Arizona Department of Water Resources

Statewide Groundwater Level Changes in Arizona Water Years 2020 to 2021, 2011 to 2021, and 2001 to 2021

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INTRODUCTION

Scope and Purpose

The Arizona Department of Water Resources (ADWR) has prepared this report to summarize groundwater level changes observed from annual monitoring of the depth to groundwater within wells located throughout Arizona and adjacent parts of New Mexico for the last 20-year, 10-year, and one-year time periods (2001 - 2021, 2011 - 2021, and 2020 - 2021). This report highlights noteworthy, recent groundwater level trends and compiles data for additional analysis and future investigations.

This report contains water level change data collected and compiled within groundwater basins or sub-basins. Hydrologic interpretations (for causes of observed groundwater level changes) or interpolation of groundwater level changes between wells are not within the scope of this report.

Information provided in this report includes:

- measured groundwater level data for water years: 2001, 2011, 2020 and 2021;
- calculated groundwater level change for each time interval for specific wells;
- maps showing statewide groundwater level changes for the periods 2001 - 2021, 2011 - 2021, and 2020 - 2021;
- Maps depicting 10-year water level change, separated into selected scaled sections; and
- groundwater level change statistics for each basin and sub-basin.

Previous groundwater monitoring reports, or Open File Reports (OFR) can be found on ADWR's website at: https://new.azwater.gov/hydrology/e-library. Each OFR provides a summary of statewide groundwater conditions over the last two decades including general background on water use and the history of groundwater level data collection in Arizona. Also, for a comprehensive assessment of hydrologic activities and previous groundwater level change reports per groundwater basin, see Flora & Davis (2009). Figure 1 (Page 23) shows the boundaries of groundwater basins, sub-basins, and the 10-year maps for selected scaled sections.

Methods

Groundwater level (depth-to-groundwater in feet below land surface, denoted hereafter as "WL") data were queried from ADWR's Groundwater Site Inventory (GWSI) database for water years 2001, 2011, 2020, and 2021. The term Water Year (WY) is used to denote the beginning of the field data collection season, from October 1 of each year to September 30 of the next year. For example, WY 2021 is from October 1, 2020 to September 30, 2021. In the following discussion, a "rise" in WL denotes a decrease in the depth to groundwater, while a "decline" in WL denotes an increase in the depth to groundwater from the land surface. As noted, data from the following WYs are compared to calculate groundwater level change in 2001 - 2021, 2011 - 2021, and 2020 - 2021. Initial datasets queried from GWSI

contain all WL measurements for a well for a WY of interest. Datasets were then reduced to measurements within comparable time frames between WYs, such as a same month or season. Time frames believed to represent "static" aquifer conditions were selected for analysis.

Measurements from wells with cascading conditions were used for analysis if both the starting and ending measurements noted cascading conditions. WL measurements without comparable timeframes or remarks were removed from initial data sets for statistical summaries of depth to groundwater and WL change. Remarked WL measurements describe non-static WL conditions. WL measurements with remarks such as: "Pumping," "Recently Pumped," "Nearby Pumping," "Nearby Recently Pumped," "Injecting," "Nearby Injecting," "Undetermined," and "Other" or without sufficient comments to discern if measurements that were comparable were also removed from the initial datasets.

When multiple WL measurements were made during the time frame of review, such as at automated monitoring sites or index wells with monthly or quarterly measurements, more specific factors were considered to choose comparable WL records. WL records were reviewed per well and reduced to include non-remarked measurements from comparable time frames (e.g. same month for each measurement). Preference was given to measurements without remarks. Preference was also given to measurements occurring from October to February (occasionally March), depending upon location within the state to minimize effects of pumpage. Hydrographs were also reviewed to identify major anomalies or potential sources of error, with respect to water level changes and overall groundwater level trends. Additional factors such as source and measurement method were also considered in selecting measurements for WL change comparison.

Please note that distinctions have not been made for this analysis between aquifers or hydrogeologic units and well construction information such as screened intervals when calculating WL change. Large standard deviations or variances may be observed for WL change data. Wells completed within varying hydrogeologic units or aquifer systems, especially non-regional or local groundwater systems, may exhibit a wide range of WL change data, resulting in the appearance of skewed statistics within a basin or sub-basin.

Once the initial dataset was reduced by removing multiple measurements and comparable WLs were chosen, the groundwater level changes per time period per well were calculated. Appendices 1, 2, and 3 contain groundwater level datasets along with groundwater level changes for WYs 2001 - 2021, 2011 - 2021, and 2020 - 2021. Statewide WL change statistics per basin or sub-basin are provided for WYs 2001 - 2021, 2011 - 2021, and 2020 - 2021 in Appendix 4. WL change distribution graphs are compiled by basin or sub-basin for WL change for WYs 2001 - 2021, 2011 - 2021, and 2020 - 2021 in Figure 2 (Page 24).

GROUNDWATER LEVEL DATA

Tables 1 through 4 represent a summary of WL data per WY queried from GWSI prior to data reduction. Datasets were later reduced as described in the methods section. Additional information on comparable WL measurements per well site is discussed later in this report.

The total number of WL measurements, the range of WLs (in feet), measurement source, the number of wells deemed Unable to Measure (UTM), and a description of the type of conditions encountered at the well site while the WL measurement was made, known as Remarks, are summarized for each WY. Initial datasets used in this analysis are available for download through the ADWR GWSI website: https://app.azwater.gov/gwsi/SearchGWSI.aspx.

Table 1. Summary Water Year 2001.

WY 2001 WL Data (10/1/2000 - 9/30/2001)

Number of Site Visits	Range of Water Levels [ft]	Measurement Source	Unable to Measure (UTM)	Number of Remarked Measurments
3955	-21.29 to 2875	3rd Party WL Portal (3) - 54; ADWR (A) - 2718; US Bureau of Reclamation (B) - 28; Consultant (C) - 7; Driller (D) - 3; New Mexico Office of State Engineer (E) - 6; Military (J) - 33; Owner (O) - 135; Salt River Project (S) - 4; City of Tucson (T) - 620; U.S Geological Survey (U) - 345; Other (Z) - 2	167	366

*Negative depths to water indicate "artesian pressure conditions" that are generally measured with a pressure gage.

Remark Code	D	K	O	P	R	S	T	U	V	W	X	Z
Remark Description	Dry	Cascading	Obstructed	Pumping	Recently Pumping	Nearby Pumping	Nearby Recently Pumped	Nearby Injecting	Foreign Material (Oil)	Well Destroyed	Surface-Water Effects	Other
Remark Frequency	76	30	68	47	35	31	1	4	14	19	38	3

Table 2. Summary Water Year 2011.

WY 2011 WL Data (10/1/2010 - 9/30/2011)

Number of Site Visits	Range of Water Levels [ft]	Measurement Source	Unable to Measure (UTM)	Number of Remarked Measurments
2882	0.5 to 1960.9	3rd Party WL Portal (3) - 113; ADWR (A) - 2009; US Bureau of Reclamation (B) - 29; Consultant (C) - 6; Driller (D) - 2; Owner (O) - 5; Other Reported (R) - 4; City of Tucson (T) - 705; U.S Geological Survey (U) - 6; Other (Z) - 3	76	263

Remark Code	D	J	K	O	P	R	S	V	W	X	Z
Remark Description	Dry	Nearby Injecting	Cascading	Obstructed	Pumping	Recently Pumping	Nearby Pumping	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	21	18	37	38	45	45	15	19	1	11	13

Table 3. Summary Water Year 2020.

WY 2020 WL Data (10/1/2019 - 9/30/2020)

Number of Site Visits	Range of Water Levels [ft]	Measurement Source	Unable to Measure (UTM)	Number of Remarked Measurments
5599	-1.1 to 1960.3	3rd Party WL Portal (3) - 878; ADWR (A) - 4478; US Bureau of Reclamation (B) - 36; Consultant (C) - 1; Driller (D) - 178; Owner (O) - 17; City of Tucson (T) - 3; U.S Geological Survey (U) - 8;	1127	744

*Negative depths to water indicate "artesian pressure conditions" that are generally measured with a pressure gauge.

Remark Code	D	F	J	K	M	O	P	R	S	T	V	W	X	Z
Remark Description	Dry	Flowing	Nearby Injecting	Cascading	Well Plugged	Obstructed	Pumping	Recently Pumping	Nearby Pumping	Nearby Recently Pumped	Foreign Material (Oil)	Well Destroyed	Surface-Water Effects	Other
Remark Frequency	33	3	1	50	4	273	130	31	23	4	37	39	26	90

Table 4. Summary Water Year 2021.

WY 2021 WL Data (10/1/2020 - 9/30/2021)

Number of Site Visits	Range of Water Levels [ft]	Measurement Source	Unable to Measure (UTM)	Number of Remarked Measurments
4473	-3.5 to 1959.5	3rd Party WL Portal (3) - 175; ADWR (A) - 4126; US Bureau of Reclamation (B) - 3; Driller (D) - 150; Owner (O) - 10; Other Reported (R) - 4; City of Tucson (T) - 2; U.S Geological Survey (U) - 3	721	451

*Negative depths to water indicate "artesian pressure conditions" that are generally measured with a pressure gauge.

Remark Code	D	F	K	M	O	P	R	S	T	V	W	X	Z
Remark Description	Dry	Flowing	Cascading	Well Plugged	Obstructed	Pumping	Recently Pumping	Nearby Pumping	Nearby Recently Pumped	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	21	11	34	3	128	117	24	35	1	20	11	7	39

Table 5 is a statistical summary of WL data sorted by basin/Active Management Area (AMA) and sub-basin for WYs 2001, 2011, 2020, and 2021. Each year's statistics were calculated from WLs that did not include a remark.

Table 5 summarizes the following statistics:

- the WL count;
- the minimum WL;
- the maximum WL;
- the median WL; and
- the mean WL.

Table 5. Statistical summary of water level data for WYs 2001, 2011, 2020, and 2021.

Basin/AMA	Sub-basin	WL 2001 Count	Minimum WL 2001 [ft bls]	Maximum WL 2001 [ft bls]	Median WL 2001 [ft bls]	Mean WL 2001 [ft bls]	WL 2011 Count	Minimum WL 2011 [ft bls]	Maximum WL 2011 [ft bls]	Median WL 2011 [ft bls]	Mean WL 2011 [ft bls]	WL 2020 Count	Minimum WL 2020 [ft bls]	Maximum WL 2020 [ft bls]	Median WL 2020 [ft bls]	Mean WL 2020 [ft bls]	WL 2021 Count	Minimum WL 2021 [ft bls]	Maximum WL 2021 [ft bls]	Median WL 2021 [ft bls]	Mean WL 2021 [ft bls]
AGUA FRIA BASIN	AGUA FRIA	6	21.8	455.4	44.8	109.9	11	13.5	448.9	25.2	75.6	15	3.5	478.8	21.4	113.7	15	8.4	479.4	21.2	115.1
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	3	35.3	118.8	50.5	68.2	3	37.4	126.7	59.6	74.6	2	60.3	172.1	116.2	116.2	50	14.2	142.8	0.0	18.5
BIG SANDY BASIN	FORT ROCK	2	127.1	487.9	307.5	307.5	4	123.2	488.0	61.6	152.8	3	126.1	491.7	126.1	205.9	4	126.2	492.0	425.0	367.1
BIG SANDY BASIN	WIKIEUP	6	13.8	373.1	99.3	146.7	13	13.6	534.2	103.5	180.9	12	42.4	534.5	127.6	192.6	15	16.0	535.6	119.3	180.3
BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	52.3	643.4	390.2	369.0	4	51.8	640.1	387.4	366.7	6	51.0	640.4	94.8	261.2	9	51.5	640.4	52.9	256.8
BILL WILLIAMS BASIN	BURRO CREEK	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
BILL WILLIAMS BASIN	CLARA PEAK	3	21.9	363.2	101.3	162.1	2	18.4	99.4	58.9	58.9	2	25.0	103.7	64.4	64.4	2	19.7	97.3	58.5	58.5
BILL WILLIAMS BASIN	SANTA MARIA	4	18.3	91.9	61.1	58.1	5	18.3	106.2	75.0	68.0	6	23.9	77.8	12.0	25.8	6	24.4	100.2	64.8	57.4
BILL WILLIAMS BASIN	SKULL VALLEY	9	34.8	406.1	110.1	171.2	12	29.9	536.8	90.9	146.1	23	39.8	485.4	113.2	158.6	32	55.1	470.6	113.9	163.2
BONITA CREEK BASIN	BONITA CREEK	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
BUTLER VALLEY BASIN	BUTLER VALLEY	17	84.8	513.5	177.4	207.1	12	90.8	514.1	213.7	216.6	22	90.9	515.4	98.8	133.5	23	101.4	515.5	118.6	141.6
CIENEGA CREEK BASIN	CIENEGA CREEK	14	-21.3	239.1	106.9	99.7	16	15.4	206.5	97.1	96.5	150	-1.1	410.2	38.0	59.2	38	-0.7	409.3	74.7	105.9
COCONINO PLATEAU BASIN	COCONINO PLATEAU	7	89.8	2875.0	1079.9	1447.3	2	91.9	269.5	180.7	180.7	3	92.8	463.2	272.9	276.3	4	90.6	463.1	45.3	138.4
DETRITAL VALLEY BASIN	DETRITAL VALLEY	5	57.3	651.0	460.9	414.0	16	57.7	764.0	461.3	406.9	14	57.5	736.8	461.1	420.9	15	57.7	736.5	460.9	373.7
DONNELLY WASH BASIN	DONNELLY WASH	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	26	20.6	392.6	33.1	73.4
DOUGLAS BASIN	DOUGLAS	1	267.5	267.5	267.5	267.5	3	113.4	227.6	113.5	151.5	11	58.7	299.0	153.0	154.4	281	22.2	413.9	92.7	121.4
DOUGLAS BASIN	DOUGLAS INA	26	61.0	323.1	123.2	146.0	20	68.8	354.4	147.8	169.8	23	68.0	348.3	135.6	143.3	26	68.0	438.3	116.8	151.5
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	84.1	95.6	89.9	89.9	2	89.7	98.4	94.1	94.1	2	92.0	103.3	97.7	97.7	25	11.7	368.4	0.0	48.7
DUNCAN VALLEY BASIN	DUNCAN VALLEY	7	21.0	190.9	42.6	73.3	6	22.6	193.3	46.5	67.5	7	23.4	192.3	51.4	78.0	7	23.6	191.5	50.5	60.0
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	6	11.2	317.7	105.3	138.0	3	125.7	316.8	143.0	195.2	4	89.1	315.5	202.7	202.5	4	85.6	315.6	215.1	207.9
GILA BEND BASIN	GILA BEND	33	21.0	635.1	177.2	201.5	42	28.4	650.9	233.8	233.4	266	3.4	676.2	55.2	154.4	47	47.2	678.6	170.8	232.3
GRAND WASH BASIN	GRAND WASH	2	11.7	507.7	259.7	259.7	2	9.3	507.7	258.5	258.5	2	9.1	508.0	258.6	258.6	3	9.1	507.7	25.8	180.9
HARQUAHALA BASIN	HARQUAHALA INA	40	26.6	599.2	400.4	372.3	36	26.0	607.3	389.5	339.9	56	19.6	585.1	85.5	211.0	44	20.2	653.3	322.7	269.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	10	377.2	652.5	561.2	539.6	21	262.8	722.0	582.4	546.5	32	275.3	957.6	548.8	506.9	51	275.5	957.5	502.7	472.9
KANAB PLATEAU BASIN	KANAB PLATEAU	2	82.4	611.1	346.8	346.8	2	484.7	612.3	548.5	548.5	3	88.8	611.4	482.7	394.3	6	89.5	610.8	484.2	395.5
LAKE HAVASU BASIN	LAKE HAVASU	1	60.0	60.0	60.0	60.0	1	26.1	26.1	26.1	26.1	1	27.4	27.4	27.4	27.4	1	27.0	27.0	27.0	27.0
LAKE MOHAVE BASIN	LAKE MOHAVE	3	336.5	425.8	350.4	370.9	3	338.2	427.4	346.2	370.6	2	339.5	339.5	169.8	169.8	2	340.0	425.8	382.9	382.9
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	45	5.6	303.1	79.4	104.2	12	0.5	306.7	18.8	88.4	10	16.2	308.8	43.8	113.1	10	15.6	309.0	31.4	110.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	1190	2.7	1962.8	124.8	237.0	174	9.3	1960.9	117.1	317.2	213	17.0	1960.3	138.8	273.2	206	17.1	1959.5	130.2	275.5
LOWER GILA BASIN	CHILDS VALLEY	2	681.0	809.2	745.1	745.1	1	673.7	673.7	673.7	673.7	29	18.3	669.0	0.0	53.3	2	668.4	668.4	334.2	334.2
LOWER GILA BASIN	DENDORA VALLEY	2	75.7	222.4	149.1	149.1	1	89.3	89.3	89.3	89.3	26	19.5	207.6	0.0	37.1	0	0.0	0.0	N/A	N/A
LOWER GILA BASIN	WELLTON - MOHAWK	42	5.9	721.1	86.3	158.2	34	13.1	384.3	107.1	147.4	586	2.2	633.0	12.2	60.0	49	13.9	634.0	81.6	141.9
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	73.8	73.8	73.8	73.8	1	70.0	70.0	70.0	70.0	1	74.9	74.9	74.9	74.9	31	2.8	358.6	18.0	59.5
LOWER SAN PEDRO BASIN	MAMMOTH	31	1.5	501.7	23.6	59.4	22	15.9	492.8	33.9	73.9	26	20.1	482.6	28.8	60.2	214	-3.5	482.1	18.0	45.6
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	28	30.4	642.5	380.1	360.5	26	22.4	671.5	370.2	349.6	32	25.9	688.6	386.6	343.3	30	28.1	691.0	393.4	370.8
MEADVIEW BASIN	MEADVIEW	4	402.0	403.2	402.2	402.4	5	133.5	422.0	421.3	363.8	4	129.3	430.1	429.8	354.7	5	126.8	431.5	430.6	311.3
MORENCI BASIN	MORENCI	20	4.5	520.9	35.4	87.2	5	18.0	503.7	66.4	141.4	6	7.7	504.2	55.0	122.3	6	8.6	504.9	59.8	126.6
PARIA BASIN	PARIA	17	55.5	459.4	338.9	242.6	1	503.5	503.5	503.5	503.5	9	110.4	519.6	120.3	164.3	9	110.3	520.1	147.7	178.9
PARKER BASIN	CIBOLA VALLEY	1	326.4	326.4	326.4	326.4	1	335.9	335.9	335.9	335.9	1	312.4	312.4	312.4	312.4	1	319.4	319.4	319.4	319.4
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	8	38.8	76.6	38.9	43.7	4	39.9	77.8	40.1	49.5	1	77.4	77.4	77.4	77.4	1	77.5	77.5	77.5	77.5
PARKER BASIN	LA POSA PLAINS	4	35.8	526.4	101.3	191.2	3	64.9	138.6	64.9	67.8	3	67.5	528.0	145.4	247.0	3	67.5	146.2	67.5	71.2

Table 5. Statistical summary of water level data for WYs 2001, 2011, 2020, 2021 Continued.

Basin/AMA	Sub-basin	WL 2001 Count	Minimum WL 2001 [ft bls]	Maximum WL 2001 [ft bls]	Median WL 2001 [ft bls]	Mean WL 2001 [ft bls]	WL 2011 Count	Minimum WL 2011 [ft bls]	Maximum WL 2011 [ft bls]	Median WL 2011 [ft bls]	Mean WL 2011 [ft bls]	WL 2020 Count	Minimum WL 2020 [ft bls]	Maximum WL 2020 [ft bls]	Median WL 2020 [ft bls]	Mean WL 2020 [ft bls]	WL 2021 Count	Minimum WL 2021 [ft bls]	Maximum WL 2021 [ft bls]	Median WL 2021 [ft bls]	Mean WL 2021 [ft bls]
PEACH SPRINGS BASIN	PEACH SPRINGS	4	147.1	843.5	377.6	436.4	7	146.6	530.0	222.3	258.9	5	147.4	832.3	451.0	496.5	6	161.0	831.4	306.4	405.2
PHOENIX AMA	CAREFREE	10	100	481.3	405.45	325.3	7	25.9	357.4	148.4	188.1	9	26.7	296.35	175.8	172.7	10	28.1	298	191.15	188.4
PHOENIX AMA	EAST SALT RIVER	107	9.5	865.4	325	322.2	127	18.4	851.09	264.5	285.8	302	15.5	845.17	302.4	296.1	296	10.6	842.64	318	310.2
PHOENIX AMA	FOUNTAIN HILLS	14	11.8	527.7	256.75	238.2	12	14.3	651.2	64.5	167.2	10	13	351.1	65.35	127.6	11	14.7	647.7	94.7	184.5
PHOENIX AMA	HASSAYAMPA	51	21.8	658.8	286.2	253.8	52	25.3	656.7	175.5	205.6	95	46.2	654.6	185.7	202.9	94	47	654.3	187.6	204.0
PHOENIX AMA	LAKE PLEASANT	7	39.1	284.8	214.7	182.8	12	19	274.6	99.05	119.5	12	10.1	275	102.6	128.6	13	28.9	276	126.9	138.9
PHOENIX AMA	RAINBOW VALLEY	26	238.9	568.7	390	399.8	26	242.5	493.8	327	321.6	26	259.4	579.3	378.3	351.7	32	261.7	579.7	360	293.3
PHOENIX AMA	WEST SALT RIVER	94	13.1	595.4	168.5	208.8	180	14.6	615.4	208.41	212.4	288	13.46	606.2	151.95	170.9	275	12	605.8	153.6	171.9
PINAL AMA	AGUIRRE VALLEY	0	0	0	N/A	N/A	0	0	0	N/A	N/A	0	0	0	N/A	N/A	0	0	0	N/A	N/A
PINAL AMA	ELOY	123	39	485.2	229.6	225.5	102	27.9	475.2	226	230.6	255	33.1	606.6	240	251.5	276	14.6	616.6	244	256.1
PINAL AMA	MARICOPA - STANFIELD	39	47.8	671.1	274.6	307.9	45	37.2	656.7	298.2	292.7	54	28.9	674.8	148.95	245.4	53	28.5	677.4	303.7	298.2
PINAL AMA	SANTA ROSA	0	0	0	N/A	N/A	0	0	0	N/A	N/A	0	0	0	N/A	N/A	0	0	0	N/A	N/A
PINAL AMA	VEKOL VALLEY	9	212.1	526.5	332.5	347.9	11	213.1	526.4	342.2	351.0	9	211.9	519	341.4	351.8	9	211.2	518.9	341.1	352.8
PRESCOTT AMA	LITTLE CHINO VALLEY	88	1.5	501	219.2	223.5	87	20	506	257.33	248.4	112	3.8	445.1	189.35	183.2	128	3	512	234.7	220.0
PRESCOTT AMA	UPPER AGUA FRIA	48	30	706.2	180.665	254.8	56	32.4	683.1	126.675	206.7	50	1.1	594.1	75.345	136.2	59	35.06	611.1	214.19	243.5
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	22	74.0	434.0	236.4	227.1	20	76.4	437.3	259.2	244.6	23	77.6	439.0	196.3	189.4	21	79.9	439.6	233.3	228.8
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	16	60.2	1060.1	597.7	536.4	26	38.2	1066.0	490.7	530.9	26	31.2	1070.5	492.0	517.4	30	31.3	1069.9	497.4	492.1
SAFFORD BASIN	GILA VALLEY	20	13.8	629.0	47.9	94.9	15	19.2	634.4	48.3	112.7	23	21.0	641.4	49.2	81.8	23	20.8	642.8	50.9	96.2
SAFFORD BASIN	SAN CARLOS VALLEY	2	639.1	719.1	679.1	679.1	2	676.1	723.2	699.7	699.7	2	709.4	728.0	718.7	718.7	2	704.0	704.0	352.0	352.0
SAFFORD BASIN	SAN SIMON VALLEY	38	19.2	517.7	127.2	148.5	32	32.3	583.2	133.4	181.7	35	50.9	599.8	114.5	154.3	257	15.4	608.8	100.4	144.7
SALT RIVER BASIN	BLACK RIVER	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
SALT RIVER BASIN	SALT RIVER CANYON	2	20.9	538.7	279.8	279.8	2	143.3	147.0	145.2	145.2	2	165.3	168.5	166.9	166.9	2	165.4	168.4	166.9	166.9
SALT RIVER BASIN	SALT RIVER LAKES	139	8.8	93.7	37.2	35.9	1	3.2	3.2	3.2	3.2	4	9.6	23.6	21.2	18.9	4	5.5	27.1	25.4	20.9
SALT RIVER BASIN	WHITE RIVER	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	3	29.3	612.4	203.9	281.9	1	31.1	31.1	31.1	31.1	13	8.6	205.6	18.0	32.2	22	0.0	205.6	9.0	19.7
SAN RAFAEL BASIN	SAN RAFAEL	7	5.2	204.1	113.1	86.2	6	6.3	211.2	74.1	83.8	19	5.9	211.9	13.5	50.6	21	7.7	279.8	27.8	61.4
SAN SIMON WASH	SAN SIMON WASH	4	8.4	10.6	8.4	8.9	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
SANTA CRUZ AMA	SANTA CRUZ AMA	122	3.4	301	15.005	46.8	112	7.83	418.5	24.015	65.8	228	2.5	514.3	24.2	57.5	146	3.3	329	26.655	60.4
SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
TIGER WASH BASIN	TIGER WASH	1	29.3	29.3	29.3	29.3	1	217.9	217.9	217.9	217.9	2	30.1	219.2	124.7	124.7	2	36.9	219.7	128.3	128.3
TONTO CREEK BASIN	TONTO CREEK	28	5.1	203.4	121.5	101.2	27	4.5	120.9	66.0	69.2	29	5.1	190.0	69.9	62.8	45	5.2	190.1	39.5	58.3
TUCSON AMA	AVRA VALLEY	189	10.49	734.3	338.2	309.6	266	7.76	742.8	272.97	268.4	519	2.3	741.08	177.3	161.3	88	12.68	601.5	185.6	198.1
TUCSON AMA	UPPER SANTA CRUZ	640	7.7	561.4	189.2	202.3	591	11.02	621.09	197.31	210.5	1088	3.6	787.2	144.235	157.4	294	16.2	788.6	143.3	154.1
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	9	15.4	819.4	426.3	509.4	7	13.0	816.1	399.8	392.0	6	15.9	420.6	206.7	211.6	10	15.3	422.9	62.7	133.3
UPPER SAN PEDRO BASIN	ALLEN FLAT	2	338.2	370.9	354.6	354.6	2	0.0	0.0	0.0	0.0	0	0.0	0.0	N/A	N/A	0	0.0	0.0	N/A	N/A
UPPER SAN PEDRO BASIN	SIERRA VISTA	234	1.2	608.5	172.5	174.3	79	3.8	611.2	204.2	213.4	99	6.6	695.7	200.3	207.8	78	9.5	693.6	182.5	211.8
VERDE RIVER BASIN	BIG CHINO	37	3.1	996.0	85.1	130.6	153	1.2	996.8	133.3	148.3	244	3.0	567.5	138.8	154.7	217	3.1	998.2	110.1	142.4
VERDE RIVER BASIN	VERDE CANYON	49	37.0	1378.6	166.7	234.2	67	18.4	722.8	182.5	174.5	43	17.5	721.0	124.9	149.4	86	16.7	721.4	133.6	153.1
VERDE RIVER BASIN	VERDE VALLEY	58	2.7	835.6	144.9	254.9	62	2.4	725.1	89.8	173.9	85	2.6	815.6	85.0	192.8	82	3.7	819.1	116.2	217.7
VIRGIN RIVER BASIN	VIRGIN RIVER	8	65.4	380.2	266.1	237.4	8	45.9	378.3	267.0	235.3	8	51.7	379.6	234.0	197.5	11	50.5	380.4	202.5	210.7
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	35	61.5	334.8	90.1	76.8	25	32.6	344.2	100.9	97.8	11	61.7	353.2	112.5	120.5	11	62.5	470.0	62.5	124.7
WILLCOX BASIN	WILLCOX	47	23.0	423.5	243.6	226.3	84	10.1	441.0	88.4	148.2	92	7.4	459.4	98.4	173.1	318	5.2	498.7	196.3	183.1
YUMA BASIN	YUMA	15	9.9	145.5	95.8	78.4	38	16.3	168.8	23.8	47.3	55	18.0	183.3	29.8	52.7	20	16.5	180.1	33.8	81.1
TOTAL		3955	-21.3	2875.0	173.8	225.9	2882	0.5	1960.9	191.8	223.6	5497	-1.1	1960.3	177.9	210.0	4355	-3.5	1959.5	181.6	221.1

GROUNDWATER LEVEL CHANGE

Statewide: Water Years 2001 - 2021

General Observations

Appendix 1 provides a table of information for WL measurements made in Arizona for WYs 2001 and 2021, as well as the calculated WL changes for this 20-year timeframe. The table is sorted by basin/AMA, sub-basin, and cadastral or well site. Groundwater level change data are calculated for comparable WL measurement pairs for each available well site in GWSI. This summary consists of 840 records that include all reduced data and all remarked comparable measurements (see Methods section).

Plate 1 shows long-term (20-year) WL change statewide (from data in Appendix 1). Plate 1 shows clusters of wells with either rising or declining WLs. Rises in groundwater level are shown in blue, declines in red, and no change (less than one foot) are shown in green. The size of well symbols are proportional to the magnitude of groundwater level changes. WL measurements with remarks were plotted if either one or both WL measurements had an associated remark such as pumping, cascading, etc. WL measurements with remarks are indicated with an asterisk posted within the well symbol and can be reviewed in Appendix 1.

In general, concentrations of WL rise occurred in the central and south-central areas of the state. WL declines are observed throughout the southeastern, central, and north-central regions of Arizona.

Statistics by Sub-basin

Appendix 1 data were further reduced by removing selected measurements that were inappropriate for statistical analyses due to measurements not representing static conditions. A total of 6 records were not used in statistical calculations, leaving 834 comparable groundwater level measurements for WL change statistics (Table 6).

Table 6 is sorted by basin/AMA and then by sub-basin and summarizes:

- the well count;
- the number of wells with rising WLs;
- the number of wells with declining WLs;
- the number of wells with no change (less than 1-foot change);
- the range of WL change;
- median, mean, and standard deviation of WL change;
- the mean rate of WL change per year; and
- the median rate of WL change per year.

The East Salt River (ESR) Sub-basin of the Phoenix AMA had the largest number of rising groundwater level measurements (40) and the Eloy (ELO) Sub-basin of the Pinal AMA had the largest number of declining groundwater level measurements (53) of any sub-basin in the state during WYs 2001 - 2021.

Statewide, for the period WYs 2001 – 2021, WL change ranged from a maximum decline of -172.9 feet in the San Simon Valley (SSI) Sub-basin to a maximum rise of 170.4 feet in the West Salt River (WSR) Sub-basin of the Phoenix AMA. The mean WL change was negative in 67.1 percent of the basins measured and positive in 20.0 percent of basins measured. Negligible mean WL change (WL change less than one foot) was observed in 12.9 percent of basins measured.

Both the greatest median groundwater level decline (-64.9 feet) and the greatest mean groundwater level decline (-64.9 feet) occurred in the San Carlos Valley (GSK) Sub-basin, with sample size of (1). The San Carlos Valley Sub-basin also had the greatest negative mean rate of WL Change (-3.2 feet per year) and the greatest negative median rate of WL Change (-3.2 feet per year). The Wilcox Basin (WIL) also had a mean rate of WL Change at -3.2 feet per year. Both the greatest median rise in groundwater level (99.3 feet) and the greatest mean rise in groundwater level (66.4 feet) occurred in the Carefree (CRF) Sub-basin of the Phoenix AMA. The Carefree (CRF) Sub-basin also showed the greatest positive mean rate of WL change (3.3 feet per year) and the greatest positive median rate of WL change (5.0 feet per year).

Statewide statistics shown in Table 6 include a well count of 834 wells: 254 wells with rising WLs, 525 wells with declining WLs, and 55 wells with no change in WL.

Other statewide statistics include:

- range of WL change from -172.9 feet to 170.4 feet
- median WL change of -4.7 feet;
- mean WL change of -5.5 feet;
- standard deviation of WL change of 38.9 feet;
- mean rate of WL change of -0.3 feet per year; and
- median rate of WL change of -0.2 feet per year.

Table 6. Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by sub-basin – WYs 2001 to 2021.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
AGUA FRIA BASIN	AGUA FRIA	4	0	2	2	-23.8 to 0.6	-1.0	-6.3	11.7	-0.3	-0.1
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	0	2	0	-24 to -15.4	-19.7	-19.7	6.1	-1.0	-1.0
BIG SANDY BASIN	FORT ROCK	2	0	1	1	-3.8 to 0.9	-1.5	-1.5	3.3	-0.1	-0.1
BIG SANDY BASIN	WIKIEUP	3	2	1	0	-2.2 to 3.2	1.2	0.7	2.7	0.0	0.1
BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	2	0	2	-0.9 to 11.2	1.0	3.1	5.5	0.2	0.0
BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BILL WILLIAMS BASIN	CLARA PEAK	1	1	0	0	4 to 4	4.0	4.0	N/A	0.2	0.2
BILL WILLIAMS BASIN	SANTA MARIA	4	1	3	0	-6.1 to 1.6	-3.7	-3.0	3.3	-0.1	-0.2
BILL WILLIAMS BASIN	SKULL VALLEY	7	2	5	0	-8.1 to 33.9	-3.9	1.7	14.7	0.1	-0.2
BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BUTLER VALLEY BASIN	BUTLER VALLEY	6	0	6	0	-116.9 to -2	-19.4	-31.2	42.9	-1.6	-1.0
CIENEGA CREEK BASIN	CIENEGA CREEK	4	1	3	0	-12.1 to 11	-4.1	-2.3	9.7	-0.1	-0.2
COCONINO PLATEAU BASIN	COCONINO PLATEAU	1	0	0	1	-0.8 to -0.8	-0.8	-0.8	N/A	0.0	0.0
DETRITAL VALLEY BASIN	DETRITAL VALLEY	2	0	0	2	-0.4 to 0.2	-0.1	-0.1	0.4	0.0	0.0
DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
DOUGLAS BASIN	DOUGLAS	1	0	1	0	-14.6 to -14.6	-14.6	-14.6	N/A	-0.7	-0.7
DOUGLAS BASIN	DOUGLAS INA	15	0	15	0	-115.2 to -2	-29.6	-35.5	30.6	-1.8	-1.5
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	2	0	-7.8 to -7	-7.4	-7.4	0.5	-0.4	-0.4
DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	0	5	1	-16 to -0.6	-3.4	-5.9	5.9	-0.3	-0.2
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	3	1	2	0	-22 to 2.1	-2.8	-7.6	12.7	-0.4	-0.1
GILA BEND BASIN	GILA BEND	8	1	7	0	-105.2 to 10.1		-54.3	36.3	-2.7	-2.8
GRAND WASH BASIN	GRAND WASH	1	0	0	1	0 to 0	0.0	0.0	N/A	0.0	0.0
HARQUAHALA BASIN	HARQUAHALA INA	20	6	14	0	-128.2 to 25.2	-7.5	-29.2	45.8	-1.5	-0.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	6	0	3	3	-25.8 to 0.3	-1.2	-5.6	10.1	-0.3	-0.1
KANAB PLATEAU BASIN	KANAB PLATEAU	2	0	1	1	-11.7 to 0.7	-5.5	-5.5	8.8	-0.3	-0.3
LAKE HAVASU BASIN	LAKE HAVASU	1	1	0	0	33 to 33	33.0	33.0	N/A	1.7	1.7
LAKE MOHAVE BASIN	LAKE MOHAVE	2	0	1	1	-3.5 to 0	-1.8	-1.8	2.5	-0.1	-0.1
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	3	0	2	1	-6.2 to 0.8	-5.9	-3.8	4.0	-0.2	-0.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	49	19	28	2	-105.5 to 49.8	-2.7	-8.4	25.9	-0.4	-0.1
LOWER GILA BASIN	CHILDS VALLEY	1	1	0	0	12.6 to 12.6	12.6	12.6	N/A	0.6	0.6
LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
LOWER GILA BASIN	WELLTON - MOHAWK	17	3	11	3	-41.5 to 67.1	-3.8	-4.2	22.3	-0.2	-0.2
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	0	1	-0.8 to -0.8	-0.8	-0.8	N/A	0.0	0.0
LOWER SAN PEDRO BASIN	MAMMOTH	9	3	6	0	-37.3 to 60.7	-2.3	-0.7	28.2	0.0	-0.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	20	1	18	1	-155.9 to 1.5	-25.4	-38.3	42.0	-1.9	-1.3
MEADVIEW BASIN	MEADVIEW	1	0	1	0	-29.5 to -29.5	-29.5	-29.5	N/A	-1.5	-1.5
MORENCI BASIN	MORENCI	5	1	4	0	-34.9 to 16.1	-1.9	-5.1	18.5	-0.3	-0.1
PARIA BASIN	PARIA	1	0	1	0	-60.7 to -60.7	-60.7	-60.7	N/A	-3.0	-3.0
PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	-0.9 to -0.9	-0.9	-0.9	N/A	0.0	0.0
PARKER BASIN	LA POSA PLAINS	2	0	2	0	-9.1 to -2.1	-5.6	-5.6	4.9	-0.3	-0.3
PEACH SPRINGS BASIN	PEACH SPRINGS	1	0	1	0	-14.3 to -14.3	-14.3	-14.3	N/A	-0.7	-0.7

Table 6. Continued.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
PHOENIX AMA	CAREFREE	5	4	1	0	-44 to 141	99.3	66.4	77.4	3.3	5.0
PHOENIX AMA	EAST SALT RIVER	52	40	11	1	-39.6 to 111	33.8	32.3	34.7	1.6	1.7
PHOENIX AMA	FOUNTAIN HILLS	5	0	5	0	-120 to -1.6	-4.8	-28.1	51.5	-1.4	-0.2
PHOENIX AMA	HASSAYAMPA	30	16	14	0	-45.8 to 145.3	3.8	15.9	52.0	0.8	0.2
PHOENIX AMA	LAKE PLEASANT	3	2	1	0	-30.9 to 9.8	8.8	-4.1	23.2	-0.2	0.4
PHOENIX AMA	RAINBOW VALLEY	16	2	14	0	-128.3 to 58.3	-13.4	-16.5	37.8	-0.8	-0.7
PHOENIX AMA	WEST SALT RIVER	50	14	33	3	-34.1 to 170.4	-4.7	3.2	38.2	0.2	-0.2
PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	ELOY	80	25	53	2	-91.7 to 106.1	-9.3	-11.8	36.3	-0.6	-0.5
PINAL AMA	MARICOPA - STANFIELD	19	14	5	0	-18.4 to 130.8	46.4	39.7	47.0	2.0	2.3
PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	VEKOL VALLEY	8	3	3	2	-3 to 7.6	0.5	0.8	3.5	0.0	0.0
PRESCOTT AMA	LITTLE CHINO VALLEY	33	4	29	0	-143.9 to 31.5	-28.2	-32.2	36.3	-1.6	-1.4
PRESCOTT AMA	UPPER AGUA FRIA	19	4	13	2	-51.4 to 81.4	-6.3	-1.5	28.4	-0.1	-0.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	15	1	13	1	-130.9 to 21.8	-13.7	-28.3	40.4	-1.4	-0.7
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	9	3	3	3	-18.1 to 30.3	-0.7	-0.1	13.1	0.0	0.0
SAFFORD BASIN	GILA VALLEY	13	1	11	1	-24.8 to 17.5	-8.8	-9.0	11.5	-0.4	-0.4
SAFFORD BASIN	SAN CARLOS VALLEY	1	0	1	0	-64.9 to -64.9	-64.9	-64.9	N/A	-3.2	-3.2
SAFFORD BASIN	SAN SIMON VALLEY	14	0	14	0	-172.9 to -1.9	-18.1	-35.7	47.6	-1.8	-0.9
SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SALT RIVER BASIN	SALT RIVER CANYON	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SALT RIVER BASIN	SALT RIVER LAKES	1	1	0	0	6.1 to 6.1	6.1	6.1	N/A	0.3	0.3
SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	1	0	1	0	-2.2 to -2.2	-2.2	-2.2	N/A	-0.1	-0.1
SAN RAFAEL BASIN	SAN RAFAEL	4	0	4	0	-19.6 to -2.1	-9.1	-10.0	7.3	-0.5	-0.5
SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SANTA CRUZ AMA	SANTA CRUZ AMA	28	3	23	2	-36 to 2.6	-7.2	-11.6	11.5	-0.6	-0.4
SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TIGER WASH BASIN	TIGER WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TONTO CREEK BASIN	TONTO CREEK	6	3	2	1	-2.9 to 10.1	1.3	2.7	5.3	0.1	0.1
TUCSON AMA	AVRA VALLEY	42	28	10	4	-53.3 to 156.4	25.8	25.9	42.6	1.3	1.3
TUCSON AMA	UPPER SANTA CRUZ	36	15	19	2	-92 to 110.7	-3.3	-0.4	35.7	0.0	-0.2
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	2	0	1	1	-16.2 to 0.1	-8.1	-8.1	11.5	-0.4	-0.4
UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
UPPER SAN PEDRO BASIN	SIERRA VISTA	37	5	32	0	-60.8 to 11.6	-9.4	-11.1	13.1	-0.6	-0.5
VERDE RIVER BASIN	BIG CHINO	18	4	14	0	-16 to 9.3	-8.4	-6.5	8.0	-0.3	-0.4
VERDE RIVER BASIN	VERDE CANYON	11	9	1	1	-63.6 to 75.6	10.5	13.1	34.5	0.7	0.5
VERDE RIVER BASIN	VERDE VALLEY	31	6	22	3	-50.2 to 31.5	-5.2	-7.1	15.8	-0.4	-0.3
VIRGIN RIVER BASIN	VIRGIN RIVER	3	0	2	1	-2.8 to -0.1	-1.7	-1.5	1.4	-0.1	-0.1
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	1	0	1	0	-17.9 to -17.9	-17.9	-17.9	N/A	-0.9	-0.9
WILLCOX BASIN	WILLCOX	18	1	17	0	-149.2 to 7.1	-58.8	-64.0	42.7	-3.2	-2.9
YUMA BASIN	YUMA	5	0	4	1	-35.7 to 0.1	-6.1	-13.0	15.5	-0.6	-0.3
Statewide Statistics		834	254	525	55	-172.9 to 170.4	-4.7	-5.5	38.9	-0.3	-0.2

Statewide: Water Years 2011 -2021

General Observations

Appendix 2 provides information for groundwater level measurements made in Arizona for WYs 2011 and 2021, as well as the calculated WL changes for this 10-year timeframe. This summary includes 1,097 records for all reduced data and all remarked comparable measurements. Plate 2 shows long-term WL change statewide as plotted from data in Appendix 2.

Wells showing groundwater level rises and declines are shown in Plate 2. In general, large declines are seen in the southeastern and north-central portions of the state. Large rises in groundwater levels are mostly observed in central and south-central Arizona.

The statewide 10-year WL change data have been separated into selected scaled sections (Plates 4-17). These sections may encompass one or more groundwater basins based on their selected scaled areas for easier viewing.

Statistics by Sub-basin

Appendix 2 data were further reduced for statistical purposes by removing remarked measurements. A total of 17 records were not used in statistical calculations, leaving 1,080 comparable WL measurements to calculate WL change statistics summarized by sub-basin in Table 7.

The East Salt River (ESR) Sub-basin of the Phoenix AMA had the largest number of rising groundwater level measurements (54) for the time period WYs 2011 - 2021. The West Salt River (WSR) Sub-basin had the largest number of water level declines (59).

Statewide, for the period WYs 2011 – 2021, WL change ranged from a maximum decline of -145.5 feet in the San Simon Valley (SSI) of the Safford Basin to a maximum rise of 130.2 feet in the Avra Valley (AVR) Sub-basin of the Tucson AMA. The mean WL change was negative in 68.1 percent of the basins measured and positive in 14.5 percent of basins measured. Negligible mean WL change (WL change less than one foot) was observed in 17.4 percent of basins measured.

The greatest median groundwater level decline (-54.5 feet) occurred in the Douglas (DOU) Basin with a sample size of (1). The second greatest median groundwater level decline (-42.6 feet) was found in the Gila Bend (GIL) Basin as well as the greatest mean groundwater level decline (-60.4). The greatest median rise in groundwater level (12.2 feet) occurred in the Maricopa-Stanfield (MST) Sub-basin of the Pinal AMA, whereas the greatest mean rise in groundwater level (20.8 feet) occurred in the Carefree (CRF) Sub-basin of the Phoenix AMA. The Carefree (CRF) Sub-basin also showed the greatest positive mean rate of WL change (2.1 feet per year) while the greatest positive median rate of WL change (1.2 feet per year) was found within the Maricopa-Stanfield (MST) Sub-basin. The greatest negative mean rate of WL change (-6.0 feet per year) occurred in the Gila Bend (GIL) Basin, and the greatest negative median rate of WL Change (-5.5 feet per year) occurred in the Douglas (DOU) Basin.

Statewide statistics shown in Table 7 include 1,080 wells: 291 wells with rising WLs, 667 wells with declining WLs, and 122 wells with no change in WL.

Other statewide statistics include:

- range of WL change from -145.5 to 130.2 feet;
- median WL change of -3.1 feet;
- mean WL change of -5.0 feet;
- standard deviation of WL change of 22.4 feet;
- mean rate of WL change of -0.5 feet per year; and
- median rate of WL change of -0.3 feet per year.

Table 7. Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by sub-basin – WYs 2011 to 2021.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
AGUA FRIA BASIN	AGUA FRIA	6	0	5	1	-30.3 to -0.6	-1.8	-6.3	11.7	-0.6	-0.2
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	0	2	0	-16.1 to -6.3	-11.2	-11.2	6.9	-1.1	-1.1
BIG SANDY BASIN	FORT ROCK	2	0	2	0	-3.7 to -3	-3.4	-3.4	0.5	-0.3	-0.3
BIG SANDY BASIN	WIKIEUP	9	1	7	1	-22.6 to 1.2	-2.6	-7.9	9.7	-0.8	-0.3
BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	1	1	2	-2.4 to 5.2	0.0	0.7	3.2	0.1	0.0
BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BILL WILLIAMS BASIN	CLARA PEAK	2	1	1	0	-1.3 to 2.1	0.4	0.4	2.4	0.0	0.0
BILL WILLIAMS BASIN	SANTA MARIA	4	1	3	0	-6.1 to 2.7	-3.7	-2.7	3.8	-0.3	-0.4
BILL WILLIAMS BASIN	SKULL VALLEY	7	0	6	1	-17.2 to -0.1	-2.2	-4.5	5.8	-0.4	-0.2
BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BUTLER VALLEY BASIN	BUTLER VALLEY	7	0	7	0	-106.5 to -1.4	-13.5	-35.8	46.0	-3.6	-1.4
CIENEGA CREEK BASIN	CIENEGA CREEK	9	2	2	5	-4.8 to 2.3	0.4	-0.2	2.2	0.0	0.0
COCONINO PLATEAU BASIN	COCONINO PLATEAU	1	1	0	0	1.3 to 1.3	1.3	1.3	N/A	0.1	0.1
DETRITAL VALLEY BASIN	DETRITAL VALLEY	8	0	2	6	-13.7 to 0.6	0.2	-2.9	6.0	-0.3	0.0
DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
DOUGLAS BASIN	DOUGLAS	1	0	1	0	-54.5 to -54.5	-54.5	-54.5	N/A	-5.5	-5.5
DOUGLAS BASIN	DOUGLAS INA	12	0	12	0	-83.9 to -2.1	-26.6	-30.8	22.1	-3.1	-2.7
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	2	0	-4.2 to -2.2	-3.2	-3.2	1.4	-0.3	-0.3
DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	1	4	1	-6.8 to 1.8	-2.7	-2.5	2.9	-0.3	-0.3
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	1	1	0	0	1.2 to 1.2	1.2	1.2	N/A	0.1	0.1
GILA BEND BASIN	GILA BEND	10	0	10	0	-145.5 to -19.1	-42.6	-60.4	42.2	-6.0	-4.3
GRAND WASH BASIN	GRAND WASH	2	0	0	2	0 to 0.2	0.1	0.1	0.1	0.0	0.0
HARQUAHALA BASIN	HARQUAHALA INA	19	3	16	0	-91.1 to 16.4	-17.8	-34.5	36.4	-3.5	-1.8
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	11	1	7	3	-15.4 to 10.9	-2.6	-4.5	7.5	-0.4	-0.3
KANAB PLATEAU BASIN	KANAB PLATEAU	2	2	0	0	1.7 to 1.9	1.8	1.8	0.1	0.2	0.2
LAKE HAVASU BASIN	LAKE HAVASU	1	0	0	1	-0.9 to -0.9	-0.9	-0.9	N/A	-0.1	-0.1
LAKE MOHAVE BASIN	LAKE MOHAVE	2	1	1	0	-1.8 to 1.6	-0.1	-0.1	2.4	0.0	0.0
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	3	2	1	0	-2.3 to 2.5	1.5	0.6	2.5	0.1	0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	61	14	43	4	-59.9 to 27.3	-3.9	-7.5	14.3	-0.7	-0.4
LOWER GILA BASIN	CHILDS VALLEY	1	1	0	0	5.3 to 5.3	5.3	5.3	N/A	0.5	0.5
LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
LOWER GILA BASIN	WELLTON - MOHAWK	20	4	14	2	-60.5 to 67.9	-3.6	-8.6	26.3	-0.9	-0.4
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	1	0	-4.6 to -4.6	-4.6	-4.6	N/A	-0.5	-0.5
LOWER SAN PEDRO BASIN	MAMMOTH	10	3	6	1	-6.5 to 16.3	-1.6	0.2	7.6	0.0	-0.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	21	5	15	1	-53.3 to 41.1	-11.5	-8.4	19.2	-0.8	-1.2
MEADVIEW BASIN	MEADVIEW	1	0	1	0	-2.6 to -2.6	-2.6	-2.6	N/A	-0.3	-0.3
MORENCI BASIN	MORENCI	5	0	4	1	-25.4 to -0.6	-4.5	-8.8	10.4	-0.9	-0.5
PARIA BASIN	PARIA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	0.3 to 0.3	0.3	0.3	N/A	0.0	0.0
PARKER BASIN	LA POSA PLAINS	2	0	2	0	-7.6 to -2.6	-5.1	-5.1	3.5	-0.5	-0.5
PEACH SPRINGS BASIN	PEACH SPRINGS	2	0	2	0	-26.5 to -14.8	-20.7	-20.7	8.3	-2.1	-2.1

Table 7. Continued.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
PHOENIX AMA	CAREFREE	7	3	3	1	-28.4 to 63.4	-0.8	20.8	38.8	2.1	-0.1
PHOENIX AMA	EAST SALT RIVER	85	54	30	1	-57.3 to 54.5	5.8	5.1	18.9	0.5	0.6
PHOENIX AMA	FOUNTAIN HILLS	6	1	4	1	-15.6 to 5	-1.7	-4.4	7.7	-0.4	-0.2
PHOENIX AMA	HASSAYAMPA	35	12	18	5	-38.9 to 62.1	-1.5	-2.5	19.5	-0.3	-0.2
PHOENIX AMA	LAKE PLEASANT	9	1	6	2	-19.2 to 3	-1.4	-4.4	6.9	-0.4	-0.1
PHOENIX AMA	RAINBOW VALLEY	14	1	12	1	-61.7 to 24.7	-12.7	-18.8	23.5	-1.9	-1.3
PHOENIX AMA	WEST SALT RIVER	102	39	59	4	-33 to 69.3	-3.2	0.0	18.0	0.0	-0.3
PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	ELOY	67	23	43	1	-57.1 to 48.6	-5.7	-6.6	17.9	-0.7	-0.6
PINAL AMA	MARICOPA - STANFIELD	30	18	12	0	-70.7 to 35.4	12.2	6.7	22.0	0.7	1.2
PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	VEKOL VALLEY	9	4	3	2	-6.3 to 7.5	1.0	0.2	3.9	0.0	0.1
PRESCOTT AMA	LITTLE CHINO VALLEY	41	1	38	2	-69.8 to 1.4	-9.5	-12.5	13.8	-1.3	-0.9
PRESCOTT AMA	UPPER AGUA FRIA	21	5	14	2	-16 to 55.4	-3.2	0.9	18.0	0.1	-0.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	13	1	12	0	-104.6 to 32.3	-5.3	-15.9	32.3	-1.6	-0.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	16	2	8	6	-14.2 to 6.9	-0.6	-1.7	4.6	-0.2	-0.1
SAFFORD BASIN	GILA VALLEY	12	0	9	3	-13.4 to -0.2	-7.1	-5.7	4.1	-0.6	-0.7
SAFFORD BASIN	SAN CARLOS VALLEY	1	0	1	0	-27.9 to -27.9	-27.9	-27.9	N/A	-2.8	-2.8
SAFFORD BASIN	SAN SIMON VALLEY	16	0	15	1	-144.5 to -0.7	-15.8	-36.1	45.8	-3.6	-1.6
SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SALT RIVER BASIN	SALT RIVER CANYON	1	0	1	0	-21.4 to -21.4	-21.4	-21.4	N/A	-2.1	-2.1
SALT RIVER BASIN	SALT RIVER LAKES	1	0	1	0	-2.3 to -2.3	-2.3	-2.3	N/A	-0.2	-0.2
SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	1	0	0	1	-0.4 to -0.4	-0.4	-0.4	N/A	0.0	0.0
SAN RAFAEL BASIN	SAN RAFAEL	5	0	3	2	-5.4 to -0.5	-1.4	-1.9	2.0	-0.2	-0.1
SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SANTA CRUZ AMA	SANTA CRUZ AMA	38	10	17	11	-12.3 to 13.2	-0.8	-1.1	5.0	-0.1	-0.1
SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TIGER WASH BASIN	TIGER WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TONTO CREEK BASIN	TONTO CREEK	8	3	5	0	-9.1 to 7	-1.6	-0.5	5.4	0.0	-0.2
TUCSON AMA	AVRA VALLEY	40	16	15	9	-67.5 to 130.2	0.1	9.5	36.1	1.0	0.0
TUCSON AMA	UPPER SANTA CRUZ	46	17	25	4	-25.8 to 77.5	-2.4	0.7	18.6	0.1	-0.2
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	3	0	3	0	-20.5 to -2.3	-4.6	-9.1	9.9	-0.9	-0.5
UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
UPPER SAN PEDRO BASIN	SIERRA VISTA	43	4	32	7	-25.4 to 17.5	-4.1	-4.9	7.4	-0.5	-0.4
VERDE RIVER BASIN	BIG CHINO	52	12	34	6	-32.4 to 14.8	-4.5	-3.4	7.4	-0.3	-0.4
VERDE RIVER BASIN	VERDE CANYON	19	12	5	2	-12 to 67.6	4.5	16.7	25.4	1.7	0.4
VERDE RIVER BASIN	VERDE VALLEY	45	5	28	12	-53.2 to 33.1	-2.0	-4.3	12.7	-0.4	-0.2
VIRGIN RIVER BASIN	VIRGIN RIVER	4	0	4	0	-4.6 to -1.1	-2.2	-2.5	1.5	-0.2	-0.2
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
WILLCOX BASIN	WILLCOX	25	2	22	1	-108.5 to 7.3	-31.5	-32.0	28.9	-3.2	-3.2
YUMA BASIN	YUMA	7	0	5	2	-15.4 to -0.2	-6.8	-7.4	6.2	-0.7	-0.7
Statewide Statistics		1080	291	667	122	-145.5 to 130.2	-3.1	-5.0	22.4	-0.5	-0.3

Statewide: Water Years 2020 -2021

General Observations

Appendix 3 provides information for groundwater level measurements made in Arizona for WYs 2020 and 2021, as well as the calculated WL changes for this one-year timeframe. This summary includes a total of 1,286 records. Plate 3 shows short-term (one-year) statewide WL change trends from data in Appendix 3.

Geographic concentrations of both WL rise and decline are shown on Plate 3. In general, large concentrations of WL rise were observed throughout central Arizona. Large concentrations of WL decline were observed in central, north-central, and southeastern Arizona.

Wells showing rises or declines of less than one foot were randomly located throughout the state.

Statistics by Sub-basin

Appendix 3 data were further reduced for statistical purposes by removing remarked measurements. A total of 31 records were not used in statistical calculations, leaving 1,255 comparable WL measurements to calculate WL change statistics summarized by sub-basin in Table 8.

Well counts per sub-basin were greatest in the Phoenix AMA's West Salt River Sub-basin, with 106 measurements. The West Salt River (WSR) Sub-basin of the Phoenix AMA had the largest number of rising groundwater level measurements (43) for the time period WYs 2020 -2021. The Eloy (ELO) Sub-basin of the Pinal AMA had the largest number of water level declines (42).

Statewide, for the period WYs 2020 – 2021, WL change ranged from a maximum decline of -56.8 feet in the Wilcox (WIL) Basin to a maximum rise of 55.9 feet in the Verde Canyon (LVR) Sub-basin. The mean WL change was negative in 39.4 percent of the basins measured and positive in 9.9 percent of basins measured. Negligible mean WL change (WL change less than one foot) was observed in 50.7 percent of basins measured.

The greatest median groundwater level decline (-6.3 feet) occurred in the Wilcox (WIL) Basin and the greatest mean groundwater level decline (-8.2 feet) occurred in the Gila Bend (GIL) Basin. The greatest median (18.5 feet) and median (18.6 feet) groundwater level rise occurred in the Verde Canyon (LVR) Sub-basin of the Verde River (VRB) Basin.

Statewide statistics shown in Table 8 include a well count of 1,255 wells: 268 wells with rising WLs, 471 wells with declining WLs, and 516 wells with no change in WL.

Other statewide statistics for WY 2020 to 2021 include:

- the range of WL change from -56.8 to 55.9 feet;
- the median water level change of -0.1 feet;
- the mean water level change of -0.9 feet;
- the standard deviation of water level change of 7.0 feet;
- the mean rate of water level change of -0.9 feet per year;
- and median rate of WL change of -0.4 feet per year.

