Facility Operations Update

Board of Directors Meeting

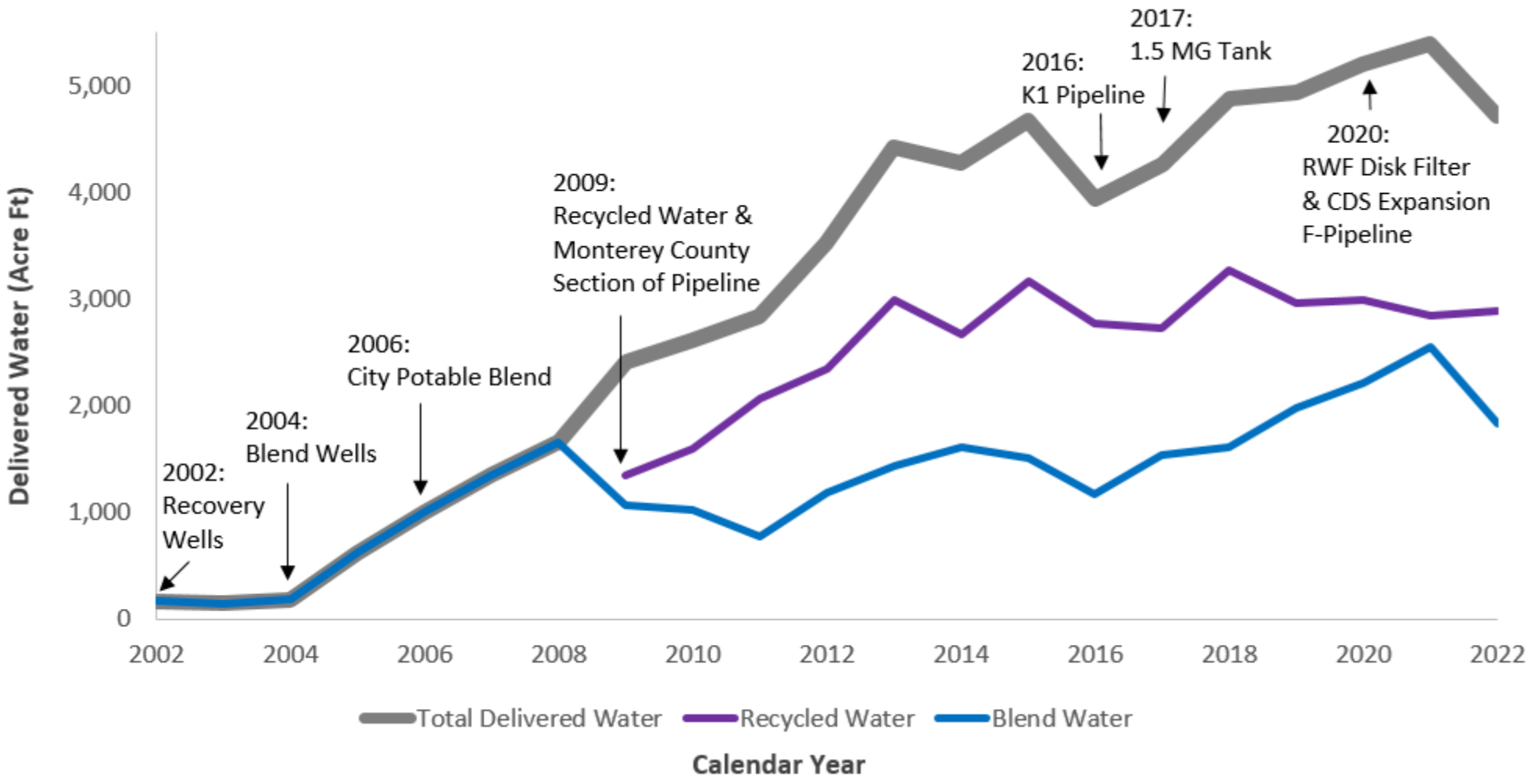
February 15, 2023

Jesus “Chuy” Martinez
Water System Operations Supervisor

