



Board Meeting

● ● ● | M O N D A Y , F E B R U A R Y 3 , 2 0 2 5



Quorum



Public Comment Period



Open Meeting

Consideration and Possible Action on Approval of the January 06, 2025 Board Meeting Minutes

J. HOLLMANN



General Manager's Report

- a. Operational, Chemical Optimization and Financial Report - J. Garza and J. Santillan
- b. Quarterly Investment Report - M. Camacho
- c. SRWA Grant Activity Update - M. Suarez
- d. Wellfield Performance and Well Rehabilitation - M. Esquibel
- e. Drought Update - R. Mariscal



Quarterly Investment Report

FOR THE QUARTER ENDED DECEMBER 31 , 2024

● ● ● SRWA BOARD MEETING

MIRIAN CAMACHO
TREASURY AND ACCOUNTING MANAGER
ACCOUNTING AND TREASURY





Southmost Regional Water Authority
QUARTERLY INVESTMENT REPORT
Investment Officers Certification
December 31, 2024

This report is prepared for the Southmost Regional Water Authority ("SRWA") in accordance with Chapter 2256 of the Public Funds Investment Act ("PFIA"). Section 2256.023(a) of the PFIA states that "Not less than quarterly, the investment officer shall prepare and submit to the governing body of the entity a written report of the investment transactions for all funds covered by this chapter for the preceding reporting period." This report, which covers the quarter ended December 31, 2024, is signed by the Investment Officers and includes the disclosures required in the PFIA.

The investment portfolio complied with the PFIA and the SRWA's approved Investment Policy and Strategy throughout the quarter. All investment transactions made in the SRWA's portfolio during this quarter were made on behalf of the SRWA and were in full compliance with the PFIA and the SRWA's approved Investment Policy.

Asset Class (A)	Face Amount/Shares (B)	Market Value (C)	Book Value (D)	% of Portfolio (E)	Yield to Maturity (F)	Days To Maturity (G)
Bank Deposits Wells Fargo	1,250,130.23	1,250,130.23	1,250,130.23	9.27	4.15	1
Certificate of Deposits	2,619,000.00	2,619,000.00	2,619,000.00	19.42	5.32	128
Investment Pools	7,999,391.46	7,999,391.46	7,999,391.46	59.33	4.59	31
Money Market MF	1,614,441.73	1,614,441.73	1,614,441.73	11.97	4.41	1
Total / Average	13,482,963.42	13,482,963.42	13,482,963.42	100.00	4.67	43


Miguel A. Perez, Chief Financial Officer
1/23/25
Date


Pedro Elizondo, Controller
1/23/25
Date


Mirian Camacho, Treasury and Accounting Manager
1/22/25
Date


Tricia Ayers, Controller
1/22/25
Date



Southmost Regional Water Authority Detail Distribution by Asset Class

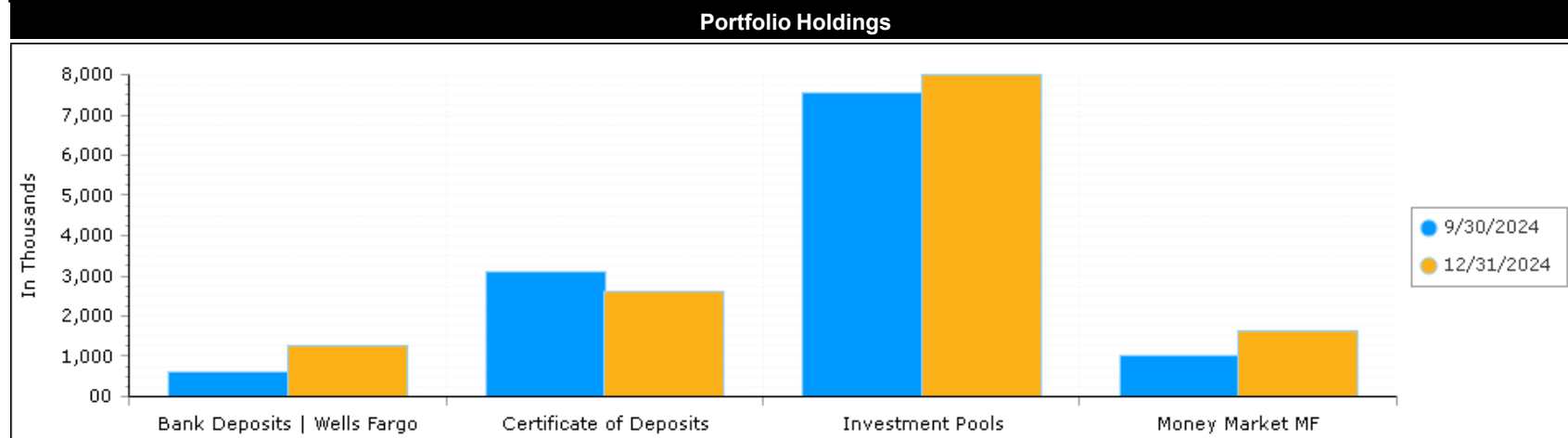
	Description (A)	Settlement Date (B)	Maturity Date (C)	Days To Maturity (D)	% of Portfolio (E)	Face Amount/Shares (F)	Book Value (G)	Market Value (H)	Yield to Maturity (I)
	Bank Deposits Wells Fargo								
1	Wells Fargo Insured			1	9.20	1,240,130.23	1,240,130.23	1,240,130.23	4.17
2	Wells Fargo Collateralized			1	0.07	10,000.00	10,000.00	10,000.00	1.65
3	Sub Total / Average Bank Deposits Wells Fargo			1	9.27	1,250,130.23	1,250,130.23	1,250,130.23	4.15
	Certificate of Deposits								
4	Tioga-Franklin Savings Bank, Philadelphia, PA	5/14/2024	2/10/2025	225	1.82	240,000.00	240,000.00	240,000.00	5.50
5	Austin Capital Bank, Austin, TX	6/20/2024	3/17/2025	260	1.82	240,000.00	240,000.00	240,000.00	5.60
6	Fieldpoint Private Bank & Trust, Greenwich, CT	6/20/2024	3/17/2025	260	1.82	240,000.00	240,000.00	240,000.00	5.50
7	Farmers & Merchants Union Bank, Columbus, WI	3/22/2024	3/21/2025	264	1.79	237,000.00	237,000.00	237,000.00	5.25
8	First Internet Bank of Indiana, Indianapolis, IN	3/22/2024	3/21/2025	264	1.79	237,000.00	237,000.00	237,000.00	5.31
9	First State Bank & Trust Company, Caruthersville, MO	3/22/2024	3/21/2025	264	1.79	237,000.00	237,000.00	237,000.00	5.35
10	The First National Bank of Hutchinson, KS	4/26/2024	4/25/2025	299	1.79	237,000.00	237,000.00	237,000.00	5.37
11	T Bank, Tollway, TX	7/16/2024	7/16/2025	197	1.76	237,000.00	237,000.00	237,000.00	5.43
12	Solera National Bank, Lakewood, CO	7/23/2024	7/23/2025	204	1.75	236,000.00	236,000.00	236,000.00	5.60
13	5 Star Bank, Colorado Springs, Co	10/29/2024	7/28/2025	209	1.79	241,000.00	241,000.00	241,000.00	4.55
14	Maplemark Bank Dallas, TX	9/3/2024	9/3/2025	246	1.76	237,000.00	237,000.00	237,000.00	5.05
15	Sub Total / Average Certificate of Deposits			128	19.42	2,619,000.00	2,619,000.00	2,619,000.00	5.32
	Investment Pools								
16	Texas DAILY			1	31.93	4,304,420.73	4,304,420.73	4,304,420.73	4.46
17	TexPool			1	12.57	1,694,970.73	1,694,970.73	1,694,970.73	4.48
18	Texas TERM 5.35 2/3/2025	5/8/2024	2/3/2025	34	3.71	500,000.00	500,000.00	500,000.00	5.35
19	Texas TERM 5.29 4/7/2025	7/11/2024	4/7/2025	97	3.71	500,000.00	500,000.00	500,000.00	5.29
20	Texas TERM 4.78 5/9/2025	8/13/2024	5/9/2025	129	1.85	250,000.00	250,000.00	250,000.00	4.78
21	Texas TERM 4.78 5/9/2025	8/13/2024	5/9/2025	129	1.85	250,000.00	250,000.00	250,000.00	4.78
22	Texas TERM 4.51 8/15/2025	11/21/2024	8/15/2025	227	3.71	500,000.00	500,000.00	500,000.00	4.51
23	Sub Total / Average Investment Pools			31	59.33	7,999,391.46	7,999,391.46	7,999,391.46	4.59
	Money Market MF								
24	US Bank			1	11.97	1,614,441.73	1,614,441.73	1,614,441.73	4.41
25	Total / Average			43	100	13,482,963.42	13,482,963.42	13,482,963.42	4.67