Table 8. Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by sub-basin – WYs 2020 to 2021.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
AGUA FRIA BASIN	AGUA FRIA	8	0	3	5	-4.9 to 0.2	-0.8	-1.2	1.6	-1.2	-0.8
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	1	1	0	-5.6 to 29.3	11.9	11.9	24.7	11.9	11.9
BIG SANDY BASIN	FORT ROCK	1	0	0	1	0 to 0	0.0	0.0	N/A	0.0	0.0
BIG SANDY BASIN	WIKIEUP	7	1	3	3	-1.5 to 4	-0.2	0.1	1.9	0.1	-0.2
BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	1	1	2	-1.8 to 2.8	-0.3	0.1	1.9	0.1	-0.3
BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BILL WILLIAMS BASIN	CLARA PEAK	2	2	0	0	5.3 to 6.4	5.9	5.9	0.8	5.9	5.9
BILL WILLIAMS BASIN	SANTA MARIA	3	1	0	2	-1 to 2.4	-0.5	0.3	1.8	0.3	-0.5
BILL WILLIAMS BASIN	SKULL VALLEY	9	2	2	5	-3.8 to 14.8	-0.4	1.7	5.7	1.7	-0.4
BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
BUTLER VALLEY BASIN	BUTLER VALLEY	6	0	3	3	-4 to 1	-0.9	-1.2	1.9	-1.2	-0.9
CIENEGA CREEK BASIN	CIENEGA CREEK	17	0	5	12	-4.4 to 0.2	-0.6	-0.8	1.1	-0.8	-0.6
COCONINO PLATEAU BASIN	COCONINO PLATEAU	2	1	0	1	0.1 to 2.2	1.2	1.2	1.5	1.2	1.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	7	0	2	5	-5.5 to 1	-0.2	-0.9	2.2	-0.9	-0.2
DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
DOUGLAS BASIN	DOUGLAS	8	1	6	1	-13.9 to 1.2	-2.2	-4.0	4.9	-4.0	-2.2
DOUGLAS BASIN	DOUGLAS INA	13	0	11	2	-8.4 to -0.4	-2.7	-3.5	2.6	-3.5	-2.7
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	0	2	0.1 to 0.7	0.4	0.4	0.4	0.4	0.4
DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	0	2	4	-3.4 to 0.9	-0.5	-0.6	1.6	-0.6	-0.5
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	3	1	1	1	-22.7 to 3.5	-0.1	-6.4	14.2	-6.4	-0.1
GILA BEND BASIN	GILA BEND	12	0	11	1	-30.1 to -0.9	-6.1	-8.2	7.6	-8.2	-6.1
GRAND WASH BASIN	GRAND WASH	2	0	0	2	0 to 0.3	0.2	0.2	0.2	0.2	0.2
HARQUAHALA BASIN	HARQUAHALA INA	18	2	13	3	-26.8 to 40.6	-2.1	-1.4	12.5	-1.4	-2.1
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	17	3	3	11	-4.6 to 4.6	-0.2	-0.1	1.8	-0.1	-0.2
KANAB PLATEAU BASIN	KANAB PLATEAU	3	0	1	2	-5.3 to 1	-0.3	-1.5	3.3	-1.5	-0.3
LAKE HAVASU BASIN	LAKE HAVASU	1	0	0	1	0.4 to 0.4	0.4	0.4	N/A	0.4	0.4
LAKE MOHAVE BASIN	LAKE MOHAVE	1	0	0	1	-0.5 to -0.5	-0.5	-0.5	N/A	-0.5	-0.5
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	4	2	0	2	-0.3 to 5.3	1.0	1.7	2.5	1.7	1.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	76	14	31	31	-29.9 to 32.1	-0.4	-1.6	8.7	-1.6	-0.4
LOWER GILA BASIN	CHILDS VALLEY	1	0	0	1	0.6 to 0.6	0.6	0.6	N/A	0.6	0.6
LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
LOWER GILA BASIN	WELLTON - MOHAWK	25	0	6	19	-5.4 to 1	-0.5	-1.0	1.6	-1.0	-0.5
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	0	1	0.3 to 0.3	0.3	0.3	N/A	0.3	0.3
LOWER SAN PEDRO BASIN	MAMMOTH	12	3	2	7	-1.6 to 4.2	0.2	0.5	1.8	0.5	0.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	18	0	14	4	-12 to 0.9	-1.8	-2.5	3.0	-2.5	-1.8
MEADVIEW BASIN	MEADVIEW	2	0	2	0	-6.8 to -1.7	-4.2	-4.2	3.6	-4.2	-4.2
MORENCI BASIN	MORENCI	6	0	3	3	-13.6 to 0.7	-1.2	-4.4	6.0	-4.4	-1.2
PARIA BASIN	PARIA	3	1	1	1	-22.1 to 2.4	-0.5	-6.7	13.4	-6.7	-0.5
PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	-0.1 to -0.1	-0.1	-0.1	N/A	-0.1	-0.1
PARKER BASIN	LA POSA PLAINS	2	0	0	2	-0.8 to 0	-0.4	-0.4	0.6	-0.4	-0.4
PEACH SPRINGS BASIN	PEACH SPRINGS	4	1	1	2	-14 to 4.2	0.3	-2.3	8.0	-2.3	0.3

Table 8. Continued.

Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
PHOENIX AMA	CAREFREE	7	0	5	2	-13 to 0.9	-2.7	-4.7	5.0	-4.7	-2.7
PHOENIX AMA	EAST SALT RIVER	86	38	28	20	-31 to 28.3	0.5	0.0	7.2	0.0	0.5
PHOENIX AMA	FOUNTAIN HILLS	6	2	3	1	-9.3 to 5.6	-0.9	-0.7	5.1	-0.7	-0.9
PHOENIX AMA	HASSAYAMPA	54	8	19	27	-24.8 to 25.5	-0.7	-1.0	5.6	-1.0	-0.7
PHOENIX AMA	LAKE PLEASANT	9	2	4	3	-19.8 to 15.8	-1.0	-2.7	9.8	-2.7	-1.0
PHOENIX AMA	RAINBOW VALLEY	16	0	8	8	-20.7 to -0.4	-1.1	-4.3	6.3	-4.3	-1.1
PHOENIX AMA	WEST SALT RIVER	106	43	26	37	-22.2 to 13.5	0.3	0.1	4.4	0.1	0.3
PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	ELOY	92	17	42	33	-25.8 to 34.3	-0.8	-0.9	6.2	-0.9	-0.8
PINAL AMA	MARICOPA - STANFIELD	31	10	9	12	-15.9 to 5.6	0.5	-0.6	4.3	-0.6	0.5
PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
PINAL AMA	VEKOL VALLEY	8	0	2	6	-7.9 to 0.7	0.1	-1.2	2.9	-1.2	0.1
PRESCOTT AMA	LITTLE CHINO VALLEY	33	3	21	9	-14.2 to 10	-1.3	-1.6	4.0	-1.6	-1.3
PRESCOTT AMA	UPPER AGUA FRIA	12	1	2	9	-10.4 to 29.3	0.2	1.0	9.7	1.0	0.2
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	15	3	7	5	-4.8 to 7.5	-0.6	-0.9	3.0	-0.9	-0.6
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	17	0	3	14	-11.7 to 0.9	0.1	-0.9	3.0	-0.9	0.1
SAFFORD BASIN	GILA VALLEY	20	4	7	9	-8 to 3.3	-0.6	-0.8	2.5	-0.8	-0.6
SAFFORD BASIN	SAN CARLOS VALLEY	1	1	0	0	5.4 to 5.4	5.4	5.4	N/A	5.4	5.4
SAFFORD BASIN	SAN SIMON VALLEY	14	2	7	5	-7.8 to 2.9	-0.9	-1.2	2.8	-1.2	-0.9
SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SALT RIVER BASIN	SALT RIVER CANYON	1	0	0	1	0.1 to 0.1	0.1	0.1	N/A	0.1	0.1
SALT RIVER BASIN	SALT RIVER LAKES	2	1	1	0	-7.9 to 4.1	-1.9	-1.9	8.5	-1.9	-1.9
SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	11	0	0	11	-0.5 to 0.7	-0.1	0.0	0.4	0.0	-0.1
SAN RAFAEL BASIN	SAN RAFAEL	5	0	3	2	-9.4 to 0.2	-1.9	-3.9	4.6	-3.9	-1.9
SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
SANTA CRUZ AMA	SANTA CRUZ AMA	53	16	17	20	-19 to 17.6	-0.3	-0.5	5.9	-0.5	-0.3
SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TIGER WASH BASIN	TIGER WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
TONTO CREEK BASIN	TONTO CREEK	12	4	4	4	-37 to 6.9	-0.2	-3.4	11.6	-3.4	-0.2
TUCSON AMA	AVRA VALLEY	48	16	10	22	-16.3 to 8	0.5	0.3	4.2	0.3	0.5
TUCSON AMA	UPPER SANTA CRUZ	54	10	34	10	-21 to 25.7	-1.4	-2.3	6.5	-2.3	-1.4
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	2	0	0	2	-0.4 to 0.6	0.1	0.1	0.7	0.1	0.1
UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
UPPER SAN PEDRO BASIN	SIERRA VISTA	44	6	15	23	-8.8 to 8.1	-0.5	-0.6	2.5	-0.6	-0.5
VERDE RIVER BASIN	BIG CHINO	71	16	17	38	-15.2 to 7.2	-0.2	-0.8	3.6	-0.8	-0.2
VERDE RIVER BASIN	VERDE CANYON	17	11	2	4	-33.5 to 55.9	18.5	18.6	24.8	18.6	18.5
VERDE RIVER BASIN	VERDE VALLEY	48	11	14	23	-26.8 to 21.6	0.0	-1.3	6.8	-1.3	0.0
VIRGIN RIVER BASIN	VIRGIN RIVER	5	1	1	3	-1.5 to 1.2	-0.3	-0.3	1.0	-0.3	-0.3
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	4	0	2	2	-6.8 to -0.4	-2.8	-3.2	3.1	-3.2	-2.8
WILLCOX BASIN	WILLCOX	35	2	29	4	-56.8 to 4.7	-6.3	-7.5	10.3	-7.5	-6.3
YUMA BASIN	YUMA	7	3	1	3	-1.8 to 1.5	1.0	0.4	1.2	0.4	1.0
Statewide Statistics		1255	268	471	516	-56.8 to 55.9	-0.1	-0.9	7.0	-0.9	-0.4

SUMMARY

Appendix 4 lists statewide WL statistics by sub-basin and provides a summary of 20-year, 10-year and one-year WL changes. Sub-basins with no measurements for a specific time period are listed for completeness. Data are assembled to illustrate the variability of WL change statistics and well counts per basin or sub-basin over the various time periods. Figure 2 (pages 24-30) contains graphs of WL change distribution per sub-basin for 20-year, 10-year, and one-year time periods. The graphs provide an understanding of rising and declining WLs per time period; averages are displayed as an orange line and the range of WL change is displayed as a blue bar.

Compilation of WL change data assists in identifying basins and sub-basins within the state that may need additional groundwater level monitoring. Basins and sub-basins with large WL changes (especially those with significantly declining groundwater levels) with few wells will be evaluated for additional or increased monitoring.

Adequate spatial coverage of wells is only one factor for selecting additional monitoring locations. Understanding what aquifer or hydrogeologic unit a well is monitoring (knowing what intervals are screened) is another critical factor in siting additional monitoring wells. In addition to the data presented in this report, the following criteria are also considered when selecting new monitoring sites:

- areas showing an increase in water demand or a decrease in recharge;
- areas where wells can be co-located with pre-existing stream and/or precipitation gages;
- areas with significant on-going or projected population growth;
- areas with land subsidence;
- safe yield considerations;
- water quality concerns;
- riparian and other environmental considerations; and
- drought considerations.

Monitoring at some sites may be discontinued if analysis of the existing monitoring network reveals that data are either redundant, ambiguous or fluctuate too widely to discern static conditions or trends. Also, WLs obtained from actively pumping wells are of marginal value. Groundwater levels collected from "static" groundwater conditions (conditions where groundwater is not being stressed by pumpage or artificial influences) provide data that can assist with understanding the true nature of aquifer systems.

ADWR is working to analyze and document which wells are monitoring specific aquifers, thus allowing for hydrologic interpretations of water level change data or statistics. Evaluating WL change data presented in this report with respect to screened intervals in wells and hydrogeologic units or aquifers, along with the other factors described above, will be the next step in improving and optimizing the statewide groundwater monitoring network.

ACKNOWLEDGEMENTS

Arizona's hydrologic data collection activities are fundamental components of the state's strategic vision for water supply sustainability. This report is dedicated to the well owners who have allowed their wells to be measured over the years and to the individuals and organizations that have collected hydrologic data in Arizona: data that are essential to reliable resource evaluations that support informed decision making.

REFERENCES CITED

Arizona Department of Water Resources, Groundwater Site Inventory (GWSI), GWSIWEB, accessed at June 1, 2023 https://app.azwater.gov/gwsi/SearchGWSI.aspx

Flora, S. & Davis, T. (2009). *Hydrologic Map Series (HMS), Water Level Change Map Series (WLCMS), and Basin Sweep Assessment Report ADWR Basins and Sub-basins.* Arizona Department of Water Resources. https://www.azwater.gov/sites/default/files/2022-07/HMSWLCMSBasinSweepAssessmentReport2009_0.pdf

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Or visit the Arizona Department of Water Resources Web site: http://www.azwater.gov

Figure 1

Arizona groundwater basins, sub-basins, and designated sections

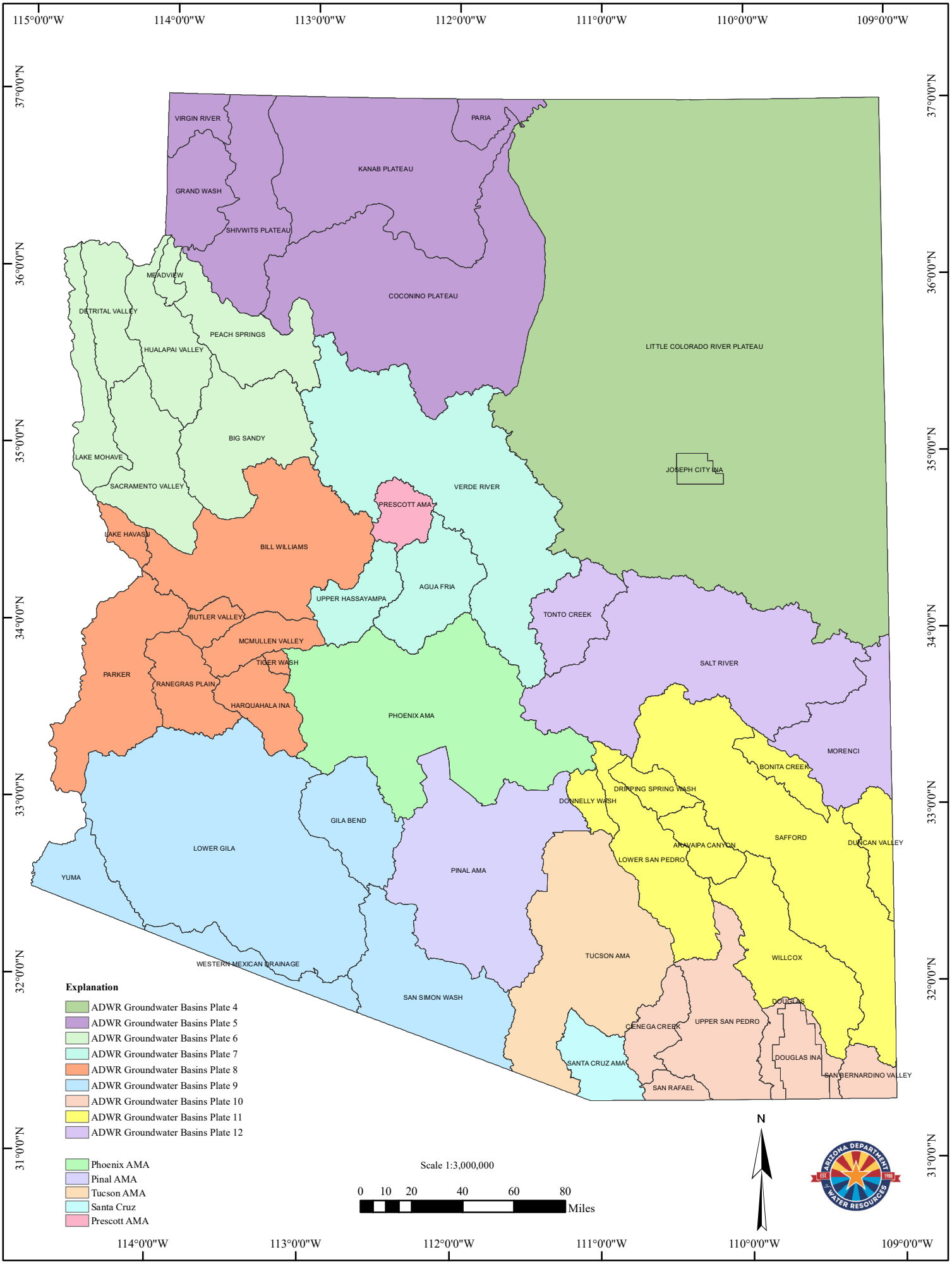


Figure 1. Arizona Groundwater Basins, Sub-basins, and designated sections

Figure 2

Water level change distribution per basin or sub-basin for 20-year, 10-year, and 1-year time periods

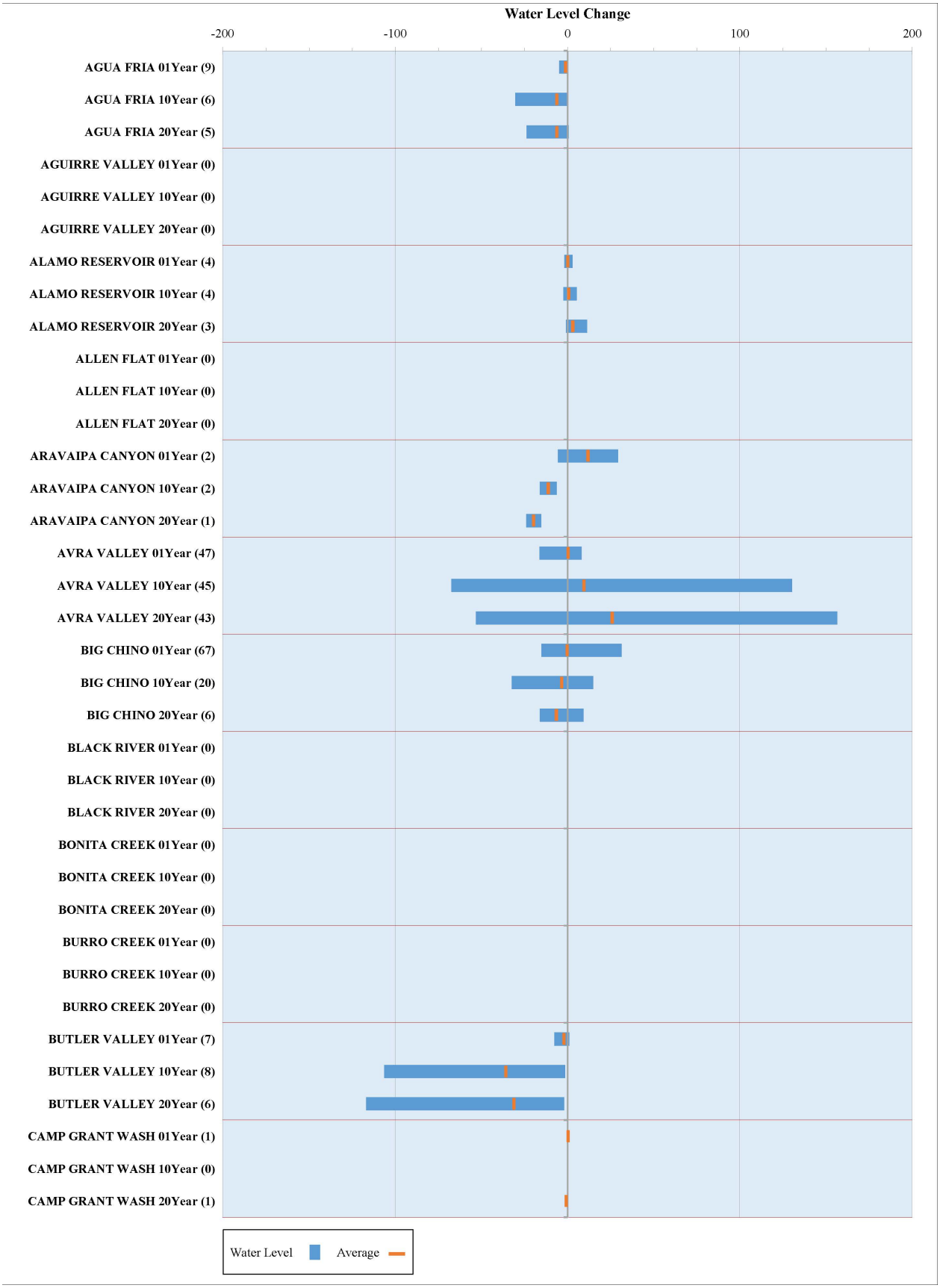
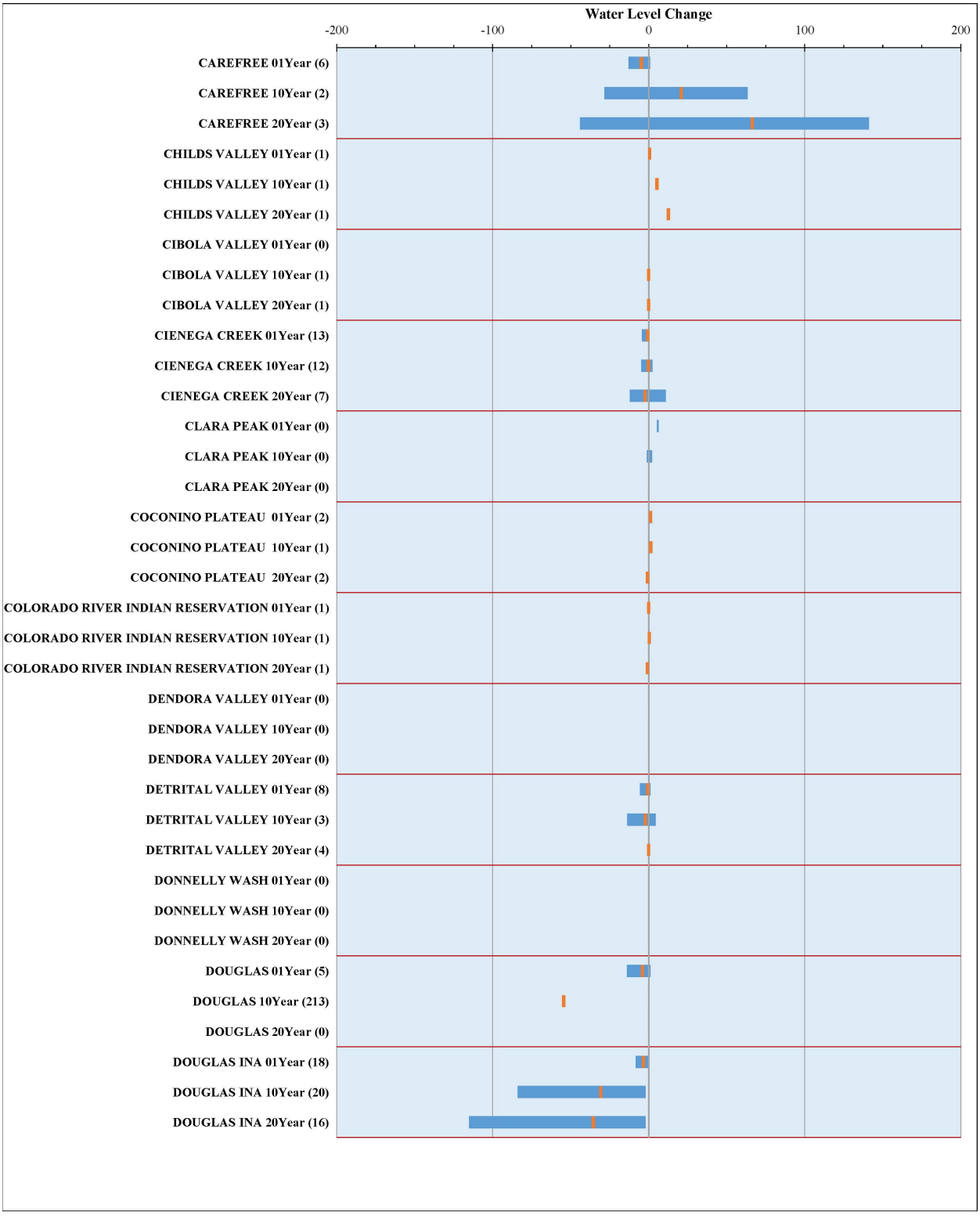


Figure 2. Water level change distribution per basin or sub-basin for 20-year, 10-year, and 1-year time periods. *Number next to sub-basin name indicates the number of measurements.



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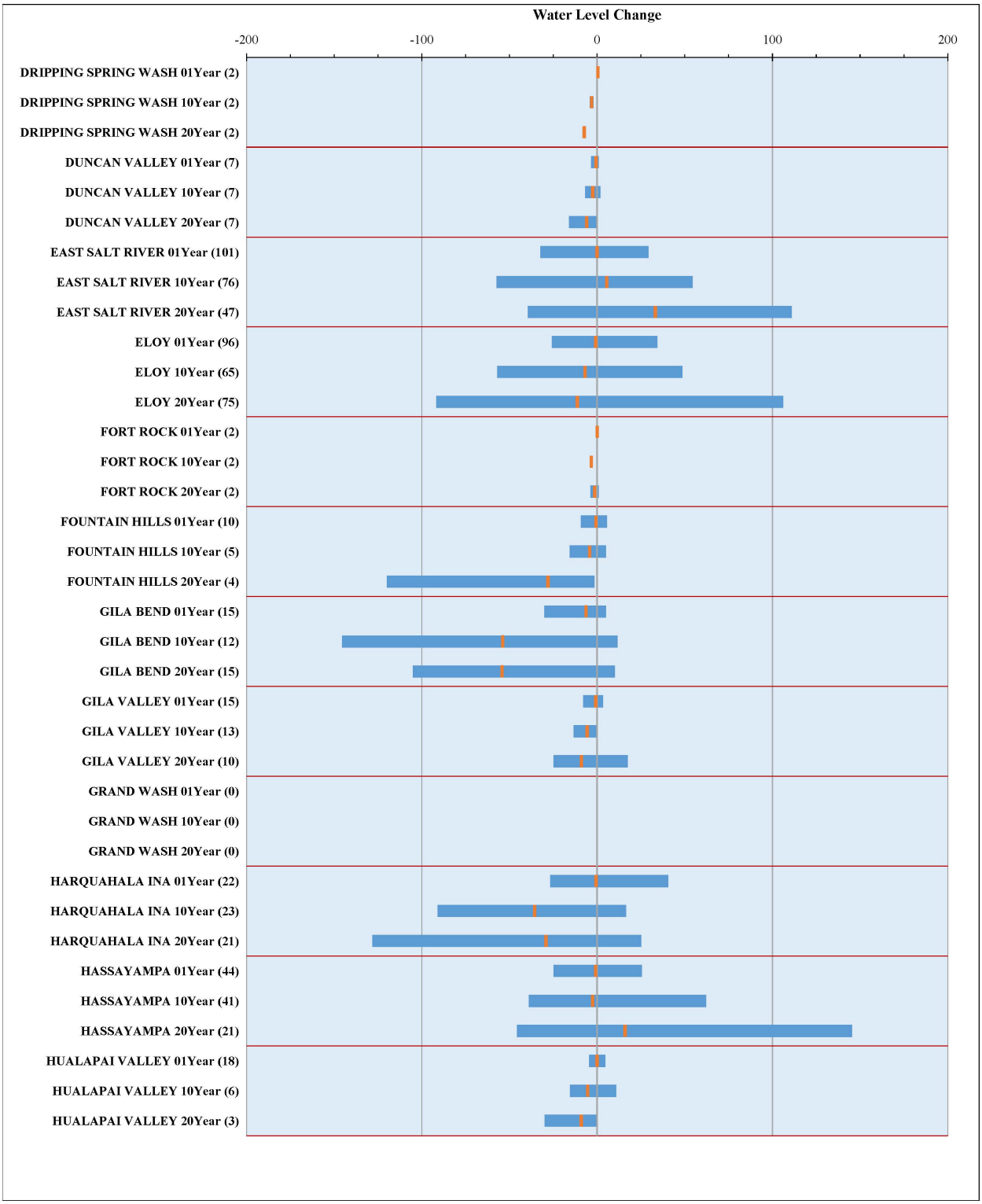

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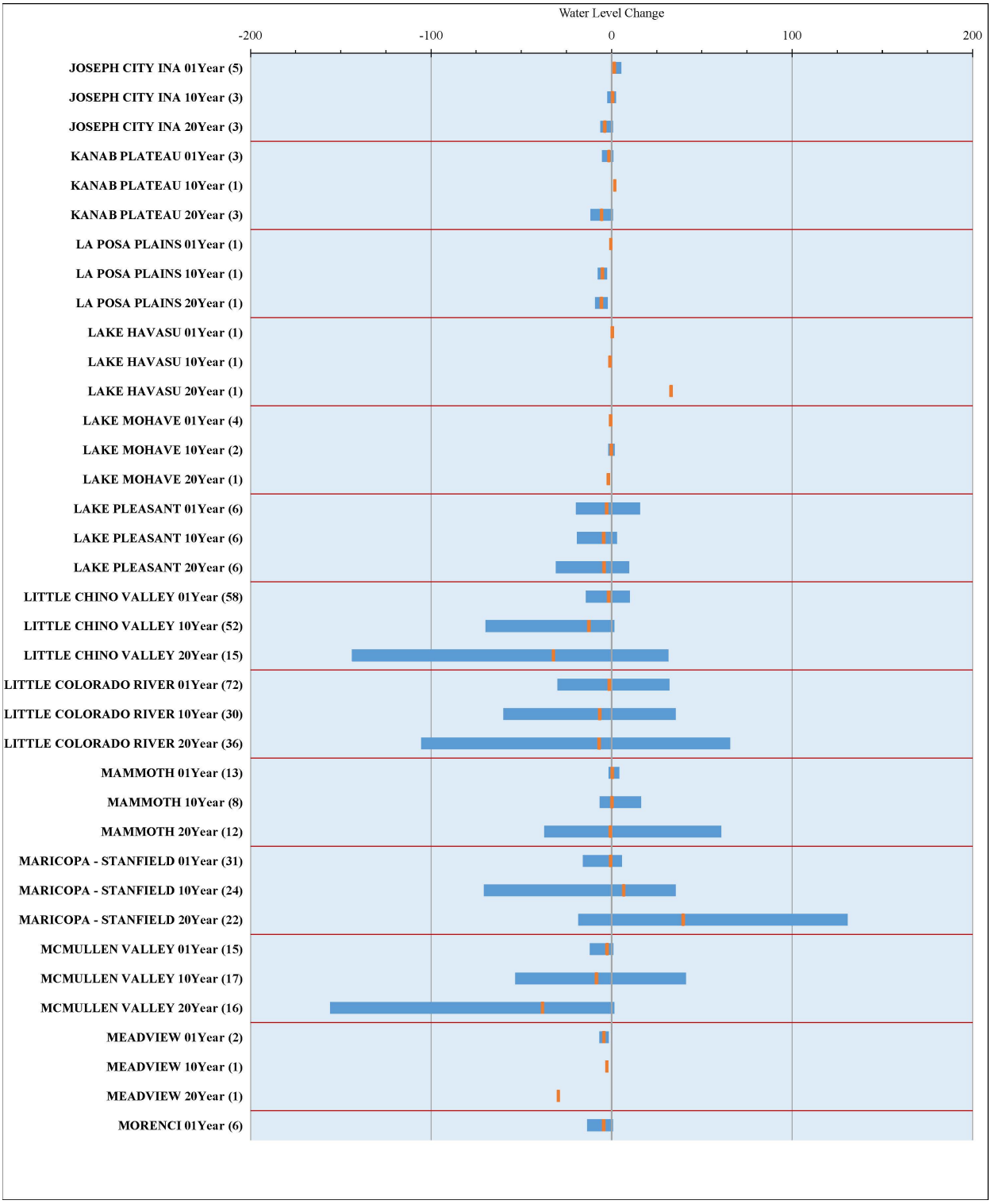

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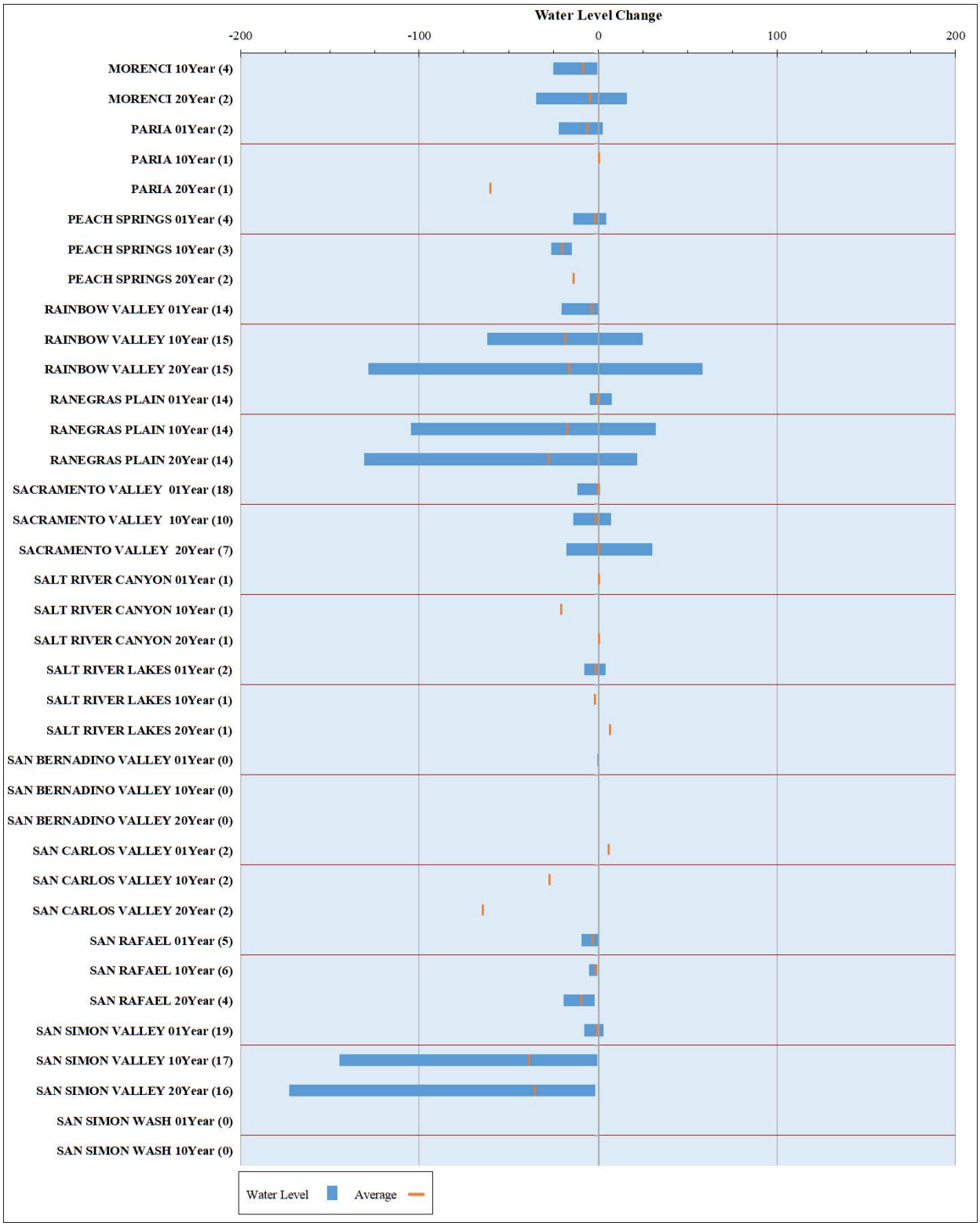

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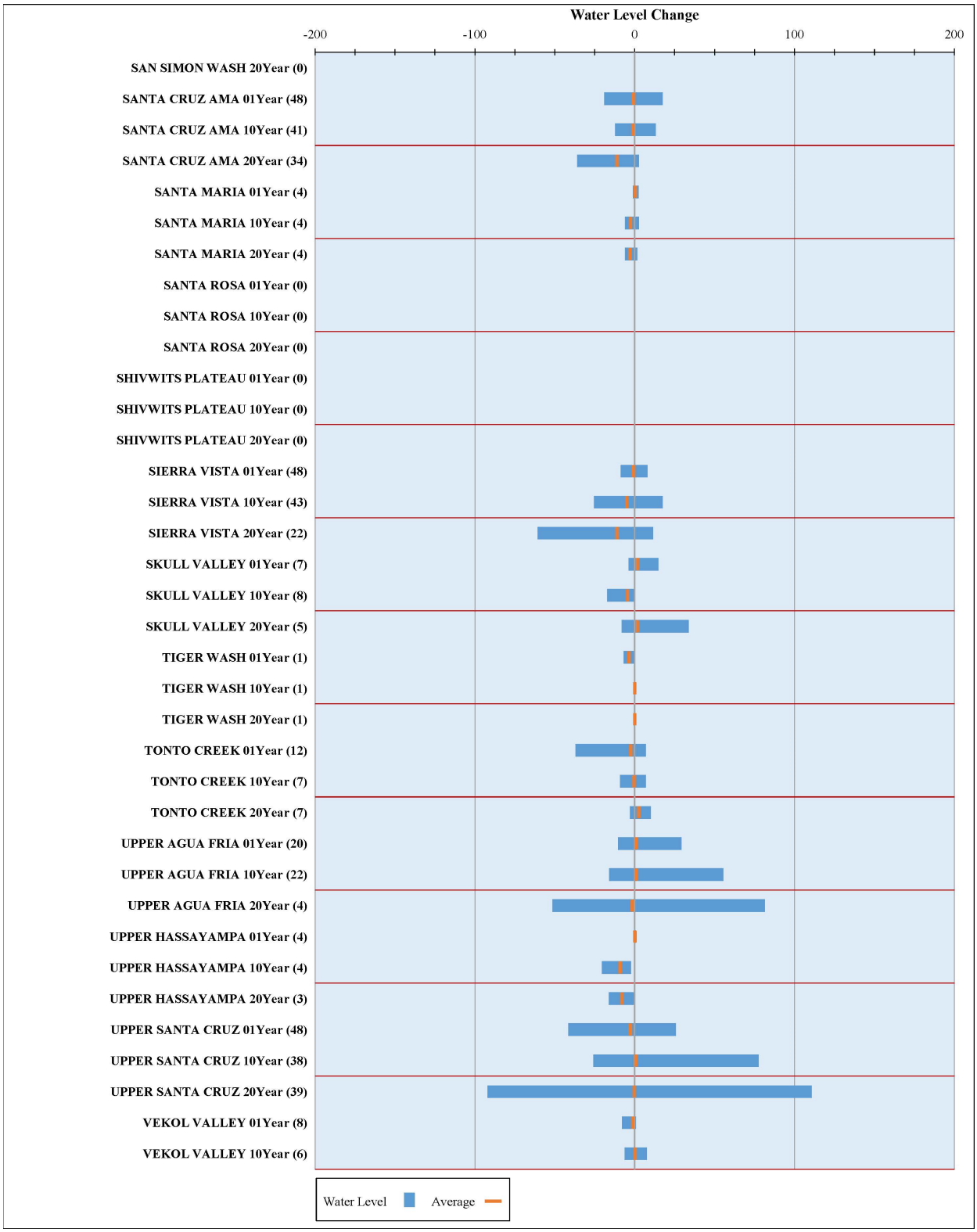

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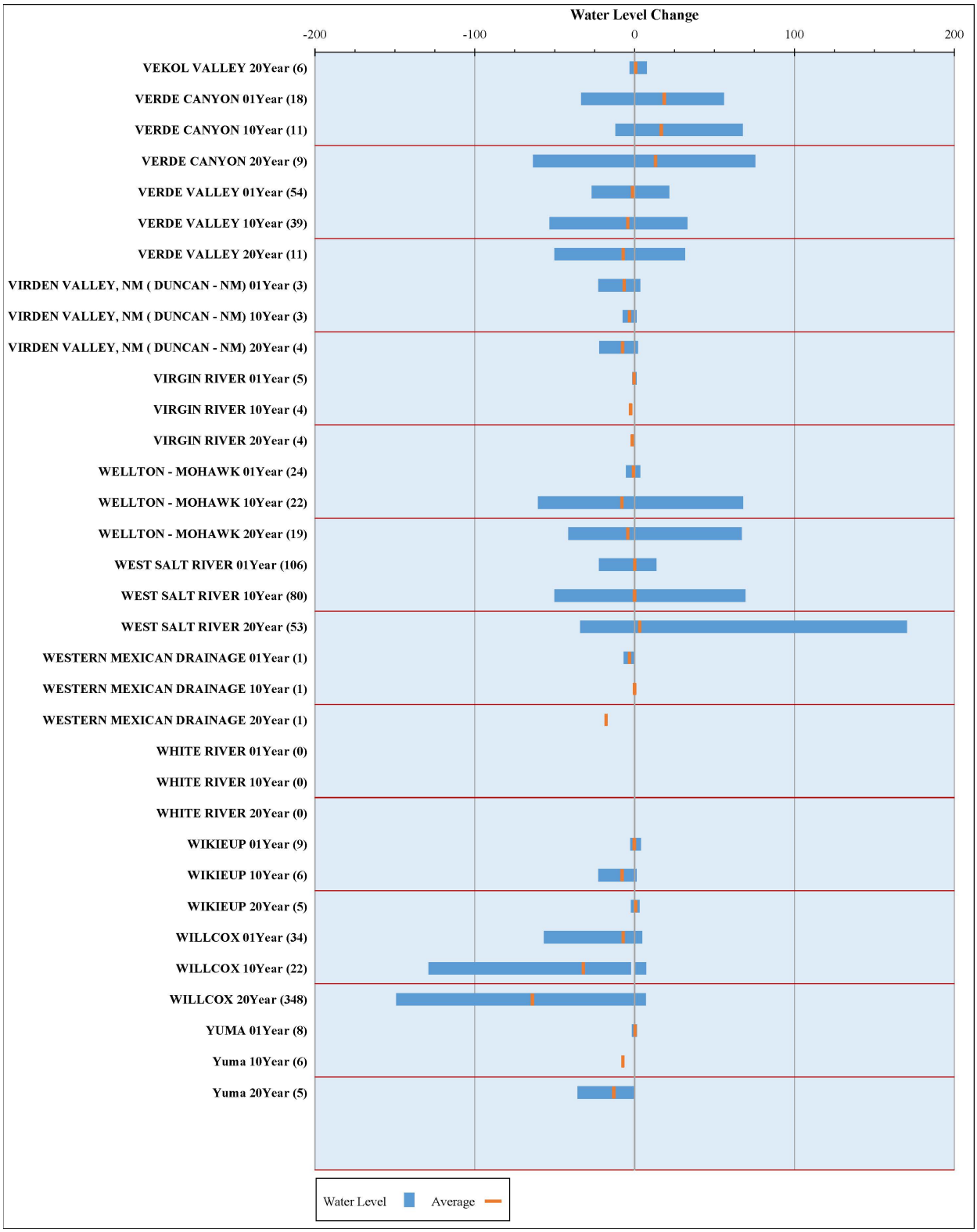
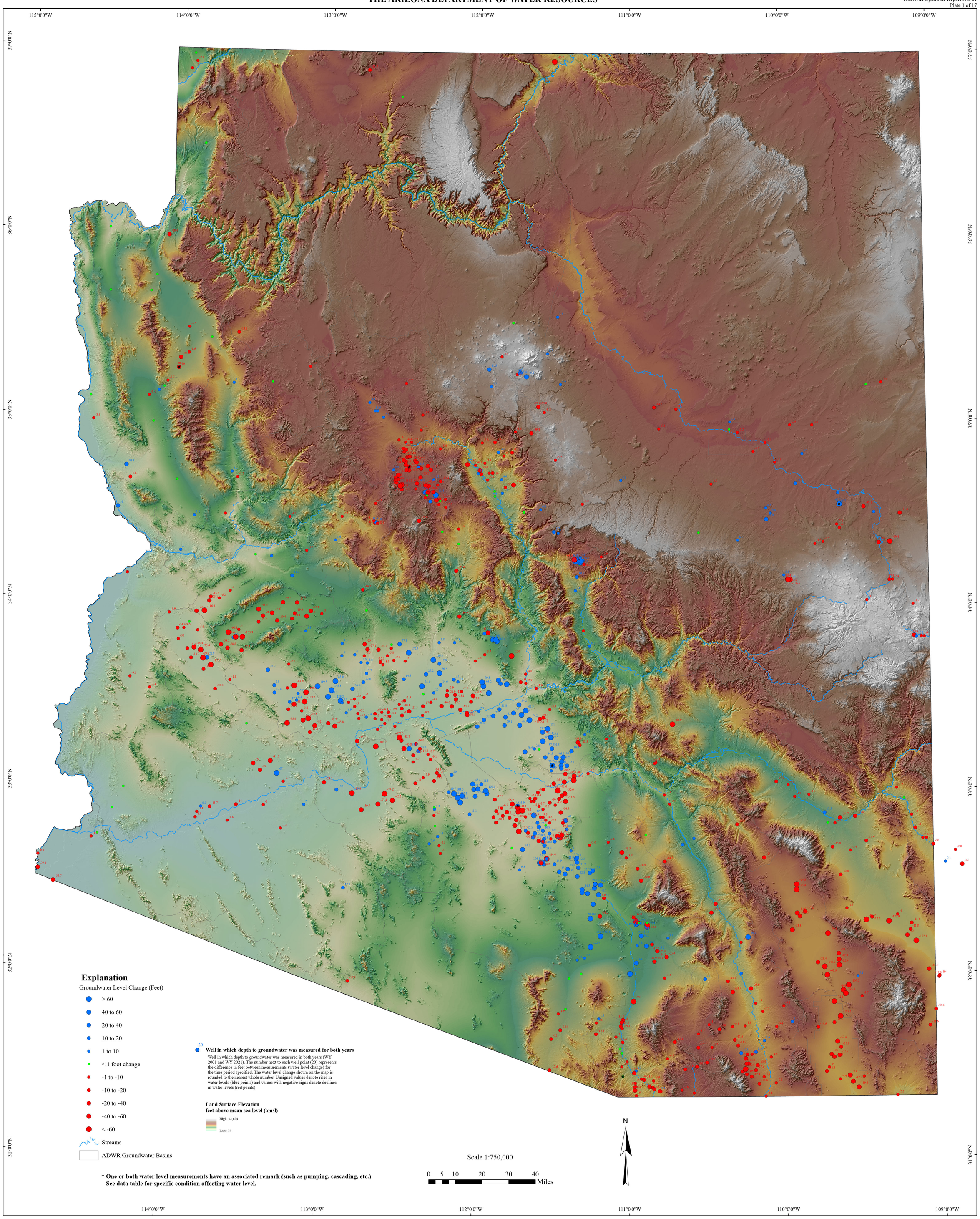


Figure 2 continued.

Plate Figures

The following plates have been constructed for a visual and spacial reference to the data tables included in this report. The plates are visible within this report on 11 x 17 sheets. However, the original copies can be viewed by opening the companion files link where the report is posted online. Plates (1 – 3 are best viewed at (34 x 44 fold outs which are included with this report.



For data go to:
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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2001 - 2021 (PLATE 1)

September 2025

North American Datum 1983
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Water Level Change Reports\
Water Level Change Report 2021\Maps

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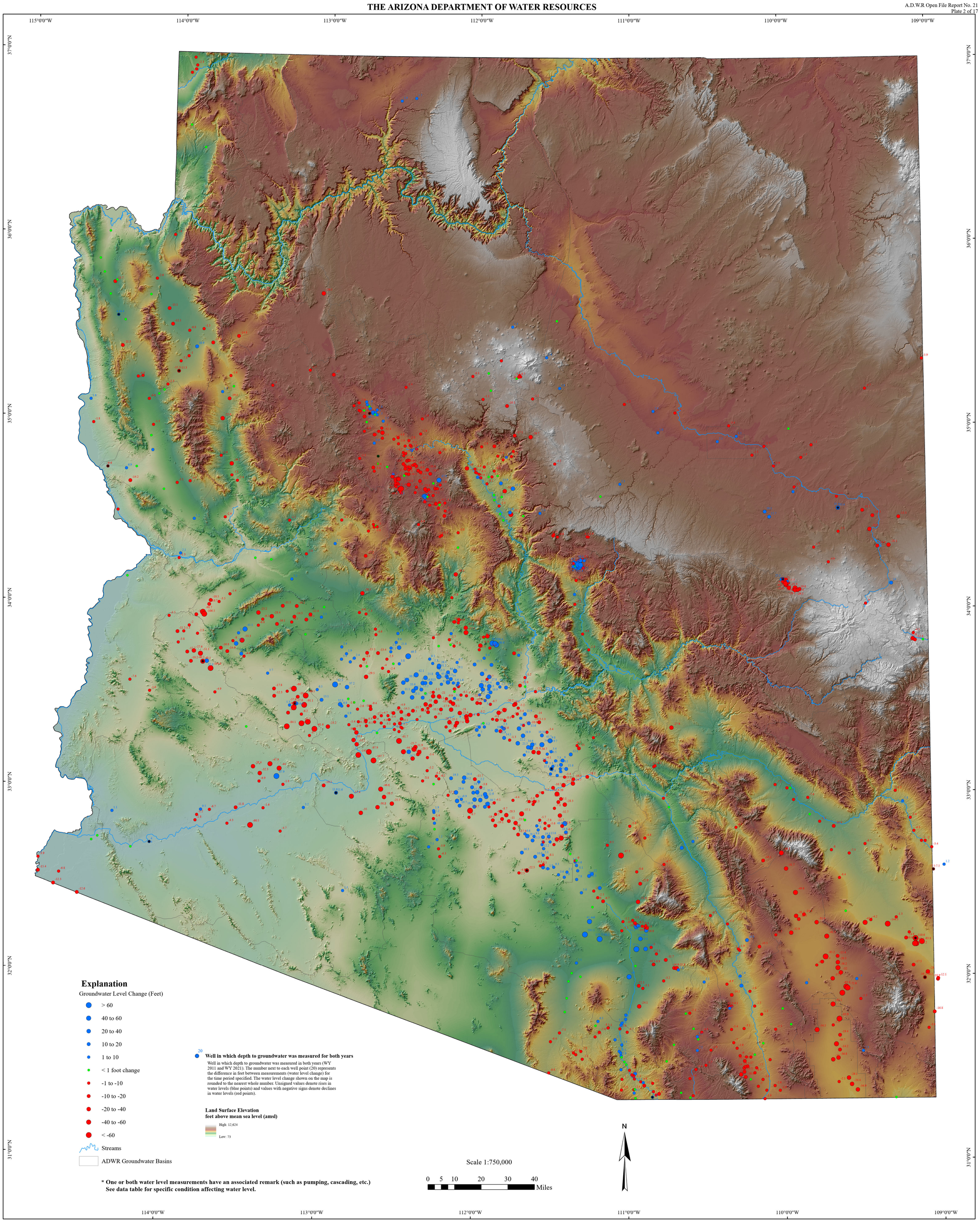

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GROUNDWATER LEVEL CHANGES IN ARIZONA
WATER YEARS 2011 - 2021 (PLATE 2)

September 2025

North American Datum 1983
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Water Level Change Report 2021\Maps

Hydrology Division

115°0'0"W 114°0'0"W 113°0'0"W 112°0'0"W 111°0'0"W 110°0'0"W 109°0'0"W

37°0'0"N 36°0'0"N 35°0'0"N 34°0'0"N 33°0'0"N 32°0'0"N 31°0'0"N

Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60
- Streams
- ADWR Groundwater Basins

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2020 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

Land Surface Elevation
feet above mean sea level (amsl)

High: 12,624

Low: 73

*** One or both water level measurements have an associated remark (such as pumping, cascading, etc.) See data table for specific condition affecting water level.**

Scale 1:750,000

0 5 10 20 30 40 Miles

N

For data go to:
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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2020 - 2021 (PLATE 3)

September 2025

North American Datum 1983
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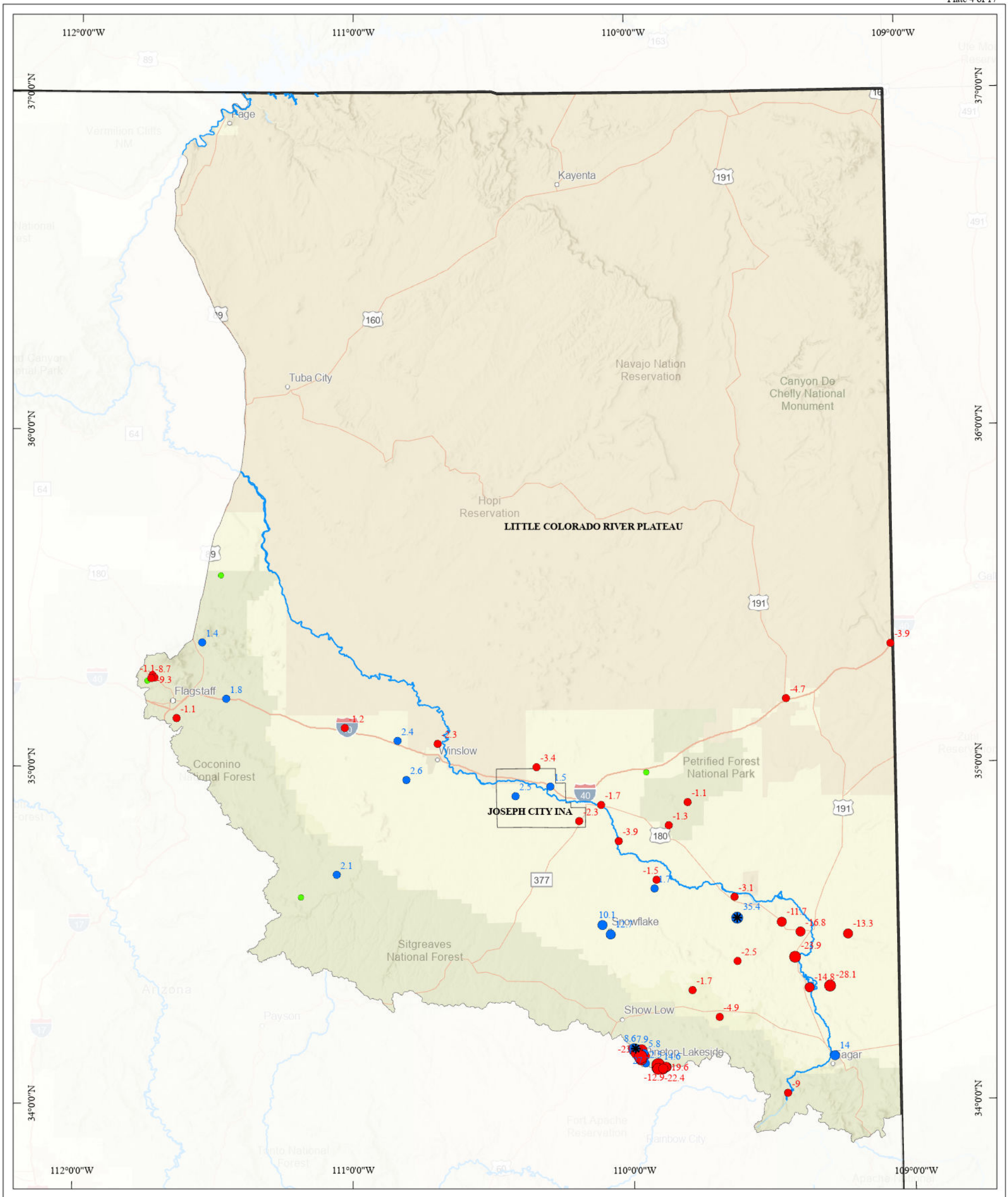
Water Level Change Reports\
Water Level Change Report 2021\Maps

Hydrology Division



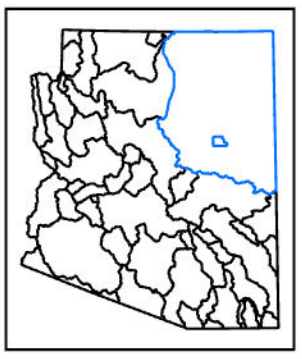
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:1,300,000

0 5 10 20 30 40 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

For data go to:
https://app.azwater.gov/gwsi/SearchGWSI.aspx

For more information or copies contact:
ADWR Information Services
1110 W Washington Street, Suite 310
Phoenix, AZ 85007
(602) 771-8500
www.azwater.gov

GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 4)

September 2025

North American Datum 1983
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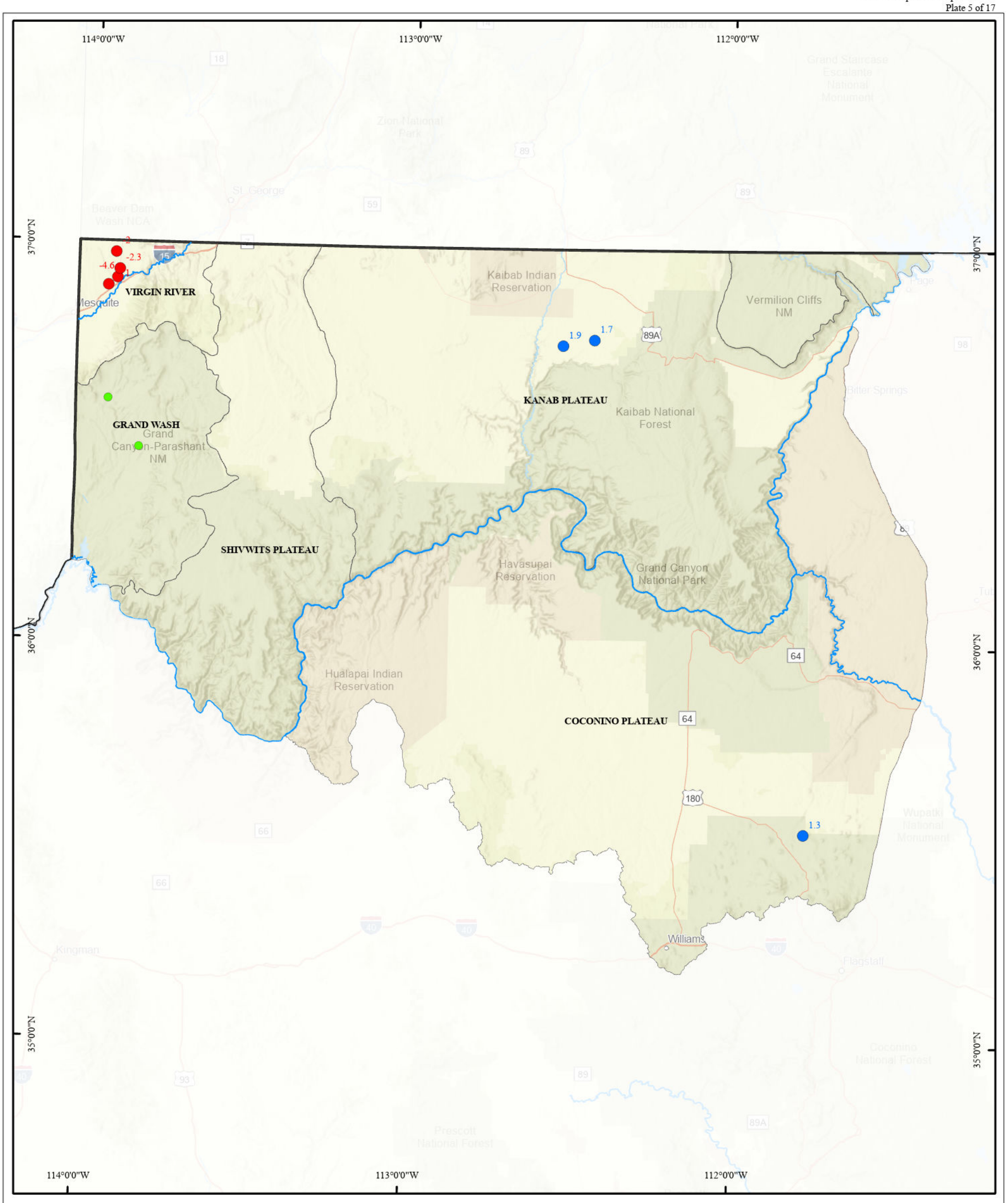
Water Level Change Reports\
Water Level Change Report 2021\Maps