Shinehah Bigham
Water System Operator

Pajaro Valley
Water Management Agency

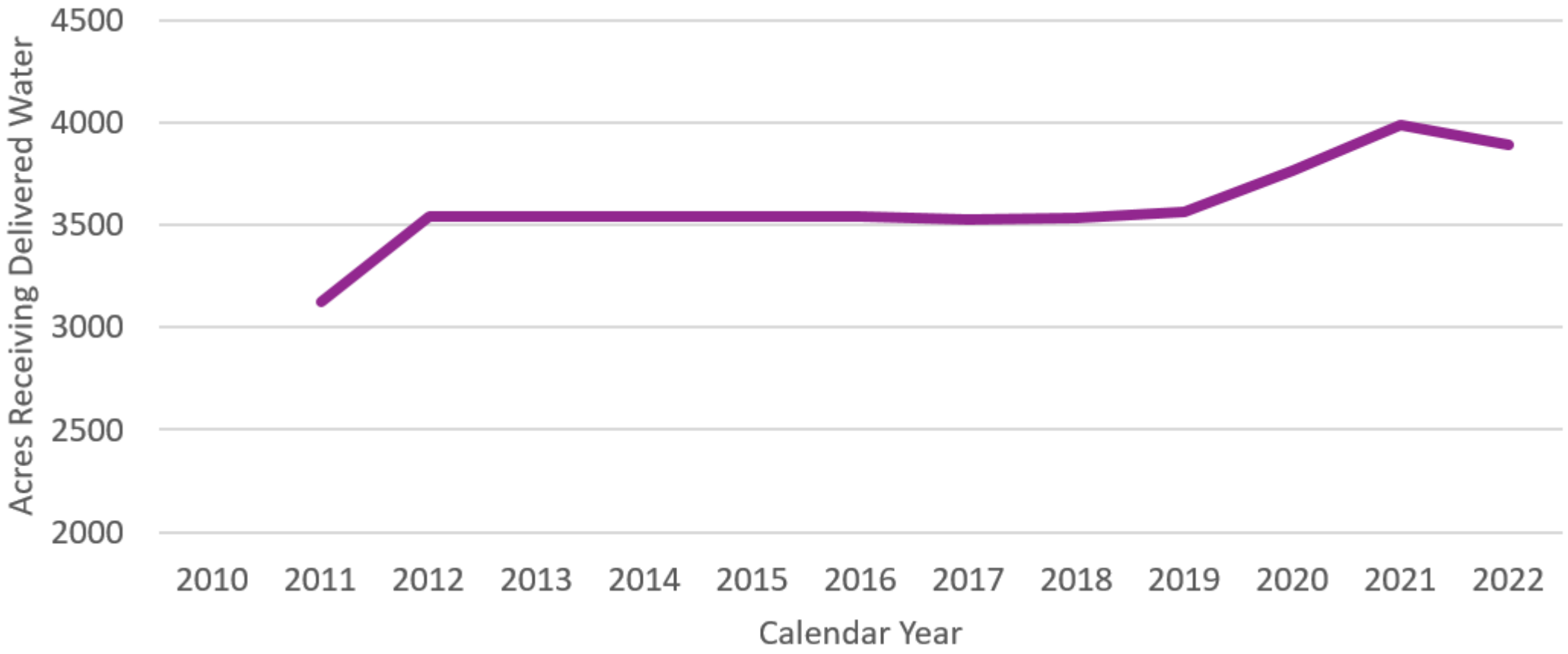
Coastal Distribution System Water Deliveries



