

Progress toward Goals Outlined in University of Arizona Water Resources Research Center (WRRC) 2021 STRATEGIC PLAN

2021 Metrics Report Completed June 2022

Goal 1: To increase WRRC capacity to engage in water policy and management research that is highly relevant to the real world through increased external funding and support and recruitment of skilled faculty and staff.

	2016	2017	2018	2019	2020	2021
Grant Funding Received^a						
Federal grants and contracts	\$397,374	\$456,246	\$407,240	\$418,834	\$339,051	\$349,014
State grants and contracts	\$127,882	\$89,100	\$94,500	\$93,961	\$87,050	\$151,152
Foundation funds	\$101,871	\$117,500	\$211,590	\$245,533	\$210,510	\$155,654
Private grants and contracts	\$473,973	\$270,012	\$363,791	\$286,985	\$363,562	\$370,692
Faculty	3	3	3	3	3	2
Staff	21	20	20	20	18	12
Students	19	24	20	12	12	8
Number of new projects	6	5	8	8	6	8
Project funding	\$559,661	\$387,699.00	\$661,365	\$576,607	\$241,100	\$328,036
Total	\$89,659	\$79,513.97	\$94,789	\$86,508	\$66,070	\$54,068
University	\$53,795	\$47,708.38	\$56,874	\$51,905	\$39,642	\$32,441
CALS	\$21,518	\$19,083.35	\$22,749	\$20,762	\$15,857	\$12,976
Other departments	\$1,496	\$1,185.05	\$1,422	\$1,298	\$991	\$811
WRRC	\$12,850	\$11,537.19	\$13,745	\$12,543	\$9,580	\$7,839

Goal 2: To increase recognition, both within and beyond the University, of the WRRC as an excellent provider of skills and knowledge for future generations of water professionals.

	2016	2017	2018	2019	2020	2021
Students Mentored Through WRRC Programs						
Graduate	14	19	16	3	20	10
Undergraduate	7	7	4	2	6	8
Project WET	22	20	22	22	13	8
Master's	12	8	2	3	8	6
Ph.D.	9	10	12	13	12	4
Formal class	15	101	102	131	120	18
Guest lectures	260	92	151	172	70	30

Goal 3: Through the activities of Arizona Project WET, support teacher professional development, offer real-world learning experiences for K-12 students, and train community and business members to facilitate student learning.

	2016	2017	2018	2019	2020	2021
Number of teachers with 7+ hours of professional development	522	563	451	566	398	83
Number of teachers with 90%+ positive response rate to professional development questionnaire	496 (95%)	534 (95%)	421 (92%)	511(90%)	398 (100%)	83 (100%)
Number of students instructed by participating teachers	35,695	44,470	22,614	33,739	31,832	6,797
Number of students engaged	46,776	25,681	32,828	37,678	12,142	19,753
Projected gallons of water saved	3,656,230	2,151,214	2,478,420	1,476,722	769,968	337,000

Goal 4: To enhance WRRC leadership in the dissemination of sound and independent water management and policy information and research results through increasing communication with a broad network of professional contacts around the State and beyond.

	2016	2017	2018	2019	2020	2021
Brown Bag Seminars	21	17	22	16	18	19
Annual Conference Registrations	286	357	333	390	609	1017
Number of Presentations (Estimates of audience attendance)*						
Local (Tucson)	47 (1,410)	21 (630)	32 (960)	21(630)	17	14
State (Arizona)	32 (1,920)	30 (1,800)	7 (420)	20(1200)	5	19
National	25 (2,375)	14 (1,330)	30 (2,850)	12(1140)	10	13
International	10 (1,600)	13 (2,080)	5 (800)	4 (600)	21	12
Arroyo**	N/A	N/A	N/A	N/A	7030	6754
Weekly Wave	2,027	2,198	2,630	2734	2847	3073

*In 2021 the majority of WRRC presentations were held virtually. Presentation attendance statistics are not available for many presentations made. ** Arroyo subscription reporting changed in 2020. Metrics from previous years are not available.

