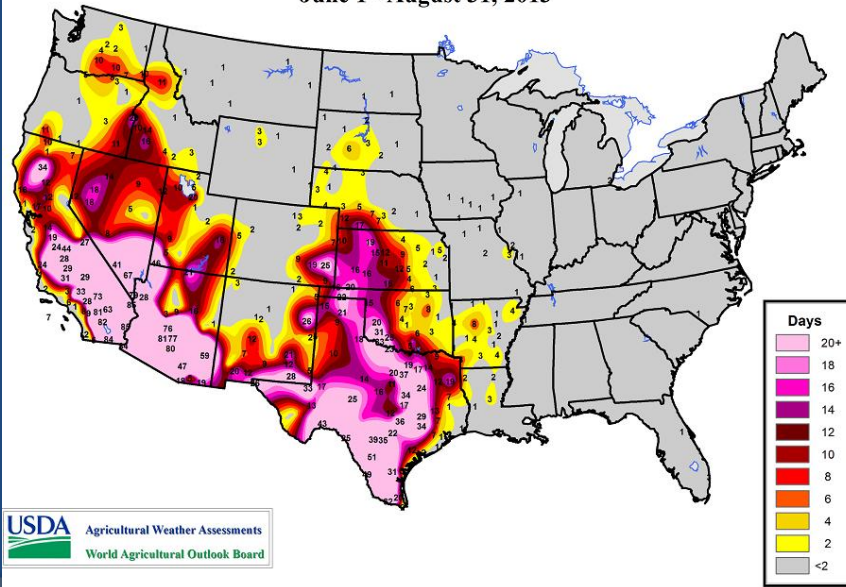
Number of Days $\geq 100^{\circ}\text{F}$

June 1 - August 31, 2012



Number of Days $\geq 100^{\circ}\text{F}$

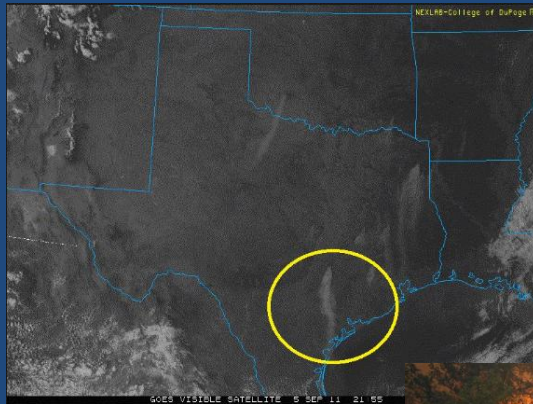
June 1 - August 31, 2013



<http://www.cpc.ncep.noaa.gov/products/predictions/610day/610day.03.gif>

October 1, 2010 through August 31, 2011

- New Braunfels (BAZ) – Driest 8.08"
- College Station (CLL) – 3rd Driest 12.57"
- Austin Mabry (ATT) – 2nd Driest 11.02"
- Del Rio (DRT) – 8th Driest 6.68"
- **San Antonio (SAT) – Driest 7.78"**
- Austin Bergstrom (AUS) – 3rd Driest 9.78"
- City of Houston (IAH) – 2nd Driest 16.72"
- Houston Hobby (HOU) – 7th Driest 21.91"

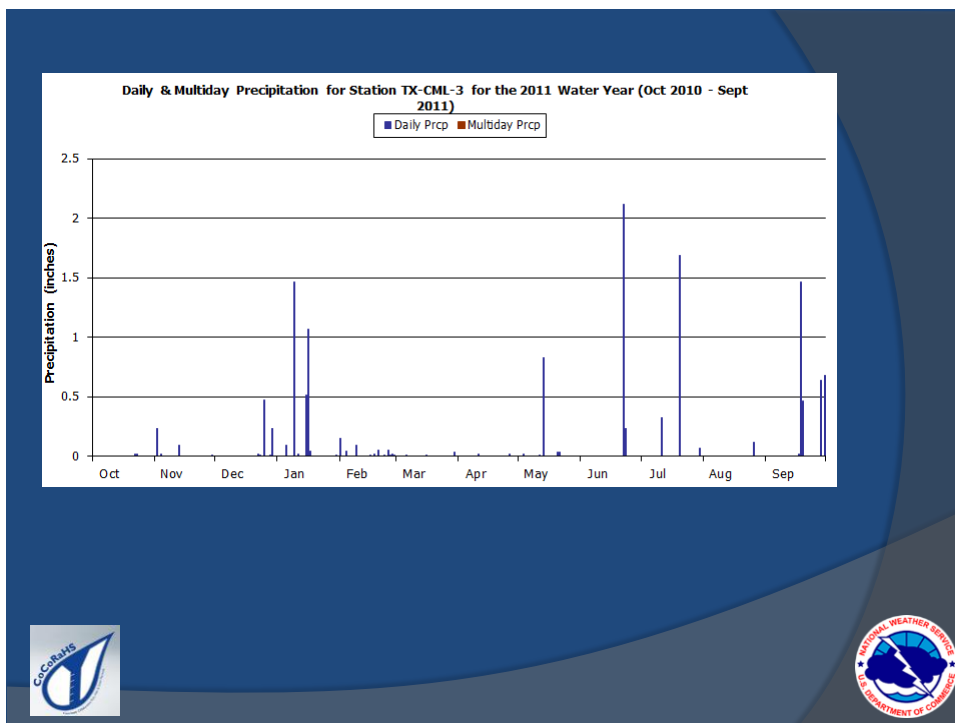
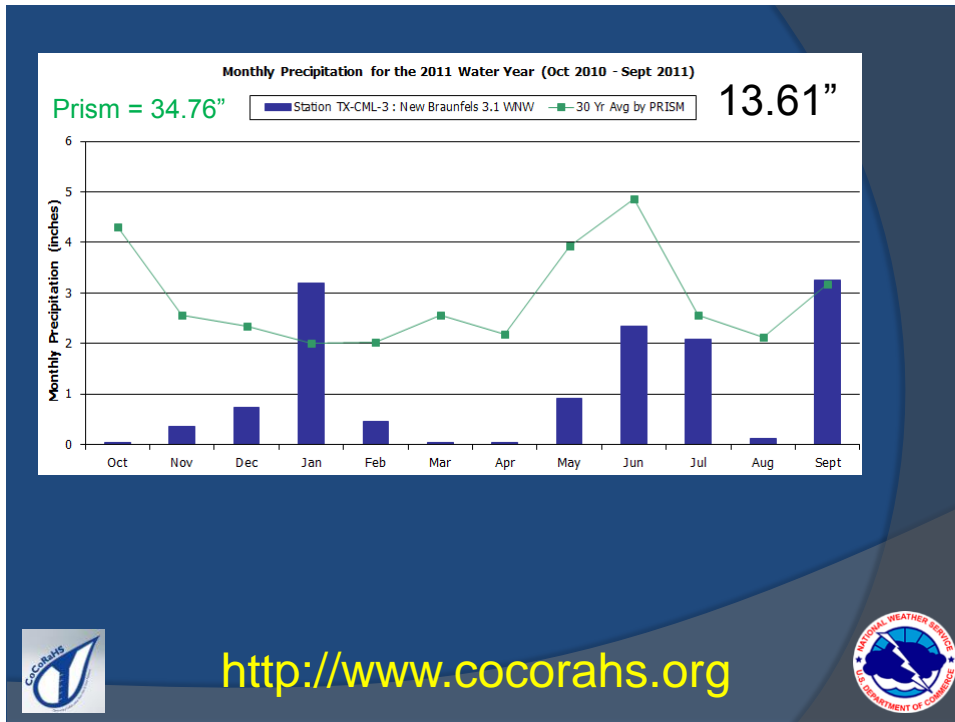