Southmost Regional Water Authority Distribution by Asset Class - Market Value

Begin Date: 9/30/2024, End Date: 12/31/2024

Asset Class Allocation				
Asset Class	Market Value 9/30/2024	% of Portfolio 9/30/2024	Market Value 12/31/2024	% of Portfolio 12/31/2024
Bank Deposits Wells Fargo	594,516.51	4.84	1,250,130.23	9.27
Certificate of Deposits	3,090,000.00	25.17	2,619,000.00	19.42
Investment Pools	7,559,754.11	61.58	7,999,391.46	59.33
Money Market MF	1,031,676.27	8.40	1,614,441.73	11.97
Total / Average	12,275,946.89	100.00	13,482,963.42	100.00



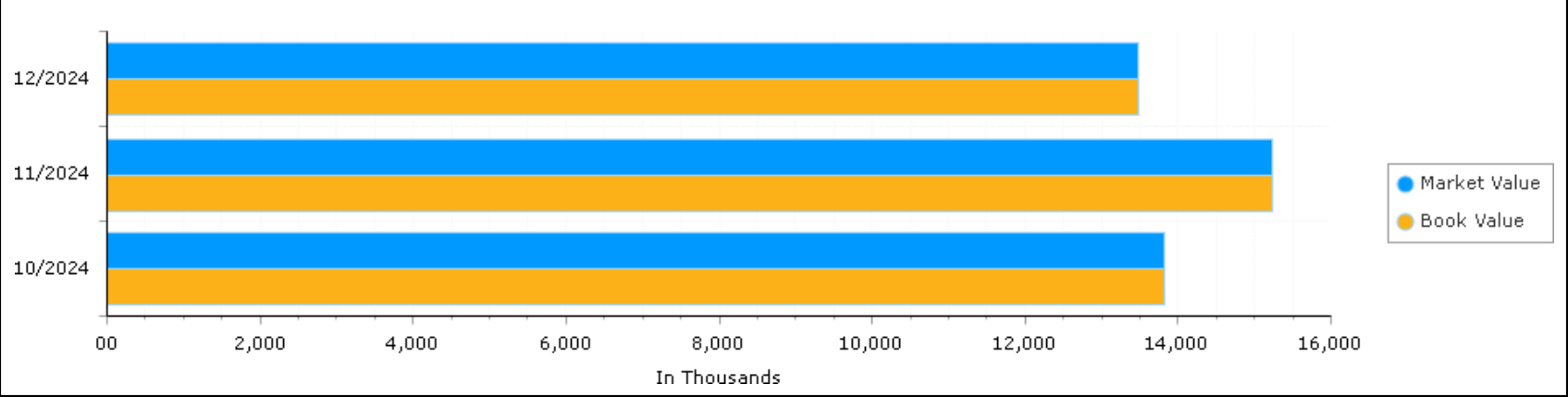


Southmost Regional Water Authority
Portfolio Summary by Month

Begin Date: 10/31/2024, End Date: 12/31/2024

Month	Market Value	Book Value	Investment Income	Yield to Maturity	3 Month Treasury	Days To Maturity
10/31/2024	13,821,901.02	13,821,901.02	52,673.72	4.71	4.51	56
11/30/2024	15,229,014.52	15,229,014.52	51,417.21	4.41	4.42	49
12/31/2024	13,482,963.42	13,482,963.42	53,000.38	4.67	4.27	43
Total / Average	14,177,959.65	14,177,959.65	157,151.39	4.59	4.40	49