Hydrology Division



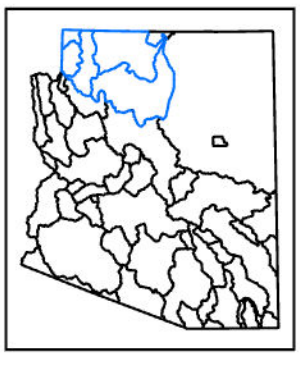
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:1,100,000

0 2.5 5 10 15 20 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 5)

September 2025

North American Datum 1983
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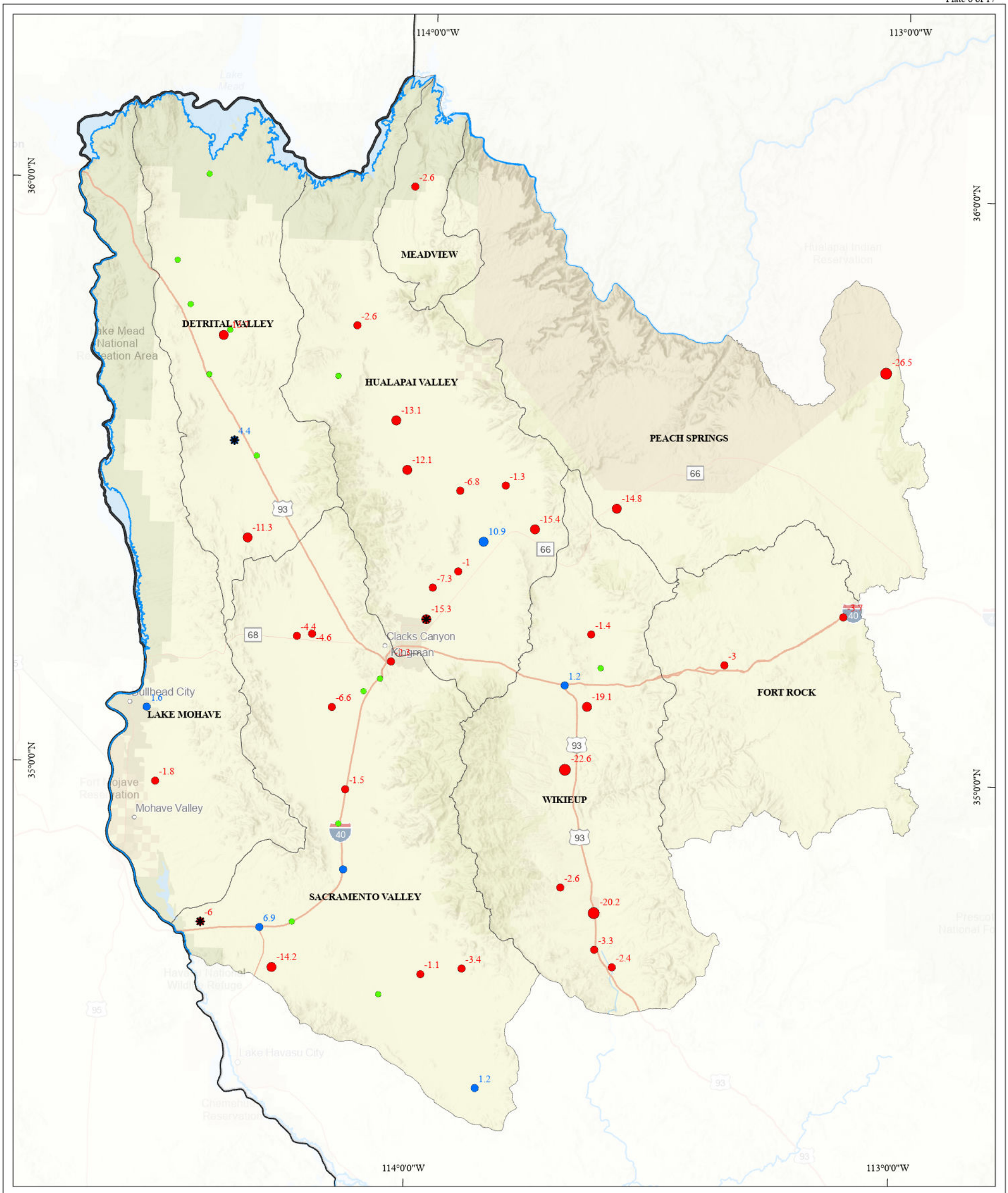
Water Level Change Report 2021\Maps

Hydrology Division



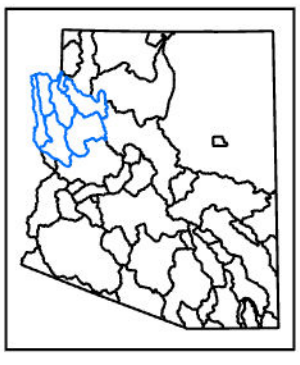
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:750,000

0 2.5 5 10 15 20 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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https://app.azwater.gov/gwsi/SearchGWSI.aspx/

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 6)

September 2025

North American Datum 1983
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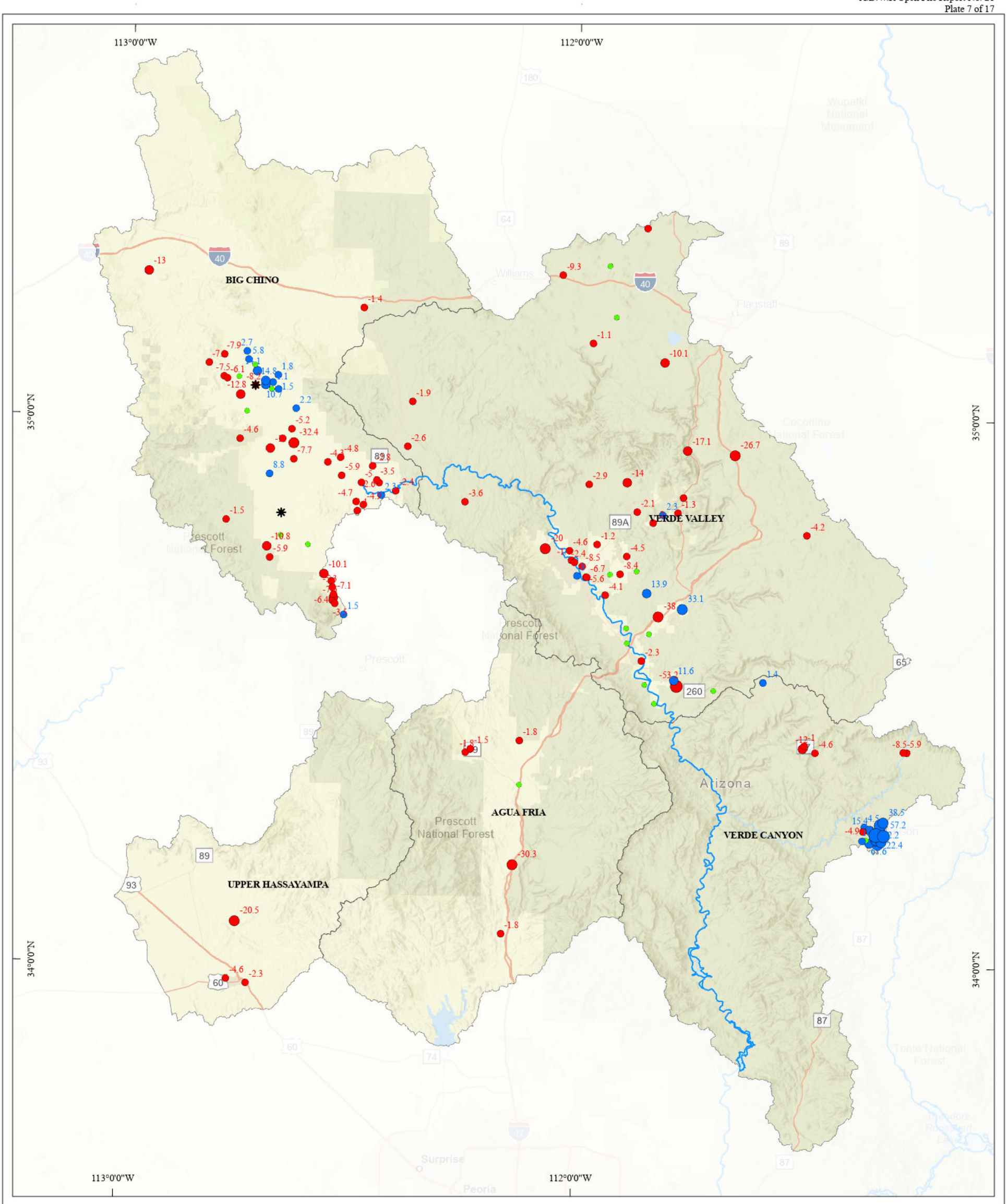
Hydrology Division



Explanation

Groundwater Level Change (Feet)

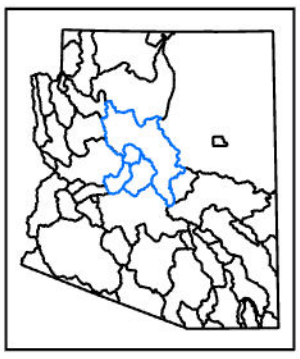
- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

Roadways

Streams

ADWR Groundwater Sub-basins

ARIZONA GROUNDWATER BASINS



Scale 1:800,000

0 2.75 5.5 11 16.5 22 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 7)

September 2025

North American Datum 1983
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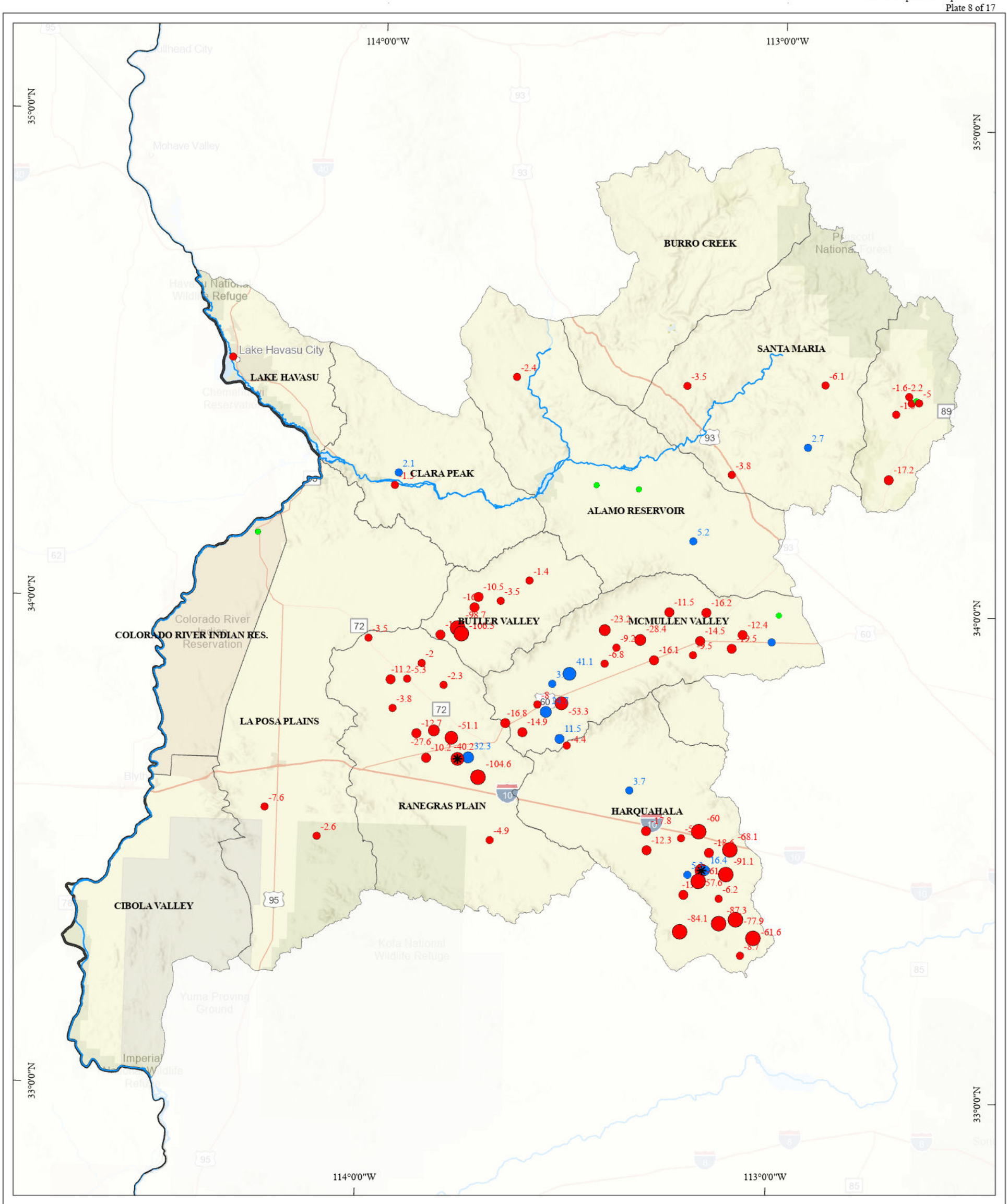
Water Level Change Report 2021\Maps

Hydrology Division



Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

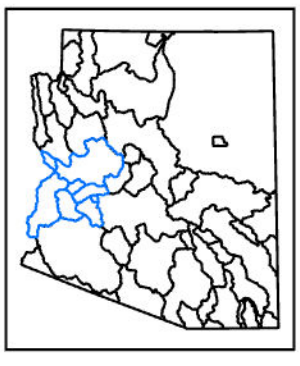
Roadways

Streams

ADWR Groundwater Sub-basins

State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:900,000

0 3 6 12 18 24 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 8)

September 2025

North American Datum 1983
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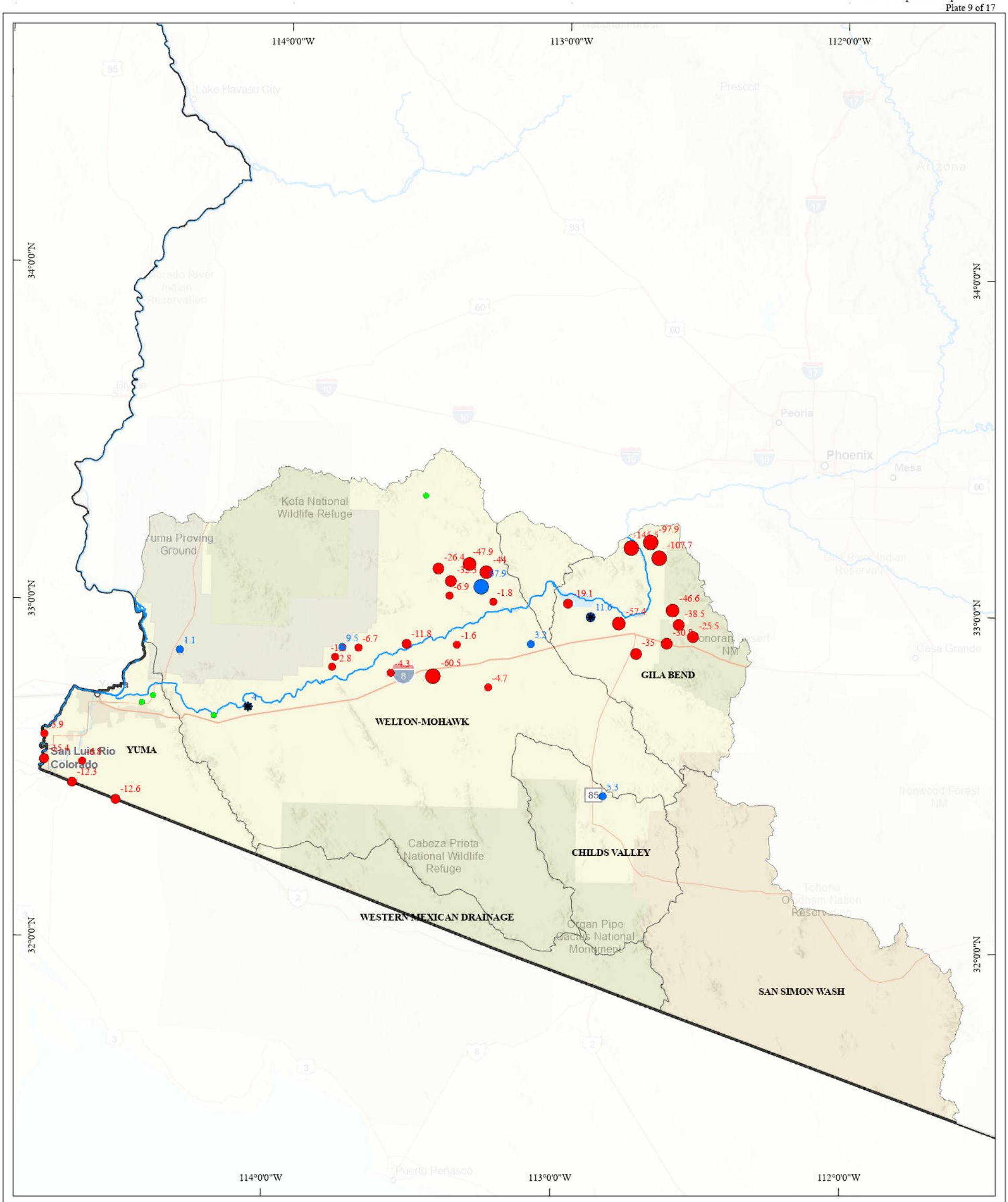
Water Level Change Report 2021\Maps

Hydrology Division



Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS

Scale 1:1,300,000

0 4.5 9 18 27 36 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 9)

September 2025

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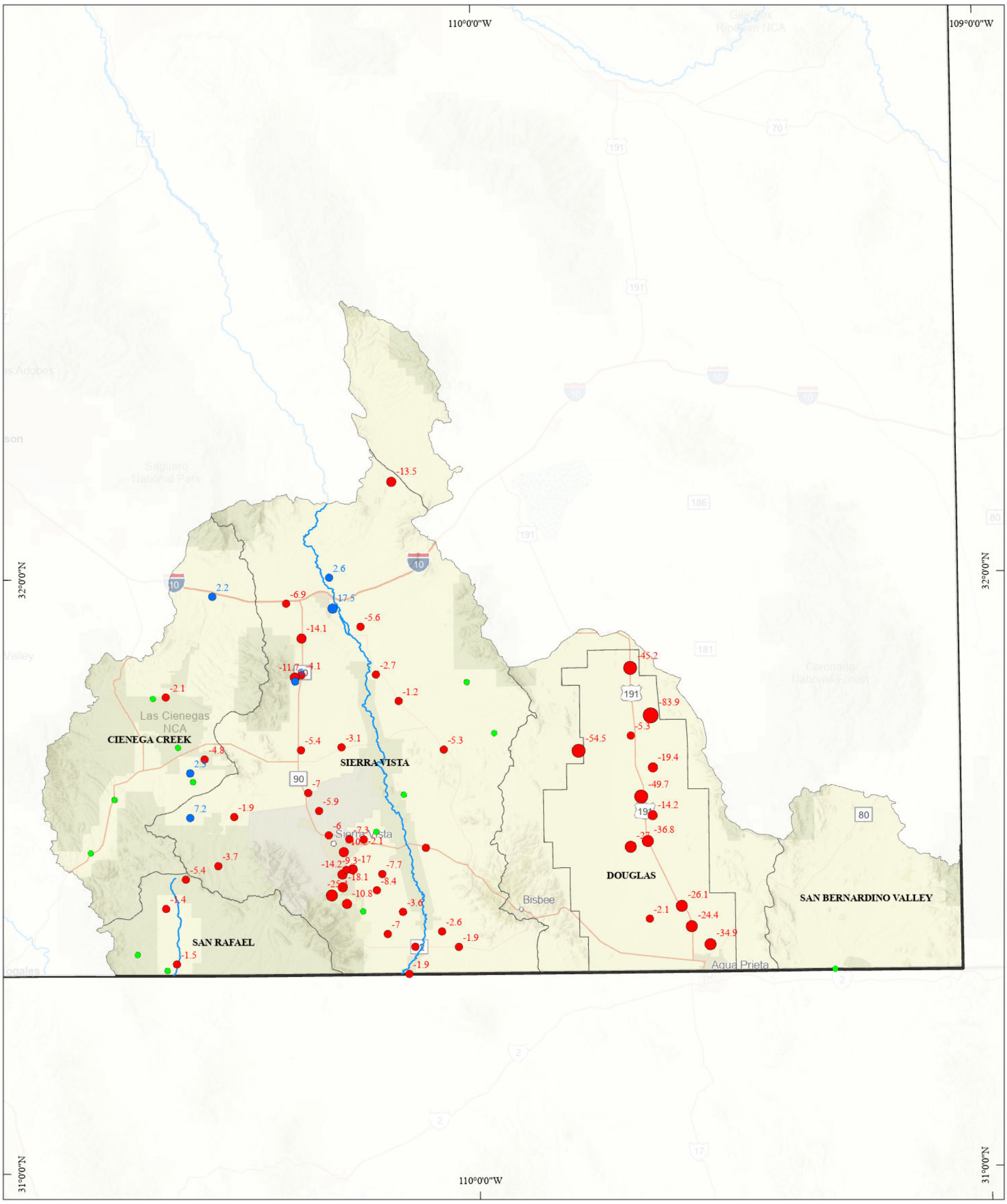
Water Level Change Report 2021\Maps

Hydrology Division



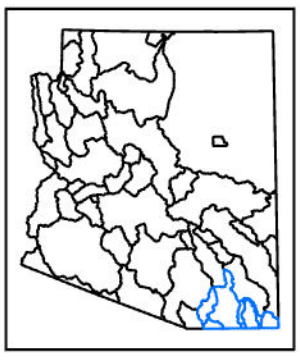
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:750,000

0 2.5 5 10 15 20 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 10)

September 2025

North American Datum 1983
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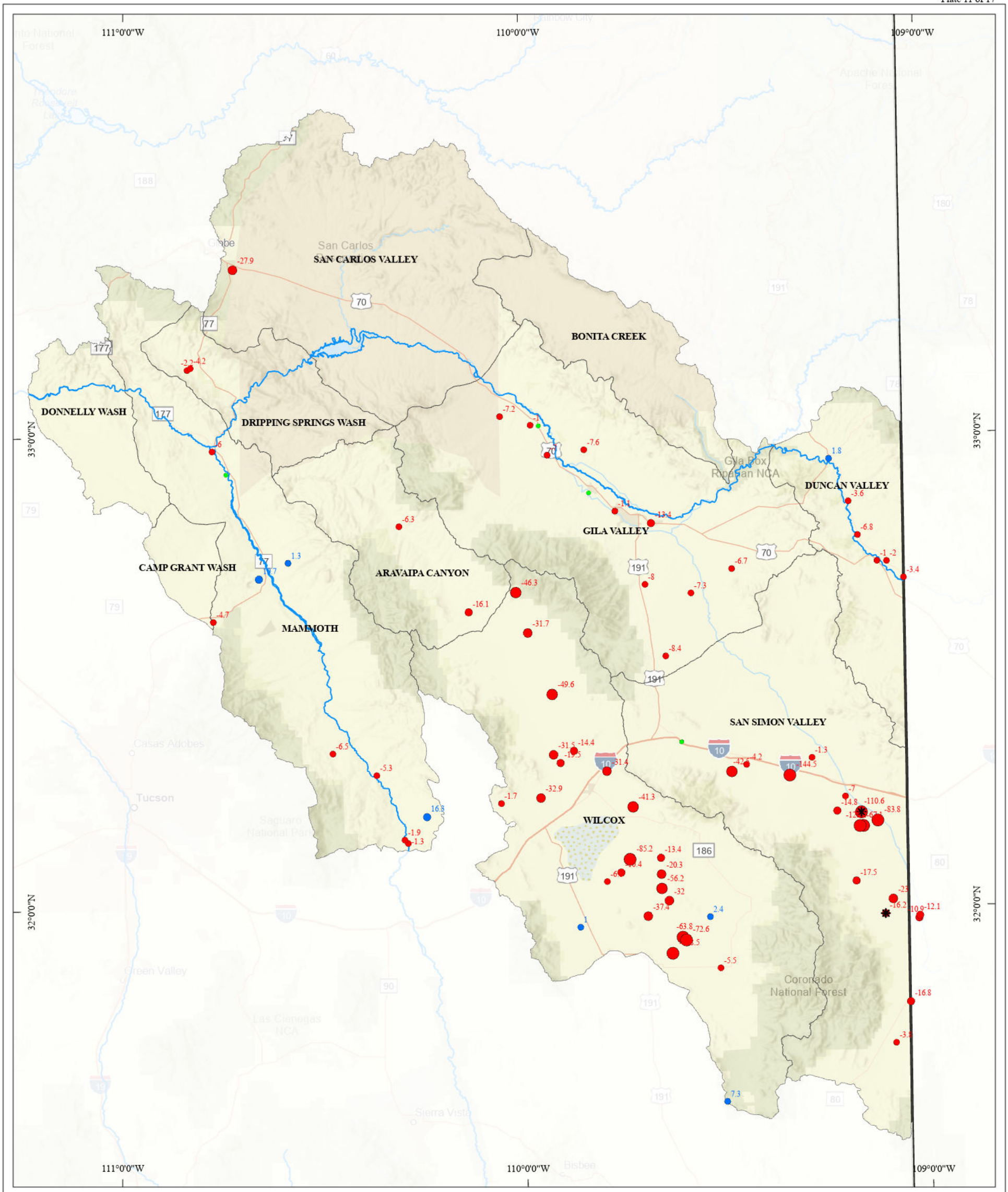
Water Level Change Report 2021\Maps

Hydrology Division



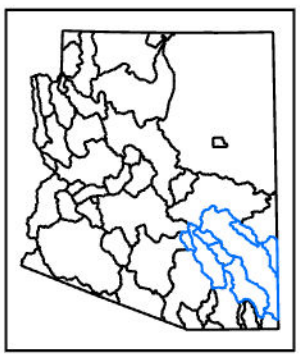
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:925,000

0 3.25 6.5 13 19.5 26 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 11)

September 2025

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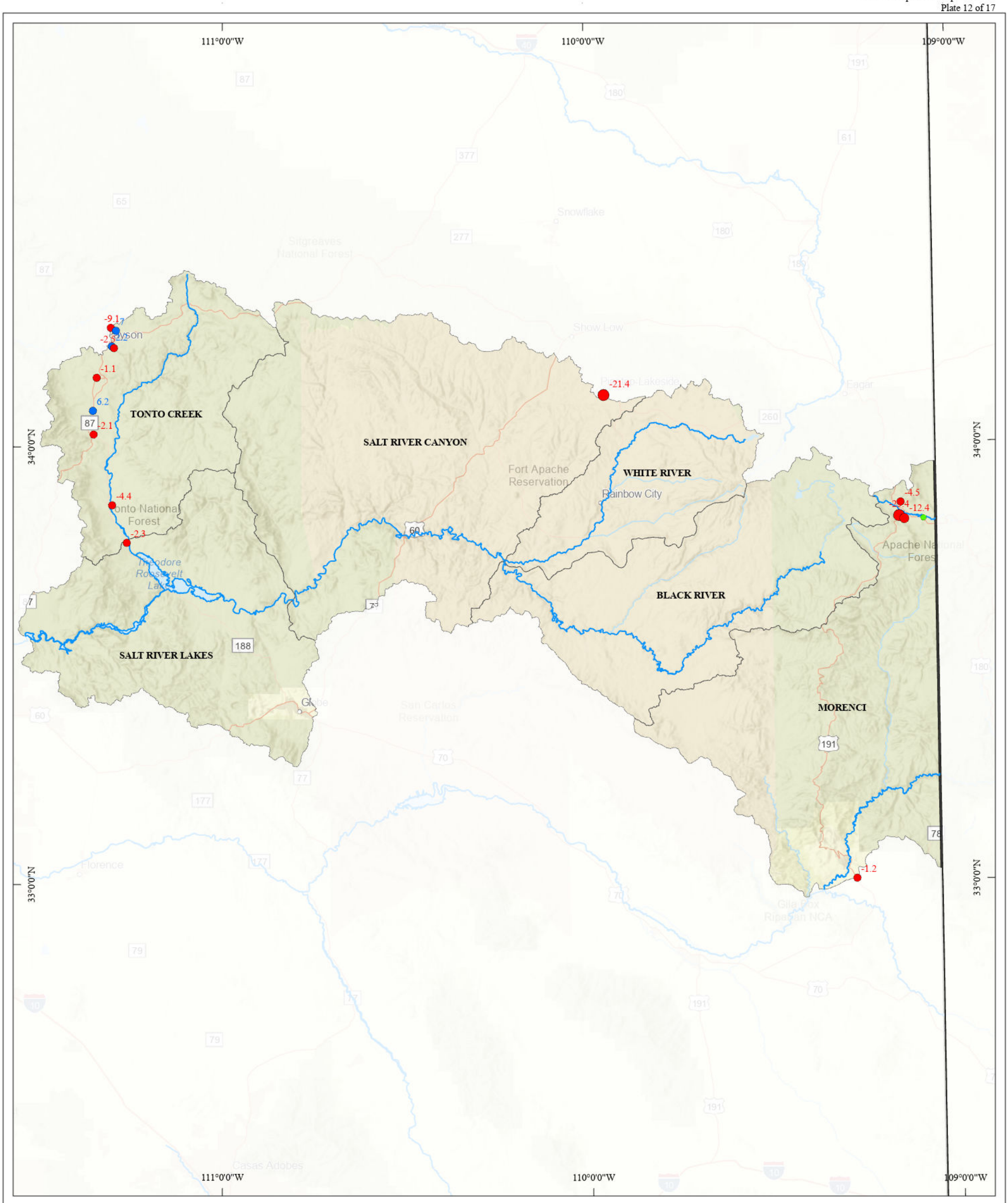
Water Level Change Report 2021\Maps

Hydrology Division



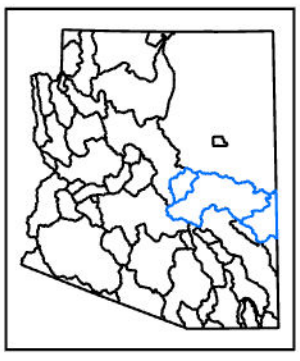
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

Roadways
Streams
ADWR Groundwater Sub-basins
State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:1,000,000

0 3.5 7 14 21 28 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

For data go to:
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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 12)

September 2025

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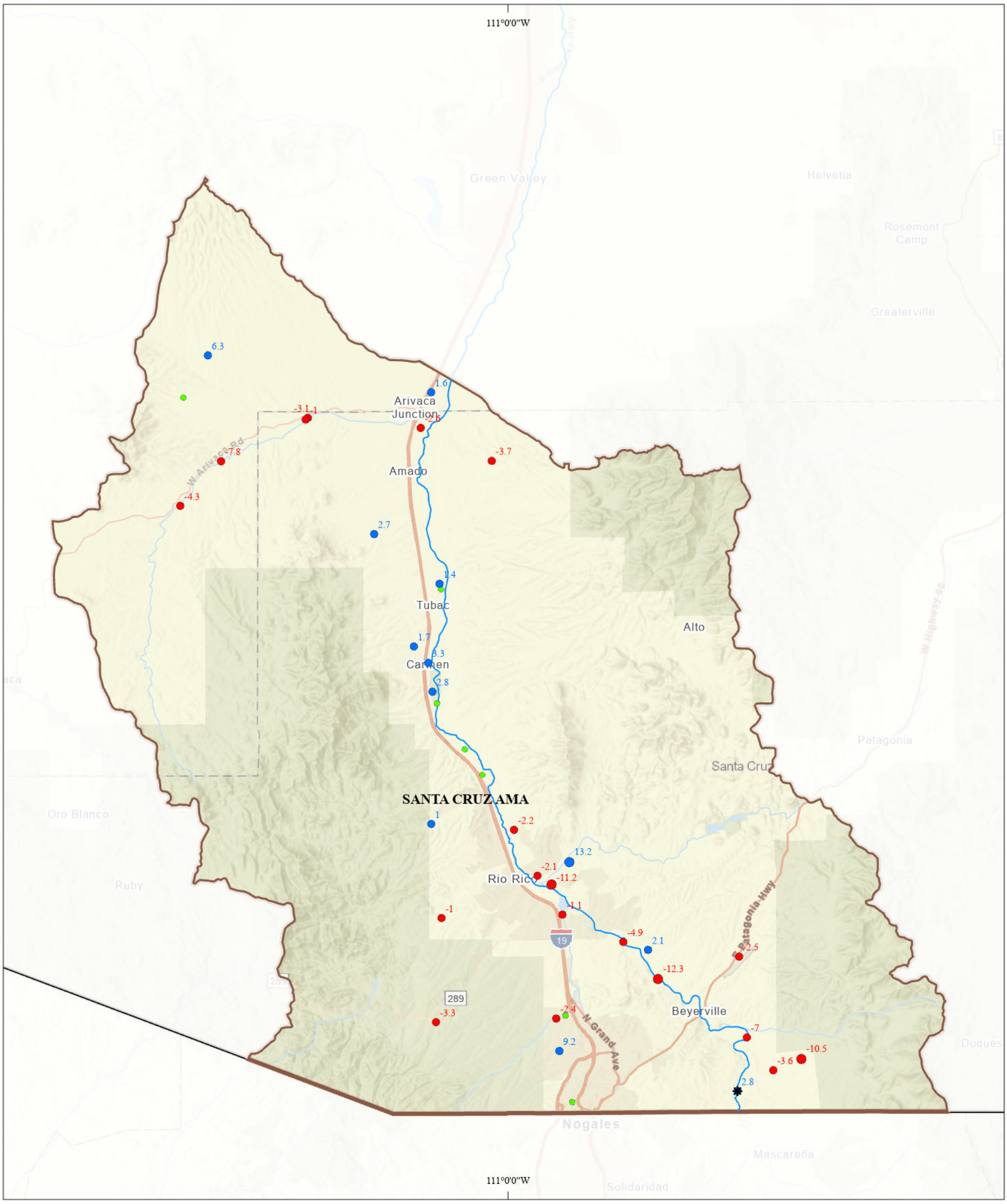
Water Level Change Report 2021\Maps

Hydrology Division



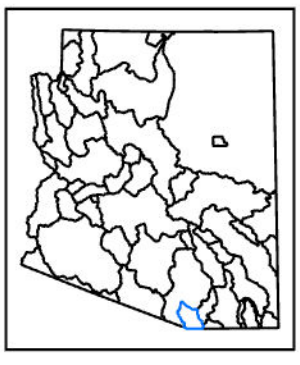
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- Santa Cruz AMA
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:250,000

0 0.75 1.5 3 4.5 6 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 13)

September 2025

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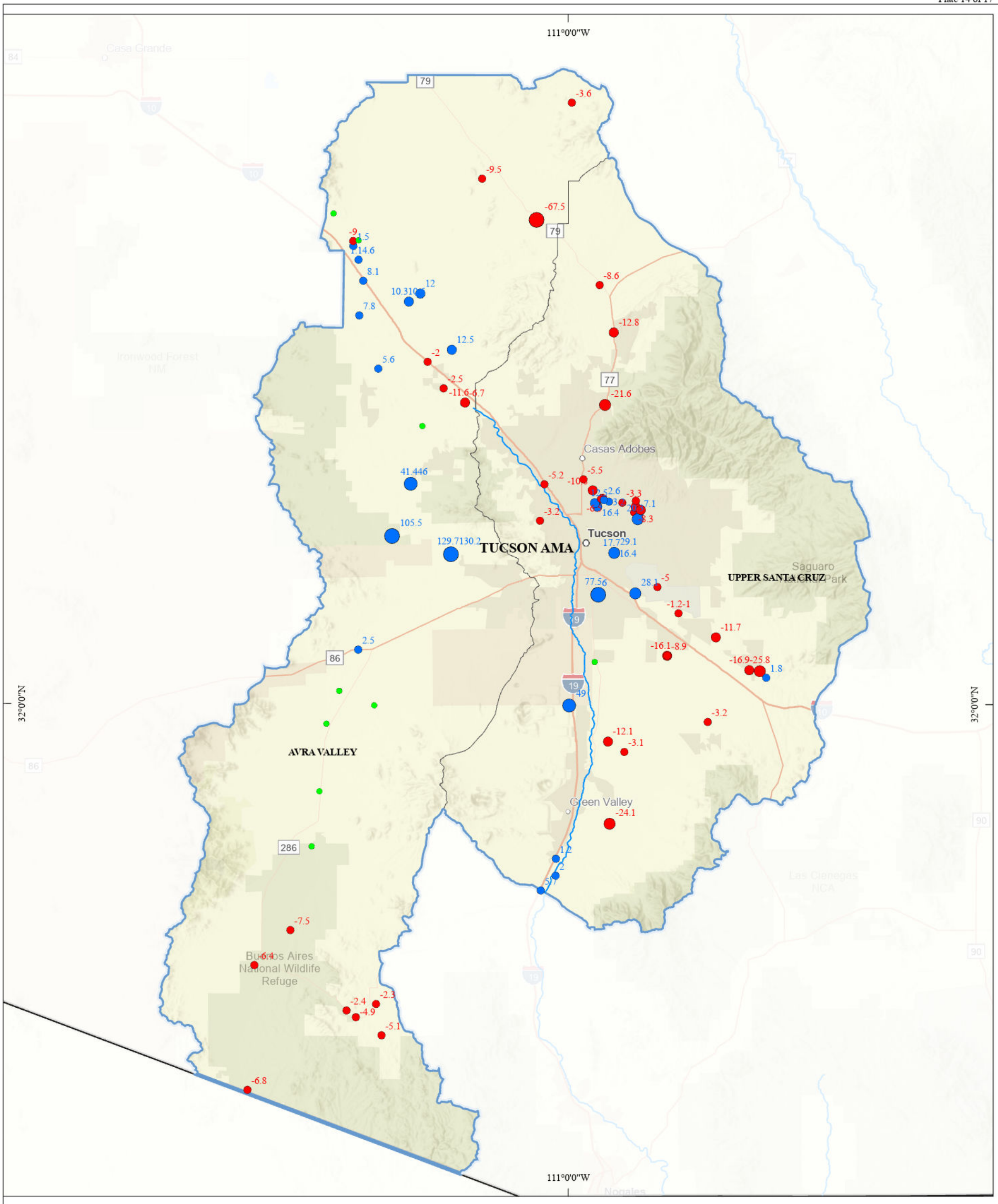
Water Level Change Report 2021\Maps

Hydrology Division



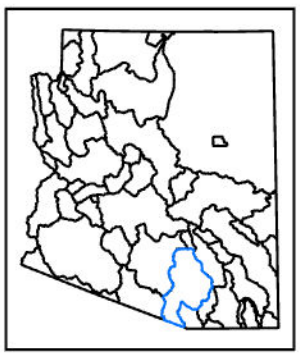
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- Tucson AMA
- State Boundary

ARIZONA GROUNDWATER BASINS



Scale 1:600,000

0 2 4 8 12 16 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 14)

September 2025

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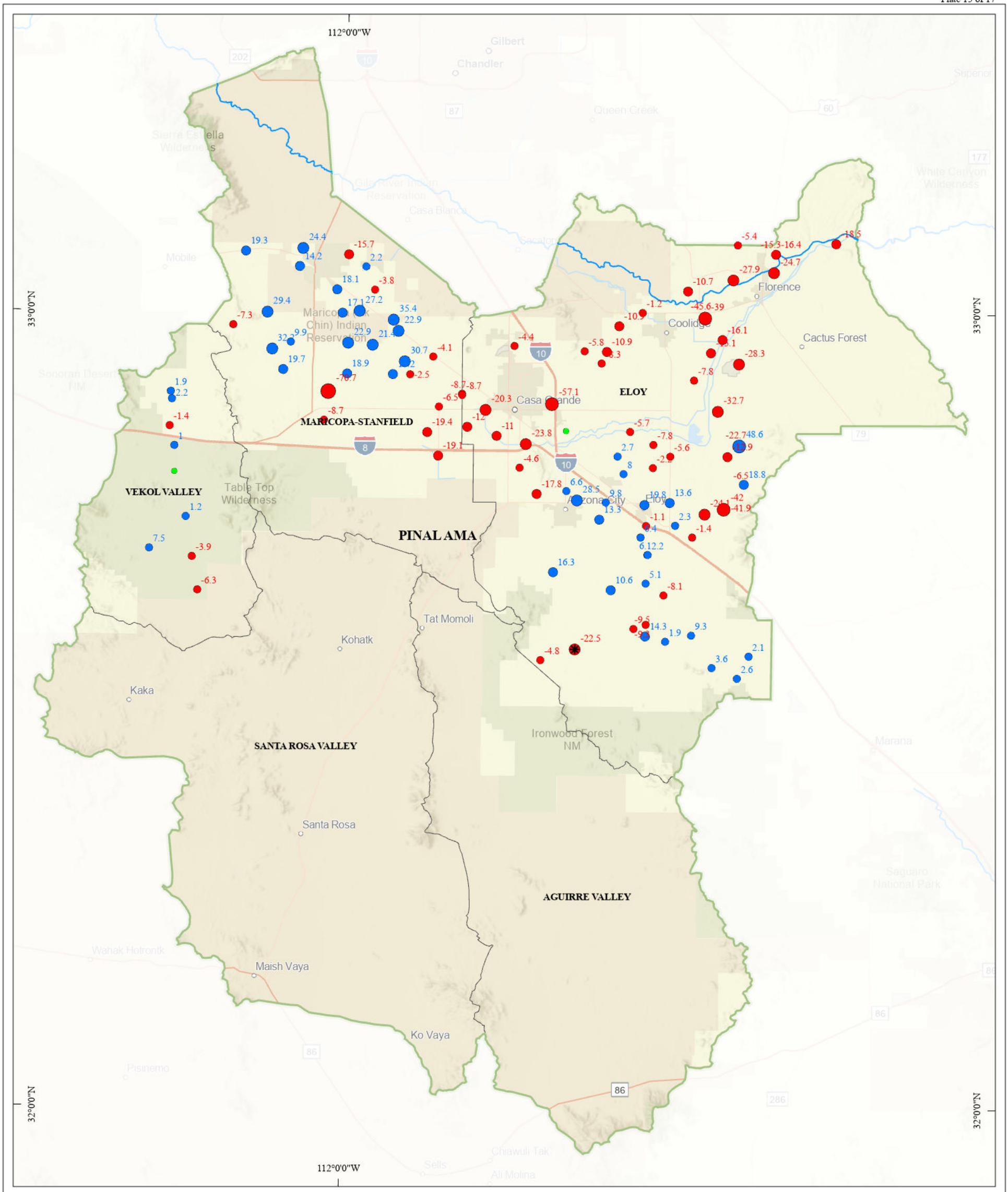
Water Level Change Report 2021\Maps

Hydrology Division



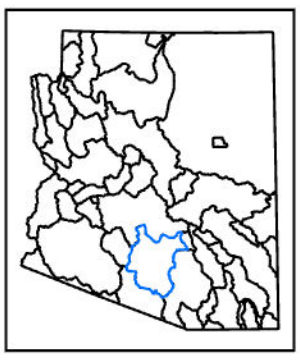
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- Pinal AMA

ARIZONA GROUNDWATER BASINS



Scale 1:550,000

0 1.75 3.5 7 10.5 14 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

For data go to:
https://app.azwater.gov/gwsi/SearchGWSI.aspx

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 15)

September 2025

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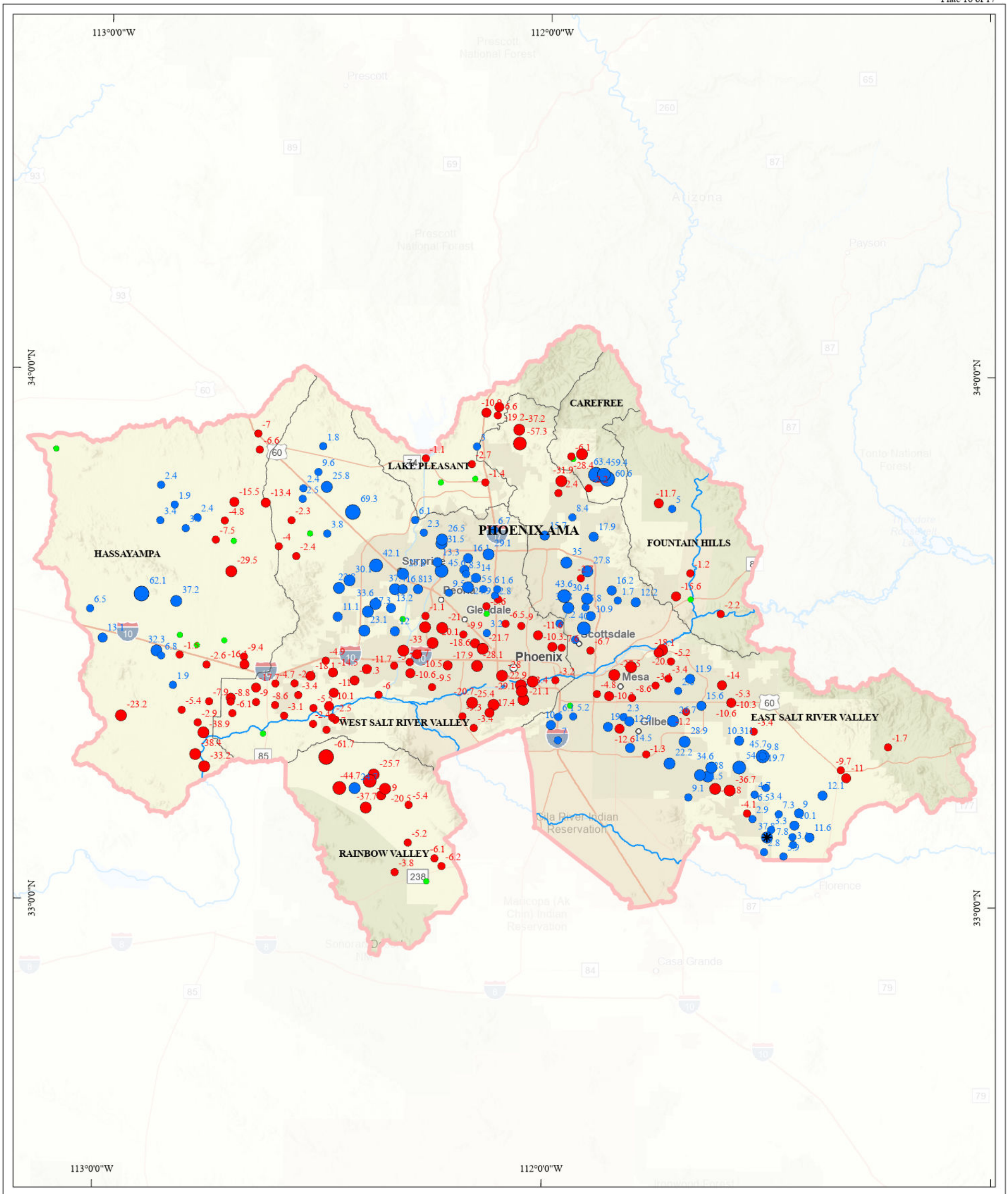
Water Level Change Report 2021\Maps

Hydrology Division



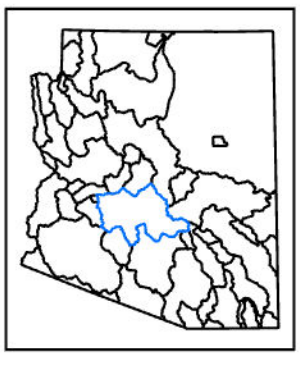
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- Phoenix AMA

ARIZONA GROUNDWATER BASINS



Scale 1:825,000

0 2.75 5.5 11 16.5 22 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

For data go to:
https://app.azwater.gov/gwsi/SearchGWSI.aspx

For more information or copies contact:
ADWR Information Services
1110 W Washington Street, Suite 310
Phoenix, AZ 85007
(602) 771-8500
www.azwater.gov

GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 16)

September 2025

North American Datum 1983
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Water Level Change Reports\
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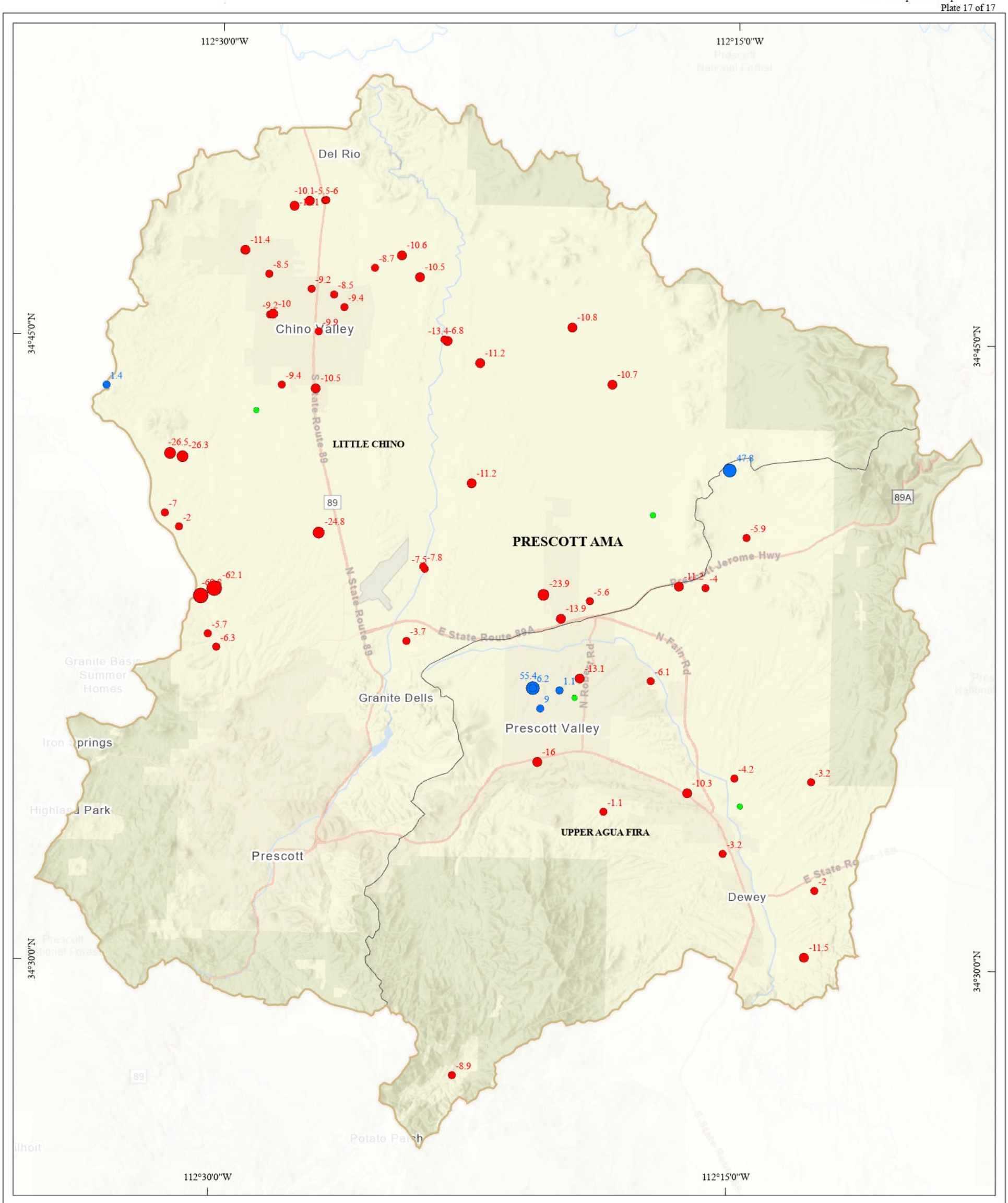
Hydrology Division



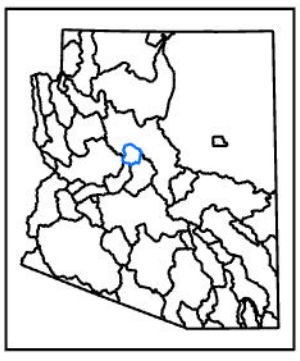
Explanation

Groundwater Level Change (Feet)

- > 60
- 40 to 60
- 20 to 40
- 10 to 20
- 1 to 10
- < 1 foot change
- -1 to -10
- -10 to -20
- -20 to -40
- -40 to -60
- < -60

- Roadways
- Streams
- ADWR Groundwater Sub-basins
- Prescott AMA

ARIZONA GROUNDWATER BASINS



Scale 1:175,000

0 0.5 1 2 3 4 Miles

20 **Well in which depth to groundwater was measured for both years**

Well in which depth to groundwater was measured in both years (WY 2011 and WY 2021). The number next to each well point (20) represents the difference in feet between measurements (water level change) for the time period specified. The water level change shown on the map is rounded to the nearest whole number. Unsigned values denote rises in water levels (blue points) and values with negative signs denote declines in water levels (red points).

* **One or both water level measurements have an associated remark (such as pumping, cascading, etc.). See data table for specific condition affecting water level.**

N

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GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 2011 - 2021 (PLATE 17)

September 2025

Created By: Carl Job
North American Datum 1983
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Appendices

The following appendices have been constructed for a special reference to the data tables included in this report. Appendices (1 – 4) can also be viewed by opening the companion files link where the report is posted online.