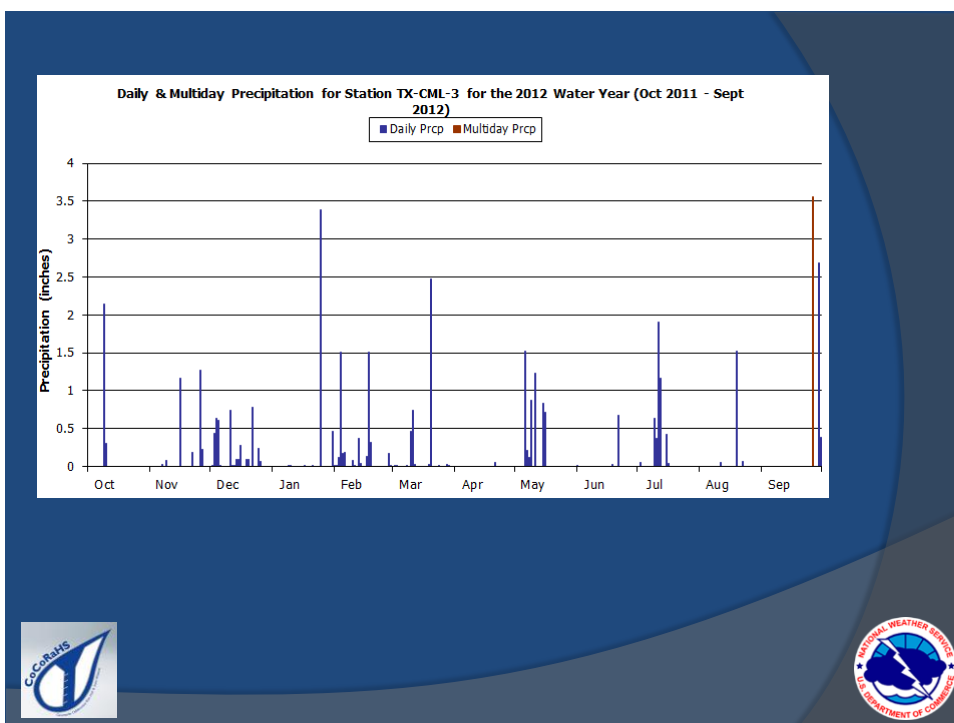
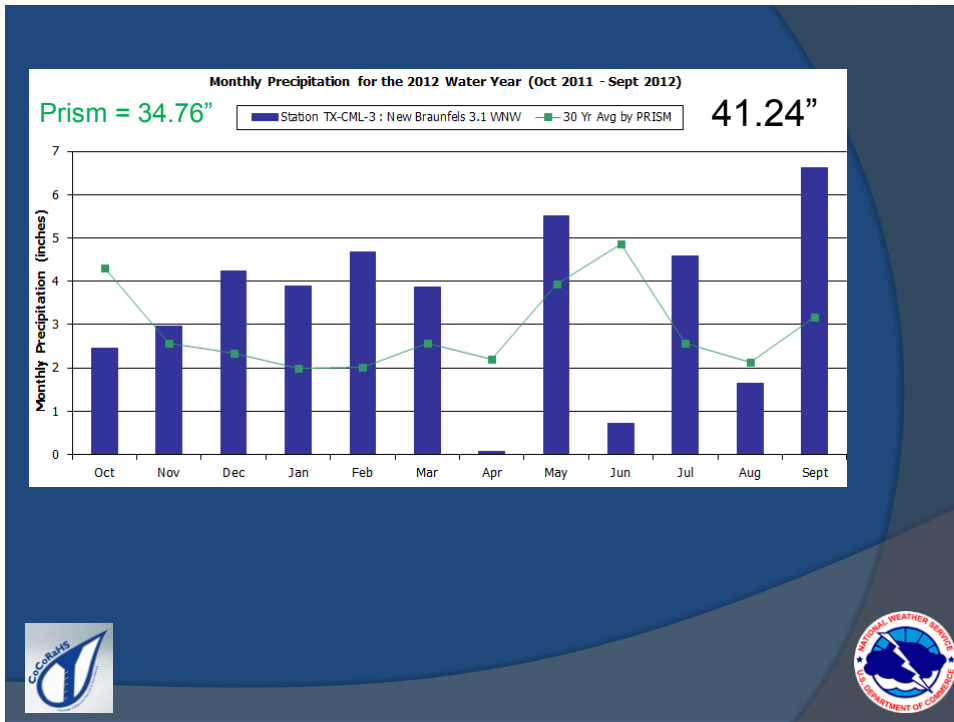
Visible Satellite

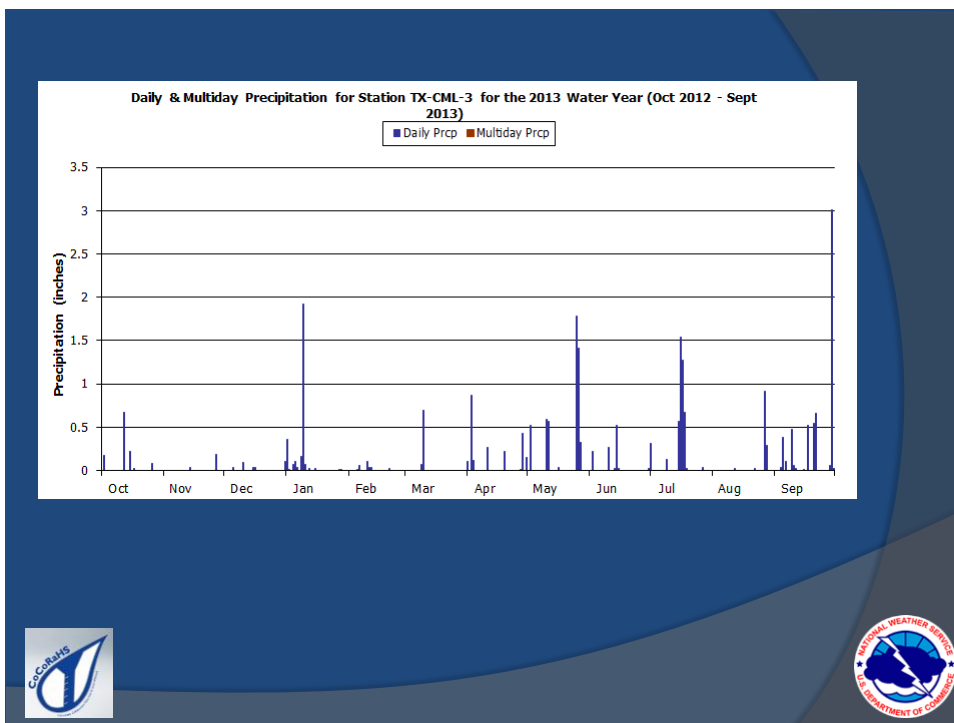


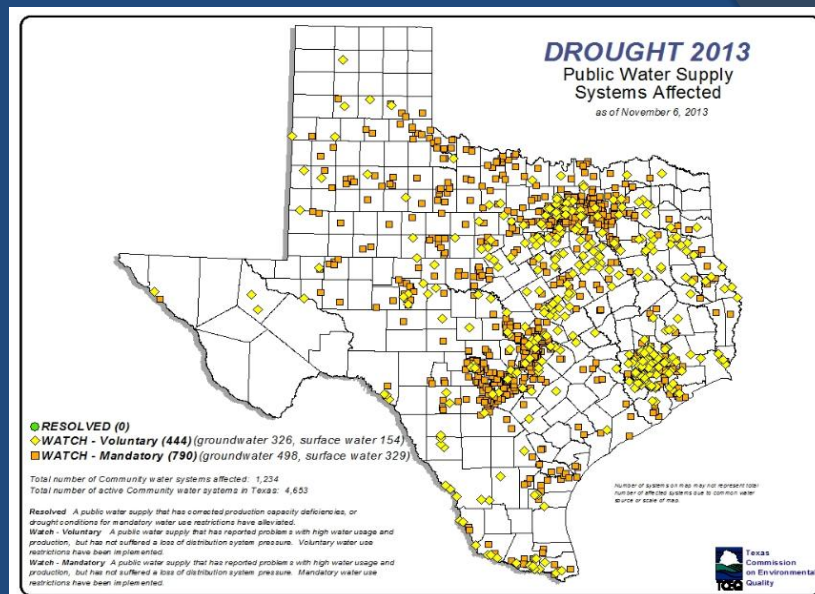
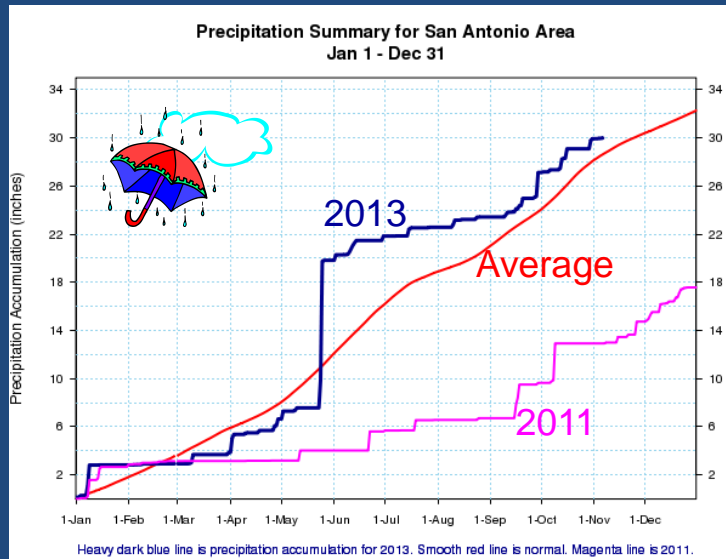
Bastrop Wildfire
September 2011