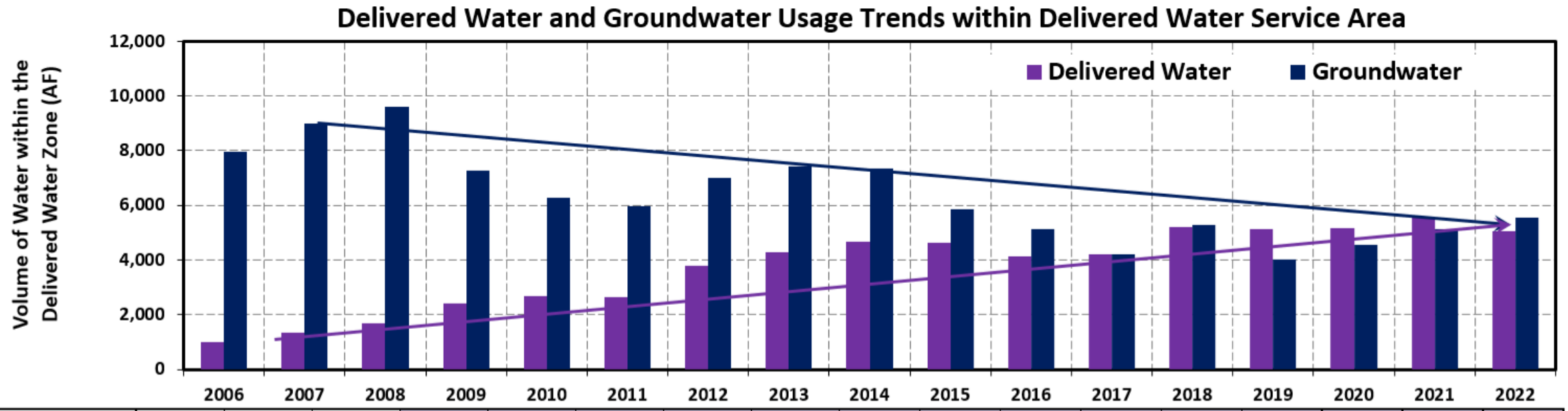
2022: Year in Review

- Drought Conditions
- Total Irrigated Acreage Served: 3770
  - Represents a decrease of *244 irrigated acres* compared to 2021
  - A decrease of 6% over the prior year
- Peak Season Demand vs Supply in June & July, 2022
  - Average Demand = 29 AFD
  - Average Delivered = 25 AFD

Trend of Average Irrigated Acreage Served by the CDS



Delivered Water vs Groundwater Trends



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Delivered Water (AF)	990	1,337	1,665	2,406	2,681	2,630	3,788	4,275	4,685	4,638	4,139	4,203	5,213	5,138	5,174	5,577	5,065
Groundwater (AF)	7,976	8,974	9,614	7,278	6,293	5,971	6,984	7,407	7,360	5,857	5,117	4,210	5,275	4,013	4,534	5,135	5,560
Total DWZ Water Use (AF)	8,966	10,311	11,279	9,684	8,974	8,601	10,772	11,682	12,044	10,495	9,256	8,413	10,488	9,151	9,708	10,712	10,626
Delivered Water % of Total	11%	13%	15%	25%	30%	31%	35%	37%	39%	44%	45%	50%	50%	56%	53%	52%	48%

(Production of Recycled Water Began in 2009)

Production Summary

2022 Production Monthly Summary*

All totals are in Acre Feet

	January	February	March	April	May	June	July	August	September	October	November	December	Individual Totals
Harkins Slough Project:													
Effluent FW to Basin	223.34	222.51	84.84	1.13	0.56							0.97	533.34
Coastal Distribution System (CDS):													
Recovery Wells Sub Total	11.85	18.27	26.90	30.31	39.10	42.43	38.98	21.56	6.71	4.56	4.00	1.42	246.08
Blend Wells													
SW #1	0.00	0.80	0.00	0.00	45.74	84.52	46.36	57.17	13.07	0.00	0.00	0.00	247.66
SW #2	0.04	1.19	0.00	22.21	118.92	167.77	200.59	142.12	78.09	11.78	29.96	0.00	772.68
Blend Wells Subtotal	0.04	1.99	0.00	22.21	164.66	252.29	246.95	199.29	91.16	11.78	29.96	0.00	1020.33
RWF Blend (See Breakdown Below)	111.53	181.95	219.49	281.13	440.09	454.91	471.51	442.37	312.00	273.05	211.74	39.85	3439.62
CDS Total	123.42	202.20	246.39	333.64	643.85	749.62	757.44	663.22	409.88	289.39	245.70	41.27	**4706.03**
Approximate Recycled Water Blend Breakdown:													
Estimated Recycled Water	99.38	175.74	202.46	243.27	350.28	364.71	381.66	350.71	249.70	254.14	169.45	39.84	2881.35
RWF No_1 (potable)	12.15	6.20	17.03	37.86	89.81	90.20	89.85	91.66	62.31	18.91	42.29	0.01	558.27

* Recycled Water Blend Breakdown is Approximate because there is always some water in the tank that may be recycled water or RWF No-1 Water, "Est Recycled Water" is the RWF Blend total, (which is measured by the RWF Distribution meter after the tanks,) MINUS the RWF No_1 total, which is measure before the No_1 water goes into the tanks to blend.