Appendix 1

20-Year Groundwater level change in Arizona – Water Years 2001 – 2021

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
AGUA FRIA BASIN	AGUA FRIA	A-09H-02 23CCC	341118112075801	635573	34° 11' 13.5"	112° 8' 2.47"	3395.32	10/25/2000	455.4	V			10/27/2020	479.15	VT		BLUE 500 10:00	-23.8
AGUA FRIA BASIN	AGUA FRIA	A-11-02 14CAA	341959112071601	628102	34° 19' 59.5"	112° 7' 15.9"	3805	10/17/2000	69.4	V			10/19/2020	69.5	S			-0.1
AGUA FRIA BASIN	AGUA FRIA	A-12-02 23BAA	342450112071801	614181	34° 24' 50.4"	112° 7' 17.1"	3870	10/17/2000	38	V			10/19/2020	39.9	S			-1.9
AGUA FRIA BASIN	AGUA FRIA	A-12-01 26BAB1	342553112134501	802822	34° 25' 52.8"	112° 13' 44.8"	4355	10/17/2000	21.8	V			10/19/2020	21.2	S			0.6
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-09-22 19DCC	323753110080601	627711	32° 37' 53.5"	110° 8' 6"	4280	10/30/2000	118.8	V			11/3/2020	142.8	V			-24.0
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-07-20 21BDB	324902110184901	613297	32° 48' 47.6"	110° 18' 29.5"	3515	10/30/2000	50.5	V			11/3/2020	65.9	V			-15.4
BIG SANDY BASIN	FORT ROCK	B-21-10 17CCD1	351153113214301	610506	35° 11' 57.5"	113° 21' 39.2"	5058	10/25/2000	127.1	V			10/30/2020	126.2	V			0.9
BIG SANDY BASIN	FORT ROCK	B-22-08 15CCB	351712113065401		35° 17' 9.9"	113° 6' 53.9"	5510	11/16/2000	487.9	V			10/30/2020	491.7	V			-3.8
BIG SANDY BASIN	WIKIEUP	B-16-13 36CCC	344040113351001		34° 40' 38.7"	113° 34' 46"	1877	10/24/2000	13.8	V			10/19/2020	16	S			-2.2
BIG SANDY BASIN	WIKIEUP	B-16-13 21DDD2	344220113364901	642249	34° 42' 23.3"	113° 37' 0.9"	2040	10/24/2000	103.7	V			10/19/2020	100.5	S			3.2
BIG SANDY BASIN	WIKIEUP	B-21-13 24BCD	351119113370801	614875	35° 11' 20.2"	113° 37' 7.9"	3630	10/25/2000	373.1	V			10/22/2020	371.9	V			1.2
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-09-09 04CBC	340852113122501	600587	34° 8' 52.1"	113° 12' 25.1"	2360	12/6/2000	643.4	V			10/26/2020	632.2	V			11.2
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-10 31CBA	341508113203801	809687	34° 15' 7.2"	113° 20' 40.1"	2162	12/6/2000	641.5	V			10/31/2020	640.4	V			1.1
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-11 31BBB1	341531113265801	614664	34° 15' 31"	113° 26' 58"	1350	12/6/2000	52.3	V			10/26/2020	51.5	S			0.8
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-13-13 07DDB2	342836113391301	644225	34° 28' 37.8"	113° 39' 12.4"	1756	10/24/2000	138.9	V			10/23/2020	139.8	V			-0.9
BILL WILLIAMS BASIN	CLARA PEAK	B-11-16 29AAA	341624113562401	619426	34° 16' 27.3"	113° 56' 23.6"	695	12/6/2000	101.3	V			10/28/2020	97.3	V			4.0
BILL WILLIAMS BASIN	SANTA MARIA	B-12-06 W31BAD	342044112554101	613951	34° 20' 41.8"	112° 55' 40.4"	3470	10/19/2000	91.9	V			10/22/2020	90.3	S			1.6
BILL WILLIAMS BASIN	SANTA MARIA	B-11-08 20ADB	341707113063901	614653	34° 17' 9.6"	113° 6' 54.9"	2600	10/24/2000	75.6	V			10/19/2020	78.8	S			-3.2
BILL WILLIAMS BASIN	SANTA MARIA	B-13-09 17BCC	342801113134801	611613	34° 28' 1.2"	113° 13' 48.1"	2590	10/24/2000	46.6	V			10/19/2020	50.8	S			-4.2
BILL WILLIAMS BASIN	SANTA MARIA	B-13-06 09DCD	342828112531801	625722	34° 28' 25.1"	112° 53' 14.2"	3500	10/19/2000	18.3	V			10/22/2020	24.4	S			-6.1
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 28DA UNSURV	342621112402301	613852	34° 26' 21.1"	112° 40' 22.5"	4215	11/8/2000	74	V			10/21/2020	80.2	S			-6.2
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 26BCC1 UNSV	342626112391401	613867	34° 26' 24.9"	112° 39' 14.6"	4350	11/8/2000	240.7	V			10/21/2020	248.8	V			-8.1
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 27AB UNSPZ1	342639112394201	613860	34° 26' 39.5"	112° 39' 40.4"	4366	11/8/2000	227.09	S			10/21/2020	193.2	V			33.9
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 27AB UNSPZ2	342639112394202	613860	34° 26' 39.5"	112° 39' 40.4"	4360	11/8/2000	253.1	V			10/21/2020	249.3	V			3.8
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ1	342709112404501	613853	34° 27' 10.5"	112° 40' 44.6"	4260	10/20/2000	104.5	V			10/21/2020	107.7	S			-3.2
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ2	342709112404502	613853	34° 27' 10.5"	112° 40' 44.6"	4260	10/20/2000	110.1	V			10/21/2020	114	S			-3.9
BILL WILLIAMS BASIN	SKULL VALLEY	B-14-04 22BAD	344248112400801	614731	34° 32' 48.5"	112° 40' 7.6"	4555	10/20/2000	90	V			10/21/2020	94.3	S			-4.3
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 16DCC	335635113493001		33° 56' 35.6"	113° 49' 32.2"	1346	12/5/2000	95.7	V			10/27/2020	118.7	S			-23.0
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 13DCB	335648113462101	614544	33° 56' 48"	113° 46' 26.3"	1490	12/5/2000	244.5	V			10/29/2020	361.4	V		PUMP OFF 12HRS. MEAS2X	-116.9
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 29CDC	340004113443601	807275	34° 0' 4.9"	113° 44' 35.9"	1487	12/5/2000	213.3	V			10/28/2020	236.4	V			-23.1
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 23DDD	340058113404701	614576	34° 0' 57.1"	113° 40' 45.4"	1618	12/6/2000	347.9	V			10/28/2020	354.1	V			-6.2
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 20DAB	340122113440301	633680	34° 1' 22.3"	113° 44' 3.1"	1522	12/5/2000	249.5	V			10/28/2020	265.3	V			-15.8
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-13 04DDD1	340333113363701	614575	34° 3' 33.4"	113° 36' 33.9"	1790	12/6/2000	513.5	V			10/26/2020	515.5	V			-2.0
CIENEGA CREEK BASIN	CIENEGA CREEK	D-22-15 12AAD2	313225110453301	809433	31° 32' 23.4"	110° 45' 32.7"	4041	11/30/2000	10.52	S			1/28/2021	15	S			-4.5
CIENEGA CREEK BASIN	CIENEGA CREEK	D-21-16 09ABA	313748110424501	624881	31° 37' 46.9"	110° 42' 43.5"	4420	11/29/2000	34.4	S			1/28/2021	46.5	S			-12.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 24CDD	314026110334901	650922	31° 40' 26.5"	110° 33' 47.1"	4810	11/28/2000	152.3	V			1/27/2021	156	V			-3.7
CIENEGA CREEK BASIN	CIENEGA CREEK	D-17-18 09BCC	315816110310601	601585	31° 58' 16.3"	110° 31' 3.5"	3843	11/28/2000	102.9	V			1/26/2021	91.9	V			11.0
COCONINO PLATEAU BASIN	COCONINO PLATEAU	A-25-06 20ACC	353210111462401	613880	35° 32' 10.2"	111° 46' 22.2"	6965	10/16/2000	89.8	V			10/19/2020	90.6	V			-0.8
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-26-20 06ACA	354027114273101	505703	35° 40' 18.46"	114° 27' 21.47"	2499.67	10/17/2000	460.9	V			10/21/2020	460.74	VT		BLUE 500 14:00	0.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-30-20 06CAD UNSURV	360105114281101	629128	36° 0' 53.2"	114° 28' 12.5"	1337	10/17/2000	57.3	V			10/29/2020	57.7	V			-0.4
DOUGLAS BASIN	DOUGLAS	D-20-25 09BDD2	314225109475401	633787	31° 42' 26.8"	109° 47' 54"	4575	11/1/2000	267.5	V			11/4/2020	282.1	V			-14.6
DOUGLAS BASIN	DOUGLAS INA	D-23-27 22DDA2	312433109344901		31° 24' 35.7"	109° 34' 48.2"	4042	11/1/2000	217.5	V			11/3/2020	259.7	V			-42.2
DOUGLAS BASIN	DOUGLAS INA	D-23-26 13CCC1	312527109395701	625680	31° 25' 27.1"	109° 39' 43.9"	4009	11/1/2000	66.5	V			11/3/2020	70.9	V			-4.4
DOUGLAS BASIN	DOUGLAS INA	D-23-28 31CCC	312248109323801		31° 22' 45.3"	109° 32' 37.4"	4042	11/1/2000	293.3	V			11/3/2020	352.9	V			-59.6
DOUGLAS BASIN	DOUGLAS INA	D-22-26 31CCC	312803109444501	624411	31° 28' 1.5"	109° 44' 47.9"	4090	10/31/2000	71	V			11/3/2020	83.6	S			-12.6
DOUGLAS BASIN	DOUGLAS INA	D-23-28 09CCC	312615109304201	808425	31° 26' 14.5"	109° 30' 37.7"	4258	11/1/2000	66	V			11/3/2020	68	V			-2.0
DOUGLAS BASIN	DOUGLAS INA	D-23-27 09DAB	312638109355901	617653	31° 26' 39.8"	109° 35' 56.8"	4055	11/1/2000	199.1	V			11/3/2020	240.1	V			-41.0
DOUGLAS BASIN	DOUGLAS INA	D-22-26 04DAD	313242109415501	809942	31° 32' 41.3"	109° 41' 52.8"	4095	10/31/2000	121.5	V			11/4/2020	151.1	S			-29.6
DOUGLAS BASIN	DOUGLAS INA	D-22-26 29BCC1	312923109434901		31° 29' 20.7"	109° 43' 51.3"	4059	11/1/2000	61	V			11/3/2020	70	S			-9.0
DOUGLAS BASIN	DOUGLAS INA	D-21-26 24ABB	313550109392001	632767	31° 35' 51.3"	109° 39' 15.4"	4196	10/31/2000	188.5	V			11/4/2020	206.3	V			-17.8
DOUGLAS BASIN	DOUGLAS INA	D-22-26 02AAA	313310109395501	607540	31° 33' 14.9"	109° 39' 51"	4165	10/31/2000	205.7	V			11/4/2020	238.4	V			-32.7
DOUGLAS BASIN	DOUGLAS INA	D-21-26 32DAD	313332109430001	602706	31° 33' 34.09"	109° 42' 53.63"	4077.24	10/31/2000	69.6	V			10/21/2020	94.59	VT		TAKEN WITH BLACK 500 AT 8:30	-25.0
DOUGLAS BASIN	DOUGLAS INA	D-21-26 02CCD	313740109403801	609654	31° 37' 45.5"	109° 40' 34.1"	4141	10/31/2000	124.8	V			11/4/2020	177.2	V			-52.4
DOUGLAS BASIN	DOUGLAS INA	D-19-26 33CDA	314358109414801		31° 43' 55.2"	109° 41' 43"	4185	10/31/2000	159.6	V			11/4/2020	173.4	V			-13.8
DOUGLAS BASIN	DOUGLAS INA	D-19-26 23DAA	314557109392401	618189	31° 45' 56.6"	109° 39' 20"	4304	10/31/2000	323.1	V			11/4/2020	438.3	V			-115.2
DOUGLAS BASIN	DOUGLAS INA	D-18-26 28AAA2	315042109414301	086642	31° 50' 45.4"	109° 41' 41.6"	4268	10/30/2000	211.8	V			11/2/2020	286.9	V			-75.1
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29BDB	330845110501701	607669	33° 8' 43"	110° 50' 17.6"	2710	10/30/2000	84.14	S			11/3/2020	91.9	S			-7.8
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29AAB	330858110495101	624276	33° 8' 57.3"	110° 49' 48"	2725	10/30/2000	95.6	V			11/3/2020	102.6	S			-7.0
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 34ADD	324142109030001	628592	32° 41' 39.6"	109° 2' 50.9"	3730	10/31/2000	42.6	V			11/4/2020	52.6	V			-10.0
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 18CCD	324348109064601	628601	32° 43' 48.5"	109° 6' 46.9"	3655	10/31/2000	21	V			11/4/2020	23.6	S			-2.6
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 20ABB	324355109051801	509106	32° 43' 46.6"	109° 5' 20.7"	3705	10/31/2000	68.9	V			11/4/2020	71.1	V			-2.2
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 34BAC	324707109093901	607832	32° 47' 7.4"	109° 9' 38.6"	3590	10/31/2000	34.5	V			11/4/2020	50.5	S			-16.0
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 04BCC	325114109105801	600582	32° 51' 24.7"	109° 10' 57.3"	3544	10/31/2000	26.4	V			11/4/2020	30.6	S			-4.2
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-06-30 01BAA	325655109135001	637316	32° 56' 50.7"	109° 13' 47.4"	3645	10/31/2000	190.9	V			11/4/2020	191.5	V			-0.6
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 20W 12 144	323438108514601		32° 34' 56.9"	108° 51' 46"	4206	10/31/2000	275	V			11/4/2020	297	V		MEAS 2X	-22.0
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 21W 01 131	323555108581601		32° 35' 53.7"	108° 58' 13.9"	4153	10/31/2000	317.7	V			11/4/2020	315.6	V			2.1
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	19S 20W 16 222	323938108541901		32° 39' 39.8"	108° 54' 19.1"	4097	3/5/2001	82.8	V			11/4/2020	85.6	V			-2.8
GILA BEND BASIN	GILA BEND	C-06-05 25BBA	325253112434801	609892	32° 52' 55"	112° 43' 47.7"	860	11/29/2000	298.1	V			10/29/2020	357.6	V			-59.5
GILA BEND BASIN	GILA BEND	C-06-04 12CDD	325450112371501	650671	32° 54' 50.8"	112° 37' 21.4"	973	11/30/2000	409.7	V			10/27/2020	463.1	V			-53.4
GILA BEND BASIN	GILA BEND	C-06-03 02ADD	325605112315001	807428	32° 56' 5.4"	112° 31' 49.5"	1221	11/30/2000	635.1	V			10/27/2020	677.3	V			-42.2
GILA BEND BASIN	GILA BEND	C-05-03 29AAA	325813112345301		32° 58' 12.7"	112° 34' 52.9"	1015	11/30/2000	439.6	V			10/27/2020	513.8	V			-74.2
GILA BEND BASIN	GILA BEND	C-05-05 20DCD	325816112473101	809667	32° 58' 18.1"	112° 47' 32.2"	659	11/29/2000	85	V			10/30/2020	170.8	V		DID NOT SEE ANY NEARBY WELLS PUMPING, SO MAYBE THERE WAS PUMPING NEARBY RECENTLY	-85.8
GILA BEND BASIN	GILA BEND	C-05-06 17DAD	325920112533201		32° 59' 19.8"	112° 53' 32.5"	658	11/29/2000	84.2	V			7/28/2021	74.1	V			10.1
GILA BEND BASIN	GILA BEND	C-04-07 34CDC	330143112582201	628201	33° 1' 39.6"	112° 58' 22.4"	580	11/29/2000	23.3	V			1/27/2021	47.5	S			-24.2
GILA BEND BASIN	GILA BEND	C-02-04 26BDA	331337112383401		33° 13' 35.9"	112° 38' 33.2"	900	3/20/2001	280.9	V			10/26/2020	386.1	V			-105.2
GRAND WASH BASIN	GRAND WASH	B-36-15 25DCD	362908113505501	801704	36° 29' 7.8"	113° 50' 57"	2739	10/19/2000	507.7	V			10/28/2020	507.7	V			0.0
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 14DDD	332005113022801		33° 20' 3.4"	113° 2' 23.6"	991	12/4/2000	220.3	V			10/28/2020	272.3	S			-52.0
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 34BCD	331753113041001	634099	33° 17' 51.6"	113° 4' 16.5"	1054	12/4/2000	212.5	V			10/28/2020	224.3	V			-11.8
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 06DCC	332149113070301	606843	33° 21' 46.59"	113° 6' 59.59"	1076	11/28/2000	336.1	V			10/28/2020	384.4	V			-48.3
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 04BDA1	332216113050501		33° 22' 18.8"	113° 5' 1.2"	1065	11/28/2000	317.6	V			10/28/2020	399.2	V			-81.6
HARQUAHALA BASIN	HARQUAHALA INA	C-01-09 18ACB	332040113131401	625970	33° 20' 41.2"	113° 13' 11.4"	1305	11/15/2000	577.4	V			10/28/2020	653.3	V			-75.9
HARQUAHALA BASIN	HARQUAHALA INA	B-01-08 19BCC	332450113073501	600200	33° 24' 50.1"	113° 7' 34.8"	1093	11/28/2000	29	V			10/27/2020	32.2	S			-3.2
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 20BBB	332513113124701	616571	33° 25' 13.7"	113° 12' 46.3"	1175	11/29/2000	71.4	V			10/27/2020	88.8	S			-17.4
HARQUAHALA BASIN	HARQUAHALA INA	B-01-08 06AAA	332749113063901	612565	33° 27' 51.7"	113° 6' 34.4"	1121	11/28/2000	365	V			12/3/2020	493.2	V			-128.2
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 35CBB	332819113094101	803520	33° 28' 17.9"	113° 9' 38.5"	1142	11/29/2000	26.6	V			10/27/2020	20.2	S			6.4
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 10BBB	332658113104001	800152	33° 26' 57.6"	113° 10' 36.7"	1148	11/29/2000	376	V			10/27/2020	429.3	V			-53.3
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 05ABC	332743113121801	805455	33° 27' 42.5"	113° 12' 15.1"	1172	2/16/2001	100.6	V			10/27/2020	83.5	V			17.1
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 07ABB	332321213131801	627169	33° 32' 12.5"	113° 13' 17.7"	1260	11/28/2000	302	V			10/26/2020	303.3	V			-1.3
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 23ABB	333027113091001	611131	33° 30' 28.5"	113° 9' 8.1"	1169	11/28/2000	83.6	V			10/27/2020	76.9	S			6.7
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 17DCA	333035113181701	621523	33° 30' 38.2"	113° 18' 19.5"	1295	11/29/2000	373	V			10/27/2020	360.2	V			12.8
HARQUAHALA BASIN	HARQUAHALA INA	B-02-08 17CAA	333057113060701		33° 30' 54.7"	113° 6' 3.1"	1180	11/28/2000	417	V			10/27/2020	522.5	V		POOR READING	-105.5
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 05ABB	333301113182601	648614	33° 33' 0.35"	113° 18' 27.92"	1330.37	2/12/2001	400.3	V			2/4/2021	385.32	VT		TAKEN AT 11:15 WITH BLACK 500	15.0
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 03BBB	333305113104301	808833	33° 33' 5.2"	113° 10' 41.6"	1261	12/1/2000	490.1	V			10/26/2020	574.7	V			-84.6
HARQUAHALA BASIN	HARQUAHALA INA	B-03-13 28ADC	333425113454901	603145	33° 34' 27"	113° 35' 49.3"	1336	11/27/2000	314.9	V			10/30/2020	316.8	V			-1.9
HARQUAHALA BASIN	HARQUAHALA INA	B-03-11 01BCC	333802113210301	520474	33° 37' 57.7"	113° 21' 4.4"	1486	12/1/2000	536.3	V			10/26/2020	511.1	V			25.2
HARQUAHALA BASIN	HARQUAHALA INA	B-04-09 30AAC	334000113130301	612687	33° 39' 56.5"	113° 12' 59.1"	1765	11/30/2000	326.3	V			10/26/2020	328.5	V			-2.2
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-22-16 03CBB	351907113582801	805941	35° 19' 8.5"	113° 58' 25.8"	3321	10/16/2000	566.3	V			10/22/2020	592.1	V			-25.8
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-23-15 30CBB	352052113551801	606421	35° 20' 52.7"	113° 55' 18.2"	3153	10/16/2000	377.2	V			10/22/2020	378.8	V			-1.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-22-16 28BDA	351554113590701	612659	35° 15' 52.97"	113° 59' 6.94"	3300.13	2/12/2001	561.2	V	S		2/17/2021	591.21	VT	S	BLACK 1500 17:30	-30.0
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-26-18 03AAA1	354036114110601	641124	35° 40' 3.55"	114° 11' 6"	3300	10/25/2000	557.2	V			10/21/2020	556.9	V			0.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-14 28CAD	352555113462001	624981	35° 25' 58.78"	113° 46' 18.93"	3353.65	10/25/2000	546.1	V			10/21/2020	546.8	V			-0.7
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-16 01DDD1	352910111553001	619553	35° 29' 10.8"	113° 55' 20.9"	2961	10/25/2000	450	V			10/22/2020	455.3	V			-5.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-17 31CCC1	354552114085001	805894	35° 45' 50.6"	114° 8' 55.8"	3010	10/25/2000	652.5	V			10/21/2020	652.8	V			-0.3
KANAB PLATEAU BASIN	KANAB PLATEAU	B-39-02 20CDD	364540112315501	805803	36° 45' 33.7"	112° 31' 56.5"	5272	10/19/2000	611.1	V			10/26/2020	610.4	V			0.7
KANAB PLATEAU BASIN	KANAB PLATEAU	B-40-04 06AAC	365403112452801		36° 54' 3.6"	112° 45' 25.8"	5140	10/19/2000	82.4	V			10/27/2020	94.1	V			-11.7
LAKE HAVASU BASIN	LAKE HAVASU	B-13-20 04ABB1	343007114213101	606035	34° 30' 1.9"	114° 21' 32.8"	475	10/27/2000	60	V			10/22/2020	27	V			33.0
LAKE MOHAVE BASIN	LAKE MOHAVE	B-18-21 05CAC	345824114321901	510925	34° 58' 23.3"	114° 32' 20.8"	801	10/26/2000	336.5	V			10/21/2020	340	V			-3.5
LAKE MOHAVE BASIN	LAKE MOHAVE	B-20-22 24DDD	350557114334501	506309	35° 5' 57.2"	114° 33' 43.8"	905	10/27/2000	425.8	V			10/22/2020	425.8	V			0.0
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-17-20 26DBC	345023110111401	632990	34° 50' 21.54"	110° 11' 11.04"	5361.75	10/17/2000	303.1	V			10/28/2020	309.04	VT		BLUE 500 10:00	-5.9
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-19 23DBD	345635110173801		34° 56' 32.2"	110° 17' 21.6"	5030	10/18/2000	40.3	V			10/21/2020	46.5	S			-6.2
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-19 17ADC	345736110204201	620724	34° 57' 34.5"	110° 20' 36.7"	5015	10/18/2000	64.2	V			10/20/2020	63.4	S			0.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-07-30 14BDD	340010109090101	802842	34° 0' 6.6"	109° 8' 59.6"	8032	10/18/2000	156	V			10/22/2020	157.7	V			-1.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-07-27 01CDB	340135109270001		34° 1' 35"	109° 26' 59.9"	8255	10/18/2000	31.1	V			10/22/2020	34.1	S			-3.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-29 32BCA	340807109180401	621743	34° 8' 6.4"	109° 18' 4.2"	6980	5/16/2001	36.8	V			10/22/2020	54.2	V			-17.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-29 33BDA	340808109165001	623223	34° 8' 8.6"	109° 16' 49.3"	6970	10/18/2000	133.2	V			10/22/2020	135.6	V			-2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25CDC1	340828109575301	630191	34° 8' 29.6"	109° 57' 53.2"	6758	5/3/2001	61.9	V			4/20/2021	145.1	V			-83.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25DDD1	340829109571601		34° 8' 28.3"	109° 57' 17.9"	6825	5/3/2001	75.1	V			4/20/2021	73.7	V			1.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25CCB	340832109581101		34° 8' 33.1"	109° 58' 12.5"	6755	5/3/2001	67.4	V			10/20/2020	100.8	V			-33.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22AAC	340958109593201	617190	34° 9' 57.5"	109° 59' 30.7"	6720	4/25/2001	101.1	V			4/19/2021	92.6	V			8.5

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-24 22DBC	342006109470801	801337	34° 20' 5.8"	109° 47' 8.4"	6650	5/17/2001	707.6	V			10/20/2020	710.9	V			-3.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-28 22BDD2	342024109220301	085863	34° 20' 18.53"	109° 22' 2.42"	6062	10/18/2000	80.9	V			10/28/2020	119.37	VT		BLUE 500 13:00	-38.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-29 20ABB	342033109174101	611373	34° 20' 33.4"	109° 17' 37.6"	6521	10/18/2000	566.95	V			10/21/2020	647.8	V			-80.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-25 18DCA	342044109440001	806050	34° 20' 47.46"	109° 43' 54.56"	6422	10/17/2000	27.24	S			10/20/2020	29.7	S			-2.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-26 19DDD	342516109372701	532813	34° 25' 10.7"	109° 37' 24.5"	6310	10/19/2000	13.14	S			10/20/2020	17.1	S			-4.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-26 18CBB	342623109382901	600014	34° 26' 22.9"	109° 38' 29"	6390	5/25/2001	545.8	V			10/20/2020	553.6	V			-7.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-19 14ABD	342123110173301	617074	34° 21' 22.3"	110° 17' 33.1"	6365	10/16/2000	428.6	V			10/20/2020	422.5	V			6.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-29 35AAA	342946109133501	632094	34° 29' 45.9"	109° 13' 35"	6176	10/19/2000	203.2	V			10/21/2020	234.3	V			-31.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 24CBC	343009110043501	604441	34° 30' 9.5"	110° 4' 35.5"	5618	10/17/2000	100.75	V			10/20/2020	94.15	S			6.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-28 29BDC	343015109234801		34° 30' 15.1"	109° 23' 47.7"	5790	10/19/2000	27.34	S			10/21/2020	26.1	S			1.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 34DCC2	342811110061201	649164	34° 28' 10.6"	110° 6' 12.6"	5658	10/17/2000	139	V			10/20/2020	118.2	V			20.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 10CDA	343150110063001	600370	34° 31'50.4"	110° 6' 20.7"	5632	10/17/2000	160.2	V			10/20/2020	151.7	V			8.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-27 15BDA2	343200109275801	617786	34° 32' 2.6"	109° 27' 47.7"	5840	10/19/2000	266.4	V			10/21/2020	304.5	V			-38.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-26E 18CBD2	343637109374901	810276	34° 36' 36.2"	109° 37' 52.4"	5433	10/19/2000	39.33	S			10/21/2020	37.7	S			1.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-26 07BAD2	343302109372001	617800	34° 32' 53.5"	109° 37' 21"	5642	10/19/2000	208.2	V	K		10/21/2020	142.5	V	K		65.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-12 15DDC	344058111033101	631365	34° 40' 58"	111° 3' 31.2"	6503	10/20/2000	668.1	V			10/22/2020	664.2	V			3.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-23 28DCC1	343950109544001	618874	34° 39' 47.4"	109° 54' 37.7"	5350	10/17/2000	54.9	V			10/21/2020	38.9	S			16.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-16-22 17CCD	344644110024201	607126	34° 46' 44.9"	110° 2' 41.6"	5165	10/17/2000	53.7	V			10/20/2020	60.8	V			-7.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-21 10CBA	345310110062501		34° 53' 12.36"	110° 6' 24.96"	5141	10/17/2000	55.3	V			10/22/2020	58	S			-2.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-24 09ABB	345850109475001	629091	34° 58' 49.3"	109° 47' 49.8"	5325	5/22/2001	14.6	V			4/20/2021	17.8	S			-3.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-23 07BAA	345901109564001	621425	34° 58' 55.5"	109° 56' 37.4"	5235	10/17/2000	27.9	V			10/21/2020	30.8	S			-2.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-19 33CCB	345955110202501	521996	35° 0' 0.6"	110° 20' 19.6"	5150	10/18/2000	40.6	V			10/21/2020	39.5	V			1.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-14 13ABD3	345750110482801	806154	34° 57' 49.6"	110° 48' 28.2"	5162	10/19/2000	279	V			10/22/2020	284.3	V			-5.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-08 05DDD2	350304111334802	533591	35° 3' 4.4"	111° 33' 48.1"	6960	6/8/2001	48.3	V			10/22/2020	58.1	S			-9.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-16 06CDB1	350417110413301	085761	35° 4' 15.2"	110° 41' 40.9"	4830	10/18/2000	41.6	V			10/20/2020	46.2	S			-4.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-14 03AAC1	350447110502301	618121	35° 4' 47.6"	110° 50' 21.8"	5120	6/8/2001	384.5	V			7/27/2021	398.7	V			-14.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 25DCB2	350454111361701	533589	35° 4' 54.6"	111° 36' 12.77"	6840.9	6/5/2001	50	V			4/19/2021	75.8	S			-25.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-27 25BBD2	351149109260802	628733	35° 11' 48.6"	109° 26' 8.6"	5785	10/17/2000	62.9	V			10/21/2020	62	S			0.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-09 17ACD	351213111274001	637392	35° 12' 14.11"	111° 27' 29.83"	6434	6/12/2001	1314.9	V			7/28/2021	1310.3	V			4.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-28 23AAC	351224109202401	806189	35° 12' 28.2"	109° 20' 9.3"	5825	10/17/2000	39.9	V			10/21/2020	47.3	S			-7.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-07 32CBB	351442111410001	808126	35° 14' 41.6"	111° 41' 0.1"	7174	10/19/2000	130.6	V			10/19/2020	80.8	S			49.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 27DCB2	351523111443801	647022	35° 15' 22.2"	111° 44' 38"	7318	8/16/2001	50.05	V			7/27/2021	56.1	V			-6.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 26BDB1	351551111434701	608396	35° 15' 51"	111° 43' 47.4"	7300	11/16/2000	82.9	V			10/21/2020	73	S			9.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 25BBC1	351556111430401		35° 15' 56.9"	111° 43' 4.8"	7322	2/15/2001	188.5	V			2/4/2021	183.1	V			5.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 23DBC3	351620111433201		35° 16' 22.5"	111° 43' 31.4"	7332	2/15/2001	129.15	V			2/4/2021	125.1	S			4.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-25-09 06CCD	353410111284001	649814	35° 34' 10.98"	111° 28' 45.95"	5379.95	6/11/2001	1589.5	V			7/28/2021	1587.2	V			2.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-23-08 21ABA	352214111324601	649813	35° 22' 14.71"	111° 32' 46.42"	6923.25	6/6/2001	1960.7	V			4/20/2021	1959	V			1.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 25DCB1	354541111361701	533599	35° 4' 54.54"	111° 36' 13.34"	6842.35	6/5/2001	138	V			4/19/2021	166.6	S			-28.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-17 32AAD	342356110325601	579785	34° 23' 55.9"	110° 32' 56.1"	6575	4/27/2001	500.1	V			10/20/2020	500.8	V			-0.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25DDD2	340827109571701	574627	34° 8' 27.8"	109° 57' 17.8"	6825	5/3/2001	92.8	V			10/20/2020	198.3	V			-105.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-18 29CBB	343946110275401	600439	34° 39' 45.3"	110° 27' 53.7"	5919	5/2/2001	572.1	V			10/20/2020	574.8	V			-2.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-23 35DDA	344929109514901	506605	34° 49' 28.8"	109° 51' 51.8"	5611	5/15/2001	314.2	V			4/20/2021	307.5	V			6.7
LOWER GILA BASIN	CHILDS VALLEY	C-11-06 24BDA1	322726112502001	600485	32° 27' 27.2"	112° 50' 20.3"	1420	10/18/2000	681	V			11/3/2020	668.4	V			12.6
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-10 36BCC	324628113145301	615112	32° 46' 27.8"	113° 14' 53.2"	623	10/16/2000	166.6	V			11/4/2020	173.8	V			-7.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-15 16AAA	324928113475501		32° 49' 29.2"	113° 47' 54.9"	335	10/16/2000	31.4	V			10/29/2020	35.2	V			-3.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-13 21AAA	324839113353201	803848	32° 48' 38.8"	113° 35' 31.6"	419	10/16/2000	92.6	V			10/29/2020	99.4	V			-6.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 34DCC	325117113471701		32° 51' 15.4"	113° 47' 20.5"	385	10/16/2000	79.9	V			10/29/2020	81	V			-1.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-20 32ACA2UNSURV	325157114200700	808688	32° 51'46.7"	114° 20' 7.4"	410	11/29/2000	239.1	V			10/28/2020	238.2	V			0.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-12 19BBA	325353113321101		32° 53' 53.6"	113° 32' 17.7"	383	10/16/2000	31.8	V			10/29/2020	45.8	S			-14.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-11 14CDD	325356113214201		32° 53' 57.2"	113° 21' 41.6"	463	10/16/2000	57.7	V			11/4/2020	59.7	V			-2.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-14 28BAB	325300113423201	627175	32° 53' 0.5"	113° 42' 26.9"	408	10/16/2000	103.9	V			10/29/2020	117.6	S			-13.7
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 26AAA	325300113455201		32° 53' 1.2"	113° 45' 52"	410	10/16/2000	104.6	V			10/29/2020	96.4	V			8.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-08 17BDD	325422113060801	804050	32° 54' 19.8"	113° 6' 4.9"	708	10/16/2000	231.4	V			10/27/2020	229.4	V			2.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-05-19 19BCB UNSURV	325841114155401		32° 58' 48.1"	114° 15' 59.7"	835	11/29/2000	633.2	V			10/28/2020	634	V			-0.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-05-09 06BBB	330140113140901	633678	33° 1' 44.3"	113° 14' 11.3"	501	10/18/2000	47.3	V			10/27/2020	53	S			-5.7
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-10 22ABB	330422113164301	619482	33° 4' 23.5"	113° 16' 47.1"	605	10/18/2000	134.7	V			10/27/2020	67.6	S			67.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-10 29BCC	330822113192101	614970	33° 8' 23.8"	113° 19' 22.6"	798	10/18/2000	390.7	V			10/27/2020	432.2	V			-41.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-11 15BBA	330514113231001	618118	33° 5' 15.7"	113° 23' 15.4"	693	10/18/2000	295.2	V			10/27/2020	324.2	V			-29.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-11 31DBB	330725113260201	804053	33° 7' 26.67"	113° 25' 56.91"	786.34	2/14/2001	385.8	V			2/4/2021	409.9	VT		TAKEN AT 13:45 WITH BLACK 500	-24.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-01-12 15CAC UNSURV	332022113285601	513721	33° 20' 21.6"	113° 28' 56.3"	1270	11/27/2000	304.9	V			10/30/2020	304.9	V			0.0
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	D-08-14 09AAD	324525110534701	615540	32° 45' 24.7"	110° 53' 46.5"	3965	12/28/2000	73.8	V			11/4/2020	74.6	S			-0.8
LOWER SAN PEDRO BASIN	MAMMOTH	D-14-20 34CAA1	321017110171401		32° 10' 18.4"	110° 17' 15.1"	3362	12/29/2000	116.4	V			11/5/2020	118.6	V			-2.2
LOWER SAN PEDRO BASIN	MAMMOTH	D-14-21 19CAC	321157110143001	615955	32° 11'56.7"	110° 14' 33.3"	4210	12/29/2000	139.5	V			11/5/2020	78.8	S			60.7
LOWER SAN PEDRO BASIN	MAMMOTH	D-13-18 02BDD	322003110283701		32° 20' 0.3"	110° 28' 34.6"	3230	12/28/2000	99.8	V			11/4/2020	124.7	S			-24.9
LOWER SAN PEDRO BASIN	MAMMOTH	D-12-19 19BBC	322253110270001	613528	32° 22' 52.3"	110° 26' 56.1"	2950	12/28/2000	41.8	V			11/4/2020	79.1	S			-37.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-09-15 35AAD	323644110461201	649302	32° 36' 44.8"	110° 46' 24.1"	4480	12/28/2000	31.5	V			11/3/2020	45.8	S			-14.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-16 25DCD	324208110393301		32° 42' 11.1"	110° 39' 32.5"	2910	10/30/2000	501.7	V			11/4/2020	482.1	V			19.6
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-17 15DAA1	324418110350001		32° 44' 18.2"	110° 35' 10.1"	2978	10/30/2000	296.2	V			11/4/2020	294.3	V			1.9
LOWER SAN PEDRO BASIN	MAMMOTH	D-06-16 08CBB1	325513110441001		32° 55' 26.8"	110° 44' 26.2"	2025	12/27/2000	26	V			11/3/2020	28.3	S			-2.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-05-15 26AAD	325823110463301	612035	32° 58' 23"	110° 46' 32.9"	1925	12/27/2000	21	V			11/3/2020	28.3	S			-7.3
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 28ACC	334452113370401	607056	33° 44' 50"	113° 37' 2.6"	1918.3	11/28/2000	298.1	V			10/23/2020	326.9	V			-28.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 19BBD2	334557113393201		33° 45' 54.2"	113° 39' 36.6"	1955	11/28/2000	363.3	V			10/23/2020	397.5	V			-34.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 32ADB	334408113313401		33° 44' 7.2"	113° 31' 32.5"	1697	11/28/2000	99.3	V			10/23/2020	121.7	V			-22.4
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-13 28DBD2	334955113365201	634103	33° 49' 55"	113° 36' 52.8"	2009	11/28/2000	549.1	V			10/22/2020	641.9	V			-92.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-12 19DBB	335053113224001		33° 50' 53.6"	113° 32' 49.1"	1939.09	11/28/2000	41	V			10/22/2020	42	S			-1.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 02DBB	334818113350001		33° 48' 17.72"	113° 34' 56.6"	1861.45	2/13/2001	31.4	A			2/4/2021	29.94	VT		TAKEN AT 9:45 WITH BLACK 500	1.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 01BDA	334827113335701	625292	33° 48' 28"	113° 33' 58.3"	1859	11/28/2000	404.2	V			10/22/2020	538.8	V			-134.6
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 05AAD1	334845113312201	614500	33° 48' 31.5"	113° 31' 22.1"	1907	11/28/2000	276.8	V			10/22/2020	432.7	V			-155.9
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-11 05ADD	335334113250701	804122	33° 53' 32.07"	113° 25' 8.41"	1991.42	11/14/2000	237.3	V			10/22/2020	251.8	V			-14.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 33ABB	335449113120601	612679	33° 54' 49.3"	113° 12' 6.4"	2235	11/27/2000	634.2	V			10/21/2020	648.3	V			-14.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 15BAA	335727113045101	807721	33° 57' 26.1"	113° 4' 49.4"	2257	11/27/2000	615	V			10/21/2020	641.1	V			-26.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 08DAD2	335741113251401	506602	33° 57' 40.8"	113° 25' 13.8"	2175	11/28/2000	502.4	V			10/22/2020	547.8	V			-45.4
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-10 36BBB	340003113154501	614567	34° 0' 3.3"	113° 15' 44.5"	2198	11/27/2000	541.1	V			10/21/2020	561.2	V			-20.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 27ABC	335535113232701	801549	33° 55' 32.7"	113° 23' 27.9"	2028	11/28/2000	243.8	V			10/22/2020	270	V			-26.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 20DDD	335545113062501	500248	33° 55' 42.9"	113° 6' 23.8"	2224	11/27/2000	642.5	V			10/21/2020	691	V			-48.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 19AAA	335633113195701	604150	33° 56' 34.3"	113° 19' 56.8"	2056	11/27/2000	354.8	V			10/21/2020	389.3	V			-34.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 15CDD	335635113110601	604129	33° 56' 35.3"	113° 11' 5.9"	2153	2/23/2001	561.7	V			10/21/2020	581	V			-19.3
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-07 17DCC	335637113002801	647309	33° 56' 36.2"	113° 0' 30.4"	2409	11/27/2000	487.1	V			10/23/2020	490.1	V			-3.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-09 26CCD	340005113101801	640729	34° 0' 5.1"	113° 10' 15.4"	2191	11/27/2000	550.7	V			10/21/2020	575.4	V			-24.7
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 33DDA2	335407113175201	546173	33° 54' 5.7"	113° 17' 50.9"	2205	11/28/2000	534	V			10/22/2020	554.4	V			-20.4
MEADVIEW BASIN	MEADVIEW	B-30-17 14DCC	355855114043501	610730	35° 58' 55.2"	114° 4' 33.92"	3187.04	2/13/2001	402.05	V			2/18/2021	431.5	VT		BLUE 500 12:30	-29.5
MORENCI BASIN	MORENCI	D-05-30 17ABA	330016109163701	621098	33° 0' 17.1"	109° 16' 36.2"	3890	10/31/2000	503	V			11/4/2020	504.9	V			-1.9
MORENCI BASIN	MORENCI	A-05-30 14ABD	334954109084501	508886	33° 49' 53.8"	109° 8' 45.4"	8045	5/24/2001	69.4	V			10/22/2020	104.3	S			-34.9
MORENCI BASIN	MORENCI	A-05-30 13DBC	334929109075301	633171	33° 49' 28.1"	109° 7' 54.7"	7999	10/18/2000	94.9	V			10/22/2020	78.8	S			16.1
MORENCI BASIN	MORENCI	A-05-31 17CAA1	334943109055301	519013	33° 49' 36.2"	109° 5' 53.4"	7907	10/18/2000	7.53	S			10/22/2020	8.6	S			-1.1
MORENCI BASIN	MORENCI	A-05-31 16DBC	334930109044701		33° 49' 30.6"	109° 4' 47.2"	7936	5/16/2001	36.74	S			10/22/2020	40.7	S			-4.0
PARIA BASIN	PARIA	A-41-08 14BCA	365723111302801	637389	36° 57' 22.7"	111° 30' 26.5"	4112	10/20/2000	459.4	V			10/26/2020	520.1	V			-60.7
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	B-09-19 07BBB	340836114165701	601138	34° 8' 37.3"	114° 17' 0.6"	419	12/8/2000	76.6	V			10/28/2020	77.5	V			-0.9
PARKER BASIN	LA POSA PLAINS	B-02-18 09DDC	333125114065901		33° 31'21.6"	114° 6' 57"	1495	11/28/2000	65.4	V			10/28/2020	67.5	V			-2.1
PARKER BASIN	LA POSA PLAINS	B-03-19 29BAB	333445114144601	607066	33° 34' 46.6"	114° 14' 44.8"	1008	11/28/2000	137.1	V			10/28/2020	146.2	V			-9.1
PEACH SPRINGS BASIN	PEACH SPRINGS	B-24-12 17CBC	352740113555501	609483	35° 27' 47.09"	113° 35' 37.59"	4250	10/16/2000	147.1	V			10/20/2020	161.4	S			-14.3
PHOENIX AMA	CAREFREE	A-06-04 21DAC	335052111564701		33° 50' 51.7"	111° 56' 47.3"	2170	11/13/2000	128.3	V			12/14/2020	111.1	S			17.2
PHOENIX AMA	CAREFREE	A-06-05 31CCC2	334850111532401	604782	33° 48' 50.4"	111° 53' 23.9"	2558	11/13/2000	346.5	V			12/18/2020	205.5	V			141.0
PHOENIX AMA	CAREFREE	A-06-05 32CCC	334852111522101	600926	33° 48' 51.2"	111° 52' 21.1"	2670	11/14/2000	416.4	V			12/18/2020	298	V			118.4
PHOENIX AMA	CAREFREE	A-06-04 23BCA	335108111551901	636832	33° 51' 8.6"	111° 55'20"	2396	11/13/2000	132.8	V			12/14/2020	176.8	S			-44.0
PHOENIX AMA	CAREFREE	A-05-05 05CAA	334822111515401	087599	33° 48' 23.47"	111° 51' 52.03"	2670.16	11/13/2000	394.8	V			10/14/2020	295.47	VT		BLUE 500 14:15	99.3
PHOENIX AMA	EAST SALT RIVER	D-03-09 34AAA	330753111241901	619399	33° 7' 55.4"	111° 24' 17.5"	1612	11/6/2000	412.7	V			12/7/2020	379.6	V			33.1
PHOENIX AMA	EAST SALT RIVER	D-03-09 32ABA	330757111263401		33° 7' 57.9"	111° 26' 35.3"	1566	11/9/2000	378.3	V			12/7/2020	337.3	V			41.0
PHOENIX AMA	EAST SALT RIVER	D-03-08 35BAA	330757111300001	615302	33° 7' 55.7"	111° 30' 0.3"	1518	11/13/2000	336.7	V	K		12/7/2020	258	V	K		78.7
PHOENIX AMA	EAST SALT RIVER	D-03-09 20DAA	330916111262001	610703	33° 9' 16.5"	111° 26' 20"	1595	11/9/2000	414.6	V			12/8/2020	369.9	V			44.7
PHOENIX AMA	EAST SALT RIVER	D-04-08 02CCC	330617111302201	610414	33° 6' 15.1"	111° 30' 24.1"	1532	11/6/2000	240.6	V			12/7/2020	237.7	V			2.9
PHOENIX AMA	EAST SALT RIVER	D-04-09 05AAB2	330704111262601	612176	33° 7' 5.3"	111° 26' 29"	1556	11/6/2000	345.1	V			12/7/2020	318.3	V			26.8
PHOENIX AMA	EAST SALT RIVER	D-02-07 25DDD3	331313113503001	612290	33° 13'12.5"	111° 35' 3.3"	1464	11/8/2000	314.8	V			12/7/2020	315.2	V			-0.4
PHOENIX AMA	EAST SALT RIVER	D-02-07 27DAD	331324111370001		33° 13'23.8"	111° 37' 0.5"	1427	11/8/2000	285.7	V			12/7/2020	282.9	V			2.8
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ2	331329111301202		33° 13'31.3"	111° 30' 10.5"	1569	11/7/2000	417.9	V			10/29/2020	378.4	V			39.5
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ3	331329111301203		33° 13'31.3"	111° 30' 10.5"	1569	11/7/2000	421	V			10/29/2020	383.8	V			37.2
PHOENIX AMA	EAST SALT RIVER	D-03-08 13AAA2	331033111282901	603383	33° 10' 33.4"	111° 28' 27.2"	1568	11/9/2000	402.4	V			12/8/2020	356.2	V			46.2
PHOENIX AMA	EAST SALT RIVER	D-03-08 08DDD	331037111324201	615279	33° 10' 36.7"	111° 32' 42.7"	1491	11/20/2000	343.5	V			12/7/2020	309	V			34.5
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ1	331042111254301		33° 10' 40.5"	111° 25' 43.1"	1628	11/13/2000	450.8	V			12/10/2020	411.9	V			38.9
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ2	331042111254302		33° 10' 40.5"	111° 25' 43.1"	1628	11/13/2000	454.6	V			12/10/2020	410.3	V			44.3

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	EAST SALT RIVER	D-02-07 31CDA2	331224111403701	608807	33° 12' 23.8"	111° 40' 37.2"	1442	12/11/2000	399.2	V			12/8/2020	339.6	V			59.6
PHOENIX AMA	EAST SALT RIVER	D-02-09 36DBD	331236111223901	615235	33° 12' 40.5"	111° 22' 33.5"	1752	11/21/2000	569.4	V			12/10/2020	529.8	V			39.6
PHOENIX AMA	EAST SALT RIVER	D-02-12 07ABA	331640111090801	624605	33° 16' 39.4"	111° 9' 6.3"	2460	11/8/2000	9.5	V			1/8/2021	10.6	S			-1.1
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ1	331703111303401		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/28/2000	430.4	V			12/21/2020	405.1	V			25.3
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ2	331703111303402		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/28/2000	439	V			12/21/2020	363.6	V			75.4
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ3	331703111303403		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/28/2000	409.7	V			12/21/2020	382.2	V			27.5
PHOENIX AMA	EAST SALT RIVER	D-02-10 21ADB	331440111924201	615236	33° 14' 39.6"	111° 19' 22.9"	1903	11/6/2000	554.3	V			1/8/2021	572.8	V			-18.5
PHOENIX AMA	EAST SALT RIVER	D-02-10 16BCB	331532111200901	610435	33° 15' 33"	111° 20' 6.6"	1884	11/6/2000	344.7	V			12/10/2020	378.6	V			-33.9
PHOENIX AMA	EAST SALT RIVER	D-02-08 E07DDD	331550111334801	619742	33° 15' 49.5"	111° 33' 46.7"	1480	11/8/2000	309	V			12/8/2020	224	S			85.0
PHOENIX AMA	EAST SALT RIVER	D-01-08 21ADB PZ1	331953111315001		33° 19' 53.1"	111° 31' 51.4"	1565	11/7/2000	447.4	V			11/9/2020	336.4	V			111.0
PHOENIX AMA	EAST SALT RIVER	D-01-08 21ADB PZ2	331953111315002		33° 19' 53.1"	111° 31' 51.4"	1565	11/7/2000	330.9	V			11/9/2020	336.8	V			-5.9
PHOENIX AMA	EAST SALT RIVER	D-01-10 35DBA	331803111172901	628140	33° 18' 3.1"	111° 17' 27.1"	2040	11/8/2000	54.7	V			1/8/2021	49.1	V			5.6
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ1	331848111334901	615222	33° 18' 51.1"	111° 33' 49.1"	1489	11/13/2000	349.5	V			10/29/2020	301.8	V			47.7
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ2	331848111334902	615222	33° 18' 51.1"	111° 33' 49.1"	1489	11/13/2000	325	V			10/29/2020	301.7	V			23.3
PHOENIX AMA	EAST SALT RIVER	D-01-04 18DBB1	332032111591201		33° 20' 28.2"	111° 59' 12.3"	1293	12/6/2000	232.1	V			12/11/2020	206.6	V			25.5
PHOENIX AMA	EAST SALT RIVER	D-01-05 14AAB	332058111483901	634676	33° 20' 57.4"	111° 48' 38.3"	1224	12/11/2000	163.6	V			12/7/2020	134.5	V			29.1
PHOENIX AMA	EAST SALT RIVER	A-01-08 32BBA	332332111333401	800843	33° 23' 32.8"	111° 33' 35.4"	1625	11/8/2000	586.5	V			1/29/2021	605.8	V			-19.3
PHOENIX AMA	EAST SALT RIVER	A-01-05 26DDD	332337111481801	607699	33° 23' 36.38"	111° 48' 18.29"	1224	11/21/2000	137.4	V			11/10/2020	105	V			32.4
PHOENIX AMA	EAST SALT RIVER	A-01-05 30BDD	332359111525701	607741	33° 24' 1.5"	111° 53' 3"	1199	11/22/2000	111.4	V			11/10/2020	88.4	V			23.0
PHOENIX AMA	EAST SALT RIVER	D-01-04 03BBB2	332240111564201	617852	33° 22' 40.3"	111° 56' 38.4"	1182	11/22/2000	106.6	V			11/10/2020	86	V			20.6
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ1	332308111345001		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/7/2000	529.9	V			10/27/2020	559.2	V			-29.3
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ2	332308111345002		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/7/2000	524.6	V			10/27/2020	564.15	V			-39.6
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ3	332308111345003		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/7/2000	508.5	V			10/27/2020	520	V			-11.5
PHOENIX AMA	EAST SALT RIVER	A-01-06 21BCC	332458111451001	617831	33° 25' 1.57"	111° 45' 8.46"	1285	11/22/2000	231.2	V			11/10/2020	175.2	V			56.0
PHOENIX AMA	EAST SALT RIVER	A-01-06 26AAA	332429111420401	621102	33° 24' 26.4"	111° 42' 5.3"	1358	12/14/2000	333.7	V			12/8/2020	263.2	V			70.5
PHOENIX AMA	EAST SALT RIVER	A-01-08 10DCC1	332614111311101	614002	33° 26' 14.4"	111° 31' 5.9"	1861	11/6/2000	89.5	V			12/10/2020	93.4	V			-3.9
PHOENIX AMA	EAST SALT RIVER	A-01-05 16ABA	332614111503901	607702	33° 26' 11.76"	111° 50' 42.69"	1245	11/21/2000	175.5	V			11/9/2020	143.7	V			31.8
PHOENIX AMA	EAST SALT RIVER	A-01-07 18ACC	332547111402701	500714	33° 25' 48.8"	111° 40' 28.7"	1479	12/7/2000	438.5	V			12/8/2020	376.2	V			62.3
PHOENIX AMA	EAST SALT RIVER	A-01-06 03ADA	332746111430601	629610	33° 27' 45.4"	111° 43' 5.4"	1400	12/7/2000	340.7	V			12/9/2020	286.5	V			54.2
PHOENIX AMA	EAST SALT RIVER	A-02-04 11DCC2	333127111544601	617843	33° 31' 26.8"	111° 54' 52.3"	1275	11/22/2000	392	V			11/13/2020	291	V			101.0
PHOENIX AMA	EAST SALT RIVER	A-03-05 28ADA	333442111502101	629249	33° 34' 36.9"	111° 50' 20"	1421	11/14/2000	318.6	V			12/9/2020	279.6	V			39.0
PHOENIX AMA	EAST SALT RIVER	A-03-04 21CCB2	333507111573301	626625	33° 35' 4.4"	111° 57' 33.7"	1363	11/13/2000	414.4	V			12/8/2020	335.1	V			79.3
PHOENIX AMA	EAST SALT RIVER	A-03-04 33ACB	333340111570101	626627	33° 33' 44.9"	111° 57' 0.5"	1328	11/13/2000	417.9	V			12/8/2020	319.7	V			98.2
PHOENIX AMA	EAST SALT RIVER	A-03-05 25CAB	333427111475701	600650	33° 34' 26.1"	111° 47' 53.8"	1552	11/14/2000	472.2	V			12/14/2020	405.9	V			66.3
PHOENIX AMA	EAST SALT RIVER	A-03-05 21BBA	333546111511201	800809	33° 35' 45.1"	111° 51' 9.4"	1432	11/14/2000	300.4	V			12/14/2020	258.8	V			41.6
PHOENIX AMA	EAST SALT RIVER	A-04-03 13BAA	334154112001401	503959	33° 41' 53.7"	112° 0' 17.1"	1617	11/13/2000	480.7	V			12/16/2020	483	V			-2.3
PHOENIX AMA	EAST SALT RIVER	A-05-04 33DAA	334359111563401	600117	33° 43' 58.54"	111° 56' 34.51"	1976.25	2/12/2001	838.3	V			2/18/2021	842.02	VT		TAKEN AT 14:56 WITH BLUE 1500	-3.7
PHOENIX AMA	EAST SALT RIVER	A-01-07 33CC	332247111385601	505767	33° 22' 46.2"	111° 38' 56.1"	1420	12/15/2000	410.1	V			12/8/2020	335.9	V			74.2
PHOENIX AMA	EAST SALT RIVER	D-01-06 11CDD2	332102111424501	620513	33° 21' 2"	111° 42' 44.5"	1295	12/14/2000	244.6	V			12/9/2020	195	V			49.6
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 30BAD	333447111402901		33° 34' 46.9"	111° 40' 28.7"	1365	11/14/2000	11.8	V			12/7/2020	14.7	S			-2.9
PHOENIX AMA	FOUNTAIN HILLS	A-03-06 23DCB2	333505111422101	604787	33° 35' 7.9"	111° 42' 27.3"	1516	11/14/2000	179.5	V			12/16/2020	190.5	V			-11.0
PHOENIX AMA	FOUNTAIN HILLS	A-02-07 02BAA	333309111362501	600880	33° 33' 10"	111° 36' 24.6"	1365	12/7/2000	61.7	V			12/9/2020	63.3	S			-1.6
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 06CDA	333746111403101		33° 37' 44.7"	111° 40' 33.4"	1415	11/13/2000	26.7	V			12/7/2020	31.5	S			-4.8
PHOENIX AMA	FOUNTAIN HILLS	A-05-06 32CCC	334341111461201	808587	33° 43' 37.4"	111° 46' 7.1"	2342	11/14/2000	527.7	V			12/15/2020	647.7	V			-120.0
PHOENIX AMA	HASSAYAMPA	C-02-05 16DAA	331518112454801	805914	33° 15' 17.4"	112° 45' 49.6"	762	11/20/2000	21.8	V			11/30/2020	58.5	V			-36.7
PHOENIX AMA	HASSAYAMPA	C-01-06 19ABB	332000112543801	629644	33° 20' 0.5"	112° 54' 35.9"	890	11/20/2000	187.4	V			11/30/2020	233.2	V			-45.8
PHOENIX AMA	HASSAYAMPA	C-01-07 14BBB	332053112570801	604464	33° 20' 53.2"	112° 57' 9.8"	938	11/20/2000	239	V			11/30/2020	270.7	V			-31.7
PHOENIX AMA	HASSAYAMPA	C-01-05 03BAA1	332236112452001		33° 22' 38.3"	112° 45' 19.9"	928	11/20/2000	92	V			11/30/2020	97.7	V			-5.7
PHOENIX AMA	HASSAYAMPA	B-01-05 27BBC	332416112454301	639586	33° 24' 16"	112° 45' 44.2"	978	11/21/2000	70.4	V			12/2/2020	77	V			-6.6
PHOENIX AMA	HASSAYAMPA	B-01-06 23DCD	332427112501301	808647	33° 24' 26.1"	112° 50' 14.8"	987	11/21/2000	156.9	V			12/1/2020	150	V			6.9
PHOENIX AMA	HASSAYAMPA	B-01-05 08DAB	332634112470001	800303	33° 26' 33.6"	112° 46' 59.3"	1055	11/21/2000	93.1	V			11/30/2020	98.1	V			-5.0
PHOENIX AMA	HASSAYAMPA	B-01-06 01ABB	332752112492301	803547	33° 27' 52"	112° 49' 24.9"	1083	11/20/2000	114.5	V			12/1/2020	119.2	V			-4.7
PHOENIX AMA	HASSAYAMPA	B-02-06 33CAA	332817112523401	617446	33° 28' 17.9"	112° 52' 32.7"	1075	11/21/2000	204.2	V			12/1/2020	75	V			129.2
PHOENIX AMA	HASSAYAMPA	B-01-06 03BBC	332740112515801	800798	33° 27' 44.3"	112° 51' 54.4"	1069	11/20/2000	102.1	V			12/1/2020	95.3	V			6.8
PHOENIX AMA	HASSAYAMPA	B-02-05 29DAC	332858112470701	804481	33° 28' 58.3"	112° 47' 6.6"	1125	11/21/2000	143.8	V			12/1/2020	146	V			-2.2
PHOENIX AMA	HASSAYAMPA	B-02-05 25BAB	332924112433301	588466	33° 29' 33.4"	112° 43' 25.3"	1149	11/14/2000	150.4	V			12/9/2020	152.4	V			-2.0
PHOENIX AMA	HASSAYAMPA	B-02-07 27AAB	332934112572801	600199	33° 29' 34.5"	112° 57' 27.7"	1146	11/21/2000	299.2	V			12/1/2020	163.9	V			135.3
PHOENIX AMA	HASSAYAMPA	B-02-07 12CBB	333146112560801	602455	33° 31' 45.6"	112° 56' 8.8"	1194	11/20/2000	329.4	V			12/1/2020	184.1	V			145.3
PHOENIX AMA	HASSAYAMPA	B-02-05 06DDD	333216112475201	524267	33° 32' 16.4"	112° 47' 57"	1232	11/21/2000	286.2	V			12/2/2020	250.1	V			36.1
PHOENIX AMA	HASSAYAMPA	B-03-05 26ADD	333430112435001	638915	33° 34' 30.8"	112° 43' 46.3"	1237	11/14/2000	87.2	V			12/9/2020	76.6	V			10.6
PHOENIX AMA	HASSAYAMPA	B-03-06 30BAD	333442112544001	636337	33° 34' 42.6"	112° 54' 41.1"	1322	11/20/2000	445.8	V			12/2/2020	360.2	V			85.6
PHOENIX AMA	HASSAYAMPA	B-02-08 01AAC	333252113013801	501700	33° 32' 55.5"	113° 1' 36.2"	1380	11/21/2000	484.7	V			12/1/2020	365.4	V			119.3
PHOENIX AMA	HASSAYAMPA	B-03-04 07BBB	333724112423601	517028	33° 37' 23.6"	112° 42' 36.9"	1402	11/14/2000	193.6	V			12/9/2020	183.9	V			9.7
PHOENIX AMA	HASSAYAMPA	B-04-04 19BAC	334052112421901	800517	33° 40' 49.3"	112° 42' 21.4"	1415	11/15/2000	174.6	V			12/9/2020	170.8	V			3.8
PHOENIX AMA	HASSAYAMPA	B-04-05 22AAA	334056112445001	516565	33° 40' 55.9"	112° 44' 47.7"	1530	11/15/2000	288.3	V			12/9/2020	282.7	V			5.6
PHOENIX AMA	HASSAYAMPA	B-04-04 13CBD	334112112371601		33° 41' 10.4"	112° 37' 15"	1570	11/14/2000	326.1	V			12/10/2020	336.4	V			-10.3
PHOENIX AMA	HASSAYAMPA	B-05-04 24CCC	334513112380501	801046	33° 45' 12.4"	112° 38' 6"	1718	11/14/2000	412.5	V			12/10/2020	438.2	V			-25.7
PHOENIX AMA	HASSAYAMPA	B-05-04 20CCC	334514112422001	504783	33° 45' 14.4"	112° 42' 21.7"	1700	11/14/2000	385.9	V			12/10/2020	413	V			-27.1
PHOENIX AMA	HASSAYAMPA	B-05-05 13AAA	334654112433001	510003	33° 46' 54.4"	112° 43' 31.8"	1795	11/14/2000	484.9	V			12/10/2020	507.9	V			-23.0
PHOENIX AMA	HASSAYAMPA	B-04-06 04DBA	334259112522001	505244	33° 43' 1.2"	112° 52' 20.8"	1700	11/15/2000	467.9	V			12/10/2020	462.9	V			5.0
PHOENIX AMA	HASSAYAMPA	B-04-05 01CBA	334306112433801	516563	33° 43' 7.01"	112° 43' 36.67"	1600.64	2/13/2001	329.5	V			2/11/2021	337.05	VT		RED 500 12:30	-7.6
PHOENIX AMA	HASSAYAMPA	B-04-05 05ABB	334325112472001	802175	33° 43' 25.5"	112° 47' 19.8"	1617	11/15/2000	377.2	V			12/9/2020	373.2	V			4.0
PHOENIX AMA	HASSAYAMPA	B-05-06 10CDD	334703112521901	629322	33° 47' 1.9"	112° 52' 19"	1916	11/15/2000	658.8	V			12/10/2020	654.3	V			4.5
PHOENIX AMA	HASSAYAMPA	B-06-08 20DC	335124113063701	614493	33° 50' 54.1"	113° 6' 37.3"	2199	11/30/2000	262.1	V			10/26/2020	258.3	V			3.8
PHOENIX AMA	LAKE PLEASANT	A-05-02 10ABA	334750112082001	614028	33° 47' 49.6"	112° 8' 24.1"	1655	11/9/2000	284.8	V			12/1/2020	276	V			8.8
PHOENIX AMA	LAKE PLEASANT	A-05-01 10AAB	334750112142901	614032	33° 47' 45.6"	112° 14' 25.5"	1570	3/9/2001	214.7	V			12/1/2020	204.9	V			9.8
PHOENIX AMA	LAKE PLEASANT	A-07-02 24BDA	335623112063601	565329	33° 56' 23.1"	112° 6' 37.3"	2160	3/12/2001	41.5	V			12/1/2020	72.4	S			-30.9
PHOENIX AMA	RAINBOW VALLEY	D-04-01 28CDD	330239112155201	600522	33° 2' 37.6"	112° 15' 45.6"	1338	3/28/2001	429	V			12/8/2020	442.5	V			-13.5
PHOENIX AMA	RAINBOW VALLEY	C-04-01 32CDD	330147112230201	513868	33° 1' 47"	112° 23' 2.2"	1428	11/16/2000	568.7	V			12/8/2020	579.7	V			-11.0
PHOENIX AMA	RAINBOW VALLEY	D-04-01 14CDD	330423112134401	804031	33° 4' 22.7"	112° 13' 44.3"	1288	11/16/2000	381.5	V			12/8/2020	394.8	V			-13.3
PHOENIX AMA	RAINBOW VALLEY	C-04-01 23CDB	330388112200201	639910	33° 3' 37.7"	112° 20' 1.8"	1345	11/16/2000	489.7	V			12/8/2020	497.6	V			-7.9
PHOENIX AMA	RAINBOW VALLEY	C-03-01 19DCC	330846112235501	629000	33° 8' 43"	112° 24' 0.9"	1225	3/13/2001	400.7	V			12/7/2020	405.4	V			-4.7
PHOENIX AMA	RAINBOW VALLEY	D-03-01 19AAA	330934112171801	611915	33° 9' 34.6"	112° 17' 17.7"	1293	11/16/2000	442.9	V			12/7/2020	452	V			-9.1
PHOENIX AMA	RAINBOW VALLEY	D-04-01 10DCC	330515112144101		33° 5' 14.7"	112° 14' 41.6"	1275	11/21/2000	402	V			12/8/2020	416.9	V			-14.9
PHOENIX AMA	RAINBOW VALLEY	C-03-01 07ACC	331057112235801		33° 10' 54"	112° 24' 0.6"	1153	11/15/2000	336.8	V			12/7/2020	355.7	V			-18.9
PHOENIX AMA	RAINBOW VALLEY	D-03-01 07BBB2	331114112181701	615271	33° 11' 15.2"	112° 18' 15.6"	1272.3	11/16/2000	429.6	V			12/7/2020	438.3	V			-8.7
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33CDD	331214112215501	625645	33° 12' 18"	112° 21' 57.7"	1142	11/27/2000	285.4	V			12/7/2020	261.7	V			23.7
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33AAA	331300112213201	605576	33° 13' 3.2"	112° 21' 26.6"	1169	11/16/2000	363.5	V			12/7/2020	378.1	V			-14.6
PHOENIX AMA	RAINBOW VALLEY	C-02-02 27CCC	331307112273001	803879	33° 13' 4.8"	112° 27' 35.7"	1135	11/8/2000	393.5	V			12/4/2020	439.3	V			-45.8
PHOENIX AMA	RAINBOW VALLEY	C-02-02 25CCC	331311112252901	607451	33° 13' 5.09"	112° 25' 32.5"	1078	11/8/2000	337.3	V			12/3/2020	279	V			58.3
PHOENIX AMA	RAINBOW VALLEY	C-02-02 05CDC	331637112291301	800972	33° 16' 34"	112° 29' 24.89"	990	11/8/2000	238.9	V			12/2/2020	367.2	V			-128.3
PHOENIX AMA	RAINBOW VALLEY	C-02-01 20BAD	331435112230201		33° 14' 39.2"	112° 22' 59.7"	1130	11/8/2000	344.9	V			12/2/2020	361.7	V			-16.8
PHOENIX AMA	RAINBOW VALLEY	C-02-02 09CCC	331543112283801	624775	33° 15' 41.6"	112° 28' 39"	1023	11/8/2000	304.3	V			12/2/2020	343	V			-38.7
PHOENIX AMA	WEST SALT RIVER	C-01-03 14DAD	332016112311601	618942	33° 20' 16"	112° 31' 15.9"	888	11/8/2000	47.3	V			12/2/2020	49.8	V			-2.5
PHOENIX AMA	WEST SALT RIVER	C-01-04 26ABB	331906112380001	628186	33° 19' 4.9"	112° 37' 59.8"	823	11/8/2000	25	V			12/2/2020	27	V			-2.0
PHOENIX AMA	WEST SALT RIVER	C-01-03 06BCB	332223112362201	619815	33° 22' 20.4"	112° 36' 25.6"	879	12/19/2000	37.9	V			12/7/2020	45.1	V			-7.2
PHOENIX AMA	WEST SALT RIVER	C-01-03 08CBD	332113112351301		33° 21' 8.73"	112° 35' 11.37"	839.66	11/8/2000	16.2	V			12/2/2020	17.7	S			-1.5
PHOENIX AMA	WEST SALT RIVER	B-01-03 34BBB1	332330112331901	607172	33° 23' 30.5"	112° 33' 19.6"	917	11/6/2000	65.1	V			12/8/2020	70.2	V			-5.1
PHOENIX AMA	WEST SALT RIVER	B-01-02 28CBD	332348112283201	619794	33° 23' 49.8"	112° 28' 32"	890	11/6/2000	25.3	V			12/7/2020	43.5	S			-18.2
PHOENIX AMA	WEST SALT RIVER	B-01-01 27DAB2	332356112203301	801734	33° 23' 55.9"	112° 20' 33.9"	930	11/6/2000	27.1	V			11/30/2020	36.8	V			-9.7
PHOENIX AMA	WEST SALT RIVER	C-01-04 03ABB	332238112385901		33° 22' 38.79"	112° 38' 59.7"	900	11/8/2000	56.3	V			12/2/2020	61.3	V			-5.0
PHOENIX AMA	WEST SALT RIVER	B-01-04 31BCD	332302112423001	607190	33° 23' 5.3"	112° 42' 25"	928	11/8/2000	79.2	V			12/8/2020	76.8	V			2.4
PHOENIX AMA	WEST SALT RIVER	B-01-03 21DBB	332452112335001	605474	33° 24' 49.59"	112° 33' 50.55"	993.68	11/8/2000	137.2	V			10/16/2020	157.14	VT		TAKEN WITH BLUE 500 AT 13:16	-19.9
PHOENIX AMA	WEST SALT RIVER	A-01-03 21ACC	332455112031801	626523	33° 24' 56.03"	112° 3' 17.91"	1081	11/8/2000	65.7	V			12/2/2020	97.2	S			-31.5
PHOENIX AMA	WEST SALT RIVER	B-01-02 23AAB1	332515112254401	605111	33° 25' 15.18"	112° 25' 45.06"	943.51	11/6/2000	63.8	V			12/1/2020	85.1	V			-21.3
PHOENIX AMA	WEST SALT RIVER	B-01-04 27ABB	332416112390101	604631	33° 24' 17"	112° 39' 1.5"	988	11/8/2000	121.7	V			12/1/2020	133.9	V			-12.2
PHOENIX AMA	WEST SALT RIVER	A-01-03 28AAB3	332422112025001	626567	33° 24' 15.09"	112° 3' 9.89"	1088	11/22/2000	73	V			11/9/2020	96.5	V			-23.5
PHOENIX AMA	WEST SALT RIVER	B-01-03 19CBB	332445112362501	607153	33° 24' 46.2"	112° 36' 25.7"	995	11/8/2000	129.7	V			12/8/2020	136.1	V			-6.4
PHOENIX AMA	WEST SALT RIVER	A-01-04 18DAD	332532111584001	700244	33° 25' 32.12"	111° 58' 39.99"	1130.44	12/6/2000	37.15	S			12/7/2020	34.3	V			2.9
PHOENIX AMA	WEST SALT RIVER	A-01-03 18BBC	332600112054801	607207	33° 25' 59.4"	112° 5' 51.7"	1058	12/14/2000	75.4	V			12/8/2020	109.5	V			-34.1
PHOENIX AMA	WEST SALT RIVER	B-01-02 16BBB	332607112284001	625579	33° 26' 7.58"	112° 28' 40.22"	988.37	11/8/2000	128.4	V			12/1/2020	146.5	V			-18.1
PHOENIX AMA	WEST SALT RIVER	A-02-01 31DAA	332816112172301	619314	33° 28' 18.15"	112° 17' 22.15"	1018	12/19/2000	120.6	V			11/12/2020	125	V			-4.4
PHOENIX AMA	WEST SALT RIVER	B-01-01 10AAA2	332658112202701	607158	33° 26' 58.8"	112° 20' 26.15"	982.22	11/6/2000	74.5	V			12/8/2020	92.3	V			-17.8
PHOENIX AMA	WEST SALT RIVER	A-01-02 09AAB2	332702112091601	607201	33° 27' 4.13"	112° 9' 14.72"	1060.3	11/9/2000	112.2	V			12/8/2020	145.9	V			-33.7
PHOENIX AMA	WEST SALT RIVER	A-01-01 12BBB	332703112131001	607206	33° 27' 5.3"	112° 13' 12.9"	1033.61	11/9/2000	95.6	V			12/8/2020	126.2	V			-30.6
PHOENIX AMA	WEST SALT RIVER	B-01-02 05CBB	332725112294301	804205	33° 27' 26.3"	112° 29' 41.2"	1065	11/6/2000	211.6	V			12/1/2020	214.8	V			-3.2
PHOENIX AMA	WEST SALT RIVER	A-02-03 35BBC	332840112014301	607726	33° 28' 37.57"	112° 1' 44.67"	1132	11/22/2000	74.8	V			11/13/2020	88.7	V			-13.9
PHOENIX AMA	WEST SALT RIVER	B-02-02 27CCC	332846112273601	613016	33° 28' 45.4"	112° 27' 38.1"	1084	12/18/2000	252.8	V			1/28/2021	254.7	V			-1.9
PHOENIX AMA	WEST SALT RIVER	A-02-02 26BDC	332919112073901	608377	33° 29' 19.45"	112° 7' 39.04"	1111.17	11/21/2000	134	V			11/12/2020	167.1	V			-33.1
PHOENIX AMA	WEST SALT RIVER	A-02-03 07CAA	333149112052901	702874	33° 31' 52"	112° 5' 28.2"	1160.4	12/14/2000	89.6	V			11/30/2020	97.3	V			-7.7