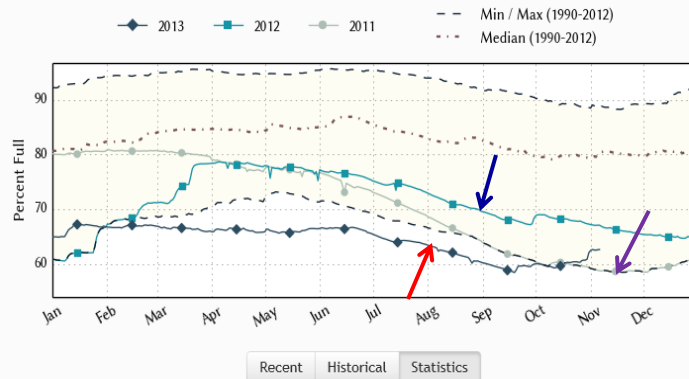




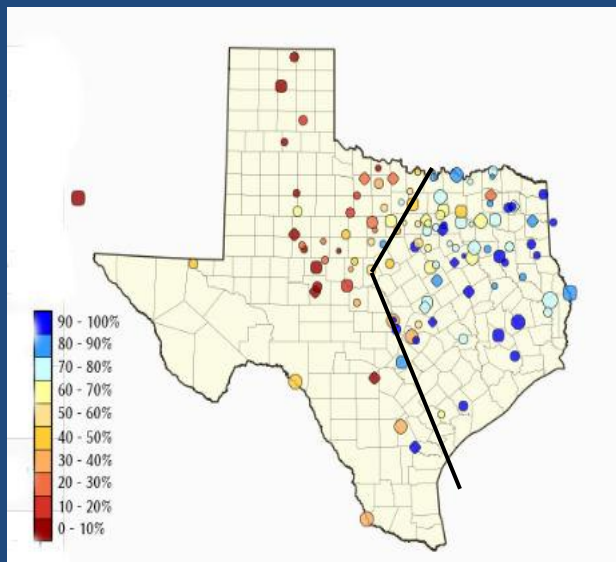
<http://www.tceq.texas.gov/drinkingwater/trot/location.html>

Texas Reservoirs

Monitored Water Supply Reservoirs are 62.6% full on 2013-11-06



<http://waterdatafortexas.org/>



Most Reservoirs west of a line from Wichita Falls to Corpus Christi are less than 30% full!





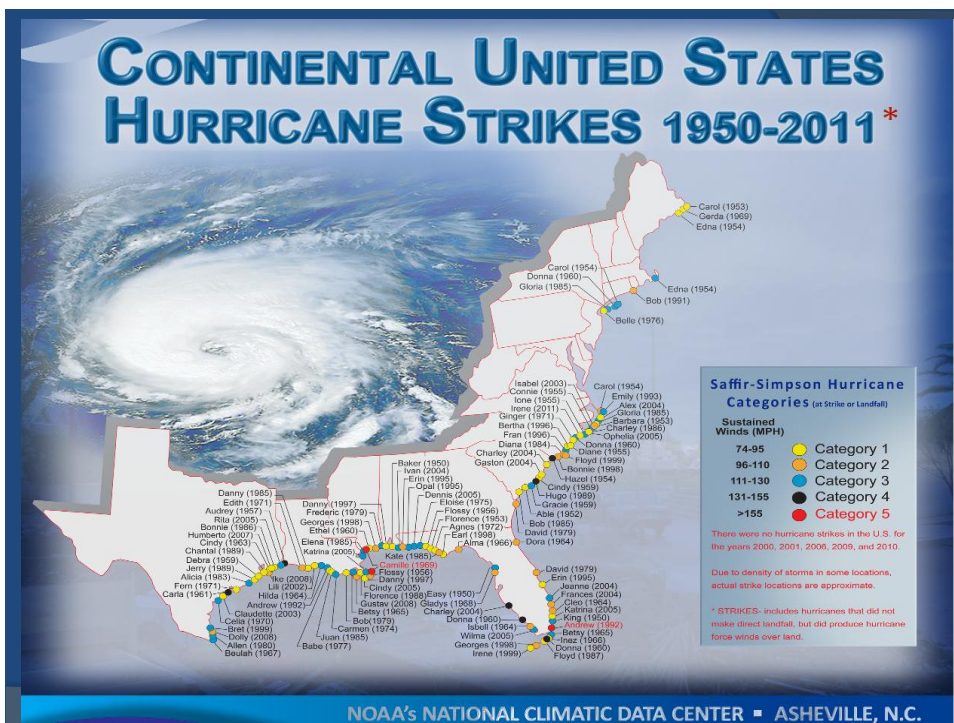
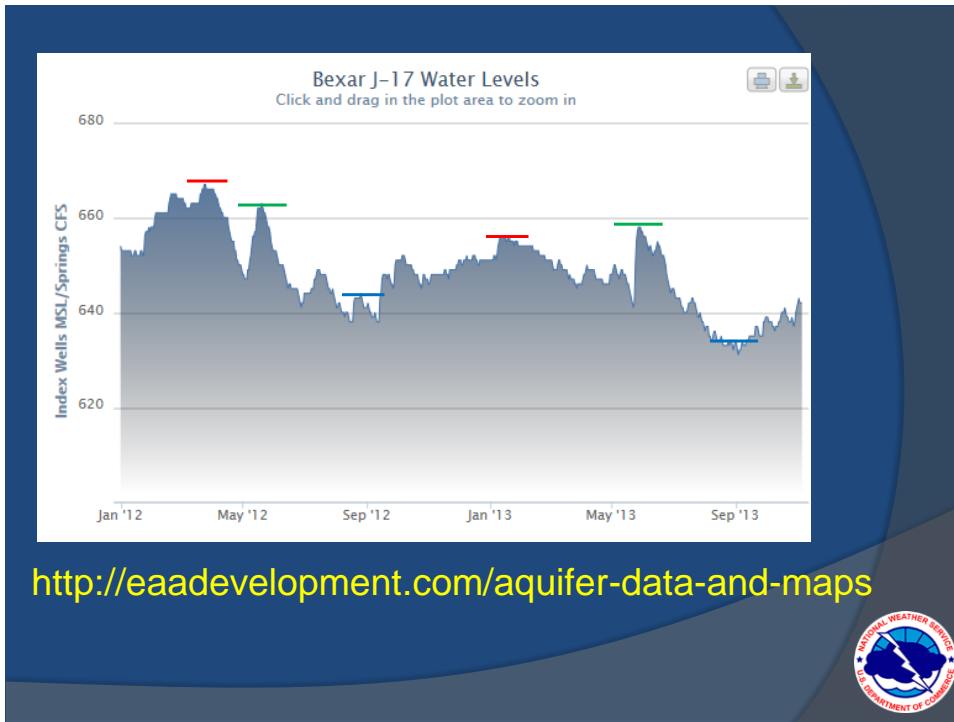
Location	Normal Pool	Current Level	Difference
Medina Lake	1064.20	977.3	-86.9 ft
Canyon Lake	909.00	901.7	- 7.3 ft