2021 University of Arizona Water Resources Research Center (WRRC) Partnership Metrics

Completed June 1, 2022

Program	Strategic Plan Objective	FTE			Mission Focus (%)			Partners/Collaborators/Engagement											
		WRRC Staff	Student	Volunteer Hours	Research	Instruction	Extension/ Outreach	Intra-university	Inter-university	Private/NGOs		Government						Total	
										Profit	Non-profit	City	County/Regional	State	Federal	School Districts	Tribal Engagement		International Engagement
WRRC 2021 Annual Conference	2,4	0.5	0.5	80	20	30	50	8		6	9	1		2	2		9		37
WRRC Brown Bag Seminars (Including Co-sponsored)	4	0.2				40	60	20	8	10	4	2	6	7	5		11	4	77
WRRC External Advisory Committee	1,4	0.1				30	70		1	15	5	2		4	2		2		31
Arroyo	2,4	0.3	0.2			10	90	2		3				1			19		25
Water Quality Research Program	1,2	0.3			40	50	10	8	15	0	1	2	1	2	15	2	1	2	49
WRRRA 104 Program	2,4	0.4			40	30	30	4	1	3			2	3	2				15
Aqua STEM Program (AS)	3	1.00	1.00	321	5		95	1	1	2	1	2	1	1		15			24
Tucson Water Education Program (TWE)	3	2.00	8.0	40	1		99	5			2	4	1	1	1	9			23
Arizona Water Festivals Program (AWF)	3	2.00	1.00	970	2		98	4	1	10	2	26	1	1	1	31			77
Teacher Professional Development Program (TACD)	3	1.75	1.00		30		70	1	2			9		1	1	128			142
Water Scene Investigation Program (WSI)	3	0.50	1.00		1		99			1	1	3				4			9
Recharge the Rain	3	0.50		0	1		99	2	1		2				1	5			11
Pinal Water Education Program (PWE)	3	1.00		240	1		99	1		2	1	7	1	1		7			20
Underwater ROV's	3	0.25						1	1					1					3
Groundwater Conservation and Education Program	3	1.25		40	5		95							1		6			7
Cobre Valley Ecosystem Services Study	1,4	0.5	0.3	240	60		40	3	1	4	7	4	4	2	2	1	1		29
Lincoln Institute Pinal County Project	1,4	0.3	0.5		70		30	1	2	3	5	8	2	3		1			25
CLIMAS DRPWRC	1,4	0.4			70		30	1											1
Transboundary Aquifer Assessment Program (TAAP)	1,2,4	0.75			90		10	3	6		8				4			11	32
Extension Outreach	1,4	0.1	0.1		10		90	10		2			1						13
Town of Superior	1,4	0.25		50	20		80			3	3	1	2	2	1				12
Santa Cruz Watershed Collaborative	1,4	0.03		40			100	1			4	1	2		3		1		12
ADEQ SWQS Catalog	1,4	0.05	0.25		50		50	1						1					2
Other Programs, Projects, and Initiatives	1,2,4	0.1								1	1	2	2						6
Director's Programs and Activities (not covered elsewhere)	1,2,4				20	20	70	30	62	5	28	2	3	5	15		5	29	184
Totals 2021		14.5	13.8	2021				107	102	70	84	76	29	38	56	208	50	46	866
Totals 2020		28.3	13.5	1961				95	115	67	75	108	28	41	43	208	16	50	846
Totals 2019		16.6	7.8	9451				164	115	78	102	123	52	54	45	230	20	52	1035
Totals 2018		15.4	9.7	7025				82	116	80	130	124	56	59	61	201	17	47	973
Totals 2017		14.6	10.7	7099				127	109	70	99	104	46	57	64	223	16	35	950

Objectives, University of Arizona Water Resources Research Center 2021 Strategic Plan

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- Objective 3:** Through the activities of Arizona Project Wet, support teacher professional development, offer real-world learning experiences for K-12 students, and train community and business members to facilitate student learning.
- Objective 4:** To enhance WRRC leadership in the dissemination of sound and independent water management and policy information and research results through increasing communication with a broad network of professional contacts around the State and beyond.