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	WEST SALT RIVER	A-02-02 08BBC2	333208112110301	604111	33° 32'9.89"	112° 11'2.61"	1149.76	3/9/2001	203.9	V			11/30/2020	206.8	V			-2.9
PHOENIX AMA	WEST SALT RIVER	A-02-03 14DCD	333036112010401	643681	33° 30'36.2"	112° 1'3.6"	1196	12/14/2000	54.1	V			12/9/2020	82.7	S			-28.6
PHOENIX AMA	WEST SALT RIVER	A-02-02 18DDD	333036112111001	607674	33° 30'36.1"	112° 11'9.22"	1120.55	11/21/2000	174.9	V			11/12/2020	196.8	V			-21.9
PHOENIX AMA	WEST SALT RIVER	B-05-03 22ADD	333038112330101	087570	33° 45'42.4"	112° 33'6.59"	1652	11/9/2000	423.2	V			12/8/2020	424.1	V			-0.9
PHOENIX AMA	WEST SALT RIVER	A-02-02 14CBC2	333048112075901	608376	33° 30'47.52"	112° 7'59.95"	1142.32	11/21/2000	138.1	V			11/12/2020	150.7	V			-12.6
PHOENIX AMA	WEST SALT RIVER	B-02-01 14CBB	333052112202401		33° 30' 52.5"	112° 20' 24.1"	1057	11/9/2000	198.8	V			12/1/2020	197.9	V			0.9
PHOENIX AMA	WEST SALT RIVER	A-02-01 08DDD	333126112162201	608411	33° 31'23.3"	112° 16' 19.5"	1056	11/21/2000	136.1	V			11/12/2020	126.1	V			10.0
PHOENIX AMA	WEST SALT RIVER	A-03-02 24CCB	333505112065401	624791	33° 35' 2.29"	112° 6' 55.9"	1257	12/14/2000	280.8	V			11/30/2020	273.4	V			7.4
PHOENIX AMA	WEST SALT RIVER	B-03-01 34DBB1	333330112205801		33° 33' 29.89"	112° 20' 57.4"	1100	11/6/2000	282.8	V			12/7/2020	208.4	V			74.4
PHOENIX AMA	WEST SALT RIVER	A-03-01 35ABB	333358112134201	607737	33° 33' 59.2"	112° 13' 41.7"	1128	11/21/2000	226	V			11/13/2020	211.4	V			14.6
PHOENIX AMA	WEST SALT RIVER	B-03-02 21ABA	333541112300101	612994	33° 35' 41.7"	112° 30' 1.5"	1332	11/6/2000	407.8	V			12/9/2020	393.3	V			14.5
PHOENIX AMA	WEST SALT RIVER	A-03-02 22BAA	333546112083201	617992	33° 35'46"	112° 8' 31.4"	1249	12/14/2000	301	V			11/30/2020	288.9	V			12.1
PHOENIX AMA	WEST SALT RIVER	B-03-01 12BBB2	333723112192501	608647	33° 37' 23"	112° 19' 24.6"	1151	11/8/2000	385.5	V			1/5/2021	358.3	V			27.2
PHOENIX AMA	WEST SALT RIVER	A-04-01 22AAA	334052112141401	804522	33° 40' 52.7"	112° 14' 14.39"	1280.59	11/9/2000	449.8	V			12/1/2020	432	V			17.8
PHOENIX AMA	WEST SALT RIVER	B-04-02 16AAD	334136112273901	614444	33° 41' 35.1"	112° 27' 38"	1413	11/9/2000	327.1	V			12/15/2020	332.1	V			-5.0
PHOENIX AMA	WEST SALT RIVER	B-04-03 14ABA	334147112320301	505327	33° 41' 47.8"	112° 32' 3.1"	1501	11/9/2000	309.4	V			12/15/2020	311.6	V			-2.2
PHOENIX AMA	WEST SALT RIVER	A-04-01 08DBD	334205112163801	629296	33° 42' 3.9"	112° 16' 40.1"	1308	11/13/2000	391.1	V			12/15/2020	264.8	V			126.3
PHOENIX AMA	WEST SALT RIVER	B-04-03 19CDD	334028112361401	621513	33° 40' 17.5"	112° 36' 1.5"	1620	11/9/2000	380	V			12/7/2020	388.1	V			-8.1
PHOENIX AMA	WEST SALT RIVER	B-05-03 15AAA	334654112330401	640010	33° 46' 54.4"	112° 33' 2.79"	1711	11/9/2000	481.7	V			12/8/2020	480.9	V			0.8
PHOENIX AMA	WEST SALT RIVER	B-04-03 04BDB	334314112343701	804655	33° 43' 15.7"	112° 34' 35.3"	1595	11/15/2000	358.4	V			12/8/2020	364.2	V			-5.8
PHOENIX AMA	WEST SALT RIVER	B-05-02 35BAA	334418112261701	617007	33° 44' 18.8"	112° 26' 16.9"	1491	11/8/2000	393.5	V			12/9/2020	223.1	V			170.4
PHOENIX AMA	WEST SALT RIVER	B-05-02 08CCB	334708112295301	060001	33° 47' 6.2"	112° 29' 52.1"	1702	11/15/2000	523.9	V			12/21/2020	486.8	V			37.1
PHOENIX AMA	WEST SALT RIVER	A-03-01 02CBB	333746112141201	565552	33° 37' 47"	112° 14' 11"	1190	11/8/2000	411.8	V			12/16/2020	320.3	V			91.5
PINAL AMA	ELOY	D-10-06 11DDD2	323354111422501	620687	32° 33' 53.5"	111° 42' 24"	1588	1/26/2001	354	V			11/16/2020	344.7	V			9.3
PINAL AMA	ELOY	D-10-09 10AAD1	323414111235001	620611	32° 34' 13.6"	111° 23' 51"	1800	11/27/2000	274.4	V			1/25/2021	245.6	V			28.8
PINAL AMA	ELOY	D-10-09 21AAD	323233111245601	622057	32° 32' 33.4"	111° 24' 52.8"	1797	11/27/2000	239.5	V			1/27/2021	193.9	V			45.6
PINAL AMA	ELOY	D-10-09 18AAC2	323321111271001	622069	32° 33'21.4"	111° 27' 8.2"	1765	11/27/2000	309	V			1/27/2021	275.9	V			33.1
PINAL AMA	ELOY	D-09-07 25DDA2	323611111340901	618267	32° 36' 16.79"	111° 34' 7.19"	1652	12/5/2000	409	V			11/16/2020	465.2	V			-56.2
PINAL AMA	ELOY	D-09-07 25CDD	323611111343401	618276	32° 36' 10.19"	111° 34' 36.4"	1646	3/20/2001	329.38	V			11/16/2020	223.3	V			106.1
PINAL AMA	ELOY	D-09-08 31DAA	323541111330501	615607	32° 35' 43"	111° 33' 4.69"	1666	12/5/2000	399.9	V			11/13/2020	374.6	V			25.3
PINAL AMA	ELOY	D-09-08 35ADD2	323545111285802	615616	32° 35' 47.9"	111° 28' 58.5"	1713	12/5/2000	388.8	V			11/13/2020	373.9	V			14.9
PINAL AMA	ELOY	D-09-08 20ADD2	323730111320001		32° 37' 31.4"	111° 32' 1"	1666	2/2/2001	397.1	V			11/13/2020	481.5	V			-84.4
PINAL AMA	ELOY	D-09-08 20ADD1	323731111320201		32° 37' 30.9"	111° 32' 0"	1666	12/6/2000	310.5	V			11/13/2020	296.3	V			14.2
PINAL AMA	ELOY	D-08-06 35DDD2	324035111412301		32° 40' 32"	111° 41' 18.7"	1542	12/6/2000	161.5	V			11/16/2020	112	S			49.5
PINAL AMA	ELOY	D-09-08 06DDD	323943111330801	604061	32° 39' 42.29"	111° 33' 3"	1630	12/7/2000	294.7	V			11/16/2020	271.3	V			23.4
PINAL AMA	ELOY	D-08-08 29BCC	324154111325601	618528	32° 41' 52.1"	111° 32' 54.9"	1607	12/7/2000	360.1	V			11/20/2020	364	V			-3.9
PINAL AMA	ELOY	D-08-08 29BCD	324155111325501	618535	32° 41' 52"	111° 32' 52.7"	1607	12/7/2000	265.3	V			11/20/2020	238.5	V			26.8
PINAL AMA	ELOY	D-08-06 31AAD	324102111452801	615508	32° 40' 58.29"	111° 45' 27.2"	1509	12/5/2000	216.2	V			11/16/2020	216.8	V			-0.6
PINAL AMA	ELOY	D-08-08 18CDD1	324312111333001	606865	32° 43' 10.9"	111° 33' 31.3"	1583	12/6/2000	265.7	V			11/9/2020	231.8	V			33.9
PINAL AMA	ELOY	D-08-08 18CDD2	324313111333601	626503	32° 43' 11.2"	111° 33' 32.8"	1583	12/6/2000	298.6	V			11/9/2020	300.6	V			-2.0
PINAL AMA	ELOY	D-08-08 14DDD	324314111285501	622438	32° 43' 12.1"	111° 28' 55.29"	1611	2/2/2001	299.5	V			11/9/2020	285.4	V			14.1
PINAL AMA	ELOY	D-08-07 09ADD1	324430111371501		32° 44' 30.9"	111° 37' 12.7"	1538	12/6/2000	232.1	V			11/20/2020	206.9	S			25.2
PINAL AMA	ELOY	D-08-09 07ADD	324432111265201	622278	32° 44' 28.9"	111° 26' 49.1"	1635	12/7/2000	385.5	V			11/9/2020	447.7	V			-62.2
PINAL AMA	ELOY	D-08-07 14DDA	324320111350801		32° 43' 23"	111° 35' 5.7"	1565	12/6/2000	312.7	V			11/20/2020	346.1	V			-33.4
PINAL AMA	ELOY	D-08-08 10CDD	324405111302501	618245	32° 44' 4.8"	111° 30' 26.6"	1587	12/7/2000	277.7	V			11/17/2020	282.2	V			-4.5
PINAL AMA	ELOY	D-08-08 07DDD1	324405111330101		32° 44' 3.1"	111° 33' 2.2"	1575	12/6/2000	234.2	V			11/9/2020	215	S			19.2
PINAL AMA	ELOY	D-07-08 33DDD	324548111305601		32° 45' 48"	111° 30' 56"	1562	12/7/2000	237.6	V			11/10/2020	218.5	V			19.1
PINAL AMA	ELOY	D-07-07 34CDD2	324548111363901		32° 45' 48.8"	111° 36' 38.8"	1529	12/5/2000	239.3	V			11/10/2020	215.4	V			23.9
PINAL AMA	ELOY	D-07-07 31DDA	324558111391301	608916	32° 45' 57.6"	111° 39' 13.4"	1509	12/5/2000	398.4	V			11/10/2020	409.1	V			-10.7
PINAL AMA	ELOY	D-07-06 34BAD	324626111425001	604516	32° 46' 25.7"	111° 42' 49.09"	1470.28	2/23/2001	356.61	V			2/4/2021	434.95	VT		BLUE 500 11:45	-78.3
PINAL AMA	ELOY	D-08-08 01DDD	324458111275001	615519	32° 44' 56.5"	111° 27' 48.79"	1599	2/7/2001	306.9	V			11/9/2020	351.8	V			-44.9
PINAL AMA	ELOY	D-08-09 05ACD PZ1	324523111260701		32° 45' 19.4"	111° 26' 6.7"	1648	11/6/2000	381.3	V			11/10/2020	432.3	V			-51.0
PINAL AMA	ELOY	D-08-09 05ACD PZ2	324523111260702		32° 45' 19.4"	111° 26' 6.7"	1648	11/6/2000	383.7	V			11/10/2020	434.5	V			-50.8
PINAL AMA	ELOY	D-07-07 23ADD	324757111350501		32° 47' 57.7"	111° 35' 4.1"	1513	12/5/2000	207.7	V			11/12/2020	185.2	V			22.5
PINAL AMA	ELOY	D-07-07 30CCC	324640111401001		32° 46' 39.7"	111° 40' 10.3"	1496	12/5/2000	184	V			11/10/2020	168.5	V			15.5
PINAL AMA	ELOY	D-07-08 30CDD	324641111333101	604265	32° 46' 40.4"	111° 33' 30"	1536	12/5/2000	215.7	V			11/10/2020	198.8	V			16.9
PINAL AMA	ELOY	D-07-09 27BDA PZ1	324707111241901		32° 47' 12.1"	111° 24' 19.3"	1657	11/6/2000	358.1	V			11/10/2020	349.3	V			8.8
PINAL AMA	ELOY	D-07-09 27BDA PZ2	324707111241902		32° 47' 12.1"	111° 24' 19.3"	1657	11/6/2000	339.1	V			11/10/2020	349.4	V			-10.3
PINAL AMA	ELOY	D-07-09 08DDD PZ1	324917111254701	505967	32° 49' 16.9"	111° 25' 47.3"	1550	11/6/2000	199.8	V			11/9/2020	213.6	V			-13.8
PINAL AMA	ELOY	D-07-07 11CDD	324917111353601		32° 49' 17"	111° 35' 36.6"	1494	12/6/2000	181.6	V			11/12/2020	169.5	V			12.1
PINAL AMA	ELOY	D-07-08 09DDD	324920111305701	621868	32° 49' 17.7"	111° 30' 54.4"	1516	12/7/2000	149.1	V			11/10/2020	157.8	V			-8.7
PINAL AMA	ELOY	D-07-06 17DDD2	324825111442301		32° 48' 24"	111° 44' 21.8"	1441	12/5/2000	72.3	V			11/10/2020	124.6	V			-52.3
PINAL AMA	ELOY	D-07-08 17CDD	324827111323001	621861	32° 48' 25.6"	111° 32' 27.2"	1520	12/7/2000	181.7	V			11/10/2020	181.1	V			0.6
PINAL AMA	ELOY	D-07-05 01ADA	325047111462501	608209	32° 50' 47.7"	111° 46' 25.7"	1402	12/8/2000	39	V			11/10/2020	51.7	S			-12.7
PINAL AMA	ELOY	D-07-09 10BBB PZ1	325007111244801		32° 50' 6"	111° 24' 44.4"	1596	11/6/2000	304.1	V			11/9/2020	339.2	V			-35.1
PINAL AMA	ELOY	D-07-09 10BBB PZ2	325007111244802		32° 50' 6"	111° 24' 44.4"	1596	11/6/2000	260.6	V			11/9/2020	215.6	V			45.0
PINAL AMA	ELOY	D-07-08 05DCC	325011111322501	800830	32° 50' 10.5"	111° 32' 25"	1501	12/7/2000	148	V			11/10/2020	152.8	V			-4.8
PINAL AMA	ELOY	D-07-06 04DCC	325012111434801		32° 50' 11.2"	111° 43' 48.6"	1432	12/5/2000	73.9	V			11/10/2020	106.5	S			-32.6
PINAL AMA	ELOY	D-06-05 34BDD2	325130111490701		32° 51' 27.4"	111° 49' 3.5"	1369	12/8/2000	62.5	V			11/10/2020	79.3	S			-16.8
PINAL AMA	ELOY	D-06-07 34BBC	325142111370501	604669	32° 51' 42.3"	111° 37' 4.6"	1461	12/6/2000	200.6	V			11/10/2020	130.9	V			69.7
PINAL AMA	ELOY	D-06-08 31CDD	325102111332901	612214	32° 51' 1"	111° 33' 29"	1485	12/7/2000	137.7	V			12/11/2020	147.5	V			-9.8
PINAL AMA	ELOY	D-06-06 36DDA	325112111401701	605666	32° 51' 10.8"	111° 40' 13.8"	1443	12/11/2000	131.2	V			11/10/2020	133.1	V			-1.9
PINAL AMA	ELOY	D-06-09 29HBA4	325243111264001		32° 52' 42.1"	111° 26' 40"	1542	11/7/2000	277.3	V			11/9/2020	312.2	V			-34.9
PINAL AMA	ELOY	D-06-05 25BBB	325245111472601	801146	32° 52' 45"	111° 47' 25.9"	1375	12/8/2000	39.8	V			11/10/2020	63.1	S			-23.3
PINAL AMA	ELOY	D-06-06 22CDC	325201111430301	503113	32° 52' 52.3"	111° 43' 3.1"	1410	12/12/2000	202.2	V			11/13/2020	293.9	V		PUMP OFF ONE HOUR	-91.7
PINAL AMA	ELOY	D-06-08 18CDD2	325339111333001	605546	32° 53' 39.2"	111° 33' 30.5"	1451	12/7/2000	94.5	V			12/10/2020	102.7	V		BEE SUIT	-8.2
PINAL AMA	ELOY	D-06-06 23ADC	325316111412701	621197	32° 53' 13.1"	111° 41' 29.8"	1417	12/11/2000	233.9	V			11/10/2020	312	V			-78.1
PINAL AMA	ELOY	D-06-06 09DAD	325448111432201	602811	32° 54' 45.6"	111° 43' 19.3"	1394	12/11/2000	259.8	V	K		11/13/2020	237.9	V	K		21.9
PINAL AMA	ELOY	D-06-08 11ADA1	325503111284801	617559	32° 55' 2.8"	111° 28' 48.6"	1473	12/6/2000	68.3	V			11/12/2020	73.2	V			-4.9
PINAL AMA	ELOY	D-06-06 16ADD	325409111432001	604682	32° 54' 8.8"	111° 43' 19.6"	1398	12/11/2000	255.2	V			11/10/2020	299.3	S			-44.1
PINAL AMA	ELOY	D-06-07 11DDD2	325432111350401		32° 54' 31.8"	111° 35' 3.3"	1431	12/6/2000	88.3	V			11/12/2020	97	V			-8.7
PINAL AMA	ELOY	D-06-08 S04ADD1	325554111305201	605731	32° 55' 49.5"	111° 30' 53.9"	1429	12/6/2000	54.7	V			11/12/2020	70.7	S			-16.0
PINAL AMA	ELOY	D-06-09 N04DDD	325617111244801	620899	32° 56' 16.6"	111° 24' 47.3"	1588	12/6/2000	269.1	V			12/16/2020	320.7	V			-51.6
PINAL AMA	ELOY	D-05-07 34DDD	325618111370501	604184	32° 56' 18"	111° 37' 5"	1406	12/12/2000	90.3	V			11/10/2020	102.1	V			-11.8
PINAL AMA	ELOY	D-05-07 33DDD	325618111380801	609618	32° 56' 17.7"	111° 38' 8"	1403	12/12/2000	105.5	V			11/10/2020	110	V			-4.5
PINAL AMA	ELOY	D-06-06 07AAA3	325520111452901	604209	32° 55' 19.1"	111° 45' 24"	1385	12/11/2000	146.8	V			11/10/2020	203	V			-56.2
PINAL AMA	ELOY	D-05-07 26CDD	325711111363801	622466	32° 57' 10.4"	111° 36' 37"	1402	12/12/2000	83.5	V			11/10/2020	97.5	V			-14.0
PINAL AMA	ELOY	D-05-07 28DCC2	325712111383001	809300	32° 57' 12.8"	111° 38' 36.6"	1410	12/12/2000	118.3	V			11/10/2020	126.1	S			-7.8
PINAL AMA	ELOY	D-05-09 31ADD	325707111271801	621904	32° 57' 6.8"	111° 27' 18.1"	1505	11/30/2000	149.6	V			11/13/2020	166.2	V			-16.6
PINAL AMA	ELOY	D-05-09 22CBA	325848111251101	621911	32° 58' 50"	111° 25' 6"	1529	11/30/2000	209.2	V			12/2/2020	259.8	S			-50.6
PINAL AMA	ELOY	D-05-07 W13CAD	325908111355701		32° 59' 7.2"	111° 35' 31.1"	1386	11/30/2000	71.2	V			11/10/2020	85.4	V			-14.2
PINAL AMA	ELOY	D-05-09 29ADA	325807111261601	635611	32° 58' 6.8"	111° 26' 16.2"	1520	11/30/2000	164.6	V			11/13/2020	186.8	V			-22.2
PINAL AMA	ELOY	D-05-09 18BDD2	325944111275001	601789	32° 59' 45.4"	111° 27' 49.8"	1464	11/30/2000	163.9	V			11/13/2020	220	V			-56.1
PINAL AMA	ELOY	D-05-09 18BDD1	325945111275101	601792	32° 59' 44.6"	111° 27' 49.6"	1464	11/30/2000	132.1	V			11/13/2020	203.7	V			-71.6
PINAL AMA	ELOY	D-05-08 17BBB2	330008111332601	621935	33° 0' 7.6"	111° 33' 26"	1409	11/30/2000	104.8	V			11/10/2020	116.9	V			-12.1
PINAL AMA	ELOY	D-04-08 35DDA	330204111292401	621538	33° 2' 5.9"	111° 29' 23.4"	1420	11/30/2000	116.3	V			12/2/2020	152.7	V			-36.4
PINAL AMA	ELOY	D-04-09 33AAD	330235111252101	627609	33° 2' 37.3"	111° 25' 19.1"	1456	11/29/2000	156.6	V			11/10/2020	207.1	V			-50.5
PINAL AMA	ELOY	D-04-10 18DCD PZ1	330435111212601		33° 4' 34.21"	111° 21' 30.97"	1562.49	11/6/2000	229.6	V			10/29/2020	275.7	V			-46.1
PINAL AMA	ELOY	D-04-10 18DCD PZ2	330435111212602		33° 4' 34.21"	111° 21' 30.97"	1562.49	11/6/2000	229.7	V			10/29/2020	275.7	V			-46.0
PINAL AMA	ELOY	D-04-10 30BDD	330311111214201	605530	33° 3' 10.8"	111° 21' 40.8"	1490	12/12/2000	143	V			11/10/2020	203.1	V			-60.1
PINAL AMA	ELOY	D-04-09 15BCA2 PZ1	330515111245601		33° 5' 15.58"	111° 24' 56.27"	1572.98	11/7/2000	300.4	V			10/29/2020	321	V			-20.6
PINAL AMA	ELOY	D-04-10 12DDD	330522111160601	621947	33° 5' 22"	111° 16' 7.1"	1553.8	11/29/2000	41.2	V			11/10/2020	46.4	V			-5.2
PINAL AMA	ELOY	D-09-08 29BCC	323635111330001	615602	32° 36' 36"	111° 33' 1.59"	1663.71	2/23/2001	348.3	V			2/4/2021	341.62	VT		NO CASCADING	6.7
PINAL AMA	ELOY	D-06-07 36DCB	325117111342801		32° 51' 8.77"	111° 34' 30.4"	1477.02	2/23/2001	129.87	V			2/4/2021	135.76	VT		BLUE 500 13:00	-5.9
PINAL AMA	MARICOPA - STANFIELD	D-07-05 07DDD	324917111513801	613932	32° 49' 16.3"	111° 51' 38.7"	1368	12/8/2000	434	V			11/10/2020	452.4	V			-18.4
PINAL AMA	MARICOPA - STANFIELD	D-06-04 36DDD	325102111523901	629477	32° 51' 2.5"	111° 52' 37.8"	1347	12/11/2000	463.3	V			11/12/2020	479.3	V			-16.0
PINAL AMA	MARICOPA - STANFIELD	D-06-03 27CCC	325156112015101	615407	32° 51' 54.14"	112° 1' 52.03"	1374.26	12/6/2000	671.1	V			2/4/2021	660.01	VT		BLACK 1500 10:45	11.1
PINAL AMA	MARICOPA - STANFIELD	D-06-05 16DAD	325356111493202	622028	32° 53' 56.7"	111° 49' 32.6"	1346	12/6/2000	47.8	V			11/10/2020	54.5	V			-6.7
PINAL AMA	MARICOPA - STANFIELD	D-06-05 19DDA PZ1	325256111514001	635943	32° 52' 58"	111° 51' 36.6"	1338	12/6/2000	319.3	V			11/12/2020	336.4	V			-17.1
PINAL AMA	MARICOPA - STANFIELD	D-06-02 E01CDD2	325542112053301		32° 55' 41.8"	112° 5' 33.6"	1318	12/5/2000	600.5	V			11/12/2020	534	V			66.5
PINAL AMA	MARICOPA - STANFIELD	D-05-05 32BDD	325639111522101	806657	32° 56' 44"	111° 52' 8.8"	1335	12/5/2000	362.1	V			11/13/2020	379.4	V			-17.3
PINAL AMA	MARICOPA - STANFIELD	D-05-04 23BDD2	325840111551501	623811	32° 58' 39.4"	111° 55' 16.1"	1276	11/20/2000	451.7	V			11/9/2020	399.7	V			52.0
PINAL AMA	MARICOPA - STANFIELD	D-05-02 21BBB	325901112100401	605935	32° 59' 2.1"	112° 10' 4.3"	1339	11/20/2000	325.2	V			11/10/2020	305.5	V			19.7
PINAL AMA	MARICOPA - STANFIELD	D-05-03 25ADD	325746111595201		32° 57' 44"	111° 59' 46.4"	1240	11/20/2000	158.3	V			11/10/2020	100.9	V			57.4
PINAL AMA	MARICOPA - STANFIELD	D-05-03 29BCC1	325748112045101		32° 57' 46.2"	112° 4' 54.6"	1257	11/13/2000	278.5	V			11/10/2020	147.7	V			130.8
PINAL AMA	MARICOPA - STANFIELD	D-05-02 22DAD	325833112080401	605938	32° 58' 29.6"	112° 8' 3"	1322	11/20/2000	576.3	V			11/10/2020	471.8	V			104.5
PINAL AMA	MARICOPA - STANFIELD	D-05-04 15ADD	325928111554401	601127	32° 59' 30.1"	111° 55' 42.6"	1266	11/20/2000	295.9	V			11/9/2020	190.8	V			105.1
PINAL AMA	MARICOPA - STANFIELD	D-05-03 12CDD1	330001112002001	612530	32° 59' 59.4"	112° 0' 17.5"	1215	11/21/2000	130.3	V			11/9/2020	80.1	V			50.2
PINAL AMA	MARICOPA - STANFIELD	D-05-04 07DDA	330008111584501	623829	33° 0' 8.9"	111° 58' 46.2"	1227	11/20/2000	142.3	V			11/9/2020	91	S			51.3
PINAL AMA	MARICOPA - STANFIELD	D-04-03 35DDD	330147112005001	612706	33° 1' 44.9"	112° 0' 47.5"	1200	11/20/2000	121	V			11/9/2020	74.6	S			46.4

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PINAL AMA	MARICOPA - STANFIELD	D-04-04 33CDD	330148111572101	610515	33° 1' 44.9"	111° 57' 24.5"	1217	11/21/2000	244.8	V			12/2/2020	233	S			11.8
PINAL AMA	MARICOPA - STANFIELD	D-04-02 15CBC	330435112085801	612602	33° 4' 36.3"	112° 8' 59.7"	1227	3/27/2001	350.9	V			11/9/2020	330.9	V			20.0
PINAL AMA	MARICOPA - STANFIELD	D-05-02 36BAD	325656112064801	615354	32° 57' 14.14"	112° 6' 33.34"	1316	2/23/2001	581.55	V			2/4/2021	478.49	VT		BLUE 500 10:00	103.1
PINAL AMA	VEKOL VALLEY	D-09-01 13BBD	323900112130201		32° 38' 59.9"	112° 13' 1.7"	2048	11/21/2000	436.2	V			11/12/2020	439.2	V			-3.0
PINAL AMA	VEKOL VALLEY	D-08-01 35ABD	324131112130401		32° 41' 31"	112° 13' 32.7"	2002	11/21/2000	391.8	V			11/12/2020	394.3	V			-2.5
PINAL AMA	VEKOL VALLEY	D-08-01 30DAA	324208112172401		32° 42' 7.4"	112° 17' 22"	2165	11/21/2000	526.5	V			11/12/2020	518.9	V			7.6
PINAL AMA	VEKOL VALLEY	D-08-01 11CCB	324401112133801		32° 44' 31.4"	112° 14' 8.2"	1945	11/21/2000	332.5	V			11/12/2020	329.1	V			3.4
PINAL AMA	VEKOL VALLEY	D-07-01 22CCC2	324754112151201		32° 47' 54.7"	112° 15' 11.9"	1835	11/20/2000	420.7	V			11/12/2020	420.7	V			0.0
PINAL AMA	VEKOL VALLEY	D-06-01 33DCC	325120112154501		32° 51' 21.9"	112° 15' 39.5"	1702	11/21/2000	291.7	V			11/12/2020	293.4	V			-1.7
PINAL AMA	VEKOL VALLEY	D-06-01 21DAB	325257112152601	512922	32° 53' 23.7"	112° 15' 28.8"	1630	11/21/2000	228.2	V			11/12/2020	226.9	V			1.3
PINAL AMA	VEKOL VALLEY	D-06-01 16DCD2	325358112153501	804042	32° 53' 57.6"	112° 15' 35.4"	1626	11/21/2000	212.1	V			11/12/2020	211.2	V			0.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 12ADD	342658112244601	606295	34° 47' 0.4"	112° 24' 42.3"	4648	3/12/2001	118.1	V			3/22/2021	146.4	V			-28.3
PRESCOTT AMA	LITTLE CHINO VALLEY	A-15-01 17BCC	344052112171701	524200	34° 40' 51"	112° 17' 18.7"	4979	3/15/2001	314.1	V			3/22/2021	312.9	V			1.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 31CCD	343746112242601	619664	34° 37' 45.4"	112° 24' 25.2"	5008	3/19/2001	344.1	V			3/22/2021	352.5	V			-8.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 25CDB	343847112190401		34° 38' 46.2"	112° 19' 6.6"	4927	3/15/2001	297.1	V			3/22/2021	309.6	V			-12.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 30DAA	343858112300301	809476	34° 38' 57.7"	112° 30' 0.9"	5198	3/19/2001	154.2	V			3/23/2021	290.3	V			-136.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD1	343930112235301	523565	34° 39' 29.5"	112° 23' 55"	4915	3/14/2001	226.4	V			3/22/2021	194.9	V			31.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 34ABA2	344347112271001	502645	34° 43' 47.2"	112° 27' 9.4"	4800	3/14/2001	276.6	V			3/22/2021	306.5	V			-29.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-03 35BBB	344348112331401	602609	34° 43' 48.1"	112° 33' 14.2"	5200	3/16/2001	117.8	V			3/23/2021	115.2	V			2.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 25DDB	344358112182901	625105	34° 43' 58.3"	112° 18' 32.2"	4961	3/15/2001	418.1	V			3/24/2021	446.6	V			-28.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 01DCD	344241112312201	808811	34° 42' 11.2"	112° 31' 21.5"	5010	4/4/2001	94	V			3/23/2021	146.7	V			-52.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 07CDD	344628112174901	606296	34° 46' 29.4"	112° 24' 10.3"	4701	3/12/2001	167.9	V			3/22/2021	195.2	V			-27.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 09CDC	344629112283401	634748	34° 46' 31.2"	112° 28' 33.3"	4685	3/13/2001	179.7	V			3/25/2021	207.1	V			-27.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 28BCA	344429112222001	625104	34° 44' 26.8"	112° 22' 23.2"	4807	3/15/2001	276.2	V			3/22/2021	304.9	V			-28.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 22DBD	344458112270601	606025	34° 44' 57.9"	112° 27' 5.8"	4733	3/13/2001	217.5	V	V		3/23/2021	247.2	V	V		-29.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CBD1	344459112232601	625107	34° 45' 0"	112° 23' 26.2"	4777	3/15/2001	49.3	V			3/22/2021	40.8	S			8.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CAC	344501112232601	625106	34° 44' 58.1"	112° 23' 20.5"	4781	3/15/2001	223.6	V			3/22/2021	247.9	V			-24.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21BAA1	344534112282901	604724	34° 45' 33.9"	112° 28' 25.5"	4747	3/12/2001	228.7	V			3/22/2021	258.1	V			-29.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 08ACA	344704112291601	572110	34° 47' 5.4"	112° 29' 15.5"	4615	3/13/2001	109.4	V			3/25/2021	143.9	V			-34.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 03BBB1	344809112275201		34° 48' 9.7"	112° 27' 50.9"	4539	3/13/2001	57.6	V			3/25/2021	84.2	S			-26.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 S34DDD3	344819112265601	633990	34° 48' 18.4"	112° 26' 55.8"	4515	3/12/2001	35.9	V			3/23/2021	53.9	S			-18.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 S34CDD	344820112272701	609766	34° 48' 17.1"	112° 27' 24.4"	4516	3/12/2001	1.5	V			3/25/2021	30.1	S			-28.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD2	343930112235601	562286	34° 39' 32.8"	112° 23' 57.7"	4920	3/14/2001	374.6	V			3/22/2021	397.5	V			-22.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 30CDA	343843112303101	511771	34° 38' 42.8"	112° 30' 30.3"	5218	4/4/2001	166.7	V			3/23/2021	290.1	V			-123.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 30DCB	343836112302401	554078	34° 38' 46.8"	112° 30' 24.2"	5200	4/4/2001	157.9	V			3/23/2021	301.8	V			-143.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 13ACC	344147112313201	536656	34° 40' 45.4"	112° 31' 29.1"	5100	3/16/2001	217.2	V			3/22/2021	235.4	V			-18.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 31DDB	343754112301101	635023	34° 37' 52.3"	112° 30' 11.3"	5355	3/19/2001	210.9	V			3/23/2021	228.2	V			-17.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-14-02 05BBC	343734112295501	540148	34° 37' 33.2"	112° 29' 56.1"	5305	3/19/2001	176.7	V			3/23/2021	196.7	V			-20.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 35ACB	343820112195701	560334	34° 38' 20.3"	112° 19' 56.5"	4961	3/9/2001	379.5	V			3/23/2021	412.4	V			-32.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 23ACA	344520112194301	587404	34° 45' 19.87"	112° 19' 43.2"	4878.63	7/11/2001	342.5	V			6/3/2021	370.67	VT		BLUE 500 10:00	-28.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21BAA2	344535112283001	604725	34° 45' 32.65"	112° 28' 30.82"	4746.47	11/21/2000	236.11	V			10/28/2020	267.77	VT			-31.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 N34DDD1	344819112265701	608242	34° 48' 18.18"	112° 26' 57.65"	4513.79	11/21/2000	15.39	V			10/28/2020	42.15	VT			-26.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 08DAA1 PZ1	344134112223501	587403	34° 41' 33.73"	112° 22' 35.25"	4915.24	7/11/2001	376.2	V			7/7/2021	405.43	VT		BLACK 500 11:45	-29.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 26CBC1	343854112202701	541372	34° 38' 54.55"	112° 20' 27.49"	4949.32	2/18/2001	399.9	V			6/3/2021	443.7	VT		RED 500 13:15	-43.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 28DDC	344357112280901	628072	34° 43' 51.9"	112° 28' 8.69"	4818.78	11/21/2000	306.56	V			10/28/2020	335.09	VT			-28.5
PRESCOTT AMA	UPPER AGUA FRIA	B-12H-01 20ACD	342722112225901	543019	34° 27' 21.16"	112° 22' 55.54"	6380	3/14/2001	67.6	V			3/27/2021	88.4	V			-20.8
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 34CCA	343244112150901	631279	34° 32' 44.8"	112° 15' 9.9"	4650	3/5/2001	77.5	V			3/23/2021	83.8	V			-6.3
PRESCOTT AMA	UPPER AGUA FRIA	A-13-01 01DCA	343153112122901	803241	34° 31' 53"	112° 12' 29.6"	4738	4/17/2001	208.1	V			3/25/2021	210.7	V			-2.6
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 11DAA	343628112193001	612329	34° 36' 26.6"	112° 19' 31.1"	5043.52	3/6/2001	328.6	V			3/24/2021	337.7	V			-9.1
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 11ACB	343637112195701	612330	34° 36' 37.1"	112° 19' 57.5"	5043.72	3/6/2001	341.9	V			3/24/2021	349.4	V			-7.5
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 08BBB	343652112172101	536623	34° 36' 52.08"	112° 17' 18.8"	4859.13	11/22/2000	199.62	V			11/12/2020	214.17	VT			-14.6
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 25DAC	343343112183801	613029	34° 33' 43.9"	112° 18' 38.2"	4933	3/5/2001	59.5	V			3/23/2021	45.4	S			14.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 27ACC	343353112144101	613024	34° 33' 53.08"	112° 14' 41.05"	4660.63	11/20/2000	43.04	V			11/12/2020	42.52	VT			0.5
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 28BBB	343415112161401	613020	34° 34' 11.5"	112° 16' 12.8"	4714.98	3/5/2001	48.1	V			3/23/2021	99.5	S			-51.4
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 24DCB	343428112123701	614220	34° 34' 29.5"	112° 12' 37.5"	4928	3/5/2001	301.5	V			3/23/2021	306.6	V			-5.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 22CAD	343434112145201	613023	34° 34' 33.5"	112° 14' 51.1"	4720	7/30/2001	79	V			3/23/2021	86.9	S			-7.9
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 22ADA	343453112203401	613045	34° 34' 53.7"	112° 20' 34.4"	5184.1	3/6/2001	333.9	V			3/22/2021	338	V			-4.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 17AAD	343529112162201	613025	34° 35' 48.92"	112° 16' 26.23"	4779.25	11/20/2000	117.08	V			10/28/2020	35.64	VT			81.4
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 14ACC	343540112195701	613042	34° 35' 38.2"	112° 20' 0"	5111.16	3/6/2001	371	V			3/24/2021	370.9	V			0.1
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 01CCC	343655112192201	539499	34° 36' 54.7"	112° 19' 22.5"	5025	3/6/2001	337.5	V			3/24/2021	365.9	V			-28.4
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ2	343641112204203	519687	34° 36' 40.15"	112° 20' 43.8"	5025	3/6/2001	323	V			4/21/2021	321.87	VT		TAKEN AT 10:005 WITH BLACK 500	1.1
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ1	343641112204202	519687	34° 36' 40.15"	112° 20' 43.8"	5018.34	11/22/2000	610.7	V			10/29/2020	555.11	VT			55.6
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 22ABB	344029112143501	519873	34° 40' 20.09"	112° 14' 35.07"	5257.81	11/20/2000	61.82	V			10/29/2020	75.27	VT			-13.5
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 28ACC	343906112154701	614238	34° 39' 7.09"	112° 15' 45.41"	5067.21	11/20/2000	314.58	V			10/29/2020	324.34	VT			-9.8
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-02-14 10CDC	333121113413001	600171	33° 31' 25.4"	113° 41' 28.3"	1350	11/27/2000	340.2	V			10/30/2020	350.6	V			-10.4
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-03-15 02DAC	333737113460801	601120	33° 37' 41.7"	113° 46' 10.1"	1205	11/27/2000	206.8	V			10/30/2020	226.5	V			-19.7
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 13ADA	334121113450101	600133	33° 41' 33.5"	113° 44' 57.2"	1239	11/27/2000	355.1	V			10/30/2020	333.3	V			21.8
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 18BCC	334122113510901	620833	33° 41' 21.8"	113° 51' 9.3"	1133	11/27/2000	140.4	V			10/29/2020	154.1	S			-13.7
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-14 32BAA	333910113432801	600131	33° 39' 9.6"	113° 43' 24.6"	1238	11/27/2000	307.7	V			10/30/2020	438.6	V			-130.9
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 35BDD2	334357113473201	801955	33° 43' 55.9"	113° 47' 29.9"	1208	12/7/2000	305.2	V			10/27/2020	380.8	V			-75.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 25DCC	334422113524001	614479	33° 44' 21.9"	113° 52' 41"	1123	12/7/2000	156	V			10/29/2020	175.6	S			-19.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 29DAA	334446113500601	613116	33° 44' 46.4"	113° 50' 6.7"	1121	12/7/2000	187.9	V			10/27/2020	233.3	V			-45.4
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-15 27BBA	335024113485701	614505	33° 50' 24.5"	113° 48' 52.2"	1352	12/7/2000	434	V			10/27/2020	439.6	V			-5.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 20ACD	335054113564301	505096	33° 50' 55.3"	113° 56' 43.6"	1055	12/7/2000	117.7	V			10/27/2020	132.1	V			-14.4
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 09BCC	334722113562001	600166	33° 47' 23.5"	113° 56' 19"	1083	12/7/2000	141	V			10/27/2020	147.1	V			-6.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 22ADA	335102113541301	613119	33° 51' 3.1"	113° 54' 16.6"	1121	12/7/2000	187.3	V			10/27/2020	196.9	V			-9.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 12AAA	335257113520601	613120	33° 53' 2.1"	113° 52' 11.8"	1207	12/7/2000	288.4	V			10/27/2020	288.1	V			0.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-07-17 23CAC2	335556114000101	645951	33° 55' 58.4"	114° 0' 10.3"	952	12/7/2000	74	V			10/27/2020	79.9	S			-5.9
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 14CAA	334118113463501	600129	33° 41' 20.62"	113° 46' 30.91"	1181.1	11/13/2000	243	V			10/13/2020	332.79	VT			-89.8
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-13-15 17CDD	342753113511901		34° 27' 51.3"	113° 51' 23.9"	2080	10/24/2000	667.1	V			10/23/2020	665.6	V			1.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-16 07BDD	343923113583301	611808	34° 39' 12.9"	113° 58' 12.9"	2341	10/26/2000	934.9	V			10/20/2020	935.6	V			-0.7
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-19 07AAB	343940114170301	629451	34° 39' 39.8"	114° 17' 4.1"	1472	10/27/2000	480.6	V			10/22/2020	498.7	V		PUMP OFF ~7.5 HOURS	-18.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-20 13BCD	344347114180601	616522	34° 43' 43.4"	114° 18' 45.1"	980	10/26/2000	61.6	V			10/21/2020	31.3	S			30.3
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-18-18 01DCD	345801114082801		34° 58' 8.9"	114° 8' 36.9"	2181	10/26/2000	528.3	V			10/20/2020	527.7	V			0.6
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-18 22AAC	350633114103701		35° 6' 33.72"	114° 10' 36.15"	2495.57	2/12/2001	743.65	V			2/17/2021	751.7	VT		BLACK 1500 14:45	-8.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-17 E07AAB2	350818114063901	529524	35° 8' 17.1"	114° 6' 42.7"	2858	10/26/2000	179.2	V			10/20/2020	177	V			2.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 34DDB2	350937114044201	646882	35° 9' 37.6"	114° 4' 41.8"	3047	10/26/2000	60.2	V			10/20/2020	61	V			-0.8
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 24CBC	351123114032201	612663	35° 11' 25.7"	114° 3' 23.2"	3335	10/26/2000	134.7	V			10/20/2020	142.4	V			-7.7
SAFFORD BASIN	GILA VALLEY	D-10-26 25CBA	323240109384601	644135	32° 32' 5.1"	109° 38' 39.2"	4089	10/30/2000	629	V			11/3/2020	642.8	V			-13.8
SAFFORD BASIN	GILA VALLEY	D-09-27 09ADD	324002109344501	807397	32° 40' 2.6"	109° 34' 45.5"	3280	10/30/2000	150.1	V			11/3/2020	151.5	S			-1.4
SAFFORD BASIN	GILA VALLEY	D-08-28 22CCB	324303109283601	615569	32° 43' 3.3"	109° 28' 36.3"	3340	10/31/2000	73.4	V			11/5/2020	88.3	S			-14.9
SAFFORD BASIN	GILA VALLEY	D-07-26 22BAB	324855109403301	622921	32° 48' 58"	109° 40' 36.6"	2951.16	10/31/2000	43.2	V			11/3/2020	45.9	S			-2.7
SAFFORD BASIN	GILA VALLEY	D-07-26 18CDA1	324908109433001	611966	32° 49' 7.1"	109° 43' 27.1"	2961.14	10/30/2000	60.1	V			11/2/2020	60.9	S			-0.8
SAFFORD BASIN	GILA VALLEY	D-07-26 01CDD	325045109384101		32° 50' 43.4"	109° 38' 36"	3135	10/31/2000	80.6	V			11/3/2020	105.3	V			-24.7
SAFFORD BASIN	GILA VALLEY	D-07-27 02ADD	325115109324501	605867	32° 51' 11.3"	109° 32' 45.5"	3065	10/31/2000	23.7	V			11/3/2020	48.5	V			-24.8
SAFFORD BASIN	GILA VALLEY	D-06-25 25CDD	325228109442401	613376	32° 52' 28.2"	109° 44' 32.9"	2890	10/31/2000	45.2	V			11/5/2020	27.7	S			17.5
SAFFORD BASIN	GILA VALLEY	D-05-23 25DCD	325742109560901	803164	32° 57' 43.2"	109° 56' 7.7"	2778	10/30/2000	50.6	V			11/5/2020	55.3	S			-4.7
SAFFORD BASIN	GILA VALLEY	D-05-24 25BBC	325822109503601	637301	32° 58' 21.5"	109° 50' 35.5"	3065	3/5/2001	158.04	S			11/5/2020	166.8	S			-8.8
SAFFORD BASIN	GILA VALLEY	D-04-22 35ADA	330240110031101	611941	33° 2' 39.7"	110° 3' 13.1"	2857.54	10/30/2000	13.8	V			11/5/2020	31.1	S			-17.3
SAFFORD BASIN	GILA VALLEY	D-05-23 03CAB1	330135109583801	624721	33° 1' 32.5"	109° 58' 37.8"	2790	10/30/2000	69.4	V			11/5/2020	74	S			-4.6
SAFFORD BASIN	GILA VALLEY	D-08-26 33CDC1	324113109415401		32° 41' 11.91"	109° 41' 37.56"	3341.21	2/20/2001	33.15	V			2/9/2021	48.93	VT		TAKEN WITH BLACK 500 AT 10:30	-15.8
SAFFORD BASIN	SAN CARLOS VALLEY	D-01-16 09CBC UNSURV	332128110432101	526251	33° 21' 27"	110° 43' 22.5"	3510	11/1/2000	639.1	V			11/6/2020	704	V			-64.9
SAFFORD BASIN	SAN SIMON VALLEY	D-20-32 09BBB	314238109050701	602723	31° 42' 39.2"	109° 5' 7"	4297	11/2/2000	187.2	V			11/5/2020	198.8	V			-11.6
SAFFORD BASIN	SAN SIMON VALLEY	29S 22W 11 243A	314750109024501		31° 47' 50.7"	109° 2' 51.2"	4164	11/2/2000	133.2	V			11/5/2020	151.6	V			-18.4
SAFFORD BASIN	SAN SIMON VALLEY	27S 21W 07 232A	315836109011501		31° 58' 27.7"	109° 1' 23.1"	4018	11/1/2000	123.6	V			11/5/2020	141.4	V			-17.8
SAFFORD BASIN	SAN SIMON VALLEY	27S 21W S06 443	315846109011601		31° 58' 46.3"	109° 1' 15.6"	4001	11/1/2000	116.6	V			11/5/2020	135.6	V			-19.0
SAFFORD BASIN	SAN SIMON VALLEY	D-16-32 21CCB	320051109050601		32° 0' 55.2"	109° 5' 11.8"	4088	11/1/2000	193.7	V			11/4/2020	225	V			-31.3
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 34ACC	321016109095601		32° 10' 13.9"	109° 9' 58.6"	3774	11/1/2000	181.5	V			11/4/2020	283.6	V			-102.1
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 19BAC	321210109132001	615982	32° 12' 10.4"	109° 13' 20.3"	3713	10/31/2000	71.6	V			11/4/2020	93.6	S			-22.0
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 08ABC1	321355109120501	810297	32° 13' 59.8"	109° 12' 5.5"	3632	10/31/2000	49.6	V			11/3/2020	61.4	V			-11.8
SAFFORD BASIN	SAN SIMON VALLEY	D-13-29 24DCC2	321648109202001	621310	32° 16' 46.7"	109° 20' 19.9"	3655	10/31/2000	116.2	V			11/3/2020	289.1	V			-172.9
SAFFORD BASIN	SAN SIMON VALLEY	D-13-31 29DDA	321607109114101	805565	32° 16' 6.8"	109° 11' 35.7"	3621	10/31/2000	41.4	V			11/3/2020	52.8	V			-11.4
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 13BCD	321812109264401	610898	32° 18' 12.11"	109° 26' 46.79"	3732.16	2/21/2001	102.13	V			2/9/2021	114.76	VT		TAKEN WITH BLACK 500 AT 11:25	-12.6
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 22BCC	321721109286001	618342	32° 17' 19.6"	109° 28' 59.6"	3840	10/31/2000	517.7	V			11/3/2020	580.6	V			-62.9
SAFFORD BASIN	SAN SIMON VALLEY	D-13-30 09ACD2	321857109170101		32° 18' 58.3"	109° 16' 59.6"	3566	11/1/2000	47.1	V			11/3/2020	51.1	V			-4.0
SAFFORD BASIN	SAN SIMON VALLEY	D-12-27 32AAB1	322110109362701	809568	32° 21' 11.6"	109° 36' 24.5"	3979	10/30/2000	130.7	V			11/2/2020	132.6	V			-1.9
SALT RIVER BASIN	SALT RIVER LAKES	A-05-11 18AAA	334653111154101	600998	33° 46' 54.1"	111° 15' 40.4"	2145	10/16/2000	11.6	V			10/19/2020	5.5	S			6.1
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 16CCC	312006109180601	616444	31° 20' 5"	109° 17' 59.8"	3796	11/2/2000	29.3	V			11/3/2020	31.5	V			-2.2
SAN RAFAEL BASIN	SAN RAFAEL	D-24-17 14BBA	312109110352501		31° 21' 9.5"	110° 35' 25.6"	4645	11/30/2000	5.56	S			11/18/2020	7.7	S			-2.1
SAN RAFAEL BASIN	SAN RAFAEL	D-24-16 01CBA UNSURV	312207110400301	640950	31° 22' 6.9"	110° 40' 3.1"	5003	11/30/2000	204.1	V			1/29/2021	211.7	V			-7.6