Market Value / Book Value Comparison

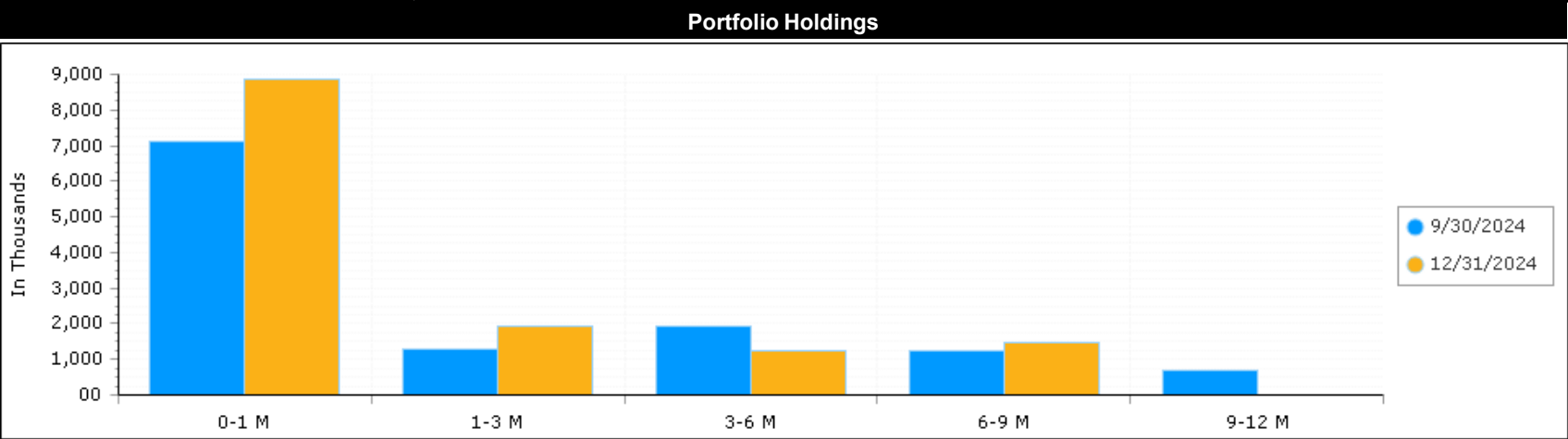




Southmost Regional Water Authority
Distribution by Maturity Range - Market Value

Begin Date: 9/30/2024, End Date: 12/31/2024

Maturity Range Allocation				
Maturity Range	Market Value 9/30/2024	% of Portfolio 9/30/2024	Market Value 12/31/2024	% of Portfolio 12/31/2024
0-1 Month	7,125,946.89	58.05	8,863,963.42	65.74
1-3 Months	1,272,000.00	10.36	1,931,000.00	14.32
3-6 Months	1,931,000.00	15.73	1,237,000.00	9.17
6-9 Months	1,237,000.00	10.08	1,451,000.00	10.76
9-12 Months	710,000.00	5.78	0.00	0.00
Total / Average	12,275,946.89	100.00	13,482,963.42	100.00

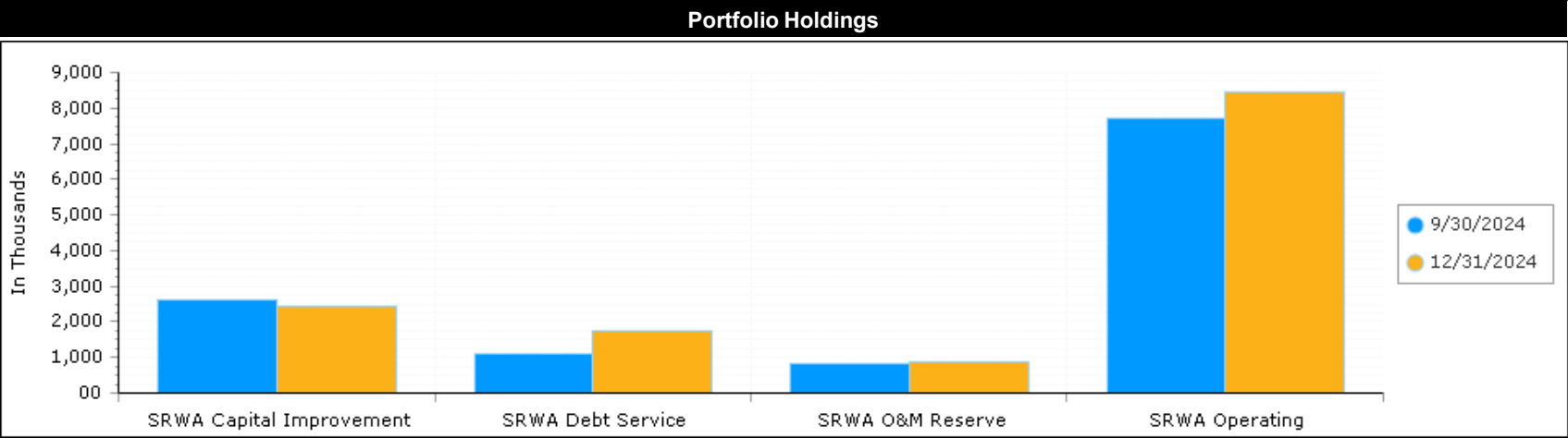




Southmost Regional Water Authority
Distribution by Fund Group - Market Value

Begin Date: 9/30/2024, End Date: 12/31/2024

Fund Group Allocation				
Fund Group	Market Value 9/30/2024	% of Portfolio 9/30/2024	Market Value 12/31/2024	% of Portfolio 12/31/2024
SRWA Capital Improvement	2,613,191.19	21.29	2,444,611.83	18.13
SRWA Debt Service	1,086,845.42	8.85	1,740,684.17	12.91
SRWA O&M Reserve	842,640.69	6.86	855,284.79	6.34
SRWA Operating	7,733,269.59	63.00	8,442,382.63	62.62
Total / Average	12,275,946.89	100.00	13,482,963.42	100.00





Purchases | Sold & Matured

Southmost Regional Water Authority

Begin Date: 09/30/2024, End Date: 12/31/2024

Trade Date	Settlement Date	Face Amount / Amount	Description Price	Principal Portfolio	Shares
PURCHASES					
October 2024					
10/29/2024	10/29/2024 SRWA Operating	241,000.00	5 Star Bank, Colorado Springs, Co 4.55	241,000.00	241,000.00
November 2024					
11/20/2024	11/21/2024 SRWA Operating	500,000.00	Texas TERM 4.51	500,000.00	500,000.00
December 2024					
TOTAL		741,000.00			
SOLD MATURED					
October 2024					
10/28/2024	10/28/2024 SRWA Operating	240,000.00	Financial Federal Savings Bank, Memphis, TN	240,000.00	
November 2024					
11/18/2024	11/18/2024 SRWA Operating	500,000.00	Texas TERM 5.51	500,000.00	
December 2024					
12/10/2024	12/10/2024	300,000.00	Texas TERM 5.32	300,000.00	SRWA O&M Reserve
12/18/2024	12/18/2024	236,000.00	Cornerstone Bank, York, NE	236,000.00	SRWA Operating
12/18/2024	12/18/2024	236,000.00	Global Bank, New York, NY	236,000.00	SRWA Operating
TOTAL		1,512,000.00			