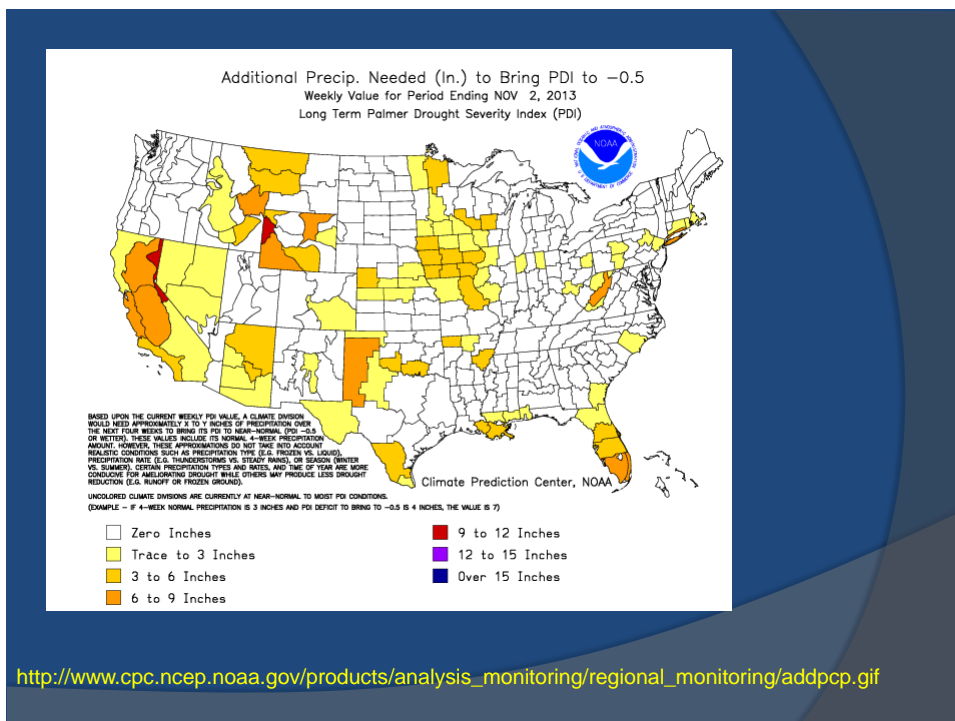
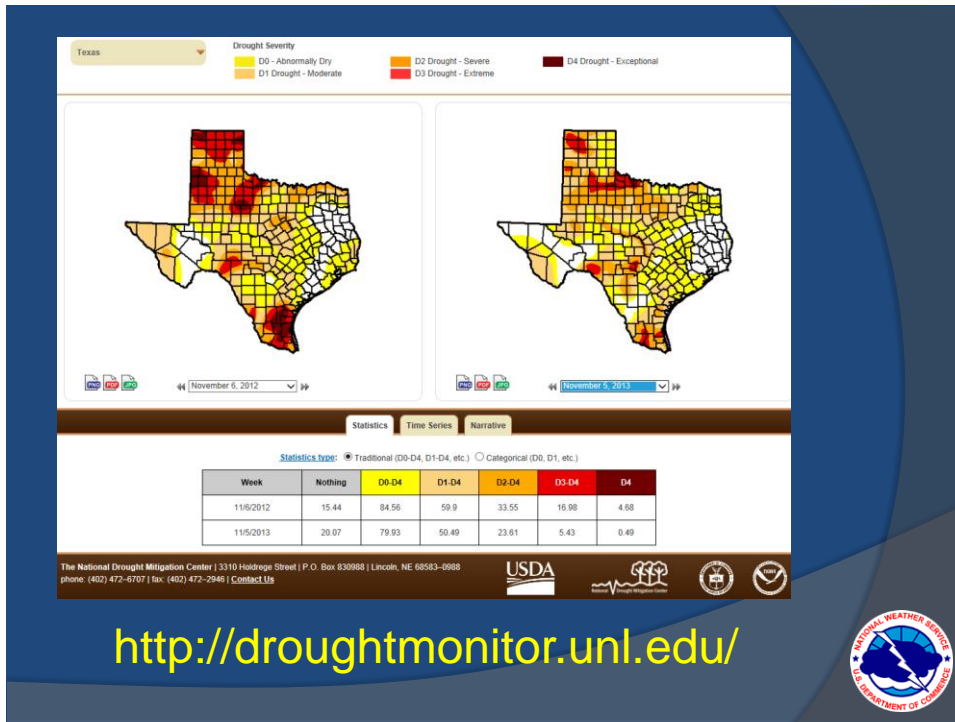
Medina Lake

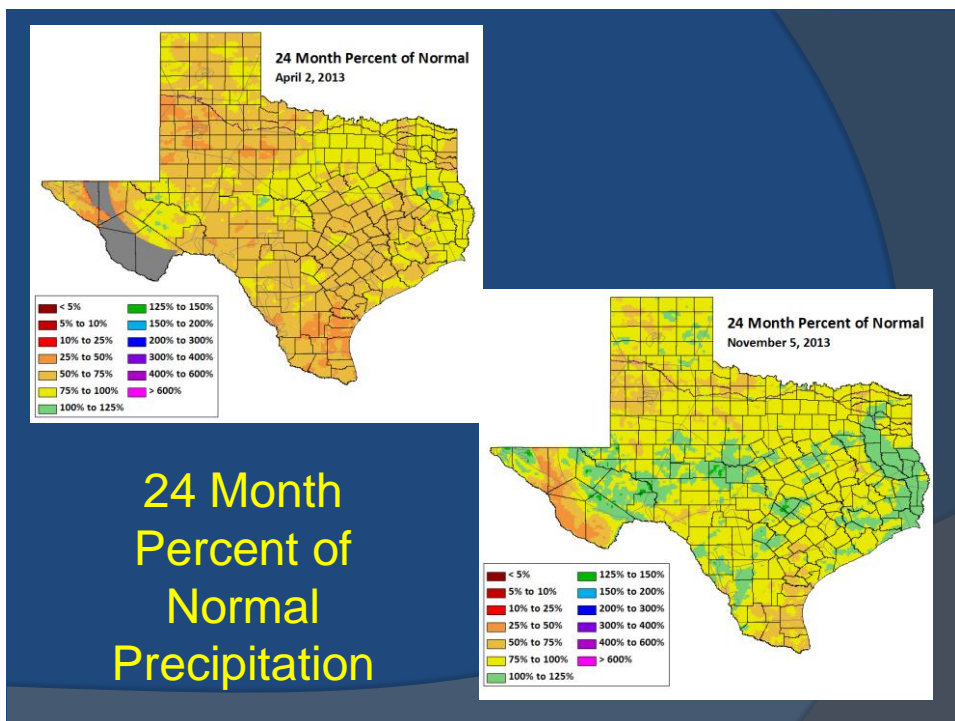
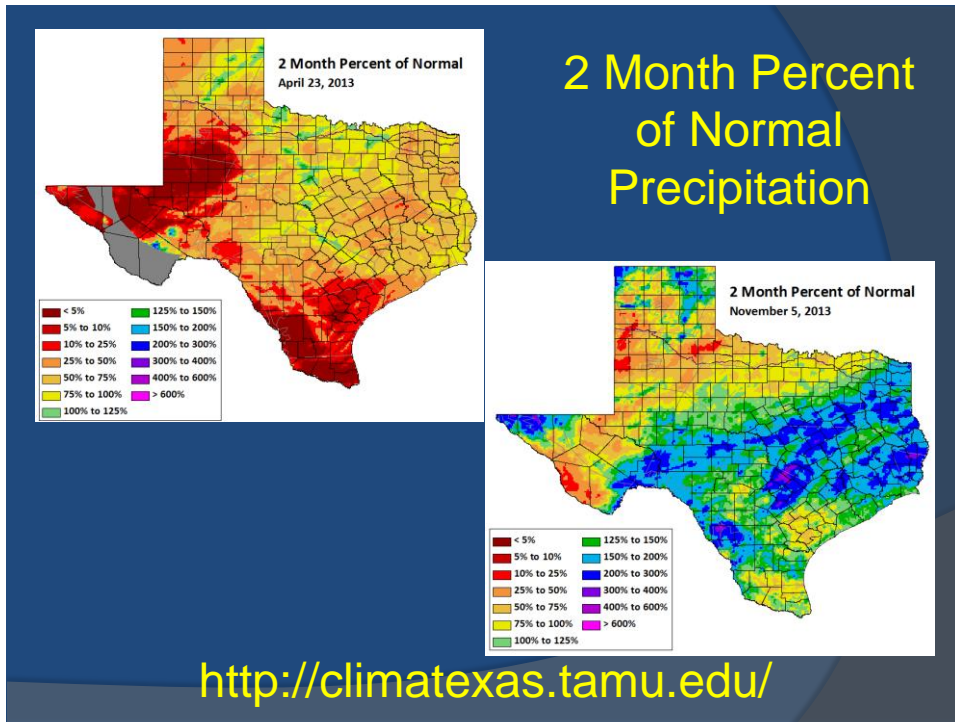