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
SAN RAFAEL BASIN	SAN RAFAEL	D-22-17 31ADA	312848110384801	611862	31° 28' 50.8"	110° 38' 47.3"	5145	11/30/2000	113.1	V			1/29/2021	132.7	S			-19.6
SAN RAFAEL BASIN	SAN RAFAEL	D-22-17 25BDB2	312941110341601	630082	31° 29' 42.5"	110° 34' 20.7"	5085	11/30/2000	20.8	V			1/29/2021	31.3	V			-10.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 04DDD2 UNSUR	312123110484201	625340	31° 21' 46.4"	110° 48' 26.4"	4018	2/13/2001	297.8	V			1/28/2021	329	V			-31.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 04DDD1 UNSUR	312147110482801	625364	31° 21' 46.4"	110° 48' 27.6"	4018	2/13/2001	96.4	V			1/28/2021	93.8	S			2.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 18CBC	312017110573001	603434	31° 20' 19.7"	110° 57' 26.8"	3957	2/14/2001	197.9	V			1/28/2021	203.9	S			-6.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 24DDC	312423110574901	500951	31° 24' 21.7"	110° 57' 49.2"	3597	11/2/2000	54.9	V			1/27/2021	61.2	V			-6.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-15 19ABB	312513110505401	805426	31° 25' 13.3"	110° 50' 53.7"	3885	11/2/2000	139.7	V			1/28/2021	143.6	S			-3.9
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 15CCB1	312523110542801	607491	31° 25' 27.1"	110° 54' 28.3"	3554	9/10/2001	32.8	V			8/26/2021	46.2	V			-13.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 16BCC	312545110552801	619649	31° 25' 43.2"	110° 55' 26.4"	3509	2/13/2001	9.09	V			2/19/2021	17.1	S			-8.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-15 31CAC	312258110510901	625359	31° 22' 57.2"	110° 51' 9.2"	3650	2/13/2001	9.15	S			2/19/2021	28.5	V			-19.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36BDD	312308110580601	506340	31° 23' 8.38"	110° 58' 4.45"	3700.19	10/31/2000	147.6	V			11/16/2020	159.3	VT		TAKEN AT 10:15 WITH BLACK 500	-11.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 36BCB1	312316110522701	603439	31° 23' 15.8"	110° 52' 26.9"	3620	8/7/2001	30.8	G			6/16/2021	66.3	S			-35.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36ADB	312316110574801	603432	31° 23' 14.4"	110° 57' 42.7"	3675	2/14/2001	120.1	V			1/28/2021	130.4	V			-10.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 36AD UNSURV	312823110573501	619352	31° 28' 24.4"	110° 57' 33.3"	3471	9/10/2001	23.5	V			8/26/2021	21.2	V			2.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 08CB UNSURV	312633111023301		31° 26' 31.5"	111° 2' 34.5"	3575	12/6/2000	4	S	X		9/1/2021	3.3	S	X	NEARBY CREEK HAS <5CFS, EVIDENCE OF HEAVY RUNOFF IN AREA RECENTLY	0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 19DCC1 UNSUR	312946111025301	524009	31° 29' 41.4"	111° 2' 58.9"	3490	11/1/2000	195	V			1/26/2021	199.6	S			-4.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 09DCC UNSURV	313120111005801	605206	31° 31' 20.4"	111° 0' 58.5"	3340	2/13/2001	14.5	V			2/25/2021	18.2	V			-3.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-12 24AAA	313539111033701	509495	31° 35' 39.8"	111° 3' 40"	3378	10/31/2000	154.9	V			11/19/2020	155.6	V			-0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 30DCA	313406111330201	629110	31° 34' 8.1"	111° 2' 56"	3250	2/13/2001	10	V			2/25/2021	10	S			0.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 26CAD2	313915111052001	804782	31° 39' 26.6"	111° 5' 14.1"	3290	10/31/2000	171.9	V			1/27/2021	175.1	V			-3.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 05CCB	313735111023701	608125	31° 37' 35.27"	111° 2' 36.07"	3180.46	11/15/2000	13.43	S			11/16/2020	18.15	VT			-4.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 06DAA	313747111023901	608112	31° 37' 46.3"	111° 2' 39.5"	3175	11/2/2000	20.3	V			1/26/2021	24.3	S			-4.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 07ACD	314214111025601	617275	31° 42' 15.9"	111° 2' 55.7"	3063	2/13/2001	9.95	S			2/25/2021	29.4	S			-19.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-11 21DAA	314024111125301	606136	31° 40' 23.1"	111° 12' 51.8"	3455	11/2/2000	47.1	V			1/25/2021	62.9	S			-15.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 34BCC	314401111124501	616247	31° 44' 1.5"	111° 12' 44.9"	3640	11/1/2000	175.2	V			1/27/2021	177.7	V			-2.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 23CCB	314526111114901	625265	31° 45' 27.1"	111° 11' 47.3"	3570	11/1/2000	169.6	V			1/27/2021	168.3	V			1.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 06CBA	314303111032801	627932	31° 43' 1.1"	111° 3' 24.1"	3064	10/31/2000	37.5	V			1/25/2021	55.9	S			-18.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 06AAD	312230110503301	803465	31° 22' 30"	110° 50' 35.72"	3663.85	2/13/2001	4.98	S			2/18/2021	24.53	VT		TAKEN AT 10:15 WITH BLACK 500	-19.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-13 01DBC	312204110575601	571751	31° 22' 2.9"	110° 57' 57.1"	3827	1/30/2001	242.95	V			2/19/2021	278.9	V		CITY WELL IS OFF	-36.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-13 31ABD	314413111030001		31° 44' 13.2"	111° 2' 54.4"	3042	2/13/2001	53.4	V			2/25/2021	82.4	S			-29.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 01BBD UNSURV	312740110581301	506506	31° 27' 39.31"	110° 58' 15.31"	3444.16	2/13/2001	11.8	S			2/18/2021	34.48	VT		TAKEN AT 11 AM WITH BLACK 500	-22.7
TONTO CREEK BASIN	TONTO CREEK	A-06-10 14ABC2	335205111180601	560965	33° 52' 2.2"	111° 18' 5.4"	2316	10/16/2000	14.78	S			10/19/2020	15.7	S			-0.9
TONTO CREEK BASIN	TONTO CREEK	A-09-10 32BDB	340458111211801	601022	34° 4' 58.5"	111° 21' 18.1"	3030	10/16/2000	39.2	S			10/5/2020	31.6	S			7.6
TONTO CREEK BASIN	TONTO CREEK	A-10-10 11ACB	341336111174801	509660	34° 13' 35.1"	111° 17' 51.41"	4821.29	11/13/2000	6.76	V			10/29/2020	8.24	VT		BLUE 500 09:30	-1.5
TONTO CREEK BASIN	TONTO CREEK	A-09-10 05AAA	340932111204001		34° 9' 31"	111° 20' 41.9"	4180	10/16/2000	98.8	V			10/19/2020	88.7	V			10.1
TONTO CREEK BASIN	TONTO CREEK	A-11-10 35CCD	341447111182501	631835	34° 14' 53"	111° 18' 18.9"	5079	11/13/2000	122.5	V			11/16/2020	118.9	V			3.6
TONTO CREEK BASIN	TONTO CREEK	A-11-11 26ADD PZ1	341605111111301	568681	34° 16' 4.92"	111° 11' 10.47"	5028.08	4/19/2001	69	V			2/22/2021	71.9	S			-2.9
TUCSON AMA	AVRA VALLEY	D-22-08 34ABA	312827111303301	630270	31° 28' 35"	111° 30' 32.1"	3435	11/30/2000	193	V			11/18/2020	205.6	S		NEARBY CONSTRUCTION FOR BORDER WALL	-12.6
TUCSON AMA	AVRA VALLEY	D-20-08 35BDB	313850111295701	630265	31° 38' 46.3"	111° 29' 55.8"	3463	11/30/2000	455.8	V			1/28/2021	467.8	V			-12.0
TUCSON AMA	AVRA VALLEY	D-20-09 17ABA	314135111263101	630266	31° 41' 38.5"	111° 26' 30.3"	3254	11/30/2000	296.6	V			1/28/2021	310.1	V			-13.5
TUCSON AMA	AVRA VALLEY	D-19-09 03ACA	314830111243101	634260	31° 48' 29.1"	111° 24' 30.5"	3052	11/30/2000	322.1	V			1/27/2021	321.7	V			0.4
TUCSON AMA	AVRA VALLEY	D-19-09 18AAA	314657111271501	607356	31° 46' 55.8"	111° 27' 17.3"	3277	11/30/2000	438.3	V			1/27/2021	440.2	V			-1.9
TUCSON AMA	AVRA VALLEY	D-17-09 02DDA	315825111230601	612492	31° 58' 30.2"	111° 23' 8.3"	2744	11/30/2000	183.6	V			1/27/2021	183.9	V			-0.3
TUCSON AMA	AVRA VALLEY	D-16-10 34BAA	320007111183601	621997	32° 0' 0.9"	111° 18' 33.5"	3096	11/30/2000	601.5	V			11/18/2020	601.4	V			0.1
TUCSON AMA	AVRA VALLEY	D-15-10 33CBC2	320434111200701	603530	32° 4' 33.5"	111° 20' 6.5"	2536	11/30/2000	158.3	V			1/27/2021	151.8	V			6.5
TUCSON AMA	AVRA VALLEY	D-15-10 35AAA	320511111171201	612020	32° 5' 12.8"	111° 17' 14.9"	2529.6	11/30/2000	219.5	V			1/27/2021	217.8	V			1.7
TUCSON AMA	AVRA VALLEY	D-15-11 05CCC	320850111145901	610699	32° 8' 51"	111° 15' 1.1"	2368	11/30/2000	376.8	V			1/27/2021	254.4	V			122.4
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ1	321220111111201	509590	32° 12' 23"	111° 11' 12.9"	2374	11/6/2000	458.3	V			11/13/2020	302.9	V			155.4
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ2	321220111111202	509590	32° 12' 23"	111° 11' 12.9"	2374	11/6/2000	458.9	V			11/13/2020	302.5	V			156.4
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ1	321806111150401	508422	32° 18' 7.5"	111° 15' 6.09"	2144	11/6/2000	353.9	V			11/13/2020	291.4	V			62.5
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ2	321806111150402	508422	32° 18' 7.5"	111° 15' 6.09"	2144	11/6/2000	355.5	V			11/13/2020	295.1	V			60.4
TUCSON AMA	AVRA VALLEY	D-13-11 11ACC2	321851111112601	804090	32° 18' 51.5"	111° 11' 25.6"	2393	11/27/2000	200.7	V			1/26/2021	239.2	V			-38.5
TUCSON AMA	AVRA VALLEY	D-12-11 20AAA	322245111140401	504485	32° 22' 49.6"	111° 14' 0.3"	2019	11/27/2000	262.5	V			1/26/2021	211.5	V			51.0
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ1	322444111095401	508652	32° 24' 45.5"	111° 9' 53.7"	2041	11/6/2000	214.7	V			11/12/2020	212.5	S			2.2
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ2	322444111095402	508652	32° 24' 45.5"	111° 9' 53.7"	2041	11/6/2000	80.8	V			11/12/2020	96.4	S			-15.6
TUCSON AMA	AVRA VALLEY	D-11-11 34ADD2	322555111115801	604805	32° 25' 55"	111° 11' 57.7"	2009	11/27/2000	249.5	V			1/26/2021	206.8	V			42.7
TUCSON AMA	AVRA VALLEY	D-11-11 16CDD2	322805111133101	604802	32° 28' 4.7"	111° 13' 30.2"	1968	11/27/2000	244.3	V			1/26/2021	193.9	V			50.4
TUCSON AMA	AVRA VALLEY	D-11-10 25DDA2	322621111161301	615764	32° 26' 18.9"	111° 16' 11.1"	1953	11/27/2000	206.1	V			1/26/2021	164.8	V			41.3
TUCSON AMA	AVRA VALLEY	D-11-10 27DAA	322636111181401	566419	32° 26' 34.6"	111° 18' 17.2"	1935	11/27/2000	219.9	V			1/26/2021	177.2	V			42.7
TUCSON AMA	AVRA VALLEY	D-11-10 22ADD1	322732111181701	626687	32° 27' 30.6"	111° 18' 15.5"	1914	11/27/2000	195.1	V			1/26/2021	150.3	V			44.8
TUCSON AMA	AVRA VALLEY	D-11-11 11DDB	322923111112101	600235	32° 29' 3.9"	111° 11' 10.3"	2148	11/27/2000	439.9	V			1/28/2021	399.4	V			40.5
TUCSON AMA	AVRA VALLEY	D-11-11 09ACD PZ1	322924111131801	504996	32° 29' 24.1"	111° 13' 16.7"	2043	11/6/2000	348.1	V			11/12/2020	310.5	V			37.6
TUCSON AMA	AVRA VALLEY	D-11-11 09ACD PZ2	322924111131802	504996	32° 29' 24.1"	111° 13' 16.7"	2043	11/6/2000	342.7	V			11/12/2020	293.3	V			49.4
TUCSON AMA	AVRA VALLEY	D-10-11 17CAB2	323338111141501	638306	32° 33' 38.8"	111° 14' 13.3"	2136	11/27/2000	459.8	V			1/27/2021	427.4	V			32.4
TUCSON AMA	AVRA VALLEY	D-10-10 20DCC	323152111200401	618728	32° 31' 50.8"	111° 20' 6.5"	1862	11/27/2000	200.5	V			1/27/2021	168.2	V			32.3
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ1	323307111151901	504994	32° 32' 59.59"	111° 15' 19.6"	2043	11/6/2000	373.3	V			11/12/2020	341	V			32.3
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ2	323307111151902	504994	32° 32' 59.6"	111° 15' 19.6"	2043	11/6/2000	373.5	V			11/12/2020	341	V			32.5
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ1	323623111201201	504993	32° 36' 24.1"	111° 20' 11.8"	1850	11/6/2000	278.4	V			11/12/2020	248.8	V			29.6
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ2	323623111201202	504993	32° 36' 24.1"	111° 20' 11.8"	1850	11/6/2000	227.4	V			11/12/2020	195.1	V			32.3
TUCSON AMA	AVRA VALLEY	D-10-10 05DAD	323438111194501	624751	32° 34' 40.8"	111° 19' 43.9"	1855	11/27/2000	226.9	V			1/25/2021	195	V			31.9
TUCSON AMA	AVRA VALLEY	D-09-10 19ADD	323730111204501	615627	32° 37' 30.9"	111° 20' 42.1"	1836	11/27/2000	221.6	V			1/25/2021	199.7	V			21.9
TUCSON AMA	AVRA VALLEY	D-09-10 19AAA	323753111204601	804195	32° 37' 55.4"	111° 20' 42.9"	1840	11/27/2000	187	V			1/25/2021	184.8	V			2.2
TUCSON AMA	AVRA VALLEY	D-09-13 20DBD	323759111011501	615648	32° 37' 54.3"	111° 1' 19.5"	3340	12/1/2000	306.1	V			1/26/2021	307.6	V			-1.5
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ1	323759111201201	504992	32° 37' 58.7"	111° 20' 11.6"	1854	11/6/2000	268.1	V			11/10/2020	250.6	V			17.5
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ2	323759111201202	504992	32° 37' 58.7"	111° 20' 11.6"	1854	11/6/2000	240	V			11/10/2020	221.7	V			18.3
TUCSON AMA	AVRA VALLEY	D-09-13 07CBC	323942111030201		32° 39' 41.3"	111° 3' 0.3"	3115	3/9/2001	69.85	S			1/26/2021	123.1	V			-53.3
TUCSON AMA	AVRA VALLEY	D-09-09 01BCC PZ1	324007111224501	504989	32° 40' 9.8"	111° 22' 37.4"	1858	11/6/2000	293.5	V			11/10/2020	292.5	V			1.0
TUCSON AMA	AVRA VALLEY	D-08-11 31BBB	324157111153101	607144	32° 41' 58.5"	111° 15' 30.1"	2105	3/9/2001	449.3	V			1/28/2021	454.9	V			-5.6
TUCSON AMA	AVRA VALLEY	D-08-12 19DDA	324304111082101	804174	32° 43' 2.1"	111° 8' 16.7"	2672	12/1/2000	10.49	S			1/26/2021	20.1	S			-9.6
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 29BCC	314454111023701	623122	31° 44' 55.39"	111° 2' 35.36"	3014.8	1/23/2001	38.78	V			2/18/2021	73.95	VT		TAKEN WITH BLACK 500 AT 17:30	-35.2
TUCSON AMA	UPPER SANTA CRUZ	D-18-13 24BCB2 UNSRV	315106110583401	624011	31° 51' 2.3"	110° 58' 31.4"	2870	3/8/2001	159.3	V			2/2/2021	251.3	V			-92.0
TUCSON AMA	UPPER SANTA CRUZ	D-17-15 02DCD	315840110463701		31° 58' 40.3"	110° 46' 36.4"	3198	11/28/2000	555.2	V			1/27/2021	558.8	V			-3.6
TUCSON AMA	UPPER SANTA CRUZ	D-16-13 34AAB2	315958110595201	607785	32° 0' 2.1"	110° 59' 51.8"	2818	12/1/2000	404.2	V			1/28/2021	293.5	V			110.7
TUCSON AMA	UPPER SANTA CRUZ	D-16-14 S06CCD	320335110572701	632691	32° 3' 34.6"	110° 57' 25.9"	2580	11/29/2000	99.8	V			1/27/2021	55.8	V			44.0
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 25DBC2	320533110454901	615639	32° 5' 34.6"	110° 45' 47.8"	3029	11/28/2000	421.6	V			1/27/2021	457	V			-35.4
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ2	320402110502802		32° 4' 5.1"	110° 50' 28.4"	2867	11/28/2000	306.27	V			1/27/2021	341.17	V			-34.9
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ3	320402110502803		32° 4' 5.1"	110° 50' 28.4"	2867	11/28/2000	286.35	V			1/27/2021	311.45	V			-25.1
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ1	320732110492201		32° 7' 32.8"	110° 49' 22.9"	2842	11/28/2000	315.99	V			1/27/2021	341.79	V			-25.8
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ2	320732110492202		32° 7' 32.8"	110° 49' 22.9"	2842	11/28/2000	318.25	V			1/27/2021	342.75	V			-24.5
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ3	320732110492203		32° 7' 32.8"	110° 49' 22.9"	2842	11/28/2000	400.54	V			1/27/2021	381.34	V			19.2
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 03DAD	320910110533001	611361	32° 9' 11"	110° 53' 31"	2646	11/28/2000	409.8	V			2/2/2021	368.6	V			41.2
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 06CAA	320916110570701	616564	32° 9' 16.8"	110° 57' 6.4"	2524	11/28/2000	102.2	V			1/26/2021	96.4	V			5.8
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 06BBB1	320941110512201	621584	32° 9' 41.7"	110° 51' 24.1"	2715	11/28/2000	352.3	V			1/29/2021	369.5	V			-17.2
TUCSON AMA	UPPER SANTA CRUZ	D-14-16 19CBC	321140110451501	808558	32° 11' 44.2"	110° 45' 17.1"	2962	11/29/2000	249.6	V			1/27/2021	248.5	V			1.1
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ1	321229110553201		32° 12' 29.5"	110° 55' 32.5"	2480	11/28/2000	268	V			1/26/2021	231.8	V			36.2
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ2	321229110553202		32° 12' 29.5"	110° 55' 32.5"	2480	11/28/2000	274.1	V			1/26/2021	219.8	V			54.3
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ4	321229110553204		32° 12' 29.5"	110° 55' 32.5"	2480	11/28/2000	260.4	V			1/26/2021	232.9	V			27.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 34AAD	321546110533701	806473	32° 15' 47.1"	110° 53' 37.5"	2420	2/15/2001	174	V			2/22/2021	155.2	S			18.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30CCC2	321559110573401	620282	32° 15' 58.5"	110° 57' 35.4"	2350	2/16/2001	195.2	V			2/23/2021	175.8	V			19.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 35CCA	321514110531701	620140	32° 15' 14.8"	110° 53' 16.8"	2454	2/15/2001	271.9	V			2/22/2021	218.6	V			53.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26BBB	321647110522201	620156	32° 16' 44.5"	110° 53' 27.4"	2464	2/15/2001	70.52	S			2/22/2021	69.8	S			0.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 20CCC	321647110563301	618705	32° 16' 47.84"	110° 56' 31.64"	2348.16	11/17/2000	142.93	S			11/17/2020	142.29	VT		TAKEN AT 14:45 WITH BLACK 500	0.6
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDD	321649110564001	618684	32° 16' 48.7"	110° 56' 38.2"	2344	2/16/2001	140.4	V			2/23/2021	143.4	V			-3.0
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDB2	321653110564801	618686	32° 16' 53.6"	110° 56' 48.4"	2339	2/16/2001	130.7	V			2/23/2021	141.3	V			-10.6
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDA2	321654110564101	618723	32° 16' 54.5"	110° 56' 40.4"	2342	2/16/2001	128.7	V			2/23/2021	147.7	V			-19.0
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26DCC	321604110525601	519317	32° 15' 59.7"	110° 52' 59.1"	2421	2/15/2001	35.85	S			2/22/2021	70.3	S			-34.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26CBB2	321614110533001	519320	32° 16' 14.1"	110° 53' 28.9"	2411	2/15/2001	27.2	V			2/22/2021	61.4	S			-34.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30CAA1	321616110571001	620292	32° 16' 15.5"	110° 57' 10.6"	2357	2/16/2001	199.7	V			2/23/2021	175.2	V			24.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30BBD	321635110572602	620294	32° 16' 33.2"	110° 57' 23.5"	2345	2/16/2001	175	V			2/23/2021	165.6	V			9.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 29ABB	321639110560401	610524	32° 16' 40.3"	110° 56' 3.2"	2353	2/16/2001	151.4	V			2/22/2021	145.6	V			5.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 13BBA	321830110583201	631710	32° 18' 29.7"	110° 58' 29.9"	2398	2/16/2001	237.3	V			1/26/2021	257.1	V			-19.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 24DBD2	321703110575401	620322	32° 17' 2.5"	110° 57' 54.2"	2320	2/16/2001	142.6	B			2/23/2021	154.2	V			-11.6
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19BBB1	321735110573301	808475	32° 17' 36"	110° 57' 36.5"	2321.3	2/16/2001	119.2	V			2/23/2021	141.8	V			-22.6
TUCSON AMA	UPPER SANTA CRUZ	D-11-14 04BBC2	323029110553401	807195	32° 30' 29.3"	110° 55' 34.1"	3158	12/1/2000	229.7	V			1/26/2021	256.3	V			-26.6
TUCSON AMA	UPPER SANTA CRUZ	D-10-13 12DDA	323418110565401	615717	32° 34' 21.1"	110° 56' 56"	3430	12/1/2000	449.8	V			1/28/2021	460.6	V			-10.8
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-07-04 07BCC	335754112430301	628115	33° 57' 53.8"	112° 43' 2.7"	2055	10/18/2000	15.4	V			10/23/2020	15.3	S			0.1
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-09-05 35DBB	340440112443601		34° 4' 39.3"	112° 44' 35.3"	2640	10/18/2000	404.1	V			10/23/2020	420.3	V			-16.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-24-22 20BBA	312006110075501		31° 20' 3.7"	110° 8' 5.7"	4295	11/3/2000	37.5	V			11/4/2020	42.1	V			-4.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 25BBC	312421110041001	632053	31° 24' 19.4"	110° 4' 12.5"	4380	11/2/2000	179.4	V			11/4/2020	181.5	V			-2.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 35CDC	312803110165801	805793	31° 28' 2.9"	110° 17' 8.5"	5005	11/1/2000	33.4	V			11/3/2020	39.3	V			-5.9

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 34ACC	312832110114901	087668	31° 28' 32.1"	110° 11' 50.9"	4410	11/1/2000	196.8	V			11/4/2020	214.4	V			-17.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 36ABB	312852110155201	623583	31° 28' 52.4"	110° 15' 51.3"	4760	11/1/2000	385.3	V			11/3/2020	446.1	V			-60.8
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 07DCC	312619110084801	603003	31° 26' 19.9"	110° 8' 47.5"	4327	11/1/2000	103.5	V			11/3/2020	110.6	V			-7.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 08DDD	312620110132901	640780	31° 26' 24"	110° 13' 29.5"	4660	1/23/2001	132	V			11/5/2020	144.4	V			-12.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 06CCC2	312712110152101		31° 27' 11.3"	110° 15' 22.2"	4840	11/1/2000	6.1	V			11/3/2020	25.2	V			-19.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-22 03CBA	312347110060501	809378	31° 32' 47"	110° 6' 1.9"	4255	1/24/2001	183.1	V			11/4/2020	184.4	V			-1.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 23CBA	313009110111101	642816	31° 30' 10"	110° 11' 11.8"	4320	11/1/2000	127.6	V			11/5/2020	141.5	V			-13.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 24AAA2	313038110152701	623582	31° 30' 37"	110° 15' 25.9"	4605	11/1/2000	405.9	V			11/3/2020	437.1	V			-31.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 18DCD	313041110144301	623581	31° 30' 40.1"	110° 14' 40.3"	4549	11/1/2000	365.4	V			11/3/2020	396.7	V			-31.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-18 15CBD	313104110302901	640945	31° 31' 3.9"	110° 30' 31"	5120	11/28/2000	31.74	S			1/28/2021	45	V			-13.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-17 24AAB	313556110334801	648467	31° 35' 56.2"	110° 33' 48.1"	4965	11/29/2000	12.5	S			1/28/2021	27.7	S			-15.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-18 24BBB	313559110283601	628318	31° 36' 0.8"	110° 28' 36.6"	4827	1/24/2001	124.3	V			1/28/2021	129.4	V			-5.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 33CBB1	313341110132101	616677	31° 33' 40.4"	110° 13' 21.29"	4327	10/31/2000	187.8	V			11/4/2020	193.5	V			-5.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 31BDC	313347110150701	610123	31° 33' 42.6"	110° 15' 3.9"	4440	10/31/2000	298.8	V			11/3/2020	314.5	V			-15.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 34AAA	313404110173101	610125	31° 34' 7.1"	110° 17' 28.3"	4566	10/31/2000	463.8	V			11/3/2020	453.3	V			10.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 27CAA	313425110115401	805650	31° 34' 26.3"	110° 11' 51.4"	4250	1/24/2001	79.4	V			11/2/2020	67.8	V			11.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 SO5ABC	313825110195801	603068	31° 38' 24.4"	110° 19' 52.1"	4335	10/31/2000	210.1	V			11/2/2020	221.6	V			-11.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 16AAC1	313636910183501		31° 36' 35.15"	110° 18' 36.12"	4429.82	2/28/2001	292.8	V			6/17/2021	304.71	VT		TAKEN AT 10 WITH BLACK 500 TAPE	-11.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-22 06ACD2	313808110083801		31° 38' 9.8"	110° 8' 35.4"	4130	11/2/2000	31.46	V			11/2/2020	28.9	V			2.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-19 17BAD	314158110253901	631036	31° 41' 56.5"	110° 25' 40"	4720	11/28/2000	192.8	V			1/27/2021	212.8	V			-20.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-23 35ACD	314417109575101	616270	31° 44' 18"	109° 57' 51.4"	4880	10/30/2000	293.7	V			11/2/2020	291.6	V			2.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-22 11ADB	314239110035301	616498	31° 42' 41.5"	110° 3' 49.8"	4550	10/30/2000	414.9	V			11/2/2020	424.3	V			-9.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 07BDB	314239110204301		31° 42' 43.5"	110° 20' 41.4"	4345	2/22/2001	222.4	V			1/27/2021	231.7	V			-9.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 02DDD	314300110155401	616332	31° 43' 0"	110° 15' 53.9"	4183	10/30/2000	98.6	V			11/2/2020	104.4	V			-5.8
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-18 03CAA	314323110293901	642963	31° 43' 24.2"	110° 29' 39.8"	4895	11/28/2000	134.6	V			1/27/2021	142.6	V			-8.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-23 32DBB	314927110010301		31° 49' 28.3"	110° 1' 3.3"	4840	10/31/2000	608.5	V			11/5/2020	611.6	V			-3.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-21 12DBB2	314738110090601	616255	31° 47' 38"	110° 9' 6.7"	4044	10/31/2000	218.9	V			11/5/2020	221.4	V			-2.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-21 28DAA	315019110115001	612550	31° 50' 19.2"	110° 11' 46.5"	3745	10/31/2000	80.7	V			11/5/2020	82.6	S			-1.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-20 06BDD	315356110203001	623648	31° 54' 0.5"	110° 20' 32.6"	4440	10/30/2000	248.9	V			11/2/2020	273.3	V			-24.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-21 32BBA	315508110133401	623646	31° 55' 9.5"	110° 13' 33.1"	3697	10/31/2000	47.9	V			11/6/2020	71.8	S			-23.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-19 14ACA	315734110221301		31° 57' 31.9"	110° 22' 21"	4180	11/1/2000	543.7	V			11/6/2020	558.3	V			-14.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-16-20 34ACB	320005110170901	611018	32° 0' 8.4"	110° 17' 14.5"	3533	11/1/2000	81.64	S			11/6/2020	76.6	S			5.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 26ADC	312405110103101	553330	31° 24' 6.4"	110° 10' 36.2"	4485	11/2/2000	230.6	V			11/3/2020	243.2	V			-12.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 01DCD	313224110154301	519004	31° 32' 24.6"	110° 15' 42.7"	4500	10/31/2000	373.8	V			11/3/2020	396.4	V			-22.6
VERDE RIVER BASIN	BIG CHINO	B-17-02 06BBB	345338112311801	603912	34° 53' 40.51"	112° 31' 19.62"	4388.33	3/28/2001	132	V			2/11/2021	138.7	VT		TAKEN AT 10:43 WITH BLUE 500	-6.7
VERDE RIVER BASIN	BIG CHINO	B-17-02 20ABD	345048112292201	801489	34° 50' 49.8"	112° 29' 21.1"	4467	3/13/2001	177.2	V			3/25/2021	193.2	V			-16.0
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04CDA1	345301112283701	609267	34° 52' 56.4"	112° 28' 40.64"	4358.63	3/28/2001	103.2	V			2/17/2021	109.63	VT		TAKEN AT 12:04 WITH BLUE 500	-6.4
VERDE RIVER BASIN	BIG CHINO	B-19-03 19CDD	350059112373101	611027	35° 0' 57.7"	112° 37' 31"	4530	3/27/2001	57.9	V			4/23/2021	55.2	S			2.7
VERDE RIVER BASIN	BIG CHINO	B-19-04 10BCB	350302112404801	607026	35° 3' 2.5"	112° 40' 48.3"	4529	3/27/2001	23.6	V			3/23/2021	20.4	S			3.2
VERDE RIVER BASIN	BIG CHINO	B-19-04 10ADA	350303112395601	607043	35° 3' 2.8"	112° 39' 55.6"	4562	3/27/2001	66.5	V			3/23/2021	60.5	V			6.0
VERDE RIVER BASIN	BIG CHINO	B-20-04 30AAD	350535112432701	607032	35° 5' 41.5"	112° 43' 5.8"	4571	3/27/2001	58.4	V			3/24/2021	49.1	V			9.3
VERDE RIVER BASIN	BIG CHINO	B-21-02 14BCC	351207112283701	604624	35° 12' 7"	112° 28' 38.7"	5110	3/29/2001	996	V			4/21/2021	998.2	V			-2.2
VERDE RIVER BASIN	BIG CHINO	B-15-03 11DDB	344122112322201	569850	34° 41' 23.2"	112° 32' 20.9"	5060	3/16/2001	69	V			3/23/2021	83.9	V			-14.9
VERDE RIVER BASIN	BIG CHINO	B-15-02 31BBD	343827112304801	511301	34° 38' 25.6"	112° 30' 47.5"	5300	4/10/2001	187.9	V			3/23/2021	189.6	V			-1.7
VERDE RIVER BASIN	BIG CHINO	B-15-03 23ADC	343957112322001	526935	34° 39' 57.6"	112° 32' 19.6"	5085	3/16/2001	52.6	V			3/22/2021	67.5	V			-14.9
VERDE RIVER BASIN	BIG CHINO	B-15-03 24CCB	343938112320101	511633	34° 39' 37.8"	112° 31' 59.9"	5120	3/16/2001	85.1	V			3/23/2021	98.8	V			-13.7
VERDE RIVER BASIN	BIG CHINO	B-17-02 29AAC	344950112291101	574763	34° 49' 49.8"	112° 29' 10.5"	4605	3/13/2001	232.4	V			3/25/2021	245	V			-12.6
VERDE RIVER BASIN	BIG CHINO	B-15-03 14DCC	344022112323501	573966	34° 40' 22.3"	112° 32' 35.4"	5035	3/20/2001	3.7	V			3/23/2021	15.2	V			-11.5
VERDE RIVER BASIN	BIG CHINO	B-15-03 14AAB	344110112322201	573965	34° 41' 9.9"	112° 32' 22.7"	5050	3/20/2001	51.5	V			3/23/2021	61.5	V			-10.0
VERDE RIVER BASIN	BIG CHINO	B-15-03 14DAD	344038112321101	573968	34° 40' 37.7"	112° 32' 10.9"	5075	3/20/2001	49.7	V			3/23/2021	63.9	V			-14.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 21ACC	345030112282301	541015	34° 50' 30.1"	112° 28' 22.9"	4485	4/17/2001	112.2	V			3/25/2021	123.6	S			-11.4
VERDE RIVER BASIN	BIG CHINO	B-17-02 E02DCA	345256112261901	527679	34° 52' 56.4"	112° 26' 19.4"	4575	6/12/2001	325.1	V			5/25/2021	327.8	V			-2.7
VERDE RIVER BASIN	VERDE CANYON	A-10-10 09ACA	341338111194401	631255	34° 13' 38.4"	111° 19' 46.9"	4905	11/13/2000	66.92	V			11/16/2020	67.4	V			-0.5
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03CCD	341356111191901	512431	34° 13' 57.21"	111° 19' 19.75"	4917.63	11/13/2000	78.22	V			10/29/2020	67.7	VT		BLUE 500 09:15	10.5
VERDE RIVER BASIN	VERDE CANYON	A-10-10 05CCA	341408111212001	620875	34° 14' 8.6"	111° 21' 20.2"	4830	11/13/2000	43.4	V			11/16/2020	31	V			12.4
VERDE RIVER BASIN	VERDE CANYON	A-10-10 04DBA	341418111194901		34° 14' 18.3"	111° 19' 48.7"	4961	11/13/2000	191	V			11/16/2020	115.4	V			75.6
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03BAD1	341436111190001	512430	34° 14' 36.5"	111° 18' 59.7"	4990	11/13/2000	201.5	V			11/16/2020	146.8	V			54.7
VERDE RIVER BASIN	VERDE CANYON	A-11-10 31DAC1	341504111214601	809394	34° 15' 3.3"	111° 21' 43.8"	5060	11/13/2000	162.5	V			11/16/2020	226.1	V			-63.6
VERDE RIVER BASIN	VERDE CANYON	A-11-10 32ACD	341518111205401	650931	34° 15' 14.3"	111° 20' 51.4"	5120	11/13/2000	310.6	V			11/16/2020	289.8	V			20.8
VERDE RIVER BASIN	VERDE CANYON	A-11-10 27CCB	341547111192501	620877	34° 15' 46.7"	111° 19' 25.7"	5002	11/13/2000	149.3	V			11/16/2020	144.4	V			4.9
VERDE RIVER BASIN	VERDE CANYON	A-12-08 26DAC2	342344111280701	635775	34° 23' 41.5"	111° 28' 7.5"	5620	11/13/2000	108.9	V			11/17/2020	100.2	V			8.7
VERDE RIVER BASIN	VERDE CANYON	A-12-08 27BAC	342406111293901	570666	34° 24' 7.2"	111° 29' 47.5"	5961	11/13/2000	337.9	V			11/17/2020	322.2	V			15.7
VERDE RIVER BASIN	VERDE CANYON	A-13-07 14BBD UNSURV	343122111350401	627332	34° 31' 22.5"	111° 35' 3.9"	5955	3/30/2001	726	V			5/4/2021	721.4	V			4.6
VERDE RIVER BASIN	VERDE VALLEY	A-13-06 23BBC	343028111413801	627339	34° 30' 27.2"	111° 41' 38.3"	4410	3/26/2001	336.93	V			4/19/2021	337.4	V			-0.5
VERDE RIVER BASIN	VERDE VALLEY	A-14-04 11DAA1	343712111531301	630281	34° 37' 15.1"	111° 53' 16.6"	3200	3/9/2001	89.2	V			4/19/2021	88.9	V			0.3
VERDE RIVER BASIN	VERDE VALLEY	A-14-10 32DBD	343314111183801	611623	34° 33' 14.4"	111° 18' 38.8"	6855	6/7/2001	344	V			5/4/2021	352.2	V			-8.2
VERDE RIVER BASIN	VERDE VALLEY	A-14-04 24BCB2	343535111531001	505167	34° 35' 36.3"	111° 53' 8.6"	3121	3/8/2001	30.5	V			4/19/2021	31.3	V			-0.8
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 21CBA2	344052111560601	631840	34° 40' 52.9"	111° 56' 5.4"	3225	3/8/2001	57.85	V			4/22/2021	63.15	S			-5.3
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 20BAA	344105111503401	519065	34° 41' 5.7"	111° 50' 34.6"	3600	3/8/2001	271.2	V			4/22/2021	264.6	V			6.6
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 04AAA	343833111490101	806134	34° 38' 33.6"	111° 49' 0.7"	3480	3/8/2001	333.7	V			4/19/2021	336.7	V			-3.0
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 25DDD	343924111454901	514006	34° 39' 23.7"	111° 45' 48.6"	3580	3/5/2001	135.8	V			4/23/2021	186	V			-50.2
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 02CCB4	344312111540801	605684	34° 43' 11.4"	111° 54' 8.3"	3418	3/7/2001	96.05	V			4/22/2021	106.1	V			-10.1
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 36CDC	344359111591101	614257	34° 44' 1.21"	111° 59' 11"	3428.04	2/12/2001	61.45	V			3/3/2021	91.96	VT		TAKEN AT 15:55 WITH BLUE 500	-30.5
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 12ADB	344250111583401	630899	34° 42' 49.3"	111° 58' 32.7"	3265	3/7/2001	34.8	V			4/20/2021	49.2	V		CHECKED WITH V AND S	-14.4
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 11ABA	344258111595501	613162	34° 42' 58.3"	111° 59' 51.5"	3310	3/7/2001	64	V			4/19/2021	60.7	V			3.3
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 04DDC1	344307111552701	621154	34° 43' 8.7"	111° 55' 27.8"	3360	3/7/2001	57.6	V			4/22/2021	59.3	V			-1.7
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 19DBD	344556112040501	525162	34° 45' 56.18"	112° 4' 5.09"	3660	3/8/2001	256.3	V			4/20/2021	299.5	V			-43.2
VERDE RIVER BASIN	VERDE VALLEY	A-16-04 20BBB	344625111571401	614259	34° 46' 25.8"	111° 57' 13.3"	3730	3/8/2001	178.9	V			4/22/2021	182.3	S			-3.4
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 22DCD	344545112005401	629211	34° 45' 42.9"	112° 0' 52.71"	3421.95	3/7/2001	40	V			3/9/2021	46.14	VT		TAKEN AT 11:09 WITH BLUE 500	-6.1
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 33ADA1	344850111494801	614282	34° 48' 50.1"	111° 49' 47.8"	3860	3/6/2001	209.4	V			4/21/2021	218.4	V			-9.0
VERDE RIVER BASIN	VERDE VALLEY	A-17-06E30BBB	344957111463102		34° 49' 56.5"	111° 46' 30"	4300	3/6/2001	447.3	V			4/21/2021	457.3	V			-10.0
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 20CCC1	345001111514801		34° 50' 1.5"	111° 51' 55.1"	4040	3/6/2001	405.1	V			4/21/2021	393.6	V			11.5
VERDE RIVER BASIN	VERDE VALLEY	A-16-08 10ABC	344733111292201	641798	34° 47' 33"	111° 29' 19.9"	7370	3/30/2001	2.7	S			4/22/2021	7.9	S			-5.2
VERDE RIVER BASIN	VERDE VALLEY	A-17-01 15CDB UNSURV	345057112145201	631883	34° 50' 57.8"	112° 14' 52.3"	4540	3/15/2001	413.5	V			3/22/2021	419.1	V			-5.6
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 06ADD	345302111582201		34° 53' 1.3"	111° 58' 20.8"	4345	3/8/2001	669.5	V			4/22/2021	675.3	V			-5.8
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 01ABD	345312111532001	512462	34° 53' 14.36"	111° 53' 16.89"	4429.18	3/6/2001	729.1	V			2/4/2021	739.3	V			-10.2
VERDE RIVER BASIN	VERDE VALLEY	B-19-01 16ACB	350154112220001	645843	35° 1' 53.8"	112° 22' 47.8"	4790	3/28/2001	553.7	V			4/21/2021	557	V			-3.3
VERDE RIVER BASIN	VERDE VALLEY	A-18-07 15CCB2	345619111385501	630882	34° 56' 18.8"	111° 38' 55"	6455	3/5/2001	78.2	V			4/19/2021	118	S			-39.8
VERDE RIVER BASIN	VERDE VALLEY	A-18-06 17ACC	345644111451601	523380	34° 56' 45.9"	111° 45' 16"	4980	3/6/2001	512.8	V			4/20/2021	521.6	V			-8.8
VERDE RIVER BASIN	VERDE VALLEY	B-18-01 17AAA	345653112223701	511557	34° 56' 57.7"	112° 22' 34.6"	4643	3/28/2001	422.6	V			4/21/2021	426.1	V			-3.5
VERDE RIVER BASIN	VERDE VALLEY	A-21-04 24AAC	351121111545601	522559	35° 11' 20.8"	111° 54' 53"	6828	3/29/2001	154	V			4/21/2021	149.3	S			4.7
VERDE RIVER BASIN	VERDE VALLEY	A-22-04 14DAD2	351702111555001	565702	35° 16' 59.5"	111° 55' 47.3"	7298	3/29/2001	174.9	V			4/21/2021	143.4	V			31.5
VERDE RIVER BASIN	VERDE VALLEY	A-23-05 27AAC	352108111504801	613888	35° 21' 8.1"	111° 50' 48.1"	7661	3/29/2001	709.3	V			4/20/2021	711.8	V			-2.5
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 E17AAC	343638111501301	629124	34° 36' 37.6"	111° 50' 13.7"	3190	3/9/2001	42.5	V			4/23/2021	39.8	V			2.7
VIRGIN RIVER BASIN	VIRGIN RIVER	B-41-15 28ABD	365547113552101	536967	36° 55' 47.4"	113° 55' 21.3"	2070	10/17/2000	199.3	V			10/27/2020	202.1	V			-2.8
VIRGIN RIVER BASIN	VIRGIN RIVER	B-41-15 08ADA	365819113560701	536968	36° 58' 19.3"	113° 56' 7.2"	2284	10/17/2000	380.2	V			10/27/2020	380.3	V			-0.1
VIRGIN RIVER BASIN	VIRGIN RIVER	B-40-15 06CDD	365321113572401	540950	36° 53' 21.53"	113° 57' 25.03"	2040.93	11/15/2000	266.16	V			10/22/2020	267.84	VT		BLUE 500 09:45	-1.7
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	C-17-05 17ABC2UNSURV	315702112480401	629090	31° 57' 1.4"	112° 48' 3.2"	1660	10/18/2000	334.8	V			11/3/2020	352.7	V			-17.9
WILLCOX BASIN	WILLCOX	B-18-28 17BAA	315228109310301	505333	31° 52' 26.1"	109° 31' 1.7"	4750	11/1/2000	376.4	V			11/5/2020	386.1	V			-9.7
WILLCOX BASIN	WILLCOX	D-17-27 31CDD2	315421109380401	618485	31° 54' 22.8"	109° 38' 7.4"	4366	11/1/2000	219.9	V			11/5/2020	368.8	V			-148.9
WILLCOX BASIN	WILLCOX	D-18-27 08BAC	315318109372101	648836	31° 53' 18.7"	109° 37' 13.9"	4395	10/30/2000	216.1	V			11/2/2020	311.4	V			-95.3
WILLCOX BASIN	WILLCOX	D-17-27 28BAA	315602109360701	627815	31° 56' 2.6"	109° 36' 4.7"	4427	3/12/2001	228	V			11/5/2020	335.2	V			-107.2
WILLCOX BASIN	WILLCOX	D-17-27 01DAD	315858109323201	616193	31° 58' 56.7"	109° 32' 29.7"	4621	11/2/2000	282.1	V			11/5/2020	275	V			7.1
WILLCOX BASIN	WILLCOX	D-17-26 06BAD	315920109441601	805118	31° 59' 23.2"	109° 44' 14.4"	4254	11/1/2000	226.8	V			11/4/2020	295.4	S			-68.6
WILLCOX BASIN	WILLCOX	D-16-25 09ADD	320330109475101	574801	32° 3' 33.9"	109° 47' 46.2"	4186	11/2/2000	71.1	V			11/4/2020	100.5	S			-29.4
WILLCOX BASIN	WILLCOX	D-16-25 13CDD	320213109451601	609188	32° 2' 9.9"	109° 45' 12.2"	4227	10/31/2000	253.7	V			11/4/2020	402.9	V			-149.2
WILLCOX BASIN	WILLCOX	D-16-26 11DAA	320232109394201	809034	32° 2' 35.2"	109° 39' 39"	4374	10/31/2000	348.2	V			11/4/2020	440.6	V			-92.4
WILLCOX BASIN	WILLCOX	D-16-26 02ADD	320435109394301	609041	32° 4' 26.7"	109° 39' 39.5"	4391	3/6/2001	281.4	V			11/4/2020	324.3	V			-42.9
WILLCOX BASIN	WILLCOX	D-15-26 23DCC2	320633109393901	611586	32° 6' 30.8"	109° 39' 43.6"	4461	10/31/2000	331.5	V			11/6/2020	357.5	V			-26.0
WILLCOX BASIN	WILLCOX	D-14-26 18CAA1	321303109435201		32° 12' 59.8"	109° 43' 48.2"	4245	10/31/2000	211.2	V			11/3/2020	282	V		SE MP	-70.8
WILLCOX BASIN	WILLCOX	D-14-23 12BBB2	321414109573001	608286	32° 14' 15.7"	109° 57' 30.9"	4357	10/31/2000	259.8	V			11/2/2020	313.1	V		CHECKED 2X	-53.3
WILLCOX BASIN	WILLCOX	D-13-24 16BBB	321834109543001	805474	32° 18' 40.1"	109° 54' 33.1"	4212	10/30/2000	118.8	V			11/2/2020	156.1	V			-37.3
WILLCOX BASIN	WILLCOX	D-13-24 03ADA	322008109523401	616780	32° 20' 11.7"	109° 52' 31.8"	4219	10/30/2000	121.4	V			11/3/2020	159.2	S			-37.8
WILLCOX BASIN	WILLCOX	D-13-24 05CCB2	321941109553101	619477	32° 19' 43.7"	109° 55' 34.2"	4221	10/30/2000	135	V			11/2/2020	186.9	V			-51.9
WILLCOX BASIN	WILLCOX	D-11-24 30AAA	322718109554101	604191	32° 27' 22.1"	109° 55' 43.2"	4369	10/30/2000	288.5	V			11/3/2020	361.9	V			-73.4
WILLCOX BASIN	WILLCOX	D-11-24 18AAA	322904109553901	605414	32° 29' 7.5"	109° 55' 40"	4445	10/30/2000	361	V			1/12/2021	425.3	V			-64.3
YUMA BASIN	YUMA	C-11-24 23BCB	322737114415301		32° 27' 36.77"	114° 41' 53.71"	159.4	11/29/2000	95.8	V			10/27/2020	131.5	S			-35.7
YUMA BASIN	YUMA	C-10-25 26CDB1	323133114475501		32° 31' 36.83"	114° 47' 55.17"	88.64	11/29/2000	9.9	V			10/27/2020	31.95	S			-22.1
YUMA BASIN	YUMA	C-09-25 35CBD	323602114480401		32° 36' 1.5"	114° 48' 4.1"	104	11/29/2000	19	V			10/27/2020	25.1	V			-6.1
YUMA BASIN	YUMA	C-08-22 25DAC3	324212114274801		32° 42' 12"	114° 27' 48.2"	155	11/28/2000	15.3	V			10/26/2020	16.5	S			-1.2

Appendix 1. 20 Year Groundwater level change in Arizona - Water Years 2001 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2001	WL 2001	WL METHOD 2001	WL REMARK 2001	WL COMMENT 2001	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
YUMA BASIN	YUMA	C-08-21 21BCA	324330114252601	612897	32° 43' 28.96"	114° 25' 29.3"	169.26	2/21/2001	24.3	V			10/26/2020	24.2	S			0.1