Southmost Regional Water Authority Portfolio Holdings by Portfolio Name

Date: 12/31/2024

Description CUSIP	Face Amount / Shares	Settlement Date YTM @ Cost	Cost Value Book Value	Market Price YTM @ Market	Market Value Accrued Interest	% Portfolio Unre. Gain/Loss	Credit Rating Credit Rating	Days To Call/Maturity Duration To Maturity
SRWA Capital Improvement								
Solera National Bank, Lakewood, CO 5.6 7/23/2025		7/23/2024	236,000.00	100.00	236,000.00	1.75%	FDIC Insured	204
CDS3103-072325	236,000.00	5.60	236,000.00	5.60	5,829.52	0.00	FDIC Insured	0.56
Texas DAILY Capital Improvement LGIP		9/30/2022	1,388,723.56	100.00	1,388,723.56	10.3%	NR	1
TD-SRWA-3103	1,388,723.56	4.46	1,388,723.56	4.46		0.00	Fitch-AAAmf	0
Texas TERM 4.785/9/2025		8/13/2024	250,000.00	100.00	250,000.00	1.85%	NR	129
TTS3103-050925	250,000.00	4.78	250,000.00	4.78	4,583.56	0.00	NR	0.35
Texas TERM 5.294/7/2025		7/11/2024	500,000.00	100.00	500,000.00	3.71%	NR	97
TTS3103-040725	500,000.00	5.29	500,000.00	5.29	12,536.58	0.00	NR	0.27
Wells Fargo IN Capital Improvement MM		9/30/2022	69,888.27	100.00	69,888.27	0.52%	NR	1
WF-SRWA-IN24D	69,888.27	4.17	69,888.27	4.17		0.00	NR	0
			2,444,611.83		2,444,611.83	18.13%		53
Sub Total SRWA Capital Improvement	2,444,611.83	4.76	2,444,611.83	4.76	22,949.66	0.00		0.15
SRWA Debt Service								
Texas DAILY Debt Service LGIP		9/30/2022	126,242.44	100.00	126,242.44	0.94%	NR	1
TD-SRWA-3101	126,242.44	4.46	126,242.44	4.46		0.00	Fitch-AAAmf	0
			126,242.44		126,242.44	0.94%		1
Sub Total SRWA Debt Service	126,242.44	4.46	126,242.44	4.46		0.00		0
SRWA Debt Service 2009								
US Bank Debt Service 2009 MM		9/30/2022	230,186.60	100.00	230,186.60	1.71%	NR	1
USB-SRWA-63000	230,186.60	4.41	230,186.60	4.41		0.00	NR	0
			230,186.60		230,186.60	1.71%		1
Sub Total SRWA Debt Service 2009	230,186.60	4.41	230,186.60	4.41		0.00		0
SRWA Debt Service 2012								
US Bank Debt Service 2012 MM		9/30/2022	522,740.68	100.00	522,740.68	3.88%	NR	1
USB-SRWA-04000	522,740.68	4.41	522,740.68	4.41		0.00	NR	0

- YTM @ Cost | Yield to Maturity at Cost Value
- Days to Maturity | Weighted Average Maturity
- All securities are held to maturity, unrealized gains or losses are not applicable



Southmost Regional Water Authority Portfolio Holdings by Portfolio Name

Date: 12/31/2024

Description CUSIP	Face Amount / Shares	Settlement Date YTM @ Cost	Cost Value Book Value	Market Price YTM @ Market	Market Value Accrued Interest	% Portfolio Unre. Gain/Loss	Credit Rating Credit Rating	Days To Call/Maturity Duration To Maturity
Sub Total SRWA Debt Service 2012	522,740.68	4.41	522,740.68	4.41	522,740.68	3.88%		1
SRWA Debt Service 2017								0
US Bank Debt Service 2017 MM		9/30/2022	120,858.19	100.00	120,858.19	0.9%	NR	1
USB-SRWA-23000	120,858.19	4.41	120,858.19	4.41		0.00	NR	0
			120,858.19		120,858.19	0.9%		1
Sub Total SRWA Debt Service 2017	120,858.19	4.41	120,858.19	4.41		0.00		0
SRWA Debt Service Reserve								
US Bank Debt Service Reserve MM		9/30/2022	740,656.26	100.00	740,656.26	5.49%	NR	1
USB-SRWA-63001	740,656.26	4.41	740,656.26	4.41		0.00	NR	0
			740,656.26		740,656.26	5.49%		1
Sub Total SRWA Debt Service Reserve	740,656.26	4.41	740,656.26	4.41		0.00		0
SRWA O&M Reserve								
T Bank, Tollway, TX 5.437/16/2025		7/16/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	197
CDS3102-071625	237,000.00	5.43	237,000.00	5.43	5,923.31	0.00	FDIC Insured	0.54
Texas DAILY O&M Reserve LGIP		9/30/2022	381,284.79	100.00	381,284.79	2.83%	NR	1
TD-SRWA-3102	381,284.79	4.46	381,284.79	4.46		0.00	Fitch-AAAmf	0
The First National Bank of Hutchinson, KS 5.37 4/2		4/26/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	115
CDS3102-042525	237,000.00	5.37	237,000.00	5.37	8,682.19	0.00	FDIC Insured	0.32
			855,284.79		855,284.79	6.35%		87
Sub Total SRWA O&M Reserve	855,284.79	4.98	855,284.79	4.98	14,605.50	0.00		0.24
SRWA Operating								
5 Star Bank, Colorado Springs, Co(91005) 4.55 7/2		10/29/2024	241,000.00	100.00	241,000.00	1.79%	NR	209
CDS3100-072825	241,000.00	4.55	241,000.00	4.55	1,892.68	0.00	NR	0.57
Austin Capital Bank, Austin, TX 5.6 3/17/2025		6/20/2024	240,000.00	100.00	240,000.00	1.78%	FDIC Insured	76
CDS3100-031725A	240,000.00	5.60	240,000.00	5.60	7,143.45	0.00	FDIC Insured	0.21

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Southmost Regional Water Authority Portfolio Holdings by Portfolio Name

