

University of Arizona Water Resources Research Center
2017 METRICS REPORT

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

2017 Metrics Report Completed June 25, 2018

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.

	2012	2013	2014	2015	2016	2017
Grant Funding Received^a						
Federal grants and contracts	\$462,806	\$286,792	\$245,199	\$374,803	\$397,374	\$548,581.00
State grants and contracts	\$78,816	\$10,435	\$40,569	\$161,062	\$127,882	\$89,100.00
Foundation funds	\$177,463	\$69,038	\$564,249	\$233,249	\$101,871	\$117,500.00
Private grants and contracts	\$300,675	\$773,792	\$100,158	\$411,252	\$473,973	\$270,012.00
WRRC Staffing						
Faculty	4 (1 emeritus)	4 (1 emeritus)	4 (1 emeritus)	4 (1 emeritus)	4 (1 emeritus)	4 (1 emeritus)
Staff	12	13	15	22	21	20
Students	34	53	42	24	19	24
Grant-Funded Projects						
Number of new projects	6	8	11	3	6	5
Project funding	\$592,632	\$127,706	\$385,926	\$154,924	\$559,661	\$387,699.00
Indirect Costs (IDC) Received						
Total	\$50,170	\$123,378	\$55,369	\$76,548	\$89,659	\$79,513.97
University	\$32,160	\$74,027	\$33,221	\$45,928	\$53,795	\$47,708.38
CALS	\$12,864	\$29,611	\$13,288	\$18,372	\$21,518	\$19,083.35
Other departments	nm ^b	\$3,839	\$3,778	\$485	\$1,496	\$1,185.05
WRRC	\$5,146	\$8,005	\$5,082	\$11,763	\$12,850	\$11,537.19

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.

	2012	2013	2014	2015	2016	2017
Students Mentored Through WRRC Programs						
Graduate	14	20	24	20	14	19
Undergraduate	8	18	6	13	7	7
Project WET	12	25	27	22	22	20
WRRC Faculty Participation on Student Committees						
Master's	9	9	6	8	12	8
Ph.D.	8	4	3	5	9	10
Number of Students Instructed in Classroom Setting						
Formal class	12	15	16	15	15	101
Guest lectures	220	205	165	225	260	92

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.

	2012	2013	2014	2015	2016	2017
Number of teachers with 7+ hours of professional development	366	386	550	341	522	563
Number of teachers with 90%+ positive response rate to professional development questionnaire	366 (100%)	363 (94%)	523 (95%)	317 (93%)	496 (95%)	534 (95%)
Number of students instructed by participating teachers	23,400	29,837	46,456	31,759	35,695	44,470
Number of students engaged	21,432	27,611	40,100	33,392	46,776	25,681
Projected gallons of water saved	18,973,169	4,876,691	5,364,514	3,688,811	3,656,230	2,151,214

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.

	2012	2013	2014	2015	2016	2017
Brown Bag Seminars	22	16	18	16	21	17
Annual Conference Registrations	334	302	341	341	286	357

Number of Presentations (Estimates of audience attendance)						
Local (Tucson)	11 (330)	27 (810)	49 (1,470)	16 (480)	47 (1,410)	21 (630)
State (Arizona)	33 (1,980)	27 (1,620)	32 (1,920)	27 (1,620)	32 (1,920)	30 (1,800)
National	12 (1,140)	16 (1,520)	23 (2,185)	18 (1,710)	25 (2,375)	14 (1,330)
International	16 (2,560)	10 (1,600)	5 (800)	7 (1,120)	10 (1,600)	13 (2,080)
Media Contacts						
Radio	3	3	3	2	7	3
Print	8	10	10	8	15	13
Video	5	3	6	2	8	5
Online ^c	nm ^c	nm ^c	8	3	7	22
Subscribers to WRRC Publications						
UA	212	219	209	215	198	198
National	1,802	1,750	1,719	1,852	1,545	1,533
International	12	13	12	15	11	11
Online	1,097	1,396	5,700	5,512	5,956	5,356
Weekly Wave	nm ^b	1,825	1,780	1,822	2,027	2,198

^aFor 2013 and subsequent years accounting shows incoming dollars on a “cash flow” basis, rather than on an “awarded” basis, shown in 2012.

^bnm: not measured; metric added in 2013.

^cOnline media contacts metric added in 2014; 2012 and 2013 online contacts included in Media Contacts – Print.

2017 University of Arizona Water Resources Research Center (WRRC) Partnership Metrics

Completed June 25, 2018

Note: Programs in blue text were added in 2017.

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					Tribal Engagement	International Engagement	Total
										Profit	Non-profit	City	County/Regional	State	Federal	School Districts			
WRRC 2016 Annual Conference	2,4	0.3	0.3	243	33	33	34	4	1	15	11	3	7	3	4		3		51
WRRC Brown Bag Seminars (Including Co-sponsored)	4	0.1	0.1	60		40	60	7		2	3	2	4	2	2			3	25
WRRC External Advisory Committee	1,4	0.1		80		50	50		2	11	7	4	6	2	2		2		36
Desert Water Harvesting Initiative	2,4	0.1					100	1	4						1				6
Arizona Water Resource, Arroyo	2,4	0.2	0.3	30	10		90	3	1	3	3	3	3	4	1				21
Beyond the Mirage - ClipStack™	2,4	0.2					100	12		1	1								14
Water Quality Research Program	1,2	1.3	3.0		40	40	20	8	23		5	32	8	24	10	2	3	12	127
WRRRA §104 Program	1,4	0.2		44	30		70	2		3		1	2	1	2				11
Aqua STEM Program (AS)	3	1.0		311	5		95	1	1	2		2	1	1			9		17
Tucson Water Education Program (TWE)	3	2.3	5.0		1		99	5				5	2	1	1	1	9		23
Arizona Water Festivals Program (AWF)	3	1.8		5694	2		98	4	1	11	2	26	1	1	1	25			72
Teacher Professional Development Program (TACD)	3	2.5			10		90	1	2			9		1		167			180
Water Scene Investigation Program (WSI)	3	0.4			1		99					2				3			5
School Water Audit Program (SWAP)	3	0.2			1		99			2						1			3
Pinal Water Education Program (PWE)	3	1.0			1		99	1		2		5	1	1		7			17
Cobre Valley Needs Assessment	1,4	0.3		150	40		60		1	5	12	3	1	5	2		1		30
Desert Flows Database	1	0.4	0.3	58	80		20	3	2		6			3	6				20
Gila Watershed Planning Project	1,4	0.3	1.0	302	60		40	1	5	4	14	3	2	3	7		2		41
Sky Island Waters	1,4	0.3		127	60		40	1	1	1	7	1	2	1	5		2		21
UA Water Network	1,4	0.1	0.2				100	48			1					2			51
Transboundary Aquifer Assessment Program (TAAP)*	1,4	0.65	0.5		80		20	1	2		1				2			4	10
Director's Programs and Activities (not covered elsewhere)	1,2,4	1.0			20	10	70	24	63	8	26	3	6	4	16		3	16	169
Totals 2017		14.6	10.7	7099				127	109	70	99	104	46	57	64	223	16	35	950
Totals 2016		13.6	10.8	7516				121	103	71	80	105	37	60	49	235	11	30	902
Totals 2015		15.6	9.5	7699				50	151	85	80	73	22	43	50	53	37	30	674
Totals 2014		15.5	9.2	6677				89	99	89	123	82	37	42	42	39	13	42	697
Totals 2013		15.3	8.4	6194				60	94	120	122	103	21	50	47	50	15	8	690

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

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- Objective 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.
- 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.

*Program formally reinstated in 2016