Appendix 2

10-Year Groundwater level change in Arizona – Water Years 2011 – 2021

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
AGUA FRIA BASIN	AGUA FRIA	A-08-02 04DCD1	340338112092701		34° 3' 37.7"	112° 9' 28.2"	1943	12/13/2010	23.25	V			10/19/2020	25.05	S			-1.8
AGUA FRIA BASIN	AGUA FRIA	A-09H-02 23CCC	341118112075801	635573	34° 11' 13.5"	112° 8' 2.47"	3395.32	12/13/2010	448.9	V			10/27/2020	479.15	VT		BLUE 500 10:00	-30.3
AGUA FRIA BASIN	AGUA FRIA	A-11-02 14CAA	341959112071601	628102	34° 19' 59.5"	112° 7' 15.9"	3805	12/13/2010	68.9	V			10/19/2020	69.5	S			-0.6
AGUA FRIA BASIN	AGUA FRIA	A-12-02 23BAA	342450112071801	614181	34° 24' 50.4"	112° 7' 17.1"	3870	12/13/2010	38.1	V			10/19/2020	39.9	S			-1.8
AGUA FRIA BASIN	AGUA FRIA	A-12-01 27DBA2	342331112142501	618019	34° 23' 30.32"	112° 14' 24.85"	4483.76	3/10/2011	13.49	VT			3/3/2021	15.32	VT		BLUE 500 11:00	-1.8
AGUA FRIA BASIN	AGUA FRIA	A-12-01 26BAB1	342353112134501	802822	34° 23' 52.8"	112° 13' 44.8"	4355	12/13/2010	19.7	V			10/19/2020	21.2	S			-1.5
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-07-20 21BDB	324902110184901	613297	32° 48' 47.6"	110° 18' 29.5"	3515	11/30/2010	59.6	S			11/3/2020	65.9	V			-6.3
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-09-22 19DCC	323753110080601	627711	32° 37' 53.5"	110° 8' 6"	4280	11/30/2010	126.7	S			11/3/2020	142.8	V			-16.1
BIG SANDY BASIN	FORT ROCK	B-21-10 17CCD1	351153113214301	610506	35° 11' 57.5"	113° 21' 39.2"	5058	10/25/2010	123.2	V			10/30/2020	126.2	V			-3.0
BIG SANDY BASIN	FORT ROCK	B-22-08 15CCB	351712113065401		35° 17' 9.9"	113° 6' 53.9"	5510	10/25/2010	488	V			10/30/2020	491.7	V			-3.7
BIG SANDY BASIN	WIKIEUP	B-21-13 31DAA	340923113413401	641875	35° 9' 28.8"	113° 41' 34"	3641	10/25/2010	521.1	V			10/22/2020	519.9	V			1.2
BIG SANDY BASIN	WIKIEUP	B-16-13 36CCC	344040113351001		34° 40' 38.7"	113° 34' 46"	1877	10/25/2010	13.6	V			10/19/2020	16	S			-2.4
BIG SANDY BASIN	WIKIEUP	B-16-13 21DDD2	344220113364901	642249	34° 42' 23.3"	113° 37' 0.9"	2040	10/25/2010	97.2	V			10/19/2020	100.5	S			-3.3
BIG SANDY BASIN	WIKIEUP	B-16H-13 33DAB	344613113370901	573406	34° 46' 10.3"	113° 37' 11.1"	2078	10/25/2010	18.2	V			10/19/2020	38.4	S			-20.2
BIG SANDY BASIN	WIKIEUP	B-17-13 31DAB2	344839113412801	642234	34° 48' 42.1"	113° 41' 26.6"	2715	10/25/2010	103.5	V			10/23/2020	106.1	S			-2.6
BIG SANDY BASIN	WIKIEUP	B-19-13 19DAA1	350049113411401	637441	35° 0' 49.2"	113° 41' 14.8"	3065	10/25/2010	129.3	V			10/19/2020	151.9	S		MUD ON TAPE	-22.6
BIG SANDY BASIN	WIKIEUP	B-20-13 15BAA	350719113384201	608169	35° 7' 20.6"	113° 38' 42.4"	3300	10/25/2010	146.1	V			10/22/2020	165.2	S			-19.1
BIG SANDY BASIN	WIKIEUP	B-21-13 24BCD	351119113370801	614875	35° 11' 20.2"	113° 37' 7.9"	3630	10/25/2010	371.6	V			10/22/2020	371.9	V			-0.3
BIG SANDY BASIN	WIKIEUP	B-22-13 34DAA	351447113382601		35° 14' 47.1"	113° 38' 25.7"	3852	10/25/2010	534.2	V			10/22/2020	535.6	V			-1.4
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-09-09 04CBC	340852113122501	600587	34° 8' 52.1"	113° 12' 25.1"	2360	11/4/2010	637.4	V			10/26/2020	632.2	V			5.2
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-10 31CBA	341508113203801	809687	34° 15' 7.2"	113° 20' 40.1"	2162	11/3/2010	640.1	V			10/31/2020	640.4	V			-0.3
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-11 31BBB1	341531113265801	614664	34° 15' 31"	113° 26' 58"	1350	11/3/2010	51.78	S			10/26/2020	51.5	S			0.3
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-13-13 07DDB2	342836113391301	644225	34° 28' 37.8"	113° 39' 12.4"	1756	10/27/2010	137.4	V			10/23/2020	139.8	V			-2.4
BILL WILLIAMS BASIN	CLARA PEAK	B-11-16 32CDA	341454113565501	619413	34° 14' 54.2"	113° 56' 54.8"	615	11/4/2010	18.43	S			10/28/2020	19.7	S			-1.3
BILL WILLIAMS BASIN	CLARA PEAK	B-11-16 29AAA	341624113562401	619426	34° 16' 27.3"	113° 56' 23.6"	695	11/4/2010	99.38	S			10/28/2020	97.3	V			2.1
BILL WILLIAMS BASIN	SANTA MARIA	B-12-06 W31BAD	342044112554101	613951	34° 20' 41.8"	112° 55' 40.4"	3470	12/15/2010	93	V			10/22/2020	90.3	S			2.7
BILL WILLIAMS BASIN	SANTA MARIA	B-11-08 20ADB	341707113063901	614653	34° 17' 9.6"	113° 6' 54.9"	2600	10/25/2010	75	V			10/19/2020	78.8	S			-3.8
BILL WILLIAMS BASIN	SANTA MARIA	B-13-09 17BCC	342801113134801	611613	34° 28' 1.2"	113° 13' 48.1"	2590	10/25/2010	47.3	V			10/19/2020	50.8	S			-3.5
BILL WILLIAMS BASIN	SANTA MARIA	B-13-06 09DCD	342828112531801	625722	34° 28' 25.1"	112° 53' 14.2"	3500	12/14/2010	18.3	V			10/22/2020	24.4	S			-6.1
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 28DA UNSURV	342621112402301	613852	34° 26' 21.1"	112° 40' 22.5"	4215	12/14/2010	76.4	V			10/21/2020	80.2	S			-3.8
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 26BCC1 UNSV	342626112391401	613867	34° 26' 24.9"	112° 39' 14.6"	4350	12/14/2010	243.6	V			2/4/2021	248.6	V			-5.0
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 27AB UNSPZ2	342639112394202	613860	34° 26' 39.5"	112° 39' 40.4"	4360	12/14/2010	249.1	V			2/4/2021	249.2	V			-0.1
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ1	342709112404501	613853	34° 27' 10.5"	112° 40' 44.6"	4260	12/14/2010	105.4	V			2/4/2021	107.6	S			-2.2
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ2	342709112404502	613853	34° 27' 10.5"	112° 40' 44.6"	4260	12/14/2010	111.2	V			2/4/2021	112.8	S			-1.6
BILL WILLIAMS BASIN	SKULL VALLEY	B-12-04 06ABA2	342458112423801	631575	34° 24' 57.7"	112° 42' 38.2"	3920	12/14/2010	73.6	V			10/21/2020	75.1	S			-1.5
BILL WILLIAMS BASIN	SKULL VALLEY	B-11-05 24ADC	341653112433501	586357	34° 16' 52.58"	112° 43' 34.79"	4458.87	3/24/2011	37.93	VT			10/22/2020	55.1	S			-17.2
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 11DDD	335733113470301	614539	33° 57' 29.3"	113° 47' 0.1"	1442	11/3/2010	207.6	V			10/29/2020	306.3	V		PUMP OFF 12HRS	-98.7
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 16DCC	335635113493001		33° 56' 35.6"	113° 49' 32.2"	1346	11/3/2010	105.18	S			10/27/2020	118.7	S			-13.5
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 13DCB	335648113462101	614544	33° 56' 48"	113° 46' 26.3"	1490	11/3/2010	254.9	V			10/29/2020	361.4	V		PUMP OFF 12HRS. MEAS2X	-106.5
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 29CDC	340004113443601	807275	34° 0' 4.9"	113° 44' 35.9"	1487	11/3/2010	219.7	V			10/28/2020	236.4	V			-16.7
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 23DDD	340058113404701	614576	34° 0' 57.1"	113° 40' 45.4"	1618	11/3/2010	350.6	V			10/28/2020	354.1	V			-3.5
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 20DAB	340122113440301	633680	34° 1' 22.3"	113° 44' 3.1"	1522	11/3/2010	254.8	V			10/28/2020	265.3	V			-10.5
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-13 04DDD1	340333113363701	614575	34° 3' 33.4"	113° 36' 33.9"	1790	11/3/2010	514.1	V			10/26/2020	515.5	V			-1.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-22-15 12AAD2	313225110453301	809433	31° 32' 23.4"	110° 45' 32.7"	4041	1/12/2011	15.4	S			1/28/2021	15	S			0.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 25DDC	313933110332801	632894	31° 39' 33.4"	110° 33' 27.6"	4838	1/13/2011	124.5	S			1/27/2021	124.2	V			0.3
CIENEGA CREEK BASIN	CIENEGA CREEK	D-21-16 09ABA	313748110424501	624881	31° 37' 46.9"	110° 42' 43.5"	4420	1/12/2011	46.86	S			1/28/2021	46.5	S			0.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-18 17BCB	314150110320401	618570	31° 41' 50.7"	110° 32' 4.4"	4810	1/12/2011	173	V			1/27/2021	177.8	V			-4.8
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 24CDD	314026110334901	650922	31° 40' 26.5"	110° 33' 47.1"	4810	1/13/2011	158.34	S			1/27/2021	156	V			2.3
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 02CCC	314301110350901	608620	31° 43' 0.9"	110° 35' 12.7"	4610	1/14/2011	44.1	S			1/27/2021	44.5	S			-0.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 08BCB	314759110381001	634285	31° 47' 58.3"	110° 38' 10"	4592	1/14/2011	139.17	V			1/26/2021	138.8	S			0.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 09ABB	314808110363901	608612	31° 48' 7.03"	110° 36' 38.79"	4437.44	1/13/2011	52.47	S			1/26/2021	54.6	V			-2.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-17-18 09BCC	315816110310601	601585	31° 58' 16.3"	110° 31' 5.5"	3843	1/10/2011	94.1	S			1/26/2021	91.9	V			2.2
COCONINO PLATEAU BASIN	COCONINO PLATEAU	A-25-06 20ACC	353210111462401	613880	35° 32' 10.2"	111° 46' 22.2"	6965	11/1/2010	91.9	V			10/19/2020	90.6	V			1.3
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-25-20 15AAA	353337114235201	637009	35° 33' 38.29"	114° 23' 53.59"	2820	10/26/2010	597.7	V	P		10/29/2020	593.3	V	P		4.4
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-26-20 06ACA	354027114273101	505703	35° 40' 18.46"	114° 27' 21.47"	2499.67	6/29/2011	461.32	VT			6/24/2021	460.88	VT			0.4
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-28-21 26BBD	354728114300501	501132	35° 47' 26"	114° 30' 1.3"	2186	10/26/2010	196.9	S			10/29/2020	196.4	V			0.5
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-29-21 28DDD	355155114315101	545711	35° 51' 56.6"	114° 31' 51.3"	2000	10/26/2010	72.85	S			10/29/2020	72.5	V			0.4
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-30-20 06CAD UNSURV	360105114281101	629128	36° 0' 53.2"	114° 28' 12.5"	1337	10/26/2010	57.65	S			10/29/2020	57.7	V			-0.1
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-23-20 12DBA2	352341114215001	536683	35° 23' 41.3"	114° 21' 49.7"	3500	8/4/2011	231.5	V			10/29/2020	242.8	V			-11.3
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-27-20 09AAA	354458114245601	551185	35° 44' 57.5"	114° 24' 55.5"	2750	10/26/2010	564.4	V			10/29/2020	564.4	V			0.0
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-25-19 19DCA	353207114210301	582738	35° 32' 7.3"	114° 21' 3.1"	2973	10/26/2010	737.1	V			10/29/2020	736.5	V			0.6
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-27-20 09CBD	354424114254301	594399	35° 44' 24.1"	114° 25' 42.6"	2600	8/4/2011	509.8	V			10/29/2020	523.5	V			-13.7
DOUGLAS BASIN	DOUGLAS	D-20-25 09BDD2	314225109475401	633787	31° 42' 26.8"	109° 47' 54"	4575	11/16/2010	227.6	V			11/4/2020	282.1	V			-54.5
DOUGLAS BASIN	DOUGLAS INA	D-23-27 22DDA2	312433109344901		31° 24' 35.7"	109° 34' 48.2"	4042	11/16/2010	235.3	V			11/3/2020	259.7	V			-24.4
DOUGLAS BASIN	DOUGLAS INA	D-23-26 13CCC1	312527109395701	625680	31° 25' 24.1"	109° 39' 43.9"	4009	11/16/2010	68.8	S			11/3/2020	70.9	V			-2.1
DOUGLAS BASIN	DOUGLAS INA	D-23-28 31CCC	312248109323801		31° 22' 45.3"	109° 32' 37.4"	4042	11/17/2010	318	V			11/3/2020	352.9	V			-34.9
DOUGLAS BASIN	DOUGLAS INA	D-23-27 09DAB	312638109355901	617653	31° 26' 39.8"	109° 35' 56.8"	4055	11/16/2010	214	V			11/3/2020	240.1	V			-26.1
DOUGLAS BASIN	DOUGLAS INA	D-22-26 04DAD	313242109415501	809942	31° 32' 41.3"	109° 41' 52.8"	4095	11/16/2010	124.1	V			11/4/2020	151.1	S			-27.0
DOUGLAS BASIN	DOUGLAS INA	D-21-26 24ABB	313550109392001	632767	31° 35' 51.3"	109° 39' 15.4"	4196	11/16/2010	192.1	V			11/4/2020	206.3	V			-14.2
DOUGLAS BASIN	DOUGLAS INA	D-22-26 02AAA	313310109395501	607540	31° 33' 14.9"	109° 39' 51"	4165	11/16/2010	201.6	V			11/4/2020	238.4	V			-36.8
DOUGLAS BASIN	DOUGLAS INA	D-21-26 02CCD	313740109403801	609654	31° 37' 45.5"	109° 40' 34.1"	4141	11/17/2010	127.5	V			11/4/2020	177.2	V			-49.7
DOUGLAS BASIN	DOUGLAS INA	D-20-26 23DAA2	314039109391501		31° 40' 40.5"	109° 39' 9.3"	4169	11/16/2010	118.2	V			11/17/2020	137.6	S			-19.4
DOUGLAS BASIN	DOUGLAS INA	D-19-26 33CDA	314358109414801		31° 43' 55.2"	109° 41' 43"	4185	11/16/2010	168.1	V			11/4/2020	173.4	V			-5.3
DOUGLAS BASIN	DOUGLAS INA	D-19-26 23DAA	314557109392401	618189	31° 45' 56.6"	109° 39' 20"	4304	11/16/2010	354.4	V			11/4/2020	438.3	V			-83.9
DOUGLAS BASIN	DOUGLAS INA	D-18-26 28AAA2	315042109414301	086642	31° 50' 45.4"	109° 41' 41.6"	4268	11/16/2010	241.7	V			11/2/2020	286.9	V			-45.2
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29BDB	330845110501701	607669	33° 8' 43"	110° 50' 17.6"	2710	11/15/2010	89.7	S			11/3/2020	91.9	S			-2.2
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29AAB	330858110495101	624276	33° 8' 57.3"	110° 49' 48"	2725	11/15/2010	98.4	S			11/3/2020	102.6	S			-4.2
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 18CCD	324348109064601	628601	32° 43' 48.5"	109° 6' 46.9"	3655	12/1/2010	22.6	S			11/4/2020	23.6	S			-1.0
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 20ABB	324355109051801	509106	32° 43' 46.6"	109° 5' 20.7"	3705	12/1/2010	69.1	S			11/4/2020	71.1	V			-2.0
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 34BAC	324707109093901	607832	32° 47' 7.4"	109° 9' 38.6"	3590	12/1/2010	43.7	S			11/4/2020	50.5	S			-6.8
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 04BCC	325114109105801	600582	32° 51' 24.7"	109° 10' 57.3"	3544	12/1/2010	27	S			11/4/2020	30.6	S			-3.6
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-06-30 01BAA	325655109135001	637316	32° 56' 50.7"	109° 13' 47.4"	3645	12/1/2010	193.3	V			11/4/2020	191.5	V			1.8
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 34ADD	324142109030001	628592	32° 41' 39.6"	109° 2' 50.9"	3730	12/1/2010	49.2	S			11/4/2020	52.6	V			-3.4
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 21W 17 111	323425109022101		32° 34' 24.9"	109° 2' 21.4"	3990	12/1/2010	125.7	S	P		11/4/2020	133.2	V	P		-7.5
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 21W 01 131	323555108581601		32° 35' 53.7"	108° 58' 13.9"	4153	12/1/2010	316.8	V			11/4/2020	315.6	V			1.2
GILA BEND BASIN	GILA BEND	C-06-05 25BBA	325253112434801	609892	32° 52' 55"	112° 43' 47.7"	860	12/15/2010	322.6	V			10/29/2020	357.6	V			-35.0
GILA BEND BASIN	GILA BEND	C-06-04 12CDD	325450112371501	650671	32° 54' 50.8"	112° 37' 21.4"	973	12/14/2010	432.3	V			10/27/2020	463.1	V			-30.8
GILA BEND BASIN	GILA BEND	C-06-03 02ADD	325605112315001	807428	32° 56' 5.4"	112° 31' 49.5"	1221	12/14/2010	650.9	V			1/27/2021	676.4	V			-25.5
GILA BEND BASIN	GILA BEND	C-05-03 29AAA	325813112345301		32° 58' 12.7"	112° 34' 52.9"	1015	12/14/2010	475.4	V			1/27/2021	513.9	V			-38.5
GILA BEND BASIN	GILA BEND	C-05-05 20DCD	325816112473101	809667	32° 58' 18.1"	112° 47' 32.2"	659	12/15/2010	113.4	V			10/30/2020	170.8	V		SEE ANY NEARBY WELLS PUMPING, SO MAYBE THERE WAS	-57.4
GILA BEND BASIN	GILA BEND	C-05-03 07ABB2	330047112361401	615044	33° 0' 46.1"	112° 36' 13.5"	930	12/14/2010	407.2	V			10/27/2020	453.8	V			-46.6
GILA BEND BASIN	GILA BEND	C-05-06 17DAD	325920112533201		32° 59' 19.8"	112° 53' 32.5"	658	12/15/2010	93	V	K		1/27/2021	81.4	V	K		11.6
GILA BEND BASIN	GILA BEND	C-04-07 34CDC	330143112582201	628201	33° 1' 39.6"	112° 58' 22.4"	580	12/15/2010	28.4	S			1/27/2021	47.5	S			-19.1
GILA BEND BASIN	GILA BEND	C-03-04 15ADC	331007112390801		33° 10' 3.9"	112° 39' 13.1"	846	12/13/2010	340.7	V			10/26/2020	448.4	V			-107.7
GILA BEND BASIN	GILA BEND	C-03-05 02CBB	331143112450801		33° 11' 47"	112° 45' 8.7"	730	12/13/2010	61.3	V			10/26/2020	206.8	V			-145.5
GILA BEND BASIN	GILA BEND	C-02-04 32ADA	331246112410801	605994	33° 12' 50.4"	112° 41' 3.5"	822	12/13/2010	285.7	V			1/27/2021	383.6	V			-97.9
GRAND WASH BASIN	GRAND WASH	B-36-15 25DCD	362908113505501	801704	36° 29' 7.8"	113° 50' 57"	2739	10/27/2010	507.7	V			10/28/2020	507.7	V			0.0
GRAND WASH BASIN	GRAND WASH	B-37-15 18DBC	363620113565501		36° 36' 19"	113° 56' 54.8"	3570	10/27/2010	9.27	S			10/28/2020	9.1	V			0.2
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 14DDD	332005113022801		33° 20' 3.4"	113° 2' 23.6"	991	11/3/2010	210.7	V			10/28/2020	272.3	S			-61.6
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 34BCD	331753113041001	634099	33° 17' 51.6"	113° 4' 16.5"	1054	11/3/2010	215.6	V			10/28/2020	224.3	V			-8.7
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 06CCC2	332148113073401	606835	33° 21' 47.13"	113° 7' 28.83"	1091.2	6/8/2011	356.31	VT			6/9/2021	443.64	VT		RED 500 16:15	-87.3
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 04BDA1	332216113050501		33° 22' 18.8"	113° 5' 1.2"	1065	11/3/2010	321.3	V			10/28/2020	399.2	V			-77.9
HARQUAHALA BASIN	HARQUAHALA INA	C-01-09 18ACB	332040113131401	625970	33° 20' 41.2"	113° 13' 11.4"	1305	11/2/2010	569.2	V			10/28/2020	653.3	V			-84.1
HARQUAHALA BASIN	HARQUAHALA INA	B-01-08 19BCC	332450113073501	600200	33° 24' 50.1"	113° 7' 34.8"	1093	11/3/2010	26	V			10/27/2020	32.2	S			-6.2
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 20BBB	332513113124701	616571	33° 25' 13.7"	113° 12' 46.3"	1175	11/2/2010	73.1	V			10/27/2020	88.8	S			-15.7
HARQUAHALA BASIN	HARQUAHALA INA	B-01-08 06AAA	332749113063901	612565	33° 27' 51.7"	113° 6' 34.4"	1121	11/23/2010	402.1	V			12/3/2020	493.2	V			-91.1
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 35CBB	332819113094101	803520	33° 28' 17.9"	113° 9' 38.5"	1142	11/2/2010	36.6	V			10/27/2020	20.2	S			16.4
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 34DBB	332820113101201		33° 28' 17.7"	113° 10' 10.5"	1149	11/2/2010	433.3	V	K		10/27/2020	490.9	V	K		-57.6
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 10BBB	332658113104001	800152	33° 26' 57.6"	113° 10' 36.7"	1148	11/2/2010	367.4	V			10/27/2020	429.3	V			-61.9
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 05ABC	332743113121801	805455	33° 27' 42.5"	113° 12' 15.1"	1172	11/2/2010	88.8	V			10/27/2020	83.5	V			5.3
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 07ABB	333212113131801	627169	33° 32' 12.5"	113° 13' 17.7"	1260	11/2/2010	298	V			10/26/2020	303.3	V			-5.3
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 23ABB	333027113091001	611131	33° 30' 28.5"	113° 9' 8.1"	1169	11/2/2010	58.3	V			10/27/2020	76.9	S			-18.6
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 17DCA	333035113181701	621523	33° 30' 38.2"	113° 18' 19.5"	1295	11/2/2010	347.9	V			10/27/2020	360.2	V			-12.3
HARQUAHALA BASIN	HARQUAHALA INA	B-02-08 17CAA	333057113060701		33° 30' 54.7"	113° 6' 3.1"	1180	11/3/2010	454.4	V			10/27/2020	522.5	V		POOR READING	-68.1
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 05ABB	333301113182601	648614	33° 33' 0.35"	113° 18' 27.92"	1330.37	6/8/2011	368.5	V			6/9/2021	386.26	VT		RED 500 14:45 CARD ERROR	-17.8
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 03BBB	333305113104301	808833	33° 33' 5.2"	113° 10' 41.6"	1261	11/3/2010	514.7	V			10/26/2020	574.7	V			-60.0
HARQUAHALA BASIN	HARQUAHALA INA	B-03-11 01BCC	333802113210301	520474	33° 37' 57.7"	113° 21' 4.4"	1486	11/3/2010	514.8	V			10/26/2020	511.1	V			3.7
HARQUAHALA BASIN	HARQUAHALA INA	B-04-12 04BBD	334326113303401		33° 43' 18.9"	113° 30' 27.4"	1663.8	11/3/2010	491.8	V			10/29/2020	496.2	V			-4.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-22-16 03CBB	351907113582801	805941	35° 19' 8.5"	113° 58' 25.8"	3321	10/27/2010	584.8	V			10/22/2020	592.1	V			-7.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-23-15 30CBB	352052113551801	606421	35° 20' 52.7"	113° 55' 18.2"	3153	10/27/2010	377.8	V			10/22/2020	378.8	V			-1.0
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-22-16 28BDA	351554113590701	612659	35° 15' 52.97"	113° 59' 6.94"	3300.13	6/29/2011	584.89	VT	S		6/25/2021	600.15	VT	S	TAKEN WITH RED 1500 AT 8:30	-15.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-25-16 30CDA	353105114021001	809833	35° 31' 9.5"	114° 2' 4.4"	2945	10/27/2010	433.9	V			10/21/2020	446	V			-12.1
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-26-17 35AAA	353610114033501	600500	35° 36' 12.6"	114° 3' 39.3"	2768	10/27/2010	262.8	V			10/21/2020	275.9	V			-13.1
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-26-18 03AAA1	354036114110601	641124	35° 40' 35"	114° 11' 6"	3300	10/26/2010	557.5	V			10/21/2020	556.9	V			0.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-23-15 04DDD	352400113521401	624997	35° 24' 0.9"	113° 52' 13.4"	3172	10/27/2010	460.8	V			10/22/2020	449.9	V			10.9
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-14 33ADA	352518113454001		35° 25' 26.12"	113° 45' 49.5"	3374.85	6/28/2011	537.61	VT			6/25/2021	553.05	VT		TAKEN AT 7:45 WITH RED 1500	-15.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-16 01DDD1	352910111553001	619553	35° 29' 10.8"	113° 55' 20.9"	2961	10/26/2010	448.5	V			10/22/2020	455.3	V			-6.8
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-17 31CCC1	354552114085001	805894	35° 45' 50.6"	114° 8' 55.8"	3010	10/26/2010	651.9	V			10/21/2020	652.8	V			-0.9
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-15 01BAC	352951113493901	575024	35° 29' 50.9"	113° 49' 39"	3135	10/26/2010	618.7	V			10/22/2020	620	V			-1.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-17 31CCC2	354551114085401	208802	35° 45' 50.74"	114° 8' 54.6"	3004.87	6/30/2011	651.51	V			6/24/2021	654.12	VT		TAKEN WITH RED 1500 AT 16:00	-2.6
KANAB PLATEAU BASIN	KANAB PLATEAU	B-39-02 20CDD	364540112315501	805803	36° 45' 33.7"	112° 31' 56.5"	5272	10/28/2010	612.3	V			10/26/2020	610.4	V			1.9
KANAB PLATEAU BASIN	KANAB PLATEAU	B-39-01 18DDB	364632112261001	637621	36° 46' 28.6"	112° 26' 4.5"	5585	10/28/2010	484.7	V			10/26/2020	483	V			1.7
LAKE HAVASU BASIN	LAKE HAVASU	B-13-20 04ABB1	343007114213101	606035	34° 30' 5.9"	114° 21' 32.8"	475	10/28/2010	26.1	V			10/22/2020	27	V			-0.9
LAKE MOHAVE BASIN	LAKE MOHAVE	B-18-21 05CAC	345824114321901	510925	34° 58' 23.3"	114° 32' 20.8"	801	10/28/2010	338.2	V			10/21/2020	340	V			-1.8
LAKE MOHAVE BASIN	LAKE MOHAVE	B-20-22 24DDD	350557114334501	506309	35° 5' 57.2"	114° 33' 43.8"	905	10/28/2010	427.4	V			10/22/2020	425.8	V			1.6
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-17-20 26DBC	345023110111401	632990	34° 50' 21.54"	110° 11' 11.04"	5361.75	3/9/2011	306.28	VT			3/4/2021	308.56	VT		BLUE 500 09:15	-2.3
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-19 23DBD	345635110173801		34° 56' 32.2"	110° 17' 21.6"	5030	11/2/2010	48	V			10/21/2020	46.5	S			1.5
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-18 34DAB	345452110245401	808212	34° 54' 51.8"	110° 24' 53.4"	4968	10/13/2010	18.75	S			10/22/2020	16.3	S			2.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09ACC1	340618109550401	605035	34° 6' 19"	109° 55' 4.1"	7150	4/12/2011	52.4	V			4/20/2021	66.8	V			-14.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09ACC2	340618109550402	605048	34° 6' 18.6"	109° 55' 3.8"	7150	4/12/2011	52.7	V			4/20/2021	67.5	V			-14.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-07-27 01CDB	340135109270001		34° 1' 35"	109° 26' 59.9"	8255	10/28/2010	25.1	V			10/22/2020	34.1	S			-9.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 36CBC2	340752109581701	620708	34° 7' 52.1"	109° 58' 16.5"	6748	10/26/2010	25.61	S			10/21/2020	57.2	V			-31.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-29 33BDA	340808109165001	623223	34° 8' 8.6"	109° 16' 49.3"	6970	10/28/2010	149.6	V			10/22/2020	135.6	V			14.0

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25DDD1	340829109571601		34° 8' 28.3"	109° 57' 17.9"	6825	4/11/2011	68.4	V			4/20/2021	73.7	V			-5.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25CCB	340832109581101		34° 8' 33.1"	109° 58' 12.5"	6755	4/11/2011	81.2	V			10/20/2020	100.8	V			-19.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 24CCB	340929109581601	616613	34° 9' 30.1"	109° 58' 13"	6720	10/14/2010	28.7	S			10/21/2020	57.6	V			-28.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22ADD	340948109592901	626078	34° 9' 48.3"	109° 59' 25.9"	6770	10/13/2010	143.4	V	P		10/19/2020	135.5	V	P		7.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22AAC	340958109593201	617190	34° 9' 57.5"	109° 59' 30.7"	6720	4/11/2011	101.2	V			4/19/2021	92.6	V			8.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-24 22DBC	342006109470801	801337	34° 20' 5.8"	109° 47' 8.4"	6650	10/26/2010	709.2	V			10/20/2020	710.9	V			-1.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-28 22BDD2	342024109220301	085863	34° 20' 18.53"	109° 22' 2.42"	6062	3/9/2011	103.93	VT			3/4/2021	118.77	VT		BLUE 500 12:00	-14.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-29 20ABB	342033109174101	611373	34° 20' 33.4"	109° 17' 37.6"	6521	10/27/2010	619.75	V			10/21/2020	647.8	V			-28.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-10-25 22BBD2	341516109412401	532224	34° 15' 15.7"	109° 41' 24.5"	6931	10/26/2010	271.9	V			10/21/2020	276.8	V			-4.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-26 19DDD	342516109372701	532813	34° 25' 10.7"	109° 37' 24.5"	6310	10/27/2010	14.6	V			10/20/2020	17.1	S			-2.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-28 19BAD	342548109250301	620380	34° 25' 47.3"	109° 25' 2.3"	5920	11/3/2010	41.9	V			10/21/2020	65.8	V			-23.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-29 35AAA	342946109133501	632094	34° 29' 45.9"	109° 13' 35"	6176	10/27/2010	221	V			10/21/2020	234.3	V			-13.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 24CBC	343009110043501	604441	34° 30' 9.5"	110° 4' 35.5"	5618	10/26/2010	106.85	V			10/20/2020	94.15	S			12.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-28 29BDC	343015109234801		34° 30' 15.1"	109° 23' 47.7"	5790	10/27/2010	9.31	S			10/21/2020	26.1	S			-16.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 10CDA	343150110063001	600370	34° 31' 50.4"	110° 6' 20.7"	5632	10/26/2010	161.8	V			10/20/2020	151.7	V			10.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-27 15BDA2	343200109275801	617786	34° 32' 2.6"	109° 27' 47.7"	5840	10/27/2010	292.8	V			10/21/2020	304.5	V			-11.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-26E 18CBD2	343637109374901	810276	34° 36' 36.2"	109° 37' 52.4"	5433	10/27/2010	34.58	V			10/21/2020	37.7	S			-3.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-11 09ADC	343655111111201	637397	34° 36' 55.6"	111° 11' 13"	6905	11/2/2010	511.3	V			10/22/2020	511.8	V			-0.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-26 07BAD2	343302109372001	617800	34° 32' 53.5"	109° 37' 21"	5642	10/27/2010	177.9	V	K		10/21/2020	142.5	V	K		35.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-12 15DDC	344058111033101	631365	34° 40' 58"	111° 3' 31.2"	6503	11/2/2010	666.3	V			10/22/2020	664.2	V			2.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-23 28DCC1	343950109544001	618874	34° 39' 47.4"	109° 54' 37.7"	5350	11/4/2010	37.38	S			10/21/2020	38.9	S			-1.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-16-22 17CCD	344644110024201	607126	34° 46' 44.9"	110° 2' 41.6"	5165	11/4/2010	56.9	V			10/20/2020	60.8	V			-3.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-21 10CBA	345310110062501		34° 53' 12.36"	110° 6' 24.96"	5141	10/13/2010	56.26	S			10/22/2020	58	S			-1.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-23 07BAA	345901109564001	621425	34° 58' 55.5"	109° 56' 37.4"	5235	9/21/2011	31.3	V			10/21/2020	30.8	S			0.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-19 33CCB	345955110202501	521996	35° 0' 0.6"	110° 20' 19.6"	5150	11/2/2010	36.1	V			10/21/2020	39.5	V			-3.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-14 13ABD3	345750110482801	806154	34° 57' 49.6"	110° 48' 28.2"	5162	11/1/2010	286.9	V			10/22/2020	284.3	V			2.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-12H 13CBB	350706111014701	613868	35° 7' 5.5"	111° 1' 46.5"	5349	10/13/2010	562	V			10/22/2020	563.2	V			-1.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-16 06CDB1	350417110413301	085761	35° 4' 15.2"	110° 41' 40.9"	4830	11/1/2010	43.9	V			10/20/2020	46.2	S			-2.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-14 03AAC1	350447110502301	618121	35° 4' 47.6"	110° 50' 21.8"	5120	10/13/2010	401.4	V			10/22/2020	399	V			2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-27 25BBD2	351149109260802	628733	35° 11' 48.6"	109° 26' 8.6"	5785	11/3/2010	57.3	V			10/21/2020	62	S			-4.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-09 17ACD	351213111274001	637392	35° 12' 14.11"	111° 27' 29.83"	6434	10/12/2010	1311.6	V			10/19/2020	1309.8	V			1.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 27DCB2	351523111443801	647022	35° 15' 22.2"	111° 44' 38"	7318	4/20/2011	46.4	V			4/21/2021	45.6	S			0.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 26BDB1	351551111434701	608396	35° 15' 51"	111° 43' 47.4"	7300	10/13/2010	64.3	V			10/21/2020	73	S			-8.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 25BBC1	351556111430401		35° 15' 56.9"	111° 43' 4.8"	7322	10/13/2010	184.6	V			10/21/2020	185.7	V			-1.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 23DBC3	351620111433201		35° 16' 22.5"	111° 43' 31.4"	7332	10/13/2010	115.7	V			10/21/2020	125	S			-9.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-25-09 06CCD	353410111284001	649814	35° 34' 10.98"	111° 28' 45.95"	5379.95	10/12/2010	1587.2	V			10/20/2020	1587	V			0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-23-31 33AAB	352119109031601	628127	35° 21' 19.1"	109° 3' 16.79"	6191	11/3/2010	41.4	V			10/21/2020	45.3	S			-3.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-23-08 21ABA	352214111324601	649813	35° 22' 14.71"	111° 32' 46.42"	6923.25	10/12/2010	1960.9	V			10/20/2020	1959.5	V			1.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-23 35DDA	344929109514901	506605	34° 49' 28.8"	109° 51' 51.8"	5611	10/13/2010	307.2	V			10/22/2020	308.5	V			-1.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 03ACA	350848111381701	559571	35° 8' 46.05"	111° 38' 14.43"	6914.66	3/10/2011	926.2	V			3/3/2021	927.26	VT		BLACK 1500 14:00	-1.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-24 09ABD	345333109474501	506603	34° 53' 33.47"	109° 47' 44.28"	5595.72	3/9/2011	263.39	VT			3/4/2021	264.53	VT			-1.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-23 04CBA	343816109550401	200197	34° 38' 15.58"	109° 55' 4.06"	5493.25	3/9/2011	169.9	V			3/4/2021	168.24	VT		BLUE 500 14:00	1.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 23CAA	340941109585601	609725	34° 9' 41.4"	109° 58' 56.1"	6719	10/14/2010	28.9	S			10/21/2020	33.3	V			-4.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25ACA2	340859109573701	593730	34° 8' 59"	109° 57' 37.1"	6812	10/13/2010	158	V			10/21/2020	152.2	V			5.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 35AAA2	340820109582401	590483	34° 8' 20.2"	109° 58' 24.4"	6720	10/13/2010	26.8	S			10/21/2020	68.1	V			-41.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 26BCB	340901109591601	601140	34° 9' 0.5"	109° 59' 16.5"	6715	10/13/2010	46	V			10/20/2020	69	V			-23.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 36CDD	340736109574801		34° 7' 35.5"	109° 57' 48.4"	6800	10/13/2010	137.7	V			10/21/2020	146.6	V			-8.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22DBB	340942109594901	594566	34° 9' 41.4"	109° 59' 49.5"	6695	10/13/2010	87.1	V			10/20/2020	59.8	V			27.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 06BDD	340709109572001	578532	34° 7' 8.9"	109° 57' 19.7"	6937	10/13/2010	269.5	V			10/21/2020	267	V			2.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09DAA	340614109544501	513936	34° 6' 13.4"	109° 54' 45.2"	7202	10/12/2010	119.4	V			10/20/2020	148.9	S			-29.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10CBB	340609109544001	569560	34° 6' 10.1"	109° 54' 39.2"	7210	4/12/2011	345.5	V			4/20/2021	367.9	V			-22.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10DAA1	340614109534101	563506	34° 6' 13.5"	109° 53' 41.5"	7238	10/12/2010	72.8	V			10/21/2020	100.9	V			-28.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10DAA2	340611109533801	565161	34° 6' 11.6"	109° 53' 37.9"	7255	4/12/2011	88.5	V			4/20/2021	108.1	V			-19.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10BBB2	340634109543601	606181	34° 6' 34.2"	109° 54' 35.7"	7183	10/12/2010	107.5	V			10/22/2020	92.9	V			14.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 03CCB2	340651109543901	573600	34° 6' 51.2"	109° 54' 39.1"	7175	10/12/2010	58.2	V			10/22/2020	118.1	V			-59.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 11ABC2	340630109530001		34° 6' 29.9"	109° 53' 0.5"	7265	10/12/2010	85.7	V			10/21/2020	98.6	V			-12.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 11ABD	340628109525301		34° 6' 28.1"	109° 52' 52.9"	7281	10/12/2010	100.8	V			10/21/2020	117	V			-16.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 26ADB2	340903109582602		34° 9' 2.7"	109° 58' 26.5"	6742	10/13/2010	18	V			10/20/2020	26.3	V			-8.3
LOWER GILA BASIN	CHILDS VALLEY	C-11-06 24BDA1	322726112502001	600485	32° 27' 27.2"	112° 50' 20.3"	1420	12/21/2010	673.7	V			11/3/2020	668.4	V			5.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-10 36BCC	324628113145301	615112	32° 46' 27.8"	113° 14' 53.2"	623	12/22/2010	169.1	V			11/4/2020	173.8	V			-4.7
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-12 24ACD	324814113263501	610478	32° 48' 15.3"	113° 26' 34.9"	512	12/22/2010	295.6	V			11/4/2020	356.1	V			-60.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-18 26BCC2	324200114052301	522296	32° 42' 0.5"	114° 5' 23.5"	231	1/3/2011	45.6	V	P		10/29/2020	41.6	V	P		4.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-15 16AAA	324929113475501		32° 49' 29.2"	113° 47' 54.9"	335	1/4/2011	32.1	V			1/26/2021	34.9	S			-2.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-13 21AAA	324839113353201	803848	32° 48' 38.8"	113° 35' 31.6"	419	1/3/2011	95.1	V			10/29/2020	99.4	V			-4.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 34DCC	325117113471701		32° 51' 15.4"	113° 47' 20.5"	385	1/4/2011	80.4	V			1/26/2021	81.6	S			-1.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-20 32ACA2UNSURV	325157114200700	808688	32° 51' 46.7"	114° 20' 7.4"	410	11/3/2010	239.3	V			10/28/2020	238.2	V			1.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-12 19BBA	325353113321101		32° 53' 53.6"	113° 32' 17.7"	383	1/4/2011	34	V			10/29/2020	45.8	S			-11.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-11 14CDD	325356113214201		32° 53' 57.2"	113° 21' 41.6"	463	12/22/2010	58.1	V			11/4/2020	59.7	V			-1.6
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-14 28BAB	325300113423201	627175	32° 53' 0.5"	113° 42' 26.9"	408	1/4/2011	110.9	V			10/29/2020	117.6	S			-6.7
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 26AAA	325300113455201		32° 53' 1.2"	113° 45' 52"	410	1/4/2011	105.9	V			10/29/2020	96.4	V			9.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-08 17BDD	325422113060801	804050	32° 54' 19.8"	113° 6' 4.9"	708	12/22/2010	232.6	V			10/27/2020	229.4	V			3.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-11 34BBB	330239113232801	615043	33° 2' 39.1"	113° 23' 28.5"	603	1/4/2011	217.2	V			10/27/2020	224.1	V			-6.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-05-09 06BBB	330140113140901	633678	33° 1' 44.3"	113° 14' 11.3"	501	1/4/2011	51.2	V			10/27/2020	53	S			-1.8
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-10 22ABB	330422113164301	619482	33° 4' 23.5"	113° 16' 47.1"	605	1/4/2011	135.5	V			10/27/2020	67.6	S			67.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-10 29BCC	330822113192101	614970	33° 8' 23.8"	113° 19' 22.6"	798	1/4/2011	384.3	V			10/27/2020	432.2	V			-47.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-11 15BBA	330514113231001	618118	33° 5' 15.7"	113° 23' 15.4"	693	1/4/2011	291.9	V			10/27/2020	324.2	V			-32.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-10 02BAA	330700113154701	614990	33° 7' 0.3"	113° 15' 46.5"	732	1/4/2011	308.6	V			10/27/2020	352.6	V			-44.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-11 31DBB	330725113260201	804053	33° 7' 26.67"	113° 25' 56.91"	786.34	3/23/2011	383.11	VT			3/23/2021	409.47	VT			-26.4
LOWER GILA BASIN	WELLTON - MOHAWK	C-01-12 15CAC UNSURV	332022113285601	513721	33° 20' 21.6"	113° 28' 56.3"	1270	11/1/2010	304.81	S			10/30/2020	304.9	V			-0.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-09-19 04DAA	324014114123601	609429	32° 40' 14.1"	114° 12' 35.2"	208.1	1/3/2011	13.1	V			10/29/2020	13.9	S			-0.8
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	D-08-14 09AAD	324525110534701	615540	32° 45' 24.7"	110° 53' 46.5"	3965	11/15/2010	70	V			11/4/2020	74.6	S			-4.6
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-16 25DCD	324208110393301		32° 42' 11.1"	110° 39' 32.5"	2910	11/15/2010	492.8	V			11/4/2020	482.1	V			10.7
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-17 15DAA1	324418110350001		32° 44' 14.2"	110° 35' 10.1"	2978	11/15/2010	295.6	V			11/4/2020	294.3	V			1.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-06-16 08CBB1	325513110441001		32° 55' 26.8"	110° 44' 26.2"	2025	11/15/2010	27.5	S			11/3/2020	28.3	S			-0.8
LOWER SAN PEDRO BASIN	MAMMOTH	D-05-15 26AAD	325823110463301	612035	32° 58' 23"	110° 46' 32.9"	1925	11/15/2010	22.3	S			11/3/2020	28.3	S			-6.0
LOWER SAN PEDRO BASIN	MAMMOTH	D-13-19 23DAD2	321715110220401		32° 17' 14.3"	110° 22' 1.7"	3145	4/21/2011	35.5	V			11/5/2020	40.8	S			-5.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-15-20 10CAB2	320836110172301	808718	32° 8' 36.9"	110° 17' 23.8"	3319	11/16/2010	43.1	S			11/5/2020	44.4	S			-1.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-15-20 09AAB2	320901110175301	607752	32° 9' 2.74"	110° 17' 53.34"	3306.85	2/2/2011	32.18	VT			2/10/2021	34.1	VT		TAKEN AT 8:55 WITH BLACK 500	-1.9
LOWER SAN PEDRO BASIN	MAMMOTH	D-14-21 19CAC	321157110143001	615955	32° 11' 56.7"	110° 14' 33.3"	4210	11/16/2010	95.1	S			11/5/2020	78.8	S			16.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-13-18 02BDD	322003110283701		32° 20' 0.3"	110° 28' 34.6"	3230	10/16/2010	118.2	S			11/4/2020	124.7	S			-6.5
LOWER SAN PEDRO BASIN	MAMMOTH	D-09-15 35AAD	323644110461201	649302	32° 36' 44.8"	110° 46' 24.1"	4480	11/15/2010	41.1	S			11/3/2020	45.8	S			-4.7
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 28ACC	334452113370401	607056	33° 44' 50"	113° 37' 2.6"	1918.3	11/1/2010	312	V			10/23/2020	326.9	V			-14.9
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 19BBD2	334557113393201		33° 45' 54.2"	113° 39' 36.6"	1955	11/1/2010	380.7	V			10/23/2020	397.5	V			-16.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 32ADB	334408113313401		33° 44' 7.2"	113° 31' 32.5"	1697	11/1/2010	133.2	S			10/23/2020	121.7	V			11.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-12 19DBB	335053113224001		33° 50' 53.6"	113° 32' 49.1"	1939.09	11/1/2010	45.7	S			10/22/2020	42	S			3.7
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 12DAB1	334729113334201		33° 47' 25.01"	113° 33' 39.31"	1827.75	6/6/2011	335.13	VT			6/9/2021	310.43	VT		RED 500 13:40	24.7
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 02DBB	334818113350001		33° 48' 17.72"	113° 34' 56.6"	1861.45	6/6/2011	22.39	VT			6/9/2021	30.35	VT		RED 500 13:00	-8.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 05AAD1	334845113312201	614500	33° 48' 31.5"	113° 31' 22.1"	1907	11/1/2010	379.4	V			10/22/2020	432.7	V			-53.3
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-11 05ADD	335334113250701	804122	33° 53' 32.07"	113° 25' 8.41"	1991.42	3/24/2011	245.04	VT			10/22/2020	251.8	V			-6.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 33ABB	335449113120601	612679	33° 54' 49.3"	113° 12' 6.4"	2235	11/1/2010	638.8	V			10/21/2020	648.3	V			-9.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-12 15BBB	335211113301901	650354	33° 52' 11.6"	113° 30' 17.9"	1955	11/1/2010	428.6	V			10/22/2020	387.5	V		SUSPECT WELL HAS BEEN RECASED	41.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 15BAA	335727113045101	807721	33° 57' 26.1"	113° 4' 49.4"	2257	11/1/2010	628.7	V			10/21/2020	641.1	V			-12.4
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 08DAD2	335741113251401	506602	33° 57' 40.8"	113° 25' 13.8"	2175	11/2/2010	524.6	V			10/22/2020	547.8	V			-23.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-07 33BAD	335952112592801	614563	33° 59' 55.1"	112° 59' 31.1"	2373	11/2/2010	411	V			10/19/2020	411	V			0.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-10 36BBB	340003113154501	614567	34° 0' 3.3"	113° 15' 44.5"	2198	11/2/2010	549.7	V			10/21/2020	561.2	V			-11.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 27ABC	335535113232701	801549	33° 55' 32.7"	113° 23' 27.9"	2028	11/2/2010	260.8	V			10/22/2020	270	V			-9.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 20DDD	335545113062501	500248	33° 55' 42.9"	113° 6' 23.8"	2224	11/1/2010	671.5	V			10/21/2020	691	V			-19.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 19AAA	335633113195701	604150	33° 56' 34.3"	113° 19' 56.8"	2056	11/2/2010	360.9	V			10/21/2020	389.3	V			-28.4
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 15CDD	335635113110601	604129	33° 56' 35.3"	113° 11' 5.9"	2153	11/1/2010	566.5	V			10/21/2020	581	V			-14.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-07 17DCC	335637113002801	647309	33° 56' 36.2"	113° 0' 30.4"	2409	11/1/2010	492.6	V			10/23/2020	490.1	V			2.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-09 26CCD	340005113101801	640729	34° 0' 5.1"	113° 10' 15.4"	2191	11/2/2010	559.2	V			10/21/2020	575.4	V			-16.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 33DDA2	335407113175201	546173	33° 54' 5.7"	113° 17' 50.9"	2205	11/1/2010	538.3	V			10/22/2020	554.4	V			-16.1
MEADVIEW BASIN	MEADVIEW	B-30-16 07ADC	355959114021901	637021	36° 0' 16.5"	114° 2' 10.2"	2621	10/26/2010	133.5	S			10/21/2020	136.1	S			-2.6
MORENCI BASIN	MORENCI	D-05-30 17ABA	330016109163701	621098	33° 0' 17.1"	109° 16' 36.2"	3890	12/1/2010	503.7	V			11/4/2020	504.9	V			-1.2
MORENCI BASIN	MORENCI	A-05-30 14ABD	334954109084501	508886	33° 49' 53.8"	109° 8' 45.4"	8045	10/28/2010	78.9	V			10/22/2020	104.3	S			-25.4
MORENCI BASIN	MORENCI	A-05-30 01BBB3	335145109082901	598440	33° 51' 45"	109° 8' 28.9"	8272	10/28/2010	18	V			10/22/2020	22.5	S			-4.5
MORENCI BASIN	MORENCI	A-05-30 13DBC	334929109075301	633171	33° 49' 28.1"	109° 7' 54.7"	7999	10/28/2010	66.4	V			10/22/2020	78.8	V			-12.4
MORENCI BASIN	MORENCI	A-05-31 16DBC	334930109044701		33° 49' 30.6"	109° 4' 47.2"	7936	10/28/2010	40.11	S			10/22/2020	40.7	S			-0.6
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	B-09-19 07BBB	340836114165701	601138	34° 8' 37.3"	114° 17' 0.6"	419	11/3/2010	77.8	V			10/28/2020	77.5	V			0.3
PARKER BASIN	LA POSA PLAINS	B-02-18 09DDC	333125114065901		33° 31' 21.6"	114° 6' 57"	1495	11/3/2010	64.9	V			10/28/2020	67.5	V			-2.6
PARKER BASIN	LA POSA PLAINS	B-03-19 29BAB	333445114144601	607066	33° 34' 46.6"	114° 14' 44.8"	1008	11/3/2010	138.6	V			10/28/2020	146.2	V			-7.6
PEACH SPRINGS BASIN	PEACH SPRINGS	B-27-07 21CDC2	354220113020801		35° 42' 18.9"	113° 2' 8.5"	5694	9/28/2011	424.9	V			10/20/2020	451.4	V			-26.5
PEACH SPRINGS BASIN	PEACH SPRINGS	B-24-12 17CBC	352740113355501	609483	35° 27' 47.09"	113° 35' 37.59"	4250	10/25/2010	146.6	S			10/20/2020	161.4	S			-14.8
PHOENIX AMA	CAREFREE	A-06-04 22CCC	335036111563101	518052	33° 50' 34.59"	111° 56' 31.89"	2190	6/24/2011	56.6	V			12/14/2020	57.4	S			-0.8
PHOENIX AMA	CAREFREE	A-06-04 21DAC	335052111564701		33° 50' 51.7"	111° 56' 47.3"	2170	12/27/2010	105	V			12/14/2020	111.1	S			-6.1
PHOENIX AMA	CAREFREE	A-05-04 12CCB	334716111542501		33° 47' 17.2"	111° 54' 23.3"	2380	6/21/2011	25.9	V			12/10/2020	28.1	S			-2.2
PHOENIX AMA	CAREFREE	A-06-05 31CCC2	334850111532401	604782	33° 48' 50.4"	111° 53' 23.9"	2558	12/27/2010	268.9	V			12/18/2020	205.5	V			63.4
PHOENIX AMA	CAREFREE	A-06-05 32CCC	334852111522101	600926	33° 48' 51.2"	111° 52' 21.1"	2670	12/15/2010	357.4	V			12/18/2020	298	V			59.4
PHOENIX AMA	CAREFREE	A-06-04 23BCA	335108111551901	636832	33° 51' 8.6"	111° 55' 20"	2396	12/27/2010	148.4	V			12/14/2020	176.8	S			-28.4
PHOENIX AMA	CAREFREE	A-05-05 05CAA	334822111515401	087599	33° 48' 23.47"	111° 51' 52.03"	2670.16	2/9/2011	354.79	VT			2/18/2021	294.22	VT		TAKEN AT 14:11 WITH BLUE 500	60.6
PHOENIX AMA	EAST SALT RIVER	D-03-09 34AAA	330753111241901	619399	33° 7' 55.4"	111° 24' 17.5"	1612	12/7/2010	391.2	V			12/7/2020	379.6	V			11.6
PHOENIX AMA	EAST SALT RIVER	D-03-09 32ABA	330757111263401		33° 7' 57.9"	111° 26' 35.3"	1566	12/7/2010	345.1	V			12/7/2020	337.3	V			7.8
PHOENIX AMA	EAST SALT RIVER	D-03-08 35BAA	330757111300001	615302	33° 7' 55.7"	111° 30' 0.3"	1518	12/9/2010	295.8	V	K		12/7/2020	258	V	K		37.8
PHOENIX AMA	EAST SALT RIVER	D-03-08 26AAA	330846111302801	615294	33° 8' 45.8"	111° 29' 27.8"	1537	12/9/2010	321	V			12/7/2020	317.7	V			3.3
PHOENIX AMA	EAST SALT RIVER	D-03-09 20DAA	330916111262001	610703	33° 9' 16.5"	111° 26' 20"	1595	12/7/2010	380	V			12/8/2020	369.9	V			10.1
PHOENIX AMA	EAST SALT RIVER	D-04-09 07DBB	330547111274701	623858	33° 5' 46.7"	111° 27' 47.3"	1510	12/8/2010	271.5	V			12/7/2020	265.6	V			5.9
PHOENIX AMA	EAST SALT RIVER	D-04-08 02CCC	330617111302201	610414	33° 6' 15.1"	111° 30' 24.1"	1532	12/8/2010	240.5	V			12/7/2020	237.7	V			2.8
PHOENIX AMA	EAST SALT RIVER	D-04-09 05AAB2	330704111262601	612176	33° 7' 5.3"	111° 26' 29"	1556	12/8/2010	321.4	V			12/7/2020	318.3	V			3.1
PHOENIX AMA	EAST SALT RIVER	D-02-07 25DDD3	331313111350301	612290	33° 13' 12.5"	111° 35' 3.3"	1464	12/8/2010	278.5	V			12/7/2020	315.2	V			-36.7
PHOENIX AMA	EAST SALT RIVER	D-02-07 27DAD	331324111370001		33° 13' 23.8"	111° 37' 0.5"	1427	12/8/2010	261.1	V			12/7/2020	282.9	V			-21.8
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ2	331329111301202		33° 13' 31.3"	111° 30' 10.5"	1569	12/16/2010	380.9	V			12/21/2020	377.5	V			3.4
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ3	331329111301203		33° 13' 31.3"	111° 30' 10.5"	1569	12/16/2010	383.4	V			12/21/2020	376.9	V			6.5
PHOENIX AMA	EAST SALT RIVER	D-03-08 16DBD	331001111315801	615283	33° 9' 59.9"	111° 31' 59"	1506	12/9/2010	305.3	V			12/7/2020	302.4	V			2.9
PHOENIX AMA	EAST SALT RIVER	D-03-08 13AAA2	331033111282901	603383	33° 10' 33.4"	111° 28' 27.2"	1568	12/9/2010	363.5	V			12/8/2020	356.2	V			7.3