Date: 12/31/2024

Description CUSIP	Face Amount / Shares	Settlement Date YTM @ Cost	Cost Value Book Value	Market Price YTM @ Market	Market Value Accrued Interest	% Portfolio Unre. Gain/Loss	Credit Rating Credit Rating	Days To Call/Maturity Duration To Maturity
Farmers & Merchants Union Bank, Columbus, WI 5		3/22/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	80
CDS3100-032125C	237,000.00	5.25	237,000.00	5.25	9,681.29	0.00	FDIC Insured	0.22
Fieldpoint Private Bank & Trust, Greenwich, CT		6/20/2024	240,000.00	100.00	240,000.00	1.78%	FDIC Insured	76
CDS3100-031725B	240,000.00	5.50	240,000.00	5.50	7,015.89	0.00	FDIC Insured	0.21
First Internet Bank of Indiana, Indianapolis, IN 5		3/22/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	80
CDS3100-032125B	237,000.00	5.31	237,000.00	5.31	9,791.93	0.00	FDIC Insured	0.22
First State Bank & Trust Company, Caruthersville		3/22/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	80
CDS3100-032125A	237,000.00	5.35	237,000.00	5.35	9,865.69	0.00	FDIC Insured	0.22
Maplebank Bank Dallas, TX 5.05 9/3/2025		9/3/2024	237,000.00	100.00	237,000.00	1.76%	FDIC Insured	246
CDS3100-090325	237,000.00	5.05	237,000.00	5.05	3,902.06	0.00	FDIC Insured	0.67
Texas DAILY Operating LGIP		9/30/2022	2,408,169.94	100.00	2,408,169.94	17.86%	NR	1
TD-SRWA-3100	2,408,169.94	4.46	2,408,169.94	4.46		0.00	Fitch-AAAmf	0
Texas TERM 4.518/15/2025		11/21/2024	500,000.00	100.00	500,000.00	3.71%	NR	227
TTS3100-081525	500,000.00	4.51	500,000.00	4.51	2,471.23	0.00	NR	0.62
Texas TERM 4.785/9/2025		8/13/2024	250,000.00	100.00	250,000.00	1.85%	NR	129
TTS3100-050925	250,000.00	4.78	250,000.00	4.78	4,583.56	0.00	NR	0.35
Texas TERM 5.352/3/2025		5/8/2024	500,000.00	100.00	500,000.00	3.71%	NR	34
TTS3100-020325	500,000.00	5.35	500,000.00	5.35	17,369.18	0.00	NR	0.09
TexPool Operating LGIP		9/30/2022	1,694,970.73	100.00	1,694,970.73	12.57%	NR	1
TP-SRWA-0002	1,694,970.73	4.48	1,694,970.73	4.48		0.00	S&P-AAAm	0
Tioga-Franklin Savings Bank, Philadelphia, PA 5.5		5/14/2024	240,000.00	100.00	240,000.00	1.78%	FDIC Insured	41
CDS-3100-021025	240,000.00	5.50	240,000.00	5.50	8,353.97	0.00	FDIC Insured	0.11
Wells Fargo IN Operating MM		9/30/2022	1,170,241.96	100.00	1,170,241.96	8.68%	NR	1
WF-SRWA-IN17D	1,170,241.96	4.17	1,170,241.96	4.17		0.00	NR	0

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Southmost Regional Water Authority Portfolio Holdings by Portfolio Name

Date: 12/31/2024

Description	Face Amount/ Shares	SettlementDate YTM @ Cost	CostValue Book Value	Market Price YTM @ Market	Market Value Accrued Interest	% Portfolio Unre. Gain/Loss	Credit Rating Credit Rating	Days To Call/Maturity Duration To Maturity
Wells Fargo PC Operating Cash		9/30/2022	10,000.00	100.00	10,000.00	0.07%	NR	1
WF-SRWA-PC2448	10,000.00	1.65	10,000.00	1.65		0.00	NR	0
			8,442,382.63		8,442,382.63	62.62%		45
Sub Total SRWA Operating	8,442,382.63	4.67	8,442,382.63	4.67	82,070.93	0.00		0.12
			13,482,963.42		13,482,963.42	100.00%		43
TOTAL PORTFOLIO	13,482,963.42	4.67	13,482,963.42	4.67	119,626.09	0.00		0.12

- YTM @ Cost | Yield to Maturity at Cost Value
- Days to Maturity | Weighted Average Maturity
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Southmost Regional Water Authority Projected Cash Flow by Month

Begin Date: 01-2025, End Date: 03-2025

Date	CUSIP	FaceAmount/Shares	Description	PrincipalAmount	Interest/Dividends	Total
2/3/2025	TTS3100-020325	500,000.00	Texas TERM 5.35 2/3/2025	500,000.00	19,860.96	519,860.96
2/10/2025	CDS-3100-021025	240,000.00	Tioga-Franklin Savings Bank, Philadelphia, PA 5.5	240,000.00	9,836.71	249,836.71
February 2025				740,000.00	29,697.67	769,697.67
3/17/2025	CDS3100-031725A	240,000.00	Austin Capital Bank, Austin, TX 5.6 3/17/2025	240,000.00	9,941.92	249,941.92
3/17/2025	CDS3100-031725B	240,000.00	Fieldpoint Private Bank & Trust, Greenwich, CT	240,000.00	9,764.38	249,764.38
3/21/2025	CDS3100-032125B	237,000.00	First Internet Bank of Indiana, Indianapolis, IN 5	237,000.00	12,550.22	249,550.22
3/21/2025	CDS3100-032125C	237,000.00	Farmers & Merchants Union Bank, Columbus, WI 5	237,000.00	12,408.41	249,408.41
3/21/2025	CDS3100-032125A	237,000.00	First State Bank & Trust Company, Caruthersvil	237,000.00	12,644.76	249,644.76
March 2025				1,191,000.00	57,309.69	1,248,309.69
TOTAL				1,931,000.00	87,007.36	2,018,007.36



SRWA Grant Activity Update

● ● ● S R W A B O A R D M E E T I N G

Miriam Suarez

Senior Grants Coordinator

Finance Department

FY 2024 Recap

\$20,586,790

Grant Requests

3

Applications Submitted

\$40,000,000

**Water Resources
Development Act 2024**

Wellfield and Brackish Groundwater Treatment Facility Improvements Project

Funding Agency	Bureau of Reclamation (BOR)
Agency Grant Program	WaterSMART: Desalination Construction Projects Under the Water Infrastructure Improvements for the Nation (WIIN) Act
Grant Request	\$10,609,000
Total Project Cost	\$42,436,000
Project Scope	Reconstruction of 20 existing wells, construction of 2 new wells and facility improvements including electrical, RO modifications, additional microfiltration racks and filtrate transfer pumps, chemical dosing and storage.
Status	<ul style="list-style-type: none">• Notice of Award Received• \$5,030,654 – partial award• Debriefing with BOR to review submission and next steps
Next Steps	Pre-award process to begin mid-year 2025