- ❑ Medina Lake 4.0% of Capacity
- ❑ 86.9 ft below normal pool





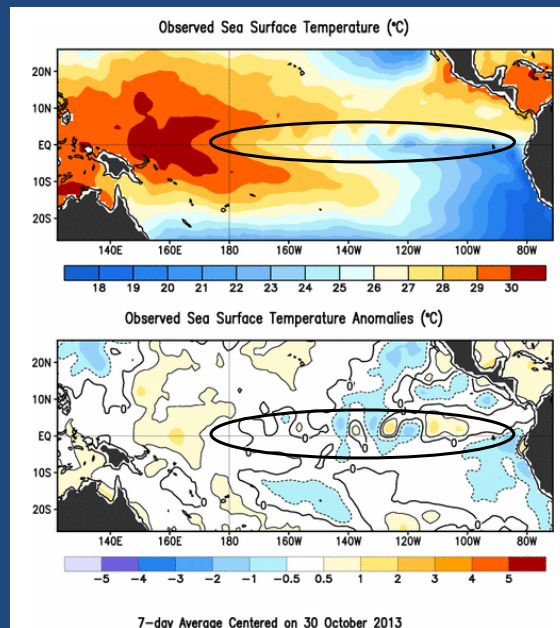




May 25, 2013
San Antonio Flooding



Bastrop Wildfire
September 2011



http://www.cpc.ncep.noaa.gov/products/analysis_monitoring/lanina/

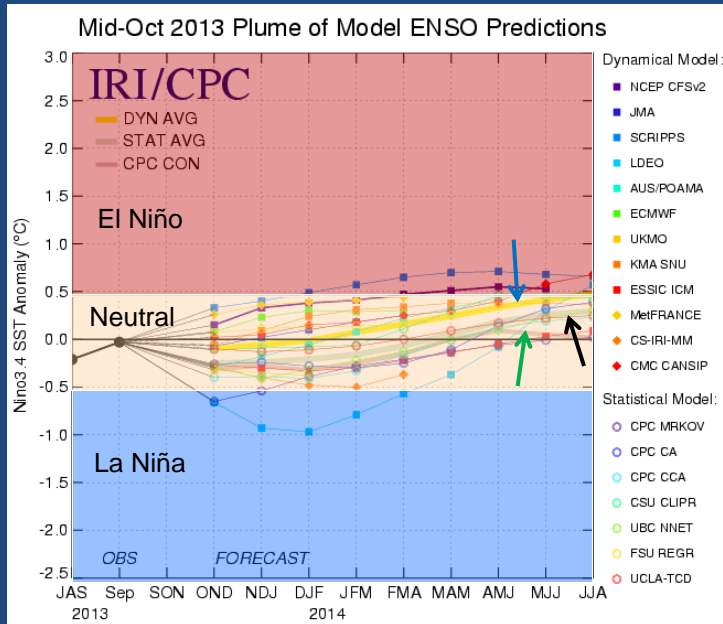
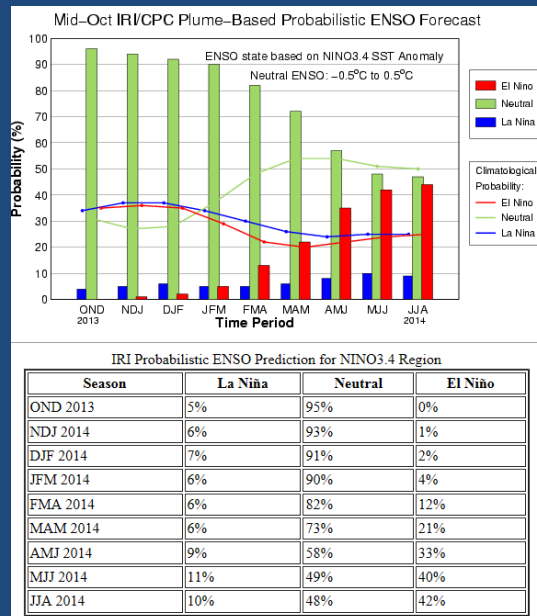


Figure provided by the International Research Institute (IRI) for Climate and Society (updated 18 October 2013).

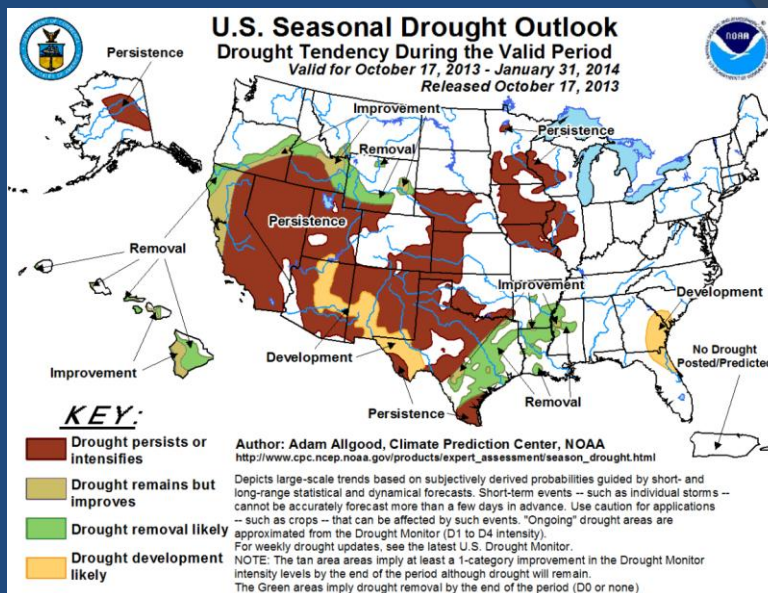
http://iri.columbia.edu/climate/ENSO/currentinfo/SST_table.html



<http://iri.columbia.edu/climate/ENSO/currentinfo/figure3.html>

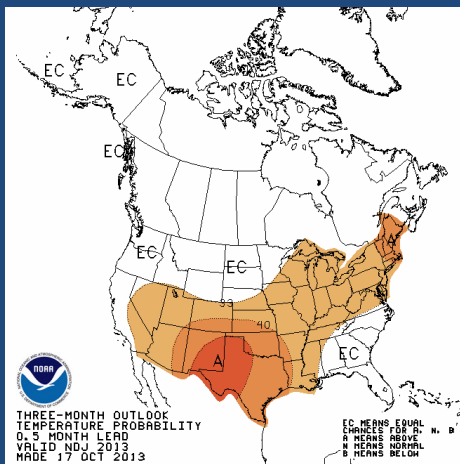
Climate Prediction Center (CPC) ENSO Outlook Winter into Spring

- ❑ ENSO-neutral conditions continue.
- ❑ Equatorial sea surface temperatures (SST) are near average across much of the equatorial Pacific Ocean.
- ❑ ENSO-Neutral is expected into the Northern Hemisphere Spring 2014.