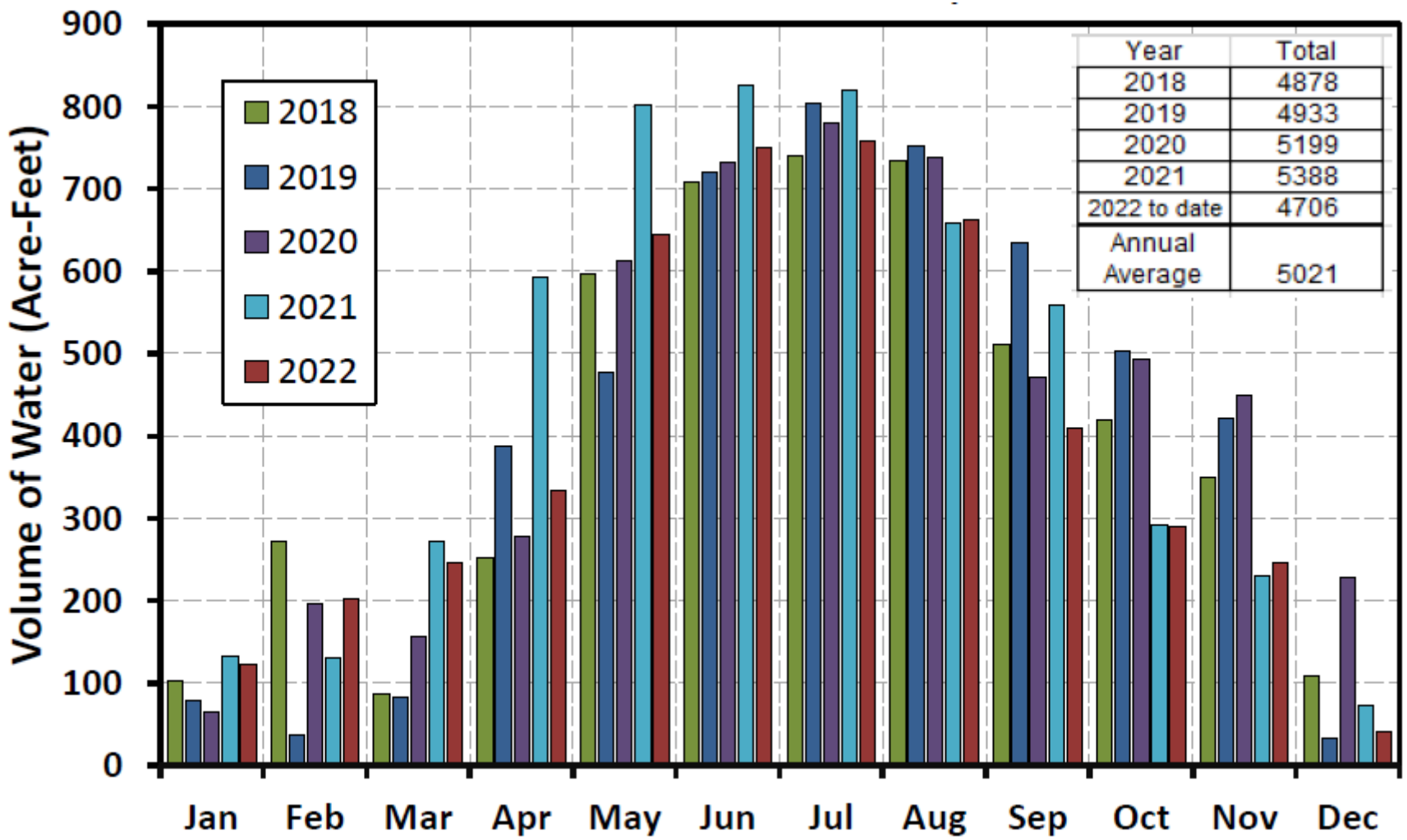
Well 860 (Harvest Dr.)	0.000	0.000											0.00