New Wells for Drought Resiliency and Groundwater Reliability Project

Funding Agency	Bureau of Reclamation (BOR)
Agency Grant Program	WaterSMART: Drought Response Program: Drought Resiliency Grants
Grant Request	\$8,786,139
Total Project Cost	\$9,248,567
Project Scope	Construction of 2 new wells that will add 726 acre-feet per year to the existing water supply.
Status	<ul style="list-style-type: none">• Pending Notice of Award• Anticipated Announcement: February 2025

Generator Improvements Project

Funding Agency	Texas Division of Emergency Management (TDEM)
Agency Grant Program	Hazard Mitigation Grant Program (HMGP) DR-4485 Texas COVID-19 Pandemic
Grant Request	\$1,191,651
Total Project Cost	\$1,324,057
Project Scope	Purchase and installation of 11 emergency generators for existing water wells. Construction of concrete foundation, security fence installation, grading, electrical system upgrades, engineering and surveying services.
Status	Pending Notice of Award

SRWA Desalination Plant Expansion Project

Federal Legislation	Water Resources Development Act 2024 (WRDA 2024)
Congressional Committees	House Committee on Transportation and Infrastructure and Senate Committee on Environment and Public Works
Appropriation Request	\$40,000,000
Project Scope	Water and wastewater infrastructure development
Status	Pending



Wellfield Performance and Well Rehabilitation

https://www.youtube.com/watch?v=9_5vg_xF54Y

Definition of Pumping Terms

GPM: gallons per minute

Static Level: water level when pump is off

Pumping Level: water level when pump is on

Drawdown Level: pumping level - static level

Specific Capacity: the rate of well yield per unit of drawdown

- Specific capacity, $\text{gpm/ft} = \text{gpm} \div \text{drawdown}$

Groundwater Wells

INSIDE OF WELL BUILDINGS



WELL FIELD OF 20 WELLS

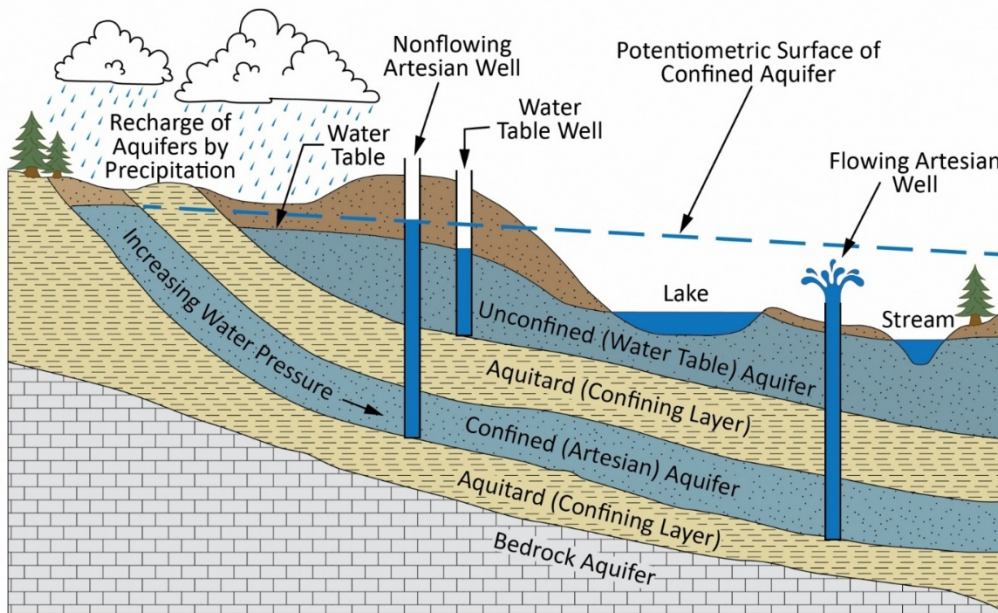


Wellfield Performance

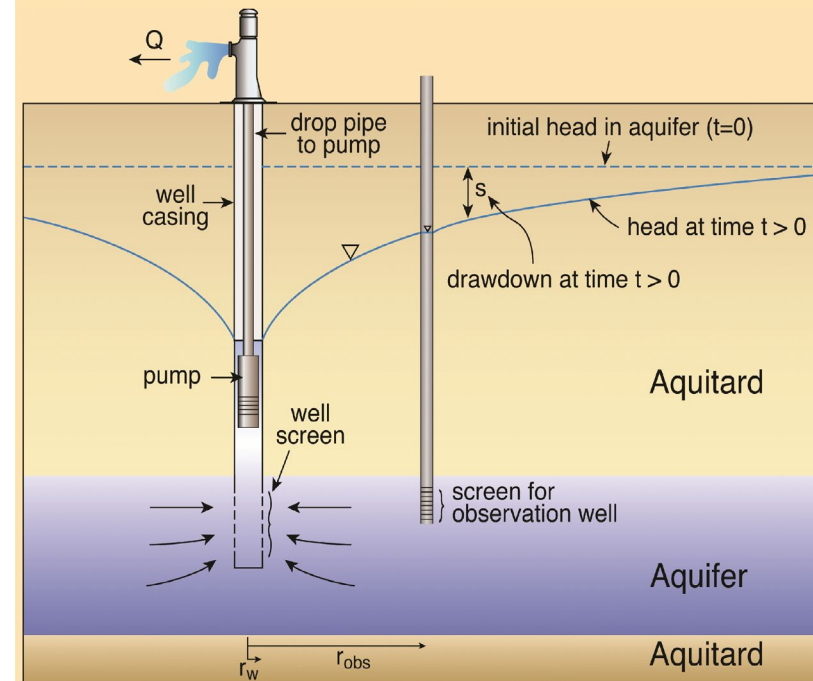
Wellfield Specific Capacity Through Time									
Well	Specific Capacity (gpm/ft)					2004 to 2016 Specific Capacity Decline	2004 to 2019 Specific Capacity Decline	2004 to 2023 Specific Capacity Decline	2004 to 2024 Specific Capacity Decline
	2004	2016	2018-2019	2023	2024				
Well 1	15.0	7.3	N/A	7.1	6.2	51%	N/A	53%	59%
Well 2	15.1	8.2	6.3	4.7	4.77	46%	58%	68%	68%
Well 3	13.5	9.2	8.2	7.3	7.2	32%	39%	46%	47%
Well 4	16.5	8.9	9.2	5.9	5.5	46%	44%	64%	67%
Well 5	18.6	9.9	9.8	8.1	7.2	47%	47%	56%	61%
Well 6	14.4	8.4	7.7	5.4	6.0	42%	47%	63%	58%
Well 7	14.7	4.9	N/A	4.8	3.4	67%	N/A	68%	77%
Well 8	13.8	7.1	6.6	5.7	5.8	49%	52%	59%	58%
Well 9	11.4	6.2	5.9	4.2	3.1	46%	48%	64%	73%
Well 10	16.0	7.4	N/A	5.1	4.6	54%	N/A	68%	71%
Well 11	17.2	5.9	N/A	6.7	4.3	66%	N/A	61%	75%
Well 12	16.1	7.0	N/A	6.2	5.4	57%	N/A	62%	66%
Well 13	17.8	8.1	7.0	4.5	3.3	54%	61%	75%	81%
Well 14	14.6	8.8	7.7	7.2	7.7	39%	47%	51%	47%
Well 15	16.7	13.6	N/A	9.8	9.9	19%	N/A	41%	41%
Well 16	13.2	5.8	6.3	3.8	3.2	56%	52%	71%	76%
Well 17	24.6	7.5	6.1	4.8	4.8	70%	75%	81%	80%
Well 18	15.5	5.0	4.4	4.0	4.0	68%	71%	74%	74%
Well 19	15.7	11.9	10.9	9.9	10.2	24%	31%	37%	35%
Well 20	15.9	10.2	8.1	5.0	4.9	36%	49%	68%	69%