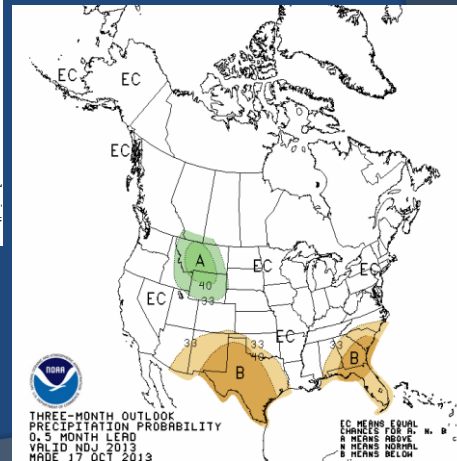


http://www.cpc.ncep.noaa.gov/products/expert_assessment/season_drought.png

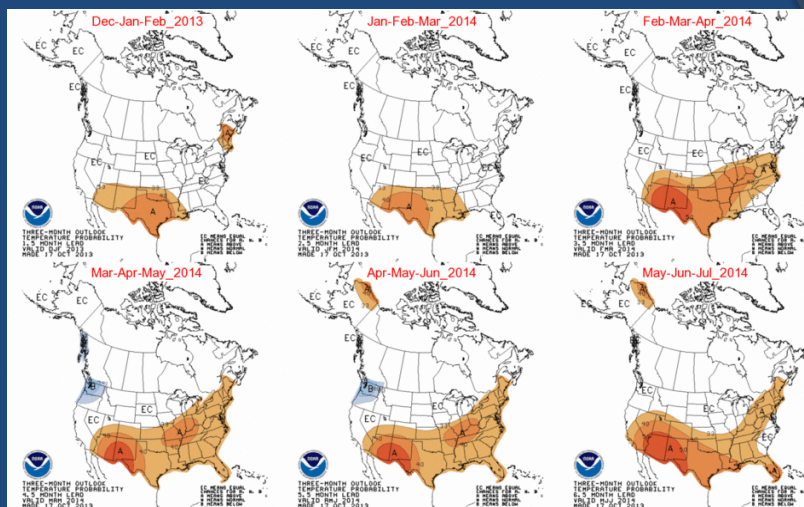
Temperatures



Precipitation

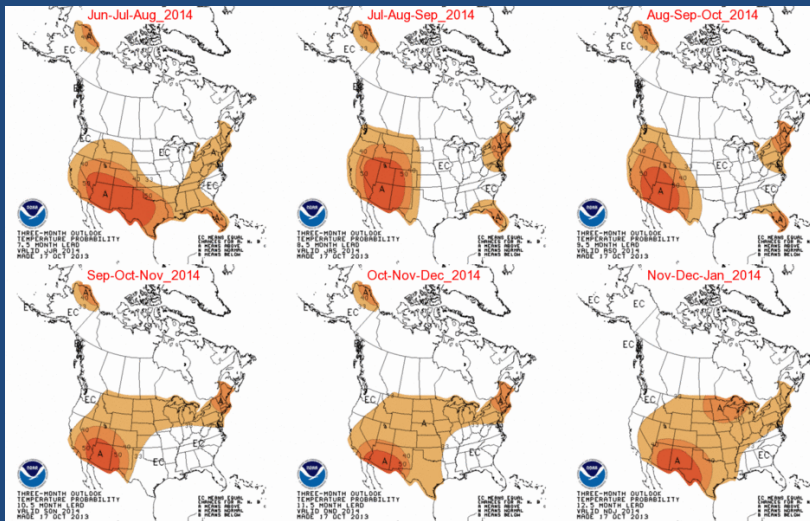


Temperatures

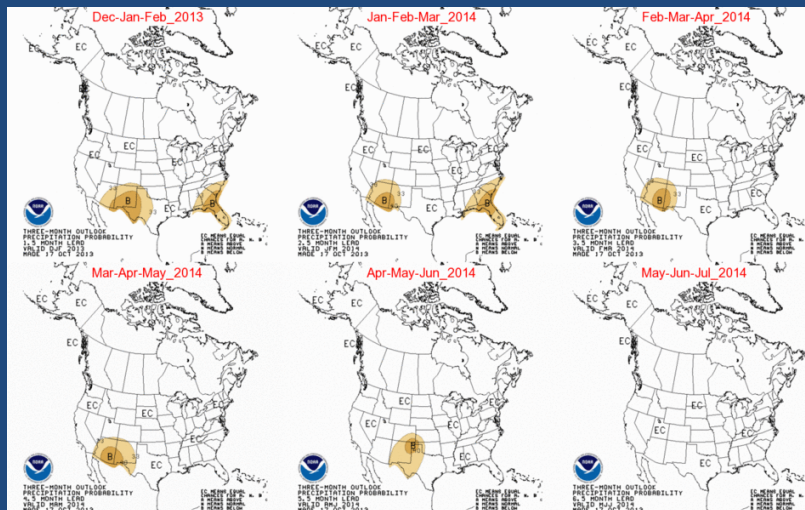


http://www.cpc.ncep.noaa.gov/products/predictions/multi_season/13_seasonal_outlooks/color/t.gif

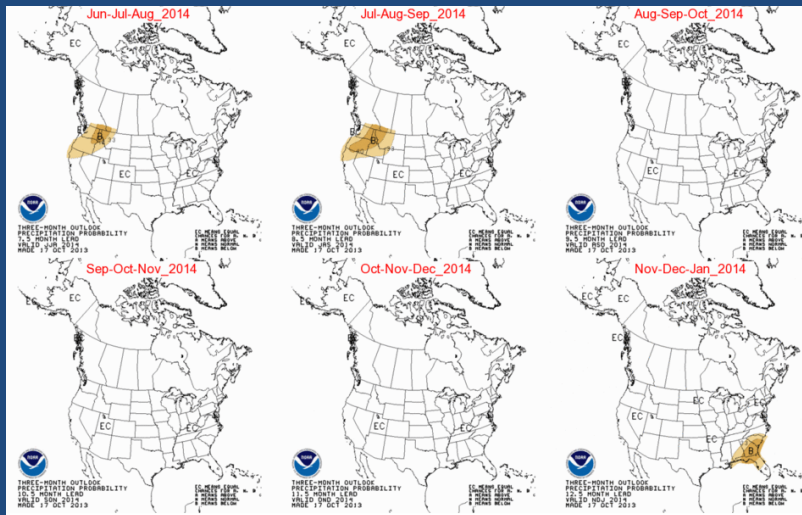
Temperatures



Precipitation



Precipitation





Contact Information:

Mark.Lenz@noaa.gov

830.629.0130 X228

www.srh.noaa.gov/sanantonio



AGENDA ITEM NO. 4

Region L Administrative Update and
Recap of November 7 meeting

AGENDA ITEM NO. 5

Presentation from HDR Engineering

Results of Revision Requests
**Final Municipal Population
and Water Demand
Projections**

***2016 South Central Texas Regional
Water Plan***

November 7, 2013

Timeline

- **August 1, 2013 – Region L Planning Group Mtg;
Requests approved for submittal**
- **August & September 2013 – HDR and TWDB work
together on revision requests**
- **September 23, 2013 – Staff finalizes their
recommendations to the Board**
- **October 17, 2013 – TWDB approves Staff
recommendations**

Eagle Ford Shale Requests

- **County-wide water demand projection revisions:**
 - DeWitt
 - Dimmit
 - Goliad
 - Gonzales
 - Karnes
 - La Salle
 - Refugio
- **HDR worked with TWDB to allocate county-wide revisions to individual WUGs**
- **TWDB accepted all EFS revision requests**

Approved Revision Requests

- **Converse (Population & Water Demand)**
- **Schertz (Population & Water Demand)**
- **Fair Oaks Ranch (Population & Water Demand)**
- **San Marcos (Population & Water Demand)**
- **Plum Creek Water Co (Population & Water Demand)**

Approved Revision Requests – Cont.

- **County-Other adjustments made include:**
 - Bexar (Population Only)
 - Caldwell (Population Only)
 - Comal (Population Only)
 - Hays (Population Only)
 - Kendall (Population Only)

Partially-Approved Revision Requests

- **Cibolo**

	2020	2030	2040	2050	2060	2070
Draft Population	18,702	22,485	26,356	30,141	33,994	37,777
Requested Population	37,000	54,800	71,200	89,000	106,800	122,800
Final Population	37,000	54,800	64,234	73,459	82,849	92,069

	2020	2030	2040	2050	2060	2070
Draft Water Demand (acft/yr)	2,729	3,239	3,776	4,303	4,844	5,379
Requested Water Demand (acft/yr)	5,343	7,823	10,136	12,650	15,167	17,431
Final Water Demand (acft/yr)	5,343	7,823	9,148	10,447	11,773	13,075

Revision Requests Not Approved

- Comal County (Population)
- Cotulla (Population & Water Demand***)
- La Vernia (Population & Water Demand)
- SS WSC (Population & Water Demand)

*** Note: Cotulla water demand projections were increased due to the Eagle Ford Shale revision

Regional Summary

- **17 Revision Requests by Region L**
 - 10 Entities + 7 EFS Counties
 - Resulted in 61 WUG Pieces to be considered for revision
- **Total Population**
 - 2040 - Increased from 3.841 million to 3.920 million (+2.1%)
 - 2070 - Increased from 5.119 million to 5.192 million (+1.5%)
- **Total Water Demands**
 - 2040 - Increased from 566k acft/yr to 582k acft/yr (+2.9%)
 - 2070 - Increased from 741k acft/yr to 754k acft/yr (+1.8%)

Phase 2 Survey Results

***2016 South Central Texas Regional
Water Plan***

November 7, 2013

Overall Survey Results

- **Survey Sent to 137 Total WUGs**
 - Sent on September 30th with a deadline of October 18th
 - Additionally, HDR has been working with all WWP
- **Survey Seen By 39 WUGs (28.5%)**
 - Along with WWP, represent 76.4% of Population
- **Seven (7) WUGs requested changes or provided information**
 - COUNTY LINE SUD
 - EAST MEDINA COUNTY SUD
 - GREEN VALLEY SUD
 - MCCOY WSC
 - SS WSC
 - SAN MARCOS
 - THE OAKS WSC

WUG Respondents

- | | |
|--|--|
| <ul style="list-style-type: none"> • ASHERTON • BENTON CITY WSC • CASTROVILLE • CIBOLO • COMAL COUNTY-OTHER • COTULLA • COUNTY LINE WSC • CREEDMOOR-MAHA WSC • EAST CENTRAL SUD • EAST MEDINA COUNTY SUD • FAIR OAKS RANCH • GARDEN RIDGE • GREEN VALLEY SUD • KARNES CITY • KENDALL COUNTY WCID #1 • KENEDY • MARION • MARTINDALE • MAXWELL WSC • MCCOY WSC | <ul style="list-style-type: none"> • NATALIA • NEW BERLIN • NEW BRAUNFELS • NIXON • PLEASANTON • PLUM CREEK WATER COMPANY • S S WSC • SAN MARCOS • SANTA CLARA • SCHERTZ • SEGUIN • SOMERSET • ST. HEDWIG • TERRELL HILLS • THE OAKS WSC • UNIVERSAL CITY • VICTORIA • WIMBERLEY WSC • YANCEY WSC |
|--|--|

Revision Requests

- **COUNTY LINE SUD**
 - Asked that their name be corrected.
 - Provided that they are part of HCPUA
- **EAST MEDINA COUNTY SUD**
 - Provided additional information regarding Edwards permits
- **GREEN VALLEY SUD**
 - Provided information regarding existing supplies & WMSs
- **MCCOY WSC**
 - Provided alternative demand projections & information about existing supplies