2022 Production Percentages:

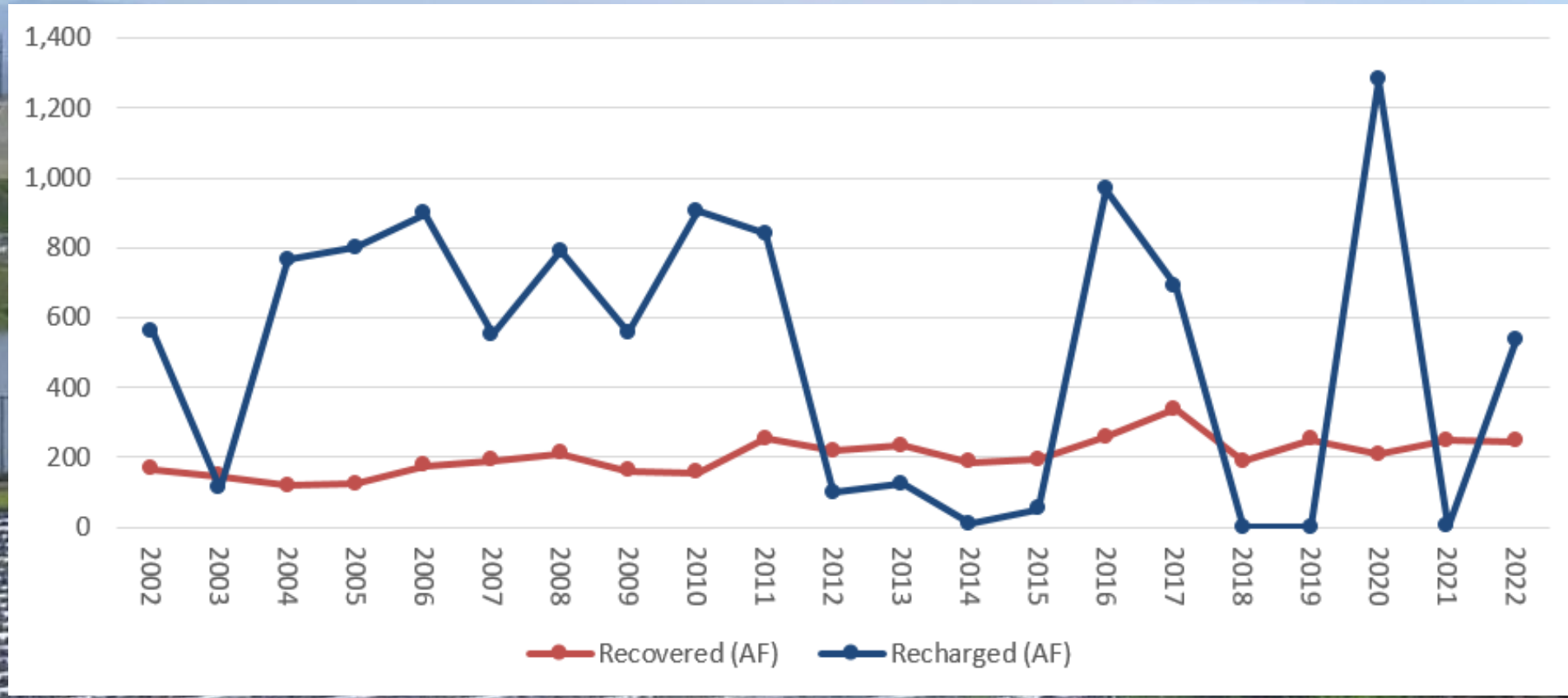
Recovery Wells	Supplemental Wells	Recycled Water	Potable Water
5%	22%	61%	12%

*Preliminary, Subject to Revision

Five Year Production Comparison



Harkins Slough Managed Aquifer Recharge & Recovery



Anticipated System Flows – 2023*

Water Source	Flow Rate	Acre-Feet per Day
Recycled Water	3,100 GPM	15
City Potable Blend (9 hours @ 2000 gpm)	2,000 GPM	3
Blend Wells Average of 14 hours / day	2,000 GPM	5
Recovery Wells 16 hours / day average	350 GPM	1
Total Capacity	**7,450 gpm**	**24 ac-ft/day**

*Flows subject to change; values rounded.

Looking Ahead

- Growers Meeting, March 15, 10:00 a.m., Water Resources Center
- Irrigator Trainings
- Ongoing Maintenance
- High Production Wells Telemetry Project Underway
- Blend Wells Upgrade Project Underway
- Harkins Slough Project Upgrades Underway
- Future Delivered Water Supplies:
  - College Lake Integrated Resources Management Project
  - Watsonville Slough System Managed Aquifer Recharge & Recovery Projects

Thank you!
Questions / Comments?