*Highlighted wells indicate those chosen for rehabilitation in 2019

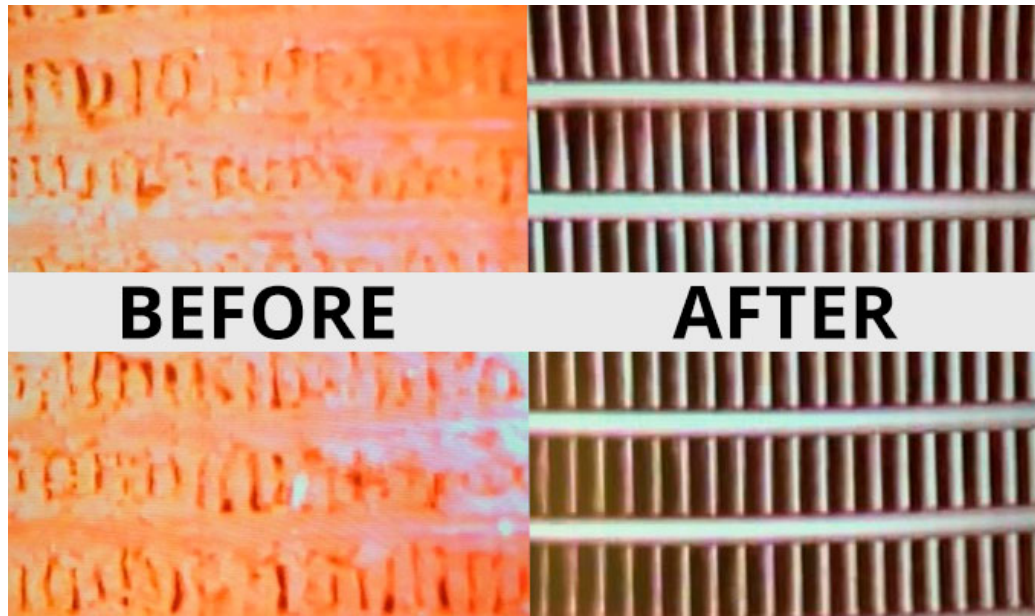
Well Types and Pumping Diagram



Anatomy of an Aquifer Pumping Test in a Confined Aquifer



Well Rehabilitation



- Encrustation of the well screen and plugging of the gravel pack will affect the amount of water able to pass through, causing specific capacity to decrease.
- Well rehabilitation is done to remove encrustation to allow for more flow and increase of specific capacity
- Acid washes with scrubbing is a common method
- The carbon dioxide method will use both chemical and physical cleaning energy

https://www.youtube.com/watch?v=oS6_gM7d_TY

Questions?