Revision Requests

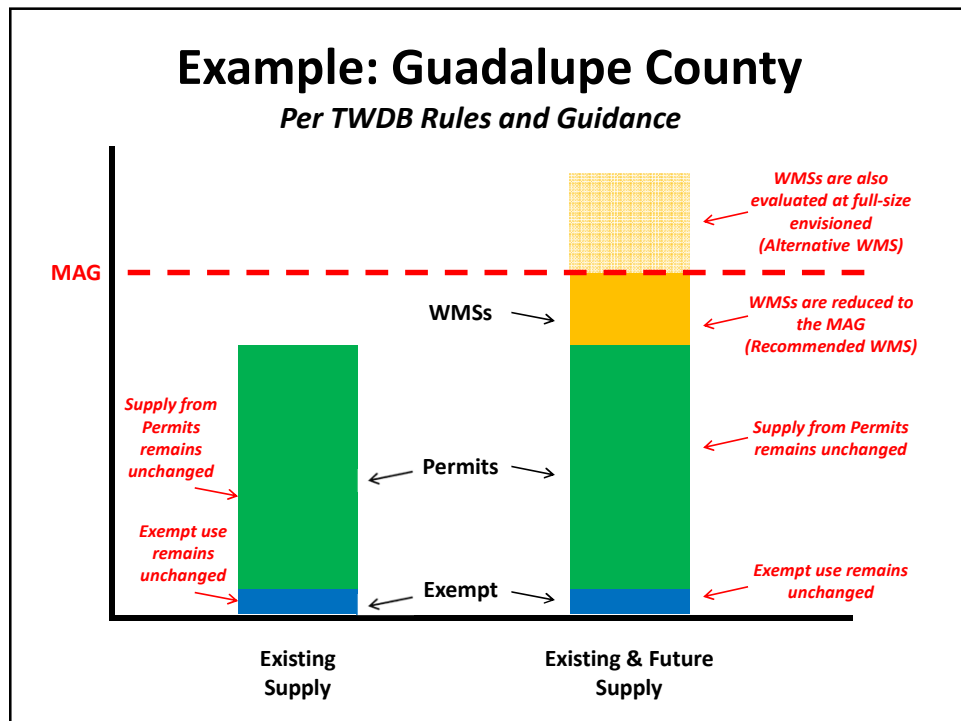
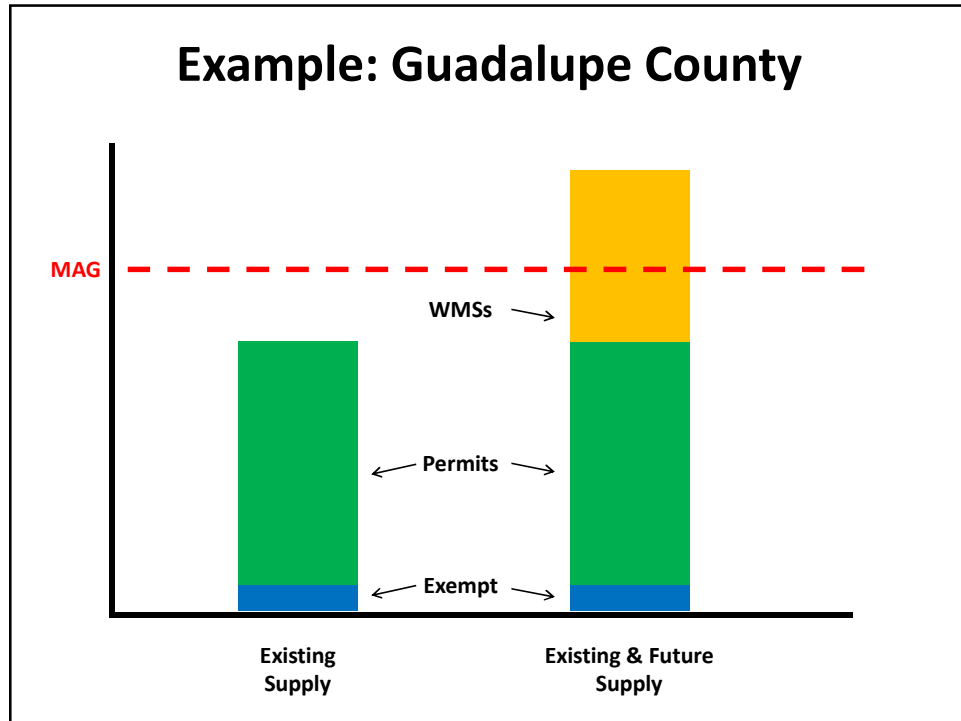
- **S S WSC**
 - HDR to follow up
- **SAN MARCOS**
 - Provided additional information to delineate San Marcos from Texas State University
- **THE OAKS WSC**
 - Provided information regarding their Wholesale connection with SAWS (existing supply)

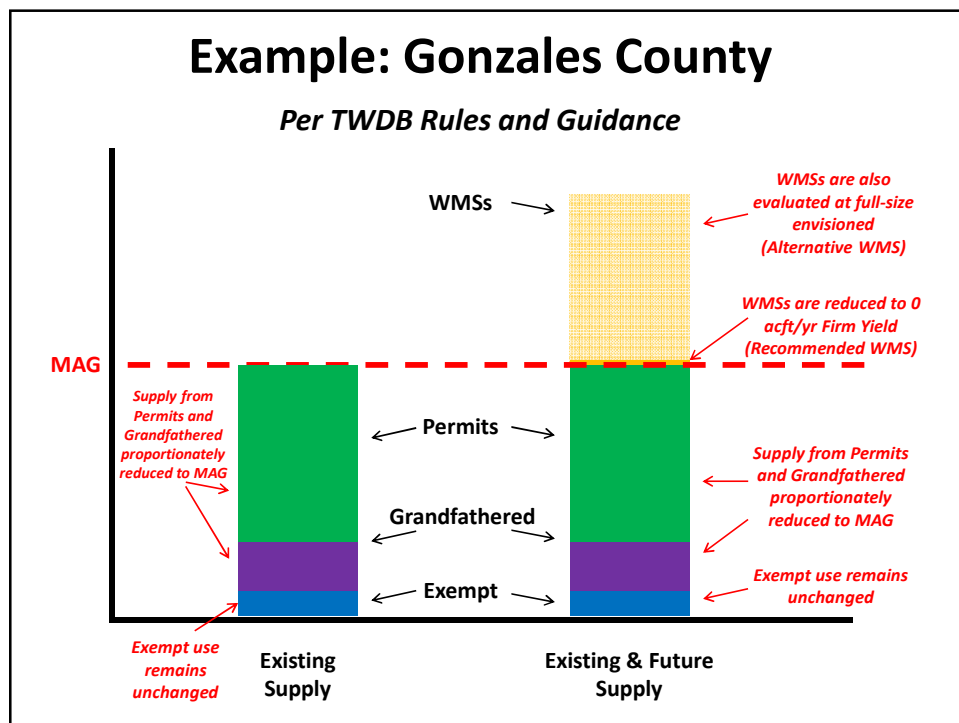
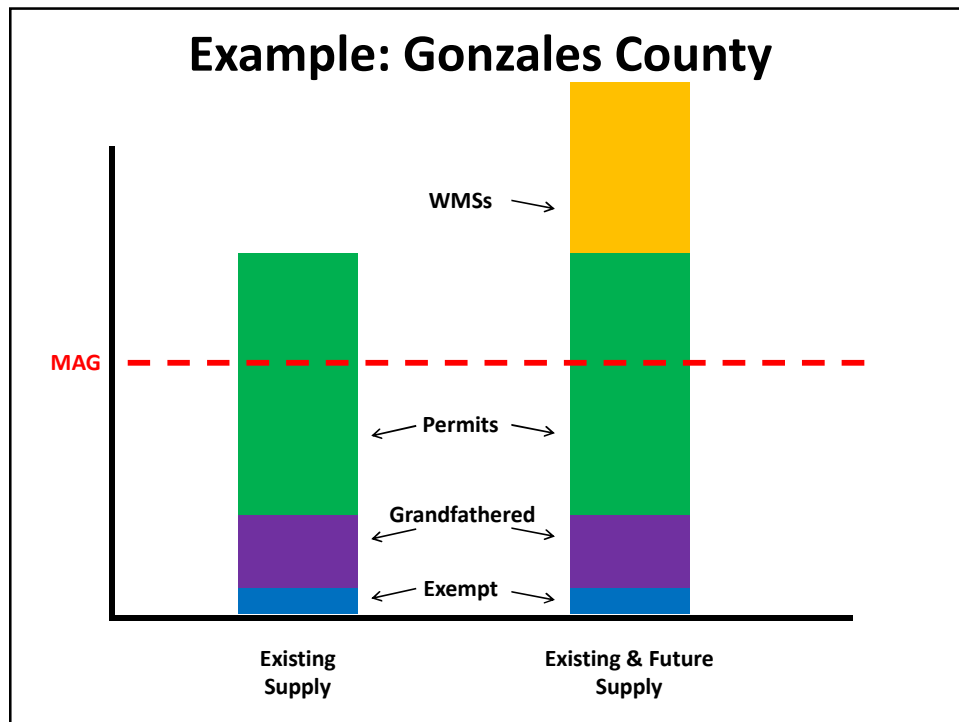
Carrizo Aquifer Workgroup Status Report

