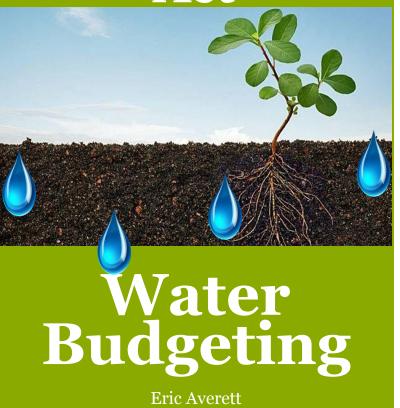
Sustainable Groundwater Management Act



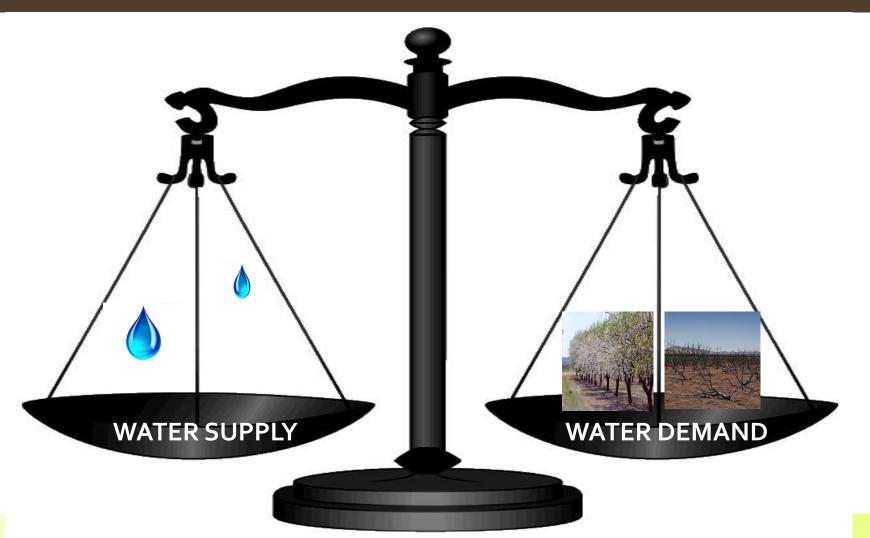








The Groundwater Sustainability Plan "GSP"



Water Supply

(District Info)

Budgeting Requires

Kequires

Accurate Data!

Water
Demand
(Satellite ET)

APN Based Water Budget Platform

(Landowner Access)

Water Trading

Open & Transparent

Billing

Rosedale-Rio Bravo Water Storage District

Water Budgets

Water Supply

Project Water

- Surface water developed by Rosedale-Rio Bravo
- May not be carried-forward (subject to reconciliation at end of year)

Native Yield

Allocated share of groundwater in basin

Stored Water

Water developed or acquired by landowner (not project water) that may be carried forward

Reconciliation Water

• Rosedale will "reconcile" each APN at the end of the year. Any Project Water not utilized will be re-allocated amongst all APN's who's use exceeded their initial allocation proportional to acreage.

Rosedale-Rio Bravo Water Storage District

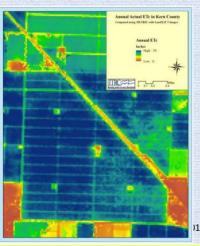
Water Budgets



- Demand on each APN is calculated using Evapotranspiration data
 - Data is collected every few (5-11) days
 - Data is interpolated between images
 - Calibration is critical to ensure field level accuracy
- Landowner may utilize well head metering (Appeal)
- Demand is computed over the course of the calendar year and is basis for water budget.
- January 1 December 31 ET "demand" is debited From initial "deposit"
- No "Carry-Over"
- Balance is re-allocated amongst all users proportional to acreage
- Deficit is billed at replacement water rate

Actual Evapotranspiration (ETc)

- · Field boundaries overlaid in GIS
- · Actual ET was extracted from ET raster outputs
- Monthly outputs
- · Summarized as April-October Total Actual ETc
- For three years



2019

Average Usage

Average usage from all years of OpenET data

- 1 Trade 2019-0046 needs to be registered [Register transfer]
- 1 Trade 2019-0045 A buyer is awaiting your response to their offer to purchase water. This offer expires in 5 days. [Respond to this offer]

Landowner Dashboard - Demo User

3808.5 ac-ft

User Showing data for year

Annual Water Budget Overvie	ew		
- Allocation	5,070.0 ac-ft		
Project Water	5,070.0 ac-ft		
Reconciliation	0.0 ac-ft		
Native Yield	0.0 ac-ft		
Stored Water	0.0 ac-ft		
Your annual allocated water budge	t		
Purchased			
Water supply you have purchased t	his year		
- Sold	300.0 ac-f		
*2019-0046 10/25	300 ac-ft		
Water supply you have sold this yea	эг		
Total Supply	4,770.0 ac-ft		
Allocation + Purchased - Sold			
* denotes a pending transaction			
Usage to Date	2,690.6 ac-ft		
Total usage this year as measured	by OpenET		
Current Available	2,079.4 ac-ft		
Allocation + Purchased - Sold - Us	sage to Date		

Price	Description		Status	Date	ade
				5.255	
\$75,000.00	Selling 300 ac-ft	ng Registration	Awaitir	10/25	19-0046
\$157,500.00	Selling 300 ac-ft	ountered	They co	10/25	19-0045
Active					tings
Price	Current Quantity	Initial Quantity	Status	е	ate Type

Rosedale-Rio Bravo Water Storage District

Water Budgets

Water Budget (as measured) Vs. Checkbook

CHALLENGE

- Water Budget based upon monitoring vs. "checkbook"
 - Groundwater levels are temporally and spatially disconnected from overlying use and right(s) to use.
 - Lack of.....or existence of undesirable results at a monitoring point may not indicative of "sustainability" for the GSA reporting.
 - White lands adjacent to a sustainable GSA
 - Lands within a sustainable GSA but adjacent to an area that is not sustainable
- Responsibility for Sustainability cannot go beyond a balanced checkbook