Drought Update

FEBRUARY 3, 2025

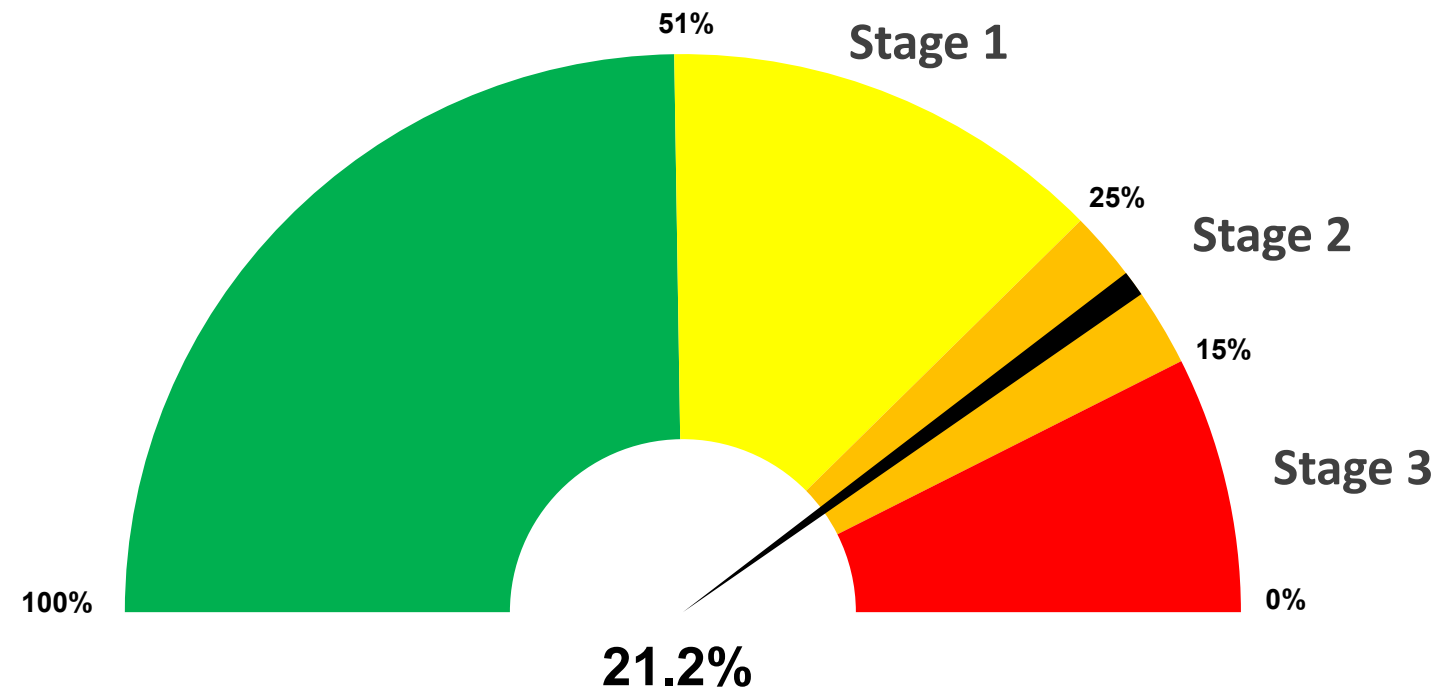
● ● ● S R W A B O A R D M E E T I N G

Jaime Flores

Water Resources Administrator

Raw Water Supply

BPUB Drought Stage Meter



U.S. Combined ownership at Amistad and Falcon Reservoirs
January 25, 2025 = 21.2%

U.S. Combined Ownership at Amistad/Falcon

Previous 3 Readings

21.1%

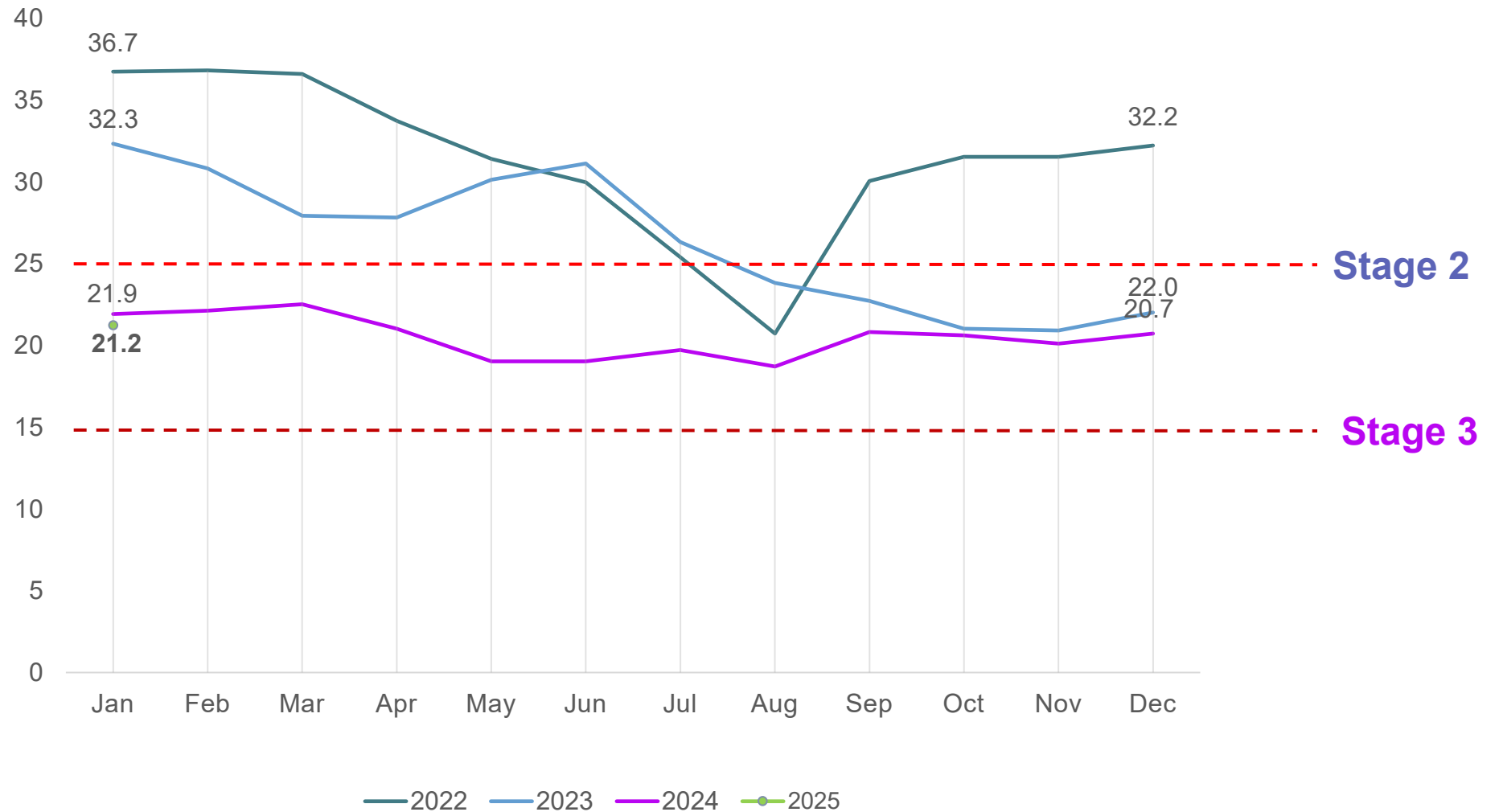
January 18, 2025

20.9%

January 11, 2025

20.7%

January 4, 2025



National Weather Service February to April 2025 Outlook: For the Lower Rio Grande Valley/Deep South Texas Region

- February-April 2025 is expected to average out warmer and drier than normal.
- There is still a need to monitor the potential for heavy rainfall/flooding events during this time period, despite a drier than normal outlook. Given the right setup, showers and storms could result in heavy rainfall/flooding - favoring late March and April, if they occur.
- Drought/dryness conditions will likely continue to expand through the rest of the Winter and early Spring Season.
- Confidence remains high that total combined storage will remain at or near record lows through March which means continued limits on agricultural and municipal water use.



B R O W N S V I L L E
PUBLIC UTILITIES BOARD

EVERY DROP COUNTS!

Learn more about drought at:



brownsville-pub.com/drought-resources

Consideration of Submission of a Letter Regarding Deficient Water Treaty Deliveries to Public Officials



M. GILBERT

Consideration and Possible Action to Rehabilitate Two Wells Using the Aqua Freed® Carbon Dioxide (CO2) Injection Method

JOSE A. GARZA





Discussion on Date, Time of Next Board Meeting

J. Hollmann



Adjournment