SCTRWPG Meeting
November 7, 2013

Status Report

1. TWDB rules and guidance necessitate resolution of issues with RWP presentation of:
 - a. Existing supplies (which affect Needs calculation)
 - b. Water Management Strategies
2. Establish procedures for compliance with TWDB rules and guidance in the Region L Plan
3. Develop explanatory language to protect the interests of all concerned
4. Workgroup recommendation for approval at February SCTRWP meeting





AGENDA ITEM NO. 6

Presentation from Ann Gabriel, Conservation Program
Manager, Texas A&M Department for Energy and
Environmental Sustainability



Edwards Aquifer Regional Water Conservation Program



Ann S. Gabriel, REM
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Background

The Edwards Aquifer Regional Water Conservation Program is one of the activities of the Edwards Aquifer Habitat Conservation Plan (EAHCP) organized to stabilize water availability from the Edwards Aquifer, while protecting the Endangered Species at the Comal and San Marcos Springs.




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Endangered Species




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THE FOUNTAIN DARTER




TEXAS WILD RICE



SAN MARCOS SALAMANDER




COMAL SPRINGS RIFFLE BEETLE - ADULT
Photo courtesy of Texas Parks and Wildlife Department




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Endangered Species




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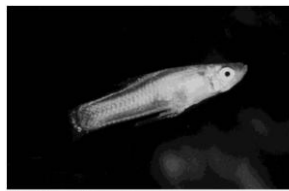
TEXAS BLIND SALAMANDER




COMAL SPRINGS DRYOPID BEETLE - ADULT
Photo courtesy of Texas Parks and Wildlife Department



PECK'S CAVE AMPHIPOD
Photo courtesy of Texas Parks and Wildlife Department




SAN MARCOS GAMBUSIA




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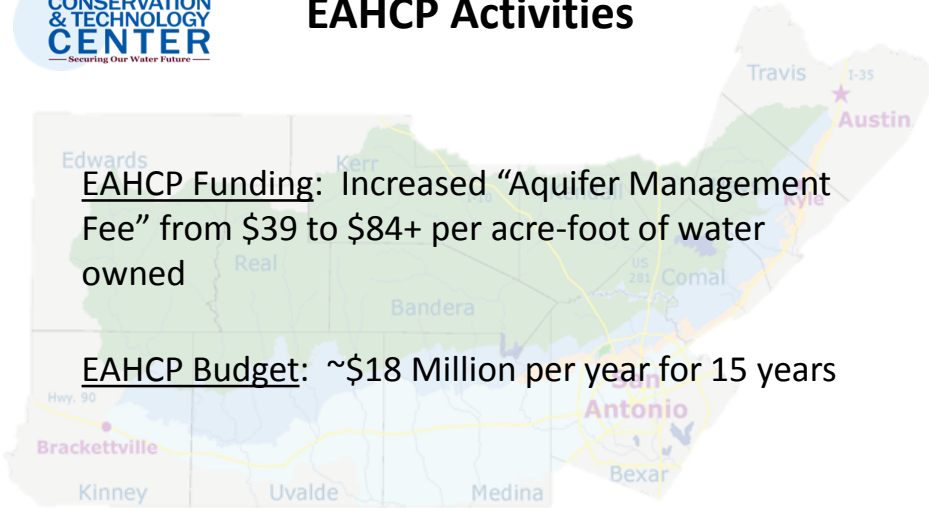


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EAHCP Activities




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EAHCP Funding: Increased “Aquifer Management Fee” from \$39 to \$84+ per acre-foot of water owned


EAHCP Budget: ~\$18 Million per year for 15 years



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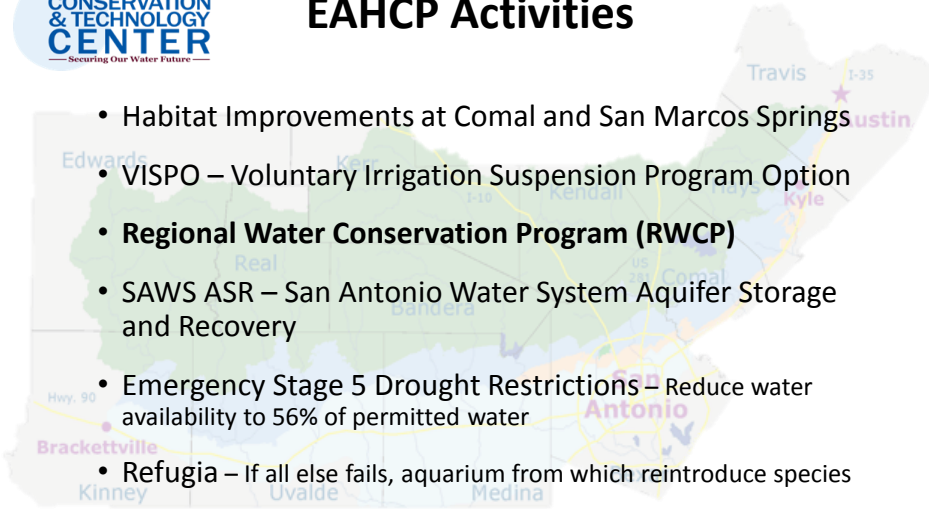


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EAHCP Activities




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- Habitat Improvements at Comal and San Marcos Springs
- VISPO – Voluntary Irrigation Suspension Program Option
- **Regional Water Conservation Program (RWCP)**
- SAWS ASR – San Antonio Water System Aquifer Storage and Recovery
- Emergency Stage 5 Drought Restrictions – Reduce water availability to 56% of permitted water
- Refugia – If all else fails, aquarium from which reintroduce species



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Regional Water Conservation Program




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Goal: Conserve an extra 20,000 acre-feet of water in the Region by expanding water conservation efforts

Outcome: 10,000 acre-feet – at least ½ of the water – to remain in the Aquifer for 15 years to protect spring flows


Program has immediate, positive impact because SAWS, San Marcos, and Texas State University “loaned” approximately 10,000 acre-feet for 10 years



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Conservation Activities




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Selected because of the successful water savings performance by San Antonio and other Regional entities. Also selected because the BMPs have documented water savings established through research and/or technology assessment.

- Leak Detection and Lost Water Reduction
- Commercial, Industrial or Institutional Technological Changes
- High Efficiency Toilets, Showerheads and Aerators
- Graywater, Rainwater or Condensate Catchment and Use



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Leak Detection and Lost Water Reduction



Leak detection and lost water surveys and/or implementing leak detection and lost water improvement plans.

Shared costs for surveys, meter replacement, and leak repairs, as well as assistance with identification of additional funding sources will be provided.



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Commercial, Industrial, or Institutional Technological Changes



Incentive rebates offered for equipment and/or process changes that result in water savings.

Cost and water savings analysis completed by firm's engineers and verified by Texas A&M engineers prior to rebate payment.



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High-Efficiency Toilets Showerheads and Aerators



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Get Some
AIR

- 12,600 gallons per year for residential conversion of toilets
- 10,850 gallons per year for residential conversion of showerheads and sink faucet aerators




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Graywater, Rainwater or Condensate Catchment and Use




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Incentive rebates for graywater retrofit or graywater, rainwater and/or condensate systems installed at time of construction.




Storage is required for rainwater and condensate systems; storage volume determines rebate amount. Storage is also helpful for graywater systems.



Costs per acre-ft can be high.

Exempt well owners are targeted.



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RWCP Components



- Community Assessments and Programs
- Large Water Purveyor Program
- Region Wide School, Hospital, Restaurant, or Hotel/Motel Program
- Exempt Wells Program



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Texas Center for Applied Technology
<http://tcat.tamu.edu>

Texas A&M Water Conservation & Technology Center
<http://wctc.tamu.edu>




Edwards Aquifer Authority
<http://www.edwardsaquifer.org>

Edwards Aquifer Habitat Conservation Plan
<http://www.eahcp.org>





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QUESTIONS?





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AGENDA ITEM NO. 7

New Business