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	EAST SALT RIVER	D-03-08 08DDD	331037111324201	615279	33° 10' 36.7"	111° 32' 42.7"	1491	12/9/2010	304.9	V			12/7/2020	309	V			-4.1
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ1	331042111254301		33° 10' 40.5"	111° 25' 43.1"	1628	12/7/2010	420.9	V			12/10/2020	411.9	V			9.0
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ2	331042111254302		33° 10' 40.5"	111° 25' 43.1"	1628	12/7/2010	421.6	V			12/10/2020	410.3	V			11.3
PHOENIX AMA	EAST SALT RIVER	D-02-07 31CDA2	331224111403701	608807	33° 12' 23.8"	111° 40' 37.2"	1442	12/17/2010	348.7	V			12/8/2020	339.6	V			9.1
PHOENIX AMA	EAST SALT RIVER	D-02-09 36DBD	331236111223901	615235	33° 12' 40.5"	111° 22' 33.5"	1752	12/7/2010	541.9	V			12/10/2020	529.8	V			12.1
PHOENIX AMA	EAST SALT RIVER	D-02-08 33DAA	331245111314201	608535	33° 12' 44.8"	111° 31' 42.2"	1524	12/8/2010	333	V			12/8/2020	328.3	V			4.7
PHOENIX AMA	EAST SALT RIVER	D-02-06 11BCC2	331613111431101	620529	33° 16' 13.8"	111° 43' 10.7"	1316	12/16/2010	174.4	V			12/9/2020	152.2	V			22.2
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ1	331703111303401		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/7/2010	416	V			11/30/2020	406.2	V			9.8
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ2	331703111303402		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/7/2010	410.2	V			11/30/2020	364.5	V			45.7
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ3	331703111303403		33° 17' 6.6"	111° 30' 37.67"	1572.84	12/7/2010	401.8	V			11/30/2020	382.1	V			19.7
PHOENIX AMA	EAST SALT RIVER	D-02-06 06ADA	331713111462001	620524	33° 17' 13.9"	111° 46' 20.4"	1264	12/16/2010	157.9	V			12/9/2020	159.2	V			-1.3
PHOENIX AMA	EAST SALT RIVER	D-02-10 21ADB	331440111192401	615236	33° 14' 39.6"	111° 19' 22.9"	1903	12/7/2010	561.8	V			1/8/2021	572.8	V			-11.0
PHOENIX AMA	EAST SALT RIVER	D-02-07 22BBC	331446111380001	609473	33° 14' 46.68"	111° 38' 0.58"	1402.3	2/8/2011	217.63	VT			2/18/2021	189.63	VT		TAKEN AT 09:35 WITH BLUE 500	28.0
PHOENIX AMA	EAST SALT RIVER	D-02-07 17DDD	331456111390501	801577	33° 14' 55.9"	111° 39' 4.4"	1384	12/8/2010	191	V			12/7/2020	169.5	S			21.5
PHOENIX AMA	EAST SALT RIVER	D-02-10 16BCB	331532111200901	610435	33° 15' 33"	111° 20' 6.6"	1884	12/7/2010	368.9	V			12/10/2020	378.6	V			-9.7
PHOENIX AMA	EAST SALT RIVER	D-02-07 10CDD2	331548111373201	607839	33° 15' 48.3"	111° 37' 32"	1412	12/17/2010	241.1	V			12/8/2020	206.5	V			34.6
PHOENIX AMA	EAST SALT RIVER	D-02-08 E07DDD	331550111334801	619742	33° 15' 49.5"	111° 33' 46.7"	1480	12/8/2010	278.5	V			12/8/2020	224	S			54.5
PHOENIX AMA	EAST SALT RIVER	D-01-08 21ADB PZ2	331953111315002		33° 19' 53.1"	111° 31' 51.4"	1565	11/30/2010	333.4	V			11/9/2020	336.8	V			-3.4
PHOENIX AMA	EAST SALT RIVER	D-01-05 15CDD2	332008111495801	617083	33° 20' 7.13"	111° 49' 56.92"	1217.73	2/9/2011	117.74	VT			2/9/2021	130.3	VT		TAKEN AT 15:46 WITH BLUE 500	-12.6
PHOENIX AMA	EAST SALT RIVER	D-01-05 17DDA	332019111513101	625830	33° 20' 18.8"	111° 51' 30.6"	1201	12/15/2010	107	V			12/7/2020	87.2	V			19.8
PHOENIX AMA	EAST SALT RIVER	D-01-05 35ADC	331800111483501	618622	33° 17' 57.17"	111° 48' 31.15"	1235	1/25/2011	128.7	V			11/10/2020	114.2	V			14.5
PHOENIX AMA	EAST SALT RIVER	D-01-11 34BCB UNSURV	331810111134501	600936	33° 18' 9.6"	111° 13' 45.7"	2180	12/7/2010	18.4	V			1/8/2021	20.1	S			-1.7
PHOENIX AMA	EAST SALT RIVER	D-01-04 29DBB	331844111581501	626841	33° 18' 44.79"	111° 58' 15.19"	1198	12/15/2010	120.8	V			12/7/2020	113.8	V			7.0
PHOENIX AMA	EAST SALT RIVER	D-01-07 30CBC1	331846111411901	620519	33° 18' 41.7"	111° 41' 9.3"	1325	12/16/2010	223	V			12/9/2020	194.1	V			28.9
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ1	331848111334901	615222	33° 18' 51.1"	111° 33' 49.1"	1489	12/8/2010	312.3	V			11/30/2020	301.3	V			11.0
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ2	331848111334902	615222	33° 18' 51.1"	111° 33' 49.1"	1489	12/8/2010	312	V			11/30/2020	301.7	V			10.3
PHOENIX AMA	EAST SALT RIVER	D-01-04 18DBB1	332032111591201		33° 20' 28.2"	111° 59' 12.3"	1293	12/14/2010	217.2	V			12/11/2020	206.6	V			10.6
PHOENIX AMA	EAST SALT RIVER	D-01-05 14AAB	332058111483901	634676	33° 20' 57.4"	111° 48' 38.3"	1224	12/17/2010	147.4	V			12/7/2020	134.5	V			12.9
PHOENIX AMA	EAST SALT RIVER	D-01-04 08ACC1	332123111581401	517597	33° 21' 23.2"	111° 58' 13.6"	1275	12/14/2010	202.2	V			12/7/2020	196.1	V			6.1
PHOENIX AMA	EAST SALT RIVER	D-01-05 10ADD	332127111492801	624351	33° 21' 25.6"	111° 49' 26.1"	1212	12/14/2010	100.4	V			12/7/2020	98.1	S			2.3
PHOENIX AMA	EAST SALT RIVER	A-01-05 26DDD	332337111481801	607699	33° 23' 36.38"	111° 48' 18.29"	1224	12/8/2010	96.4	S			11/10/2020	105	V			-8.6
PHOENIX AMA	EAST SALT RIVER	A-01-05 29DDA	332346111512801	701744	33° 23' 47.7"	111° 51' 23.9"	1214.46	2/8/2011	91.36	VT			2/9/2021	101.7	VT		TAKEN AT 12:48 WITH BLUE 500	-10.3
PHOENIX AMA	EAST SALT RIVER	A-01-05 30BDD	332359111525701	607741	33° 24' 1.5"	111° 53' 3"	1199	12/17/2010	83.6	S			11/10/2020	88.4	V			-4.8
PHOENIX AMA	EAST SALT RIVER	D-01-04 03BBB2	332240111564201	617852	33° 22' 40.3"	111° 56' 38.4"	1182	12/8/2010	86.5	V			11/10/2020	86	V			0.5
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ1	332308111345001		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/30/2010	548.8	V			11/30/2020	559.1	V			-10.3
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ2	332308111345002		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/30/2010	553.4	V			11/30/2020	563.95	V			-10.6
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ3	332308111345003		33° 23' 7.7"	111° 34' 54.23"	1561.35	11/30/2010	514.4	V			11/30/2020	519.7	V			-5.3
PHOENIX AMA	EAST SALT RIVER	A-01-06 21BCC	332458111451001	617831	33° 25' 1.57"	111° 45' 8.46"	1285	12/8/2010	172.1	V			11/10/2020	175.2	V			-3.1
PHOENIX AMA	EAST SALT RIVER	A-01-07 23ACA	332507111361001	613969	33° 25' 6.8"	111° 36' 10.6"	1601	12/7/2010	596.1	V			12/10/2020	610.1	V			-14.0
PHOENIX AMA	EAST SALT RIVER	A-01-06 26AAA	332429111420401	621102	33° 24' 26.4"	111° 42' 5.3"	1358	12/13/2010	265.8	V			12/8/2020	263.2	V			2.6
PHOENIX AMA	EAST SALT RIVER	A-01-05 16ABA	332614111503901	607702	33° 26' 11.76"	111° 50' 42.69"	1245	1/25/2011	116.2	V			11/9/2020	143.7	V			-27.5
PHOENIX AMA	EAST SALT RIVER	A-01-07 18ACC	332547111402701	500714	33° 25' 48.8"	111° 40' 28.7"	1479	12/13/2010	388.1	V			12/8/2020	376.2	V			11.9
PHOENIX AMA	EAST SALT RIVER	A-01-06 15ACD1	332549111432601	500994	33° 25' 49.17"	111° 43' 26.2"	1356.67	2/8/2011	247.57	VT			2/9/2021	250.95	VT		TAKEN AT 15:02 WITH BLUE 500	-3.4
PHOENIX AMA	EAST SALT RIVER	A-01-05 02DDC1	332711111482601	607670	33° 27' 5.92"	111° 48' 27.26"	1259.78	2/8/2011	118.79	VT			2/9/2021	142.43	VT		TAKEN AT 13:15 WITH BLUE 500	-23.6
PHOENIX AMA	EAST SALT RIVER	A-01-06 03ADA	332746111430601	629610	33° 27' 45.4"	111° 43' 5.4"	1400	12/13/2010	281.3	V			12/9/2020	286.5	V			-5.2
PHOENIX AMA	EAST SALT RIVER	A-02-04 22BDD	333009111560401		33° 30' 8.1"	111° 56' 2.9"	1290	12/28/2010	159.2	S			12/8/2020	155.7	V			3.5
PHOENIX AMA	EAST SALT RIVER	A-02-06 33BAB1	332837111445901	620482	33° 28' 44.6"	111° 44' 45.8"	1308	12/16/2010	181.3	V			12/9/2020	199.4	V			-18.1
PHOENIX AMA	EAST SALT RIVER	A-02-04 25CDD	332855111535901	626540	33° 28' 55.51"	111° 53' 58.42"	1233.58	2/9/2011	91.11	VT			10/23/2020	97.78	V		COS E-TAPE USED; TAKEN AT 0756	-6.7
PHOENIX AMA	EAST SALT RIVER	A-02-06 28DDB	332903111441901	607739	33° 29' 3.29"	111° 44' 16.6"	1318	12/4/2010	164.4	V			11/13/2020	184.6	V			-20.2
PHOENIX AMA	EAST SALT RIVER	A-02-04 11DCC2	333127111544601	617843	33° 31' 26.8"	111° 54' 52.3"	1275	12/4/2010	331.1	V			11/13/2020	291	V			40.1
PHOENIX AMA	EAST SALT RIVER	A-03-05 28ADA	333442111502101	629249	33° 34' 36.9"	111° 50' 20"	1421	12/29/2010	281.3	V			12/9/2020	279.6	V			1.7
PHOENIX AMA	EAST SALT RIVER	A-03-04 25BBB	333448111542801	626825	33° 34' 47.72"	111° 54' 28.57"	1351.17	2/9/2011	318.58	VT			2/18/2021	288.13	VT		TAKEN AT 12:03 WITH BLUE 500	30.5
PHOENIX AMA	EAST SALT RIVER	A-03-04 21CCB2	333507111573301	626625	33° 35' 4.4"	111° 57' 33.7"	1363	12/30/2010	378.7	V			12/8/2020	335.1	V			43.6
PHOENIX AMA	EAST SALT RIVER	A-02-04 01ACC	333248111535801	626816	33° 32' 49.77"	111° 53' 57.18"	1296.92	2/9/2011	189.85	VT			10/23/2020	178.91	VT		TAKEN WITH BLUE 500 AT 0824	10.9
PHOENIX AMA	EAST SALT RIVER	A-03-04 35ADB	333338111544301	612420	33° 33' 49.2"	111° 54' 40.7"	1324	12/28/2010	225.6	V			12/9/2020	219.8	S			5.8
PHOENIX AMA	EAST SALT RIVER	A-03-04 33ACB	333340111570101	626627	33° 33' 44.9"	111° 57' 0.5"	1328	1/3/2011	353.5	V			12/8/2020	319.7	V			33.8
PHOENIX AMA	EAST SALT RIVER	A-03-05 25CAB	333427111475701	600650	33° 34' 26.1"	111° 47' 53.8"	1552	12/28/2010	418.1	V			12/14/2020	405.9	V			12.2
PHOENIX AMA	EAST SALT RIVER	A-03-04 02DAA	333755111542601	626829	33° 37' 54.2"	111° 54' 27.3"	1501	12/29/2010	372.6	V			12/9/2020	344.8	V			27.8
PHOENIX AMA	EAST SALT RIVER	A-04-04 33CBA	333848111571501	504791	33° 38' 51.3"	111° 57' 18.9"	1519	12/30/2010	437	V			12/8/2020	402	V			35.0
PHOENIX AMA	EAST SALT RIVER	A-03-05 21BBA	333546111511201	800809	33° 35' 45.1"	111° 51' 9.4"	1432	12/28/2010	275	V			12/14/2020	258.8	V			16.2
PHOENIX AMA	EAST SALT RIVER	A-03-04 11CBA	333705111552201	626838	33° 37' 5.2"	111° 55' 21.24"	1449.03	2/9/2011	264.48	VT			2/18/2021	267.2	VT		TAKEN AT 12:28 WITH BLUE 500	-2.7
PHOENIX AMA	EAST SALT RIVER	A-04-04 13AAB1	334150111533901	626834	33° 41' 48.59"	111° 53' 39.74"	1945.08	2/9/2011	816.38	VT			2/18/2021	798.47	VT		TAKEN AT 13:43 WITH BLUE 1500	17.9
PHOENIX AMA	EAST SALT RIVER	A-04-03 13BAA	334154112001401	503959	33° 41' 53.7"	112° 0' 17.1"	1617	12/28/2010	498.7	V			12/16/2020	483	V			15.7
PHOENIX AMA	EAST SALT RIVER	A-05-04 17BCD1	334646111583301	600030	33° 46' 42.69"	111° 58' 29.82"	1955.72	1/6/2011	804.35	VT			12/10/2020	806.7	V			-2.4
PHOENIX AMA	EAST SALT RIVER	A-05-04 33DAA	334359111563401	600117	33° 43' 58.54"	111° 56' 34.51"	1976.25	10/21/2010	851.09	VT			10/14/2020	842.64	VT		BLACK 1500 15:00	8.5
PHOENIX AMA	EAST SALT RIVER	A-05-04 05DCB	334804111580601	800785	33° 48' 4.7"	111° 58' 6.4"	1995	12/27/2010	790	V			12/18/2020	821.9	V			-31.9
PHOENIX AMA	EAST SALT RIVER	A-06-03 05ADA	335350112035301	623536	33° 53' 50.4"	112° 3' 52.8"	2118	6/6/2011	125.2	V			12/1/2020	162.4	V			-37.2
PHOENIX AMA	EAST SALT RIVER	A-01-07 33CCC	332247111385601	505767	33° 22' 46.2"	111° 38' 56.1"	1420	12/13/2010	351.5	V			12/8/2020	335.9	V			15.6
PHOENIX AMA	EAST SALT RIVER	D-01-06 11CDD2	332102111424501	620513	33° 21' 2"	111° 42' 44.5"	1295	12/16/2010	221.7	V			12/9/2020	195	V			26.7
PHOENIX AMA	EAST SALT RIVER	A-06-03 16BBB	335216112034601	506979	33° 52' 17"	112° 3' 45.7"	2010	12/27/2010	216.4	V			12/14/2020	273.7	V			-57.3
PHOENIX AMA	EAST SALT RIVER	D-01-04 10BDD2	332125111561201	582989	33° 21' 27.4"	111° 56' 13.2"	1195	12/14/2010	90.4	V			12/7/2020	85.2	S			5.2
PHOENIX AMA	EAST SALT RIVER	D-01-07 06CCA	332204111410001	575993	33° 22' 4.4"	111° 41' 0.1"	1345	12/13/2010	264.5	V			12/8/2020	265.7	V			-1.2
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 30BAD	333447111402901		33° 34' 46.9"	111° 40' 28.7"	1365	12/28/2010	14.3	S			12/7/2020	14.7	S			-0.4
PHOENIX AMA	FOUNTAIN HILLS	A-03-06 23DCB2	333505111422101	604787	33° 35' 7.9"	111° 42' 27.3"	1516	12/28/2010	174.9	V			12/16/2020	190.5	V			-15.6
PHOENIX AMA	FOUNTAIN HILLS	A-02-07 02BAA	333309111362501	600880	33° 33' 10"	111° 36' 24.6"	1365	12/13/2010	61.1	V			12/9/2020	63.3	S			-2.2
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 06CDA	333746111403101		33° 37' 44.7"	111° 40' 33.4"	1415	12/28/2010	30.3	S			12/7/2020	31.5	S			-1.2
PHOENIX AMA	FOUNTAIN HILLS	A-05-06 27ADD	334500111430501	508186	33° 45' 1.4"	111° 43' 4.1"	1960	12/27/2010	186	V			12/15/2020	181	S			5.0
PHOENIX AMA	FOUNTAIN HILLS	A-05-06 21CBD2	334538111445301	546482	33° 45' 38.9"	111° 44' 52.9"	2235	12/27/2010	336.3	V			12/15/2020	348	V			-11.7
PHOENIX AMA	HASSAYAMPA	C-02-05 08ABA	331637112470901	604278	33° 16' 39.7"	112° 47' 4.1"	773	12/16/2010	48.2	V			11/30/2020	86.6	V			-38.4
PHOENIX AMA	HASSAYAMPA	C-02-05 16DAA	331518112454801	805914	33° 15' 17.4"	112° 45' 49.6"	762	12/14/2010	25.3	S			11/30/2020	58.5	V			-33.2
PHOENIX AMA	HASSAYAMPA	C-01-05 17DDA	332015112465001	802217	33° 20' 14.1"	112° 46' 48.8"	834	7/20/2011	44.15	S			11/30/2020	47	V			-2.9
PHOENIX AMA	HASSAYAMPA	C-01-05 28AAB	331907112455901	605129	33° 19' 8.1"	112° 46' 1.1"	787	12/16/2010	59.9	S			11/30/2020	98.8	V			-38.9
PHOENIX AMA	HASSAYAMPA	C-01-07 14BBB	332053112570801	604464	33° 20' 53.2"	112° 57' 9.8"	938	12/16/2010	247.5	V			11/30/2020	270.7	V			-23.2
PHOENIX AMA	HASSAYAMPA	C-01-05 03BAA1	332236112452001		33° 22' 38.3"	112° 45' 19.9"	928	12/14/2010	89.8	S			11/30/2020	97.7	V			-7.9
PHOENIX AMA	HASSAYAMPA	B-01-06 23DCD	332427112501301	808647	33° 24' 26.1"	112° 50' 14.8"	987	12/14/2010	151.9	V			12/1/2020	150	V			1.9
PHOENIX AMA	HASSAYAMPA	B-01-05 10BBC	332648112454301	614389	33° 26' 47.68"	112° 45' 45.08"	1010.81	3/17/2011	45.67	VT			2/9/2021	48.25	VT		BLUE 500 14:20	-2.6
PHOENIX AMA	HASSAYAMPA	B-01-04 08AAA	332654112403801	802331	33° 26' 53.9"	112° 40' 38"	1091	12/14/2010	208.7	V			12/2/2020	224.8	V			-16.1
PHOENIX AMA	HASSAYAMPA	B-01-06 01ABB	332752112492301	803547	33° 27' 52"	112° 49' 24.9"	1083	12/14/2010	117.7	S			12/1/2020	119.2	V			-1.5
PHOENIX AMA	HASSAYAMPA	B-02-06 33CAA	332817112523401	617446	33° 28' 17.9"	112° 52' 32.7"	1075	12/14/2010	107.3	S			12/1/2020	75	V			32.3
PHOENIX AMA	HASSAYAMPA	B-01-06 03BBC	332740112515801	800798	33° 27' 44.3"	112° 51' 54.4"	1069	12/14/2010	102.1	S			12/1/2020	95.3	V			6.8
PHOENIX AMA	HASSAYAMPA	B-01-04 05AAA	332745112404501	802329	33° 27' 46.04"	112° 40' 43.55"	1138.63	3/17/2011	224.91	VT			2/9/2021	234.31	VT		BLUE 500 15:00	-9.4
PHOENIX AMA	HASSAYAMPA	B-02-07 20CDD	332939112594901	600209	33° 29' 38.2"	112° 59' 49.9"	1189	2/3/2011	198.9	V			12/2/2020	185.8	V			13.1
PHOENIX AMA	HASSAYAMPA	B-02-06 24BDD	333006112492701	639855	33° 30' 5.6"	112° 49' 25.6"	1156	12/16/2010	185.2	V			12/2/2020	185	V			0.2
PHOENIX AMA	HASSAYAMPA	B-02-05 29DAC	332858112470701	804481	33° 28' 58.3"	112° 47' 6.6"	1125	12/16/2010	145.4	V			12/1/2020	146	V			-0.6
PHOENIX AMA	HASSAYAMPA	B-02-05 25BAB	332924112433301	588466	33° 29' 33.4"	112° 43' 25.3"	1149	12/16/2010	152.3	V			12/9/2020	152.4	V			-0.1
PHOENIX AMA	HASSAYAMPA	B-03-06 30BAD	333442112544001	636337	33° 34' 42.6"	112° 54' 41.1"	1322	12/16/2010	422.3	V			12/2/2020	360.2	V			62.1
PHOENIX AMA	HASSAYAMPA	B-02-08 01AAC	333252113013801	501700	33° 32' 55.5"	113° 1' 36.2"	1380	2/3/2011	371.9	V			12/1/2020	365.4	V			6.5
PHOENIX AMA	HASSAYAMPA	B-03-06 35AAA	333353112500201	524266	33° 33' 55.9"	112° 49' 59.2"	1288	12/16/2010	372.4	V			12/2/2020	335.2	V			37.2
PHOENIX AMA	HASSAYAMPA	B-03-04 07BBB	333724112423601	517028	33° 37' 23.6"	112° 42' 36.9"	1402	12/14/2010	154.4	S			12/9/2020	183.9	V			-29.5
PHOENIX AMA	HASSAYAMPA	B-04-04 19BAC	334052112421901	800517	33° 40' 49.3"	112° 42' 21.4"	1415	12/14/2010	171.3	S			12/9/2020	170.8	V			0.5
PHOENIX AMA	HASSAYAMPA	B-04-05 22AAA	334056112445001	516565	33° 40' 55.9"	112° 44' 47.7"	1530	12/17/2010	275.2	V			12/9/2020	282.7	V			-7.5
PHOENIX AMA	HASSAYAMPA	B-05-06 25BDC	334452112502801	609851	33° 44' 49.2"	112° 50' 25.9"	1726	12/17/2010	462.2	V			12/10/2020	460.3	V			1.9
PHOENIX AMA	HASSAYAMPA	B-05-04 24CCC	334513112380501	801046	33° 45' 12.4"	112° 38' 6"	1718	12/17/2010	424.8	V			12/10/2020	438.2	V			-13.4
PHOENIX AMA	HASSAYAMPA	B-05-04 20CCC	334514112422001	504783	33° 45' 14.4"	112° 42' 21.7"	1700	12/17/2010	397.5	V			12/10/2020	413	V			-15.5
PHOENIX AMA	HASSAYAMPA	B-04-05 07CBB	334212112485101	516564	33° 42' 10.7"	112° 48' 53"	1581	12/17/2010	353	V			12/9/2020	349.1	V			3.9
PHOENIX AMA	HASSAYAMPA	B-04-06 04DBA	334259112522001	505244	33° 43' 1.2"	112° 52' 20.8"	1700	12/17/2010	466.3	V			12/10/2020	462.9	V			3.4
PHOENIX AMA	HASSAYAMPA	B-04-05 01CBA	334306112433801	516563	33° 43' 7.01"	112° 43' 36.67"	1600.64	3/24/2011	332.27	VT			2/11/2021	337.05	VT		RED 500 12:30	-4.8
PHOENIX AMA	HASSAYAMPA	B-04-05 05ABB	334325112472001	802175	33° 43' 25.5"	112° 47' 19.8"	1617	12/17/2010	375.6	V			12/9/2020	373.2	V			2.4
PHOENIX AMA	HASSAYAMPA	B-05-06 10CDD	334703112521901	629322	33° 47' 1.9"	112° 52' 19"	1916	12/17/2010	656.7	V			12/10/2020	654.3	V			2.4
PHOENIX AMA	HASSAYAMPA	B-06-04 23BBA	335113112390301	633262	33° 51' 12.2"	112° 39' 2.1"	1835	5/5/2011	125.2	V			12/8/2020	131.8	V			-6.6
PHOENIX AMA	HASSAYAMPA	B-06-08 20ADC	335124113063701	614493	33° 50' 54.1"	113° 6' 37.3"	2199	11/23/2010	259.2	V			10/26/2020	258.3	V			0.9
PHOENIX AMA	HASSAYAMPA	B-06-04 11BBB	335303112391601	800585	33° 53' 0.9"	112° 39' 15.7"	1970	12/10/2010	182.8	V			12/9/2020	189.8	V			-7.0
PHOENIX AMA	HASSAYAMPA	C-01-06 12AAD	332137112490001	598717	33° 21' 37.5"	112° 49' 0"	905	3/17/2011	87.64	VT			11/30/2020	93	V			-5.4
PHOENIX AMA	LAKE PLEASANT	A-06-02 29DAD	334953112101001	800512	33° 49' 53"	112° 10' 15.69"	1713	12/9/2010	208.4	V			12/9/2020	211.1	V			-2.7
PHOENIX AMA	LAKE PLEASANT	A-05-02 10ABA	334750112082001	614028	33° 47' 49.6"	112° 8' 24.1"	1655	12/9/2010	274.6	V			12/1/2020	276	V			-1.4
PHOENIX AMA	LAKE PLEASANT	A-05-01 10AAB	334750112142901	614032	33° 47' 45.6"	112° 14' 25.5"	1570	12/10/2010	204.9	V			12/1/2020	204.9	V			0.0
PHOENIX AMA	LAKE PLEASANT	A-05-02 04CAB	334814112094701	623553	33° 48' 13.5"	112° 9' 46.8"	1615	12/9/2010	213.3	V			12/9/2020	213.6	V			-0.3
PHOENIX AMA	LAKE PLEASANT	A-07-02 25BCA1	335526112065001	223609	33° 55' 25.3"	112° 6' 49.1"	2070	12/10/2010	22.3	S			12/8/2020	28.9	V			-6.6
PHOENIX AMA	LAKE PLEASANT	A-07-02 27ABA	335544112082201	623759	33° 55' 43.7"	112° 8' 21.5"	2062	6/9/2011	19	V			12/1/2020	29.9	V			-10.9
PHOENIX AMA	LAKE PLEASANT	A-07-02 24BDA	335623112063601	565329	33° 56' 23.1"	112° 6' 37.3"	2160	12/10/2010	53.2	S			12/1/2020	72.4	S			-19.2
PHOENIX AMA	LAKE PLEASANT	A-06-02 16ACC	335155112093301	572510	33° 51' 52.8"	112° 9' 35.6"	1846	6/9/2011	240.1	V			12/9/2020	237.1	V			3.0
PHOENIX AMA	LAKE PLEASANT	A-06-01 20DDC	335028112163001		33° 50' 28.5"	112° 16' 29.8"	1570	12/9/2010	88.1	V			12/8/2020	89.2	V			-1.1
PHOENIX AMA	RAINBOW VALLEY	D-04-01 28CDD	330239112155201	600522	33° 2' 37.6"	112° 15' 45.6"	1338	12/21/2010	443.2	V			12/8/2020	442.5	V			0.7
PHOENIX AMA	RAINBOW VALLEY	D-04-01 14CDD	330423112134401	804031	33° 4' 22.7"	112° 13' 44.3"	1288	1/4/2011	388.6	V			12/8/2020	394.8	V			-6.2
PHOENIX AMA	RAINBOW VALLEY	C-04-01 23CDB	330338112200201	639910	33° 3' 37.7"	112° 20' 1.8"	1345	11/17/2010	493.8	V			12/8/2020	497.6	V			-3.8
PHOENIX AMA	RAINBOW VALLEY	D-04-01 10DCC	330515112144101		33° 5' 14.7"	112° 14' 41.6"	1275	1/4/2011	410.8	V			12/8/2020	416.9	V			-6.1
PHOENIX AMA	RAINBOW VALLEY	D-03-01 31CCC	330700112181801		33° 6' 59.4"	112° 18' 18.2"	1214.4	12/21/2010	366.6	V			12/21/2020	371.8	V			-5.2
PHOENIX AMA	RAINBOW VALLEY	C-02-01 30AAA	331354112233301	610920	33° 13' 55.79"	112° 23' 30.89"	1103	1/6/2011	293.6	V			12/2/2020	345.5	V			-51.9
PHOENIX AMA	RAINBOW VALLEY	C-03-01 07ACC	331057112235801		33° 10' 54"	112° 24' 0.6"	1153	12/21/2010	318	V			12/7/2020	355.7	V			-37.7
PHOENIX AMA	RAINBOW VALLEY	D-03-01 07BBB2	331114112181701	615271	33° 11' 15.2"	112° 18' 15.6"	1272.3	12/20/2010	432.9	V			12/7/2020	438.3	V			-5.4
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33CDD	331214112215501	625645	33° 12' 18"	112° 21' 57.7"	1142	12/20/2010	242.5	V			12/7/2020	261.7	V			-19.2
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33AAA	331300112213201	605576	33° 13' 3.2"	112° 21' 26.6"	1169	12/10/2010	357.6	V			12/7/2020	378.1	V			-20.5
PHOENIX AMA	RAINBOW VALLEY	C-02-02 27CCC	331307112273001	803879	33° 13' 4.8"	112° 27' 35.7"	1135	1/4/2011	394.6	V			12/4/2020	439.3	V			-44.7
PHOENIX AMA	RAINBOW VALLEY	C-02-02 25CCC	331311112252901	607451	33° 13' 5.09"	112° 25' 32.5"	1078	1/4/2011	303.7	V			12/3/2020	279	V			24.7
PHOENIX AMA	RAINBOW VALLEY	C-02-02 05CDC	331637112291301	800972	33° 16' 34"	112° 29' 24.89"	990	1/5/2011	305.5	V			12/2/2020	367.2	V			-61.7
PHOENIX AMA	RAINBOW VALLEY	C-02-01 20BAD	331435112230201		33° 14' 39.2"	112° 22' 59.7"	1130	1/5/2011	336	V			12/2/2020	361.7	V			-25.7
PHOENIX AMA	WEST SALT RIVER	C-01-02 19ACD1	331937112292701	611625	33° 19' 37.5"	112° 29' 26.89"	922	1/19/2011	75.2	V			12/2/2020	78.9	V			-3.7
PHOENIX AMA	WEST SALT RIVER	D-01-02 16CDD	332002112093601	626598	33° 20' 3"	112° 9' 36.4"	1071	12/6/2010	58.1	S			12/2/2020	61.5	S			-3.4
PHOENIX AMA	WEST SALT RIVER	C-01-03 14DAD	332016112311601	618942	33° 20' 16"	112° 31' 15.9"	888	1/19/2011	47.4	V			12/2/2020	49.8	V			-2.4
PHOENIX AMA	WEST SALT RIVER	C-01-04 26ABB	331906112380001	628186	33° 19' 4.9"	112° 37' 59.8"	823	1/5/2011	26.2	V			12/2/2020	27	V			-0.8
PHOENIX AMA	WEST SALT RIVER	C-01-03 02DAD	332203112311801	619811	33° 22' 3.9"	112° 31' 14.9"	862	12/9/2010	15.7	S			12/7/2020	21.2	V			-5.5
PHOENIX AMA	WEST SALT RIVER	C-01-02 06ADD	332218112291001	619807	33° 22' 18.2"	112° 29' 9.2"	876	12/9/2010	22.9	S			12/7/2020	33	V			-10.1
PHOENIX AMA	WEST SALT RIVER	C-01-03 06BCB	332223112362201	619815	33° 22' 20.4"	112° 36' 25.6"	879	12/9/2010	36.5	V			12/7/2020	45.1	V			-8.6
PHOENIX AMA	WEST SALT RIVER	C-01-02 17AAD2	332047112281501	804376	33° 20' 47.29"	112° 28' 15.39"	918	7/21/2011	68.8	V			3/23/2021	74.4	S			-5.6

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	WEST SALT RIVER	C-01-03 08CBD	332113112351301		33° 21' 8.73"	112° 35' 11.37"	839.66	1/5/2011	14.6	S			12/2/2020	17.7	S			-3.1
PHOENIX AMA	WEST SALT RIVER	D-01-02 07ADD	332121112110901	626355	33° 21' 20.5"	112° 11' 8.8"	1020	12/7/2010	25.8	S			12/2/2020	35.1	S			-9.3
PHOENIX AMA	WEST SALT RIVER	C-01-04 07BDD	332125112420301	619803	33° 21' 20.5"	112° 42' 9.7"	867	12/9/2010	34	V			12/7/2020	40.1	S			-6.1
PHOENIX AMA	WEST SALT RIVER	D-01-02 02DCC1	332147112073001	638505	33° 21' 47.6"	112° 7' 29.9"	1100	12/6/2010	79.4	S			12/2/2020	96.8	V			-17.4
PHOENIX AMA	WEST SALT RIVER	B-01-03 34BBB1	332330112331901	607172	33° 23' 30.5"	112° 33' 19.6"	917	12/7/2010	66.8	V			12/8/2020	70.2	V			-3.4
PHOENIX AMA	WEST SALT RIVER	B-01-01 29DDA2	332342112223201	619782	33° 23' 39.7"	112° 22' 29.29"	916.24	12/9/2010	26	S			12/7/2020	32	V			-6.0
PHOENIX AMA	WEST SALT RIVER	B-01-02 28CBD	332348112283201	619794	33° 23' 49.8"	112° 28' 32"	890	12/9/2010	32.5	S			12/7/2020	43.5	S			-11.0
PHOENIX AMA	WEST SALT RIVER	C-01-04 06BBA	332236112422901	607189	33° 22' 38.64"	112° 42' 24.97"	919.17	3/17/2011	63.49	VT			2/9/2021	72.24	VT		BLUE 500 13:45	-8.8
PHOENIX AMA	WEST SALT RIVER	C-01-04 03ABB	332238112385901		33° 22' 38.79"	112° 38' 59.7"	900	1/19/2011	52.3	V			12/2/2020	61.3	V			-9.0
PHOENIX AMA	WEST SALT RIVER	A-01-02 35DDD	332243112065801	604323	33° 22' 41.9"	112° 6' 57.59"	1084	12/6/2010	90.6	V			12/2/2020	116	V			-25.4
PHOENIX AMA	WEST SALT RIVER	A-01-02 33CBD	332254112095001	502420	33° 22' 54.09"	112° 9' 51.4"	1008	12/6/2010	32.3	S			12/2/2020	53	S			-20.7
PHOENIX AMA	WEST SALT RIVER	B-01-04 31BCD	332302112423001	607190	33° 23' 5.3"	112° 42' 25"	928	12/7/2010	66.6	V			12/8/2020	76.8	V			-10.2
PHOENIX AMA	WEST SALT RIVER	A-01-03 33ADB	332316112025201	626563	33° 23' 17.79"	112° 2' 56.79"	1138	12/3/2010	121	V			11/9/2020	142.1	V			-21.1
PHOENIX AMA	WEST SALT RIVER	B-01-03 21DBB	332452112335001	605474	33° 24' 49.59"	112° 33' 50.55"	993.68	3/17/2011	151	VT			2/9/2021	153.6	VT		BLUE 500 12:30	-2.6
PHOENIX AMA	WEST SALT RIVER	A-01-03 21ACC	332455112031801	626523	33° 24' 56.03"	112° 3' 17.91"	1081	12/7/2010	68.1	S			12/2/2020	97.2	S			-29.1
PHOENIX AMA	WEST SALT RIVER	B-01-02 23AAB1	332515112254401	605111	33° 25' 15.18"	112° 25' 45.06"	943.51	1/6/2011	67.8	V			12/1/2020	85.1	V			-17.3
PHOENIX AMA	WEST SALT RIVER	B-01-04 27ABB	332416112390101	604631	33° 24' 17"	112° 39' 1.5"	988	1/19/2011	116.2	V			12/1/2020	133.9	V			-17.7
PHOENIX AMA	WEST SALT RIVER	A-01-03 28ABD	332422112025001	626567	33° 24' 15.09"	112° 3' 9.89"	1088	12/3/2010	73.1	V			11/9/2020	96.5	V			-23.4
PHOENIX AMA	WEST SALT RIVER	A-01-01 21DDA5	332436112151801	607464	33° 24' 35.9"	112° 15' 17.4"	993	1/18/2011	52	V			11/30/2020	61.5	V			-9.5
PHOENIX AMA	WEST SALT RIVER	B-01-03 19CBB	332445112362501	607153	33° 24' 46.2"	112° 36' 25.7"	995	12/7/2010	131.4	V			12/8/2020	136.1	V			-4.7
PHOENIX AMA	WEST SALT RIVER	B-01-01 07CAA2	332633112240801	607164	33° 26' 33.8"	112° 24' 7.4"	983	12/7/2010	107.9	V			12/8/2020	119.6	V			-11.7
PHOENIX AMA	WEST SALT RIVER	A-01-03 14CCC	332521112014401	522890	33° 25' 21.6"	112° 1' 43.57"	1102	12/7/2010	71.1	S			12/2/2020	94	V			-22.9
PHOENIX AMA	WEST SALT RIVER	A-01-04 18DAD	332532111584001	700244	33° 25' 32.12"	111° 58' 39.99"	1130.44	12/14/2010	31.1	V			12/7/2020	34.3	V			-3.2
PHOENIX AMA	WEST SALT RIVER	B-01-03 14DBB	332542112314201	618447	33° 25' 41.9"	112° 31' 42.1"	1024	1/6/2011	194.3	V			12/1/2020	212.4	V			-18.1
PHOENIX AMA	WEST SALT RIVER	A-01-03 18BBC	332600112054801	607207	33° 25' 59.4"	112° 5' 51.7"	1058	12/7/2010	81.5	V			12/8/2020	109.5	V			-28.0
PHOENIX AMA	WEST SALT RIVER	B-01-02 16BBB	332607112284001	625579	33° 26' 7.58"	112° 28' 40.22"	988.37	1/5/2011	132	V			12/1/2020	146.5	V			-14.5
PHOENIX AMA	WEST SALT RIVER	A-01-01 07CCD	332609112181501	600101	33° 26' 9.5"	112° 18' 13.9"	987	1/6/2011	68.1	V			11/30/2020	78.7	V			-10.6
PHOENIX AMA	WEST SALT RIVER	A-02-01 31DAA	332816112172301	619314	33° 28' 18.15"	112° 17' 22.15"	1018	12/1/2010	114.5	V			11/12/2020	125	V			-10.5
PHOENIX AMA	WEST SALT RIVER	B-01-01 10AAA2	332658112202701	607158	33° 26' 58.8"	112° 20' 26.15"	982.22	12/7/2010	87.1	V			12/8/2020	92.3	V			-5.2
PHOENIX AMA	WEST SALT RIVER	A-01-02 09AAB2	332702112091601	607201	33° 27' 4.13"	112° 9' 14.72"	1060.3	12/7/2010	117.8	V			12/8/2020	145.9	V			-28.1
PHOENIX AMA	WEST SALT RIVER	A-01-01 12BBB	332703112131001	607206	33° 27' 5.3"	112° 13' 12.9"	1033.61	12/7/2010	108.3	V			12/8/2020	126.2	V			-17.9
PHOENIX AMA	WEST SALT RIVER	A-01-01 06CBB1	332724112181901	608428	33° 27' 24"	112° 18' 20.2"	995	12/1/2010	85	V			11/9/2020	92.7	V			-7.7
PHOENIX AMA	WEST SALT RIVER	B-01-02 05CBB	332725112294301	804205	33° 27' 26.3"	112° 29' 41.2"	1065	1/5/2011	209.9	V			12/1/2020	214.8	V			-4.9
PHOENIX AMA	WEST SALT RIVER	A-02-02 28ABB2	332938112093401	626576	33° 29' 37.25"	112° 9' 33.61"	1113.02	3/16/2011	160.32	VT			4/21/2021	178.97	VT		BLUE 500 @ 1130	-18.7
PHOENIX AMA	WEST SALT RIVER	B-02-01 36BBA3	332843112191601	608792	33° 28' 42.4"	112° 19' 12.7"	997	1/19/2011	102.2	V			12/3/2020	135.2	V			-33.0
PHOENIX AMA	WEST SALT RIVER	A-02-02 27DCB1	332902112083101	626552	33° 29' 1.35"	112° 8' 30.16"	1100.19	3/16/2011	136.48	VT			2/10/2021	158.16	VT		BLUE 500 09:15	-21.7
PHOENIX AMA	WEST SALT RIVER	A-02-04 29DAB	332913111575301	633954	33° 29' 13.3"	111° 57' 51.7"	1241	12/14/2010	19.3	V			12/7/2020	26.9	V			-7.6
PHOENIX AMA	WEST SALT RIVER	A-02-01 28AAA1	332936112152101	608358	33° 29' 36.5"	112° 15' 16.7"	1046	12/1/2010	128.9	V			11/12/2020	149	V			-20.1
PHOENIX AMA	WEST SALT RIVER	A-02-03 09CDA	333135112032501		33° 31' 37.96"	112° 3' 20.55"	1181.75	2/10/2011	121.61	VT			2/10/2021	130.63	VT		TAKEN AT 09:50 WITH BLUE 500	-9.0
PHOENIX AMA	WEST SALT RIVER	A-02-03 07CAA	333149112052901	702874	33° 31' 52"	112° 5' 28.2"	1160.4	12/8/2010	90.8	S			11/30/2020	97.3	V			-6.5
PHOENIX AMA	WEST SALT RIVER	A-02-04 08BDD	333158111581201	638750	33° 31' 57.4"	111° 58' 11.1"	1346	12/28/2010	247	V			12/8/2020	239.8	V			7.2
PHOENIX AMA	WEST SALT RIVER	B-02-01 01CCC2	333213112192001	609883	33° 32' 15"	112° 19' 22.6"	1069	1/25/2011	230	V		PUMP SHUT OFF FOR SEVERAL DAYS	12/1/2020	229.2	V			0.8
PHOENIX AMA	WEST SALT RIVER	B-02-02 04DCB	333223112280901	612958	33° 32' 26.1"	112° 28' 8.9"	1204	12/10/2010	349.3	V			12/9/2020	338.2	V			11.1
PHOENIX AMA	WEST SALT RIVER	A-02-01 04CBB2	333238112161601	607248	33° 32' 39"	112° 16' 17.5"	1076	12/7/2010	150.8	V			12/8/2020	151.9	V			-1.1
PHOENIX AMA	WEST SALT RIVER	A-02-03 14DCD	333036112010401	643681	33° 30' 36.2"	112° 1' 3.6"	1196	12/7/2010	71.1	S			12/9/2020	82.7	S			-11.6
PHOENIX AMA	WEST SALT RIVER	A-02-02 18DDD	333036112111001	607674	33° 30' 36.1"	112° 11' 9.22"	1120.55	12/2/2010	186.9	V			11/12/2020	196.8	V			-9.9
PHOENIX AMA	WEST SALT RIVER	B-05-03 22ADD	333038112330101	087570	33° 45' 42.4"	112° 33' 6.59"	1652	12/9/2010	426.6	V			12/8/2020	424.1	V			2.5
PHOENIX AMA	WEST SALT RIVER	A-02-02 14CBC2	333048112075901	608376	33° 30' 47.52"	112° 7' 59.95"	1142.32	12/2/2010	153.9	V			11/12/2020	150.7	V			3.2
PHOENIX AMA	WEST SALT RIVER	B-02-01 14CBB	333052112202401		33° 30' 52.5"	112° 20' 24.1"	1057	1/6/2011	209.9	V			12/1/2020	197.9	V			12.0
PHOENIX AMA	WEST SALT RIVER	B-02-01 18CBB2	333055112243101	620817	33° 30' 54.4"	112° 24' 31.1"	1078	1/19/2011	246.4	V			1/28/2021	223.3	V			23.1
PHOENIX AMA	WEST SALT RIVER	A-02-01 14BBA	333122112140901	617098	33° 31' 19.2"	112° 14' 1"	1085	12/1/2010	160.7	V			11/12/2020	181.7	V			-21.0
PHOENIX AMA	WEST SALT RIVER	A-02-01 08DDD	333126112162201	608411	33° 31' 23.3"	112° 16' 19.5"	1056	12/1/2010	102.6	V			11/12/2020	126.1	V			-23.5
PHOENIX AMA	WEST SALT RIVER	A-03-02 25BDA	333434112063201	626600	33° 34' 36.62"	112° 6' 30.07"	1240.05	2/10/2011	231.96	VT			2/10/2021	234.47	VT		TAKEN AT 10:19 WITH BLUE 500	-2.5
PHOENIX AMA	WEST SALT RIVER	A-03-02 24CCB	333505112065401	624791	33° 35' 2.29"	112° 6' 55.9"	1257	12/8/2010	276.2	V			11/30/2020	273.4	V			2.8
PHOENIX AMA	WEST SALT RIVER	A-03-01 24CBB	333517112130701	608413	33° 35' 18.5"	112° 13' 9.6"	1163	12/1/2010	271.1	V			11/13/2020	261.6	V			9.5
PHOENIX AMA	WEST SALT RIVER	A-03-01 20BBB	333539112172001	606537	33° 35' 40.49"	112° 17' 20.64"	1132.83	11/29/2010	315.7	VT			10/23/2020	302.73	VT		TAKEN WITH BLUE 500 AT 1115	13.0
PHOENIX AMA	WEST SALT RIVER	B-03-01 24BBB3	333539112192301	603822	33° 35' 39.09"	112° 19' 24.2"	1118	12/17/2010	349.7	V			12/16/2020	332.9	V			16.8
PHOENIX AMA	WEST SALT RIVER	B-03-01 23BBB1	333540112202701		33° 35' 38.2"	112° 20' 26.79"	1134	5/4/2011	269.1	V			12/7/2020	231.7	V			37.4
PHOENIX AMA	WEST SALT RIVER	A-02-02 03AAD	333258112080201	608419	33° 32' 58.21"	112° 8' 1.92"	1196.03	12/2/2010	204.8	V			11/12/2020	204.4	V			0.4
PHOENIX AMA	WEST SALT RIVER	B-02-01 06ABB2	333304112240401	620810	33° 33' 3.62"	112° 24' 4.39"	1113.56	3/16/2011	289.15	VT			2/11/2021	261.84	VT		BLUE 500 10:15	27.3
PHOENIX AMA	WEST SALT RIVER	B-03-01 34DBB1	333330112205801		33° 33' 29.89"	112° 20' 57.4"	1100	12/8/2010	221.6	V			12/7/2020	208.4	V			13.2
PHOENIX AMA	WEST SALT RIVER	A-03-02 34ADA	333347112080401	626566	33° 33' 49.61"	112° 8' 4.49"	1214.45	1/11/2011	205.35	VT			2/10/2021	210.92	VT		BLUE 500 10:00	-5.6
PHOENIX AMA	WEST SALT RIVER	B-03-01 32BAA	333357112230401	610105	33° 33' 56.6"	112° 23' 3.8"	1135	11/23/2010	322.3	V			12/7/2020	288.7	V			33.6
PHOENIX AMA	WEST SALT RIVER	A-03-02 06DAA	333756112110201	604120	33° 37' 55.72"	112° 11' 6.62"	1242.19	11/18/2010	352.61	VT			10/20/2020	338.08	VT		TAKEN WITH BLUE 500 AT 12:50	14.5
PHOENIX AMA	WEST SALT RIVER	B-03-01 05ABB	333818112230401	623681	33° 38' 18.3"	112° 23' 2.8"	1238	12/6/2010	405.5	V			12/7/2020	363.4	V			42.1
PHOENIX AMA	WEST SALT RIVER	A-04-01 34BDD2	333844112144501	622789	33° 38' 45.27"	112° 14' 45.33"	1214.22	10/13/2010	389.5	VT			10/20/2020	376.25	VT		TAKEN WITH BLUE 500 AT 12:28	13.3
PHOENIX AMA	WEST SALT RIVER	B-03-02 21ABA	333541112280101	612994	33° 35' 41.7"	112° 28' 1.5"	1332	12/9/2010	416.1	V			12/9/2020	393.3	V			22.8
PHOENIX AMA	WEST SALT RIVER	A-03-02 24BAB2	333546112064001	626585	33° 35' 45.61"	112° 6' 38.08"	1274.79	2/10/2011	309.57	VT			2/10/2021	308.02	VT		TAKEN AT 10:36 WITH BLUE 500	1.6
PHOENIX AMA	WEST SALT RIVER	A-03-02 22BAA	333546112083201	617992	33° 35' 46"	112° 8' 31.4"	1249	12/8/2010	294.5	V			11/30/2020	288.9	V			5.6
PHOENIX AMA	WEST SALT RIVER	A-03-02 17DCB	333556112103501	607743	33° 35' 57.29"	112° 10' 35.5"	1220.3	12/2/2010	296.1	V			11/13/2020	271.2	V			24.9
PHOENIX AMA	WEST SALT RIVER	B-03-02 15AAA	333633112263801	612992	33° 36' 34.1"	112° 26' 37.2"	1287	12/10/2010	428.5	V			12/9/2020	398.4	V			30.1
PHOENIX AMA	WEST SALT RIVER	A-03-02 09DBB	333703112091801	626611	33° 37' 1.4"	112° 9' 31.49"	1254.91	1/11/2011	326.34	VT			2/10/2021	312.33	VT		BLUE 500 10:40	14.0
PHOENIX AMA	WEST SALT RIVER	B-03-01 12BBB2	333723112192501	608647	33° 37' 23"	112° 19' 24.6"	1151	12/10/2010	384.1	V			1/5/2021	358.3	V			25.8
PHOENIX AMA	WEST SALT RIVER	A-03-02 08BBA2	333730112110201	618731	33° 37' 27.1"	112° 10' 52.8"	1236	12/8/2010	335.7	V			12/2/2020	327.4	V			8.3
PHOENIX AMA	WEST SALT RIVER	A-04-01 22AAA	334052112141401	804522	33° 40' 52.7"	112° 14' 14.39"	1280.59	12/8/2010	463.5	V			12/1/2020	432	V			31.5
PHOENIX AMA	WEST SALT RIVER	A-04-01 14CBB	334119112140901	617657	33° 41' 19.65"	112° 14' 10.29"	1294.57	3/16/2011	467.64	VT			3/24/2021	441.11	VT		BLACK 500 10:45	26.5
PHOENIX AMA	WEST SALT RIVER	B-04-02 07DDD	334147112294401	511308	33° 41' 48.7"	112° 29' 43.5"	1460	5/20/2011	323.2	V			12/21/2020	319.4	V			3.8
PHOENIX AMA	WEST SALT RIVER	B-04-03 14ABA	334147112320301	505327	33° 41' 47.8"	112° 32' 3.1"	1501	12/9/2010	311.8	V			12/15/2020	311.6	V			0.2
PHOENIX AMA	WEST SALT RIVER	A-04-01 08DBD	334205112163801	629296	33° 42' 3.9"	112° 16' 40.1"	1308	2/3/2011	267.1	V			12/15/2020	264.8	V			2.3
PHOENIX AMA	WEST SALT RIVER	B-04-03 28DDD	333912112335301	614445	33° 39' 13.2"	112° 33' 52.1"	1628	12/7/2010	413.5	V			12/7/2020	415.9	V			-2.4
PHOENIX AMA	WEST SALT RIVER	A-04-02 32BAA2	333915112104001	604123	33° 39' 14.7"	112° 10' 37.6"	1278	12/8/2010	389.4	V			12/8/2020	373.3	V			16.1
PHOENIX AMA	WEST SALT RIVER	A-04-02 26CBA	333943112075101	626639	33° 39' 42.5"	112° 7' 51.4"	1346	12/8/2010	422.9	V			11/30/2020	393.8	V			29.1
PHOENIX AMA	WEST SALT RIVER	B-04-03 19CDD	334028112361401	621513	33° 40' 17.5"	112° 36' 15"	1620	12/9/2010	384.1	V			12/7/2020	388.1	V			-4.0
PHOENIX AMA	WEST SALT RIVER	B-05-03 15AAA	334654112330401	640010	33° 46' 54.4"	112° 33' 2.79"	1711	12/7/2010	483.3	V			12/8/2020	480.9	V			2.4
PHOENIX AMA	WEST SALT RIVER	A-04-02 11ADB	334230112070901	614010	33° 42' 28.39"	112° 7' 8.1"	1430	12/9/2010	357.2	V			12/1/2020	350.5	V			6.7
PHOENIX AMA	WEST SALT RIVER	B-04-03 04BDB	334314112343701	804655	33° 43' 15.7"	112° 34' 35.3"	1595	12/7/2010	361.9	V			12/8/2020	364.2	V			-2.3
PHOENIX AMA	WEST SALT RIVER	A-04-01 06ABB1	334328112175201	507620	33° 43' 28.5"	112° 17' 51.7"	1293	5/20/2011	74.9	V			12/9/2020	68.8	V			6.1
PHOENIX AMA	WEST SALT RIVER	B-05-02 35BAA	334418112261701	617007	33° 44' 18.8"	112° 26' 16.9"	1491	12/6/2010	292.4	V			12/9/2020	223.1	V			69.3
PHOENIX AMA	WEST SALT RIVER	B-05-02 08CCB	334708112295301	060001	33° 47' 6.2"	112° 29' 52.1"	1702	12/6/2010	512.6	V			12/21/2020	486.8	V			25.8
PHOENIX AMA	WEST SALT RIVER	B-06-03 36DDD	334847112310201	614488	33° 48' 46.29"	112° 31' 2.59"	1826	5/10/2011	615.4	V			12/8/2020	605.8	V			9.6
PHOENIX AMA	WEST SALT RIVER	B-06-02 18CAA	335138112302001	651280	33° 51' 41.8"	112° 30' 26.5"	2110	12/9/2010	511.2	V			12/8/2020	509.4	V			1.8
PHOENIX AMA	WEST SALT RIVER	C-01-02 08CDA	332102112291201	614938	33° 21' 2.02"	112° 28' 41.06"	898.57	1/5/2011	52.2	S			2/9/2021	54.71	VT		BLUE 500 11:10	-2.5
PHOENIX AMA	WEST SALT RIVER	A-03-01 02CBB	333746112141201	565552	33° 37' 47"	112° 14' 11"	1190	12/8/2010	365.9	V			12/16/2020	320.3	V			45.6
PHOENIX AMA	WEST SALT RIVER	A-02-04 30ACC2	332918111590701	202398	33° 29' 18.5"	111° 59' 7"	1207	12/4/2010	25.4	S			11/13/2020	35.7	V			-10.3
PINAL AMA	ELOY	D-08-08 10CDD	324405111302501	618245	32° 44' 4.8"	111° 30' 26.6"	1587	11/9/2010	284.5	V			11/17/2020	282.2	V			2.3
PINAL AMA	ELOY	D-08-08 07DDD1	324405111330101		32° 44' 3.1"	111° 33' 2.2"	1575	11/9/2010	213.9	V			11/9/2020	215	S			-1.1
PINAL AMA	ELOY	D-07-08 33DDD	324548111305601		32° 45' 48"	111° 30' 56"	1562	11/8/2010	232.1	V			11/10/2020	218.5	V			13.6
PINAL AMA	ELOY	D-07-07 34CDD2	324548111363901		32° 45' 48.8"	111° 36' 38.8"	1529	11/8/2010	225.2	V			11/10/2020	215.4	V			9.8
PINAL AMA	ELOY	D-07-07 31DDA	324558111391301	608916	32° 45' 57.6"	111° 39' 13.4"	1509	11/8/2010	437.6	V			11/10/2020	409.1	V			28.5
PINAL AMA	ELOY	D-07-06 34BAD	324626111425001	604516	32° 46' 25.7"	111° 42' 49.09"	1470.28	6/1/2011	431.9	VT			6/3/2021	449.71	VT		TAKEN AT 10:48 WITH BLUE 500	-17.8
PINAL AMA	ELOY	D-08-08 01DDD	324458111275001	615519	32° 44' 56.5"	111° 27' 48.79"	1599	1/5/2011	327.7	V			11/9/2020	351.8	V			-24.1
PINAL AMA	ELOY	D-08-09 05ACD PZ1	324523111260701		32° 45' 19.4"	111° 26' 6.7"	1648	12/15/2010	390.4	V			11/10/2020	432.3	V			-41.9
PINAL AMA	ELOY	D-08-09 05ACD PZ2	324523111260702		32° 45' 19.4"	111° 26' 6.7"	1648	12/15/2010	392.5	V			11/10/2020	434.5	V			-42.0
PINAL AMA	ELOY	D-08-08 06AAC	324537111331101		32° 45' 38.2"	111° 33' 11.2"	1551	1/5/2011	226.8	V			11/9/2020	207	V			19.8
PINAL AMA	ELOY	D-07-07 23ADD	324757111350501		32° 47' 57.7"	111° 35' 4.1"	1513	11/8/2010	193.2	V			11/12/2020	185.2	V			8.0
PINAL AMA	ELOY	D-07-07 30CCC	324640111401001		32° 46' 39.7"	111° 40' 10.3"	1496	11/8/2010	175.1	V			11/10/2020	168.5	V			6.6
PINAL AMA	ELOY	D-08-08 18CDD1	324312111333001	606865	32° 43' 10.9"	111° 33' 31.3"	1583	11/8/2010	238.2	V			11/9/2020	231.8	V			6.4
PINAL AMA	ELOY	D-08-08 14DDD	324314111285501	622438	32° 43' 12.1"	111° 28' 55.29"	1611	11/9/2010	284	V			11/9/2020	285.4	V			-1.4
PINAL AMA	ELOY	D-08-07 09ADD1	324430111371501		32° 44' 30.9"	111° 37' 12.7"	1538	11/8/2010	220.2	V			11/20/2020	206.9	S			13.3
PINAL AMA	ELOY	D-07-09 27BDA PZ1	324707111241901		32° 47' 12.1"	111° 24' 19.3"	1657	12/16/2010	368.1	V			11/10/2020	349.3	V			18.8
PINAL AMA	ELOY	D-07-09 27BDA PZ2	324707111241902		32° 47' 12.1"	111° 24' 19.3"	1657	12/16/2010	342.9	V			11/10/2020	349.4	V			-6.5
PINAL AMA	ELOY	D-07-09 08DDD PZ1	324917111254701	505967	32° 49' 16.9"	111° 25' 47.3"	1550	12/15/2010	200.7	V			11/9/2020	213.6	V			-12.9
PINAL AMA	ELOY	D-07-07 11CDD	324917111353601		32° 49' 17"	111° 35' 36.6"	1494	11/8/2010	172.2	V			11/12/2020	169.5	V			2.7
PINAL AMA	ELOY	D-07-08 09DDD	324920111305701	621868	32° 49' 17.7"	111° 30' 54.4"	1516	11/8/2010	152.2	S			11/10/2020	157.8	V			-5.6
PINAL AMA	ELOY	D-07-06 17DDD2	324825111442301		32° 48' 24"	111° 44' 21.8"	1441	11/8/2010	120	S			11/10/2020	124.6	V			-4.6
PINAL AMA	ELOY	D-07-08 17CDD	324827111323001	621861	32° 48' 25.6"	111° 32' 27.2"	1520	11/8/2010	178.9	V			11/10/2020	181.1	V			-2.2
PINAL AMA	ELOY	D-07-05 01ADA	325047111462501	608209	32° 50' 47.7"	111° 46' 25.7"	1402	11/18/2010	40.66	S			11/10/2020	51.7	S			-11.0
PINAL AMA	ELOY	D-07-09 10BBB PZ1	325007111244801		32° 50' 6"	111° 24' 44.4"	1596	12/15/2010	316.5	V			11/9/2020	339.2	V			-22.7
PINAL AMA	ELOY	D-07-09 10BBB PZ2	325007111244802		32° 50' 6"	111° 24' 44.4"	1596	12/15/2010	264.2	V			11/9/2020	215.6	V			48.6
PINAL AMA	ELOY	D-07-08 05DCC	325011111322501	800830	32° 50' 10.5"	111° 32' 25"	1501	11/8/2010	145	V			11/10/2020	152.8	V			-7.8
PINAL AMA	ELOY	D-07-06 04DCC	325012111434801		32° 50' 11.2"	111° 43' 48.6"	1432	11/8/2010	82.7	S			11/10/2020	106.5	S			-23.8
PINAL AMA	ELOY	D-06-05 34BDD2	325130111490701		32° 51' 27.4"	111° 49' 3.5"	1369	11/19/2010	67.27	S			11/10/2020	79.3	S			-12.0
PINAL AMA	ELOY	D-06-06 36DDA	325112111401701	605666	32° 51' 10.8"	111° 40' 13.8"	1443	11/18/2010	133.38	S			11/10/2020	133.1	V			0.3
PINAL AMA	ELOY	D-06-09 29BBA4	325243111264001		32° 52' 42.1"	111° 26' 40"	1542	12/7/2010	279.5	V			11/9/2020	312.2	V			-32.7
PINAL AMA	ELOY	D-06-05 25BBB	325245111472601	801146	32° 52' 45"	111° 47' 25.9"	1375	11/18/2010	42.8	V			11/10/2020	63.1	S			-20.3
PINAL AMA	ELOY	D-06-06 23ADC	325316111412701	621197	32° 53' 13.1"	111° 41' 29.8"	1417	11/18/2010	254.9	V			11/10/2020	312	V			-57.1
PINAL AMA	ELOY	D-06-08 11ADA1	325503111284801	617559	32° 55' 2.8"	111° 28' 48.6"	1473	11/8/2010	65.4	S			11/12/2020	73.2	V			-7.8
PINAL AMA	ELOY	D-06-09 N04DDD	325617111244801	620899	32° 56' 16.6"	111° 24' 47.3"	1588	11/8/2010	292.4	V			12/16/2020	320.7	V			-28.3
PINAL AMA	ELOY	D-05-07 34DDD	325618111370501	604184	32° 56' 18"	111° 37' 5"	1406	11/17/2010	93.8	V			11/10/2020	102.1	V			-8.3
PINAL AMA	ELOY	D-05-07 26CDD	325711111363801	622466	32° 57' 10.4"	111° 36' 37"	1402	11/17/2010	86.6	V			11/10/2020	97.5	V			-10.9
PINAL AMA	ELOY	D-05-07 28DCC2	325712111383001	809300	32° 57' 12.8"	111° 38' 36.6"	1410	11/17/2010	120.3	S			11/10/2020	126.1	S			-5.8
PINAL AMA	ELOY	D-05-06 28CAA	325728111444901	608103	32° 57' 34.9"	111° 44' 53.5"	1464	11/23/2010	321.1	V			11/10/2020	325.5	V			-4.4
PINAL AMA	ELOY	D-05-09 31ADD	325707111271801	621904	32° 57' 6.8"	111° 27' 18.1"	1505	11/18/2010	151.1	V			11/13/2020	166.2	V			-15.1
PINAL AMA	ELOY	D-05-07 W13CAD	325908111355701		32° 59' 7.2"	111° 35' 31.1"	1386	11/17/2010	74.5	V			11/10/2020	85.4	V			-10.9
PINAL AMA	ELOY	D-05-09 29ADA	325807111261601	635611	32° 58' 6.8"	111° 26' 16.2"	1520	11/18/2010	170.7	V			11/13/2020	186.8	V			-16.1
PINAL AMA	ELOY	D-05-09 18BDD2	325944111275001	601789	32° 59' 45.4"	111° 27' 49.8"	1464	11/18/2010	181	V			11/13/2020	220	V			-39.0
PINAL AMA	ELOY	D-05-09 18BDD1	325945111275101	601792	32° 59' 44.6"	111° 27' 49.6"	1464	11/18/2010	158.1	V			11/13/2020	203.7	V			-45.6
PINAL AMA	ELOY	D-05-08 17BBB2	330008111332601	621935	33° 0' 7.6"	111° 33' 26"	1409	11/17/2010	115.7	V			11/10/2020	116.9	V			-1.2
PINAL AMA	ELOY	D-04-09 33AAD	330235111252101	627609	33° 2' 37.3"	111° 25' 19.1"	1456	11/16/2010	179.2	V			11/10/2020	207.1	V			-27.9
PINAL AMA	ELOY	D-05-08 02AAA	330146111292301	621952	33° 1' 45.8"	111° 29' 22.7"	1418	11/16/2010	117	V			11/10/2020	127.7	V			-10.7
PINAL AMA	ELOY	D-04-10 18DCD PZ1	330435111212601		33° 4' 34.21"	111° 21' 30.97"	1562.49	12/7/2010	258.8	V			11/30/2020	275.2	V			-16.4
PINAL AMA	ELOY	D-04-10 18DCD PZ2	330435111212602		33° 4' 34.21"	111° 21' 30.97"	1562.49	12/7/2010	259.9	V			11/30/2020	275.2	V			-15.3
PINAL AMA	ELOY	D-04-10 30BDD	330311111214201	605530	33° 3' 10.8"	111° 21' 40.8"	1490	11/16/2010	178.4	V			11/10/2020	203.1	V			-24.7
PINAL AMA	ELOY	D-04-09 15BCA2 PZ1	330515111245601		33° 5' 15.58"	111° 24' 56.27"	1572.98	12/7/2010	315.6	V			11/30/2020	321	V			-5.4

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PINAL AMA	ELOY	D-04-10 12DDD	330522111160601	621947	33° 5' 22"	111° 16' 7.1"	1553.8	11/16/2010	27.9	V			11/10/2020	46.4	V			-18.5
PINAL AMA	ELOY	D-09-08 29BCC	323635111330001	615602	32° 36' 36"	111° 33' 1.59"	1663.71	6/2/2011	371.57	VT			6/3/2021	380.82	VT		TAKEN AT 10:06 WITH BLUE 500	-9.3
PINAL AMA	ELOY	D-06-07 36DCB	325117111342801		32° 51' 8.77"	111° 34' 30.4"	1477.02	6/2/2011	148.86	VT			6/3/2021	154.57	VT		TAKEN AT 09:25 WITH BLUE 500	-5.7
PINAL AMA	ELOY	D-10-06 11DDD2	323354111422501	620687	32° 33' 53.5"	111° 42' 24"	1588	11/9/2010	339.9	V			11/16/2020	344.7	V			-4.8
PINAL AMA	ELOY	D-10-09 10AAD1	323414111235001	620611	32° 34' 13.6"	111° 23' 51"	1800	1/12/2011	247.7	V			1/25/2021	245.6	V			2.1
PINAL AMA	ELOY	D-10-09 21AAD	323233111245601	622057	32° 32' 33.4"	111° 24' 52.8"	1797	1/12/2011	196.5	V			1/27/2021	193.9	V			2.6
PINAL AMA	ELOY	D-10-09 18AAC2	323321111271001	622069	32° 33' 21.4"	111° 27' 8.2"	1765	1/12/2011	279.5	V			1/27/2021	275.9	V			3.6
PINAL AMA	ELOY	D-09-07 25DDA2	323611111340901	618267	32° 36' 16.79"	111° 34' 7.19"	1652	11/9/2010	455.7	V			11/16/2020	465.2	V			-9.5
PINAL AMA	ELOY	D-10-07 08AAA	323442111392101	608906	32° 34' 43.09"	111° 39' 20.1"	1593	11/9/2010	471.2	V	K		11/16/2020	493.7	V	K		-22.5
PINAL AMA	ELOY	D-09-08 33DCD	323511111311901	615610	32° 35' 19.6"	111° 31' 17.2"	1699	11/9/2010	389.1	V			11/13/2020	387.2	V			1.9
PINAL AMA	ELOY	D-09-08 31DAA	323541111330501	615607	32° 35' 43"	111° 33' 4.69"	1666	11/9/2010	388.9	V			11/13/2020	374.6	V			14.3
PINAL AMA	ELOY	D-09-08 35ADD2	323545111285802	615616	32° 35' 47.9"	111° 28' 58.5"	1713	11/9/2010	383.2	V			11/13/2020	373.9	V			9.3
PINAL AMA	ELOY	D-09-08 09DCC	323849111312701	625733	32° 38' 49.1"	111° 31' 27.39"	1655	11/9/2010	475.2	V			11/13/2020	483.3	V			-8.1
PINAL AMA	ELOY	D-09-07 10DAA	323859111361301	801286	32° 39' 11.7"	111° 36' 9.7"	1602	11/8/2010	273.1	V			11/20/2020	262.5	V			10.6
PINAL AMA	ELOY	D-08-06 35DDD2	324035111412301		32° 40' 32"	111° 41' 18.7"	1542	11/8/2010	128.3	V			11/16/2020	112	S			16.3
PINAL AMA	ELOY	D-09-08 06DDD	323943111330801	604061	32° 39' 42.29"	111° 33' 3"	1630	11/8/2010	276.4	V			11/16/2020	271.3	V			5.1
PINAL AMA	ELOY	D-08-08 29BCC	324154111325601	618528	32° 41' 52.1"	111° 32' 54.9"	1607	11/8/2010	370.1	V			11/20/2020	364	V			6.1
PINAL AMA	ELOY	D-08-08 29BCD	324155111325501	618535	32° 41' 52"	111° 32' 52.7"	1607	11/8/2010	240.7	V			11/20/2020	238.5	V			2.2
PINAL AMA	MARICOPA - STANFIELD	D-07-05 07DDD	324917111513801	613932	32° 49' 16.3"	111° 51' 38.7"	1368	11/18/2010	433.3	V			11/10/2020	452.4	V			-19.1
PINAL AMA	MARICOPA - STANFIELD	D-06-04 36DDD	325102111523901	629477	32° 51' 2.5"	111° 52' 37.8"	1347	11/16/2010	459.9	V			11/12/2020	479.3	V			-19.4
PINAL AMA	MARICOPA - STANFIELD	D-06-03 27CCC	325156112015101	615407	32° 51' 54.14"	112° 1' 52.03"	1374.26	11/19/2010	656.7	V			10/6/2020	665.39	VT		BLACK 1500 11:40	-8.7
PINAL AMA	MARICOPA - STANFIELD	D-06-05 16DAD	325356111493202	622028	32° 53' 56.7"	111° 49' 32.6"	1346	2/24/2011	45.8	V			11/10/2020	54.5	V			-8.7
PINAL AMA	MARICOPA - STANFIELD	D-06-05 19DDA PZ1	325256111514001	635943	32° 52' 58"	111° 51' 36.6"	1338	11/16/2010	329.9	V			11/12/2020	336.4	V			-6.5
PINAL AMA	MARICOPA - STANFIELD	D-06-05 16DDA	325357111493301	622029	32° 53' 51.4"	111° 49' 32.5"	1347	2/24/2011	45.8	V			11/10/2020	54.5	V			-8.7
PINAL AMA	MARICOPA - STANFIELD	D-06-03 15BDC	325406112014201	625533	32° 54' 4.3"	112° 1' 30.3"	1290	11/18/2010	483.8	V			11/12/2020	554.5	V			-70.7
PINAL AMA	MARICOPA - STANFIELD	D-06-04 S04DDD3	325523111554301	087174	32° 55' 23.4"	111° 55' 44.7"	1285	11/19/2010	231.2	V			11/12/2020	221	V			10.2
PINAL AMA	MARICOPA - STANFIELD	D-06-04 S02CDD	325525111541401	609664	32° 55' 23.1"	111° 54' 12"	1294	11/18/2010	513	V			11/12/2020	515.5	V			-2.5
PINAL AMA	MARICOPA - STANFIELD	D-06-03 S02DDD2	325526111595401	620591	32° 55' 24.3"	111° 59' 50.3"	1267	11/18/2010	160.7	V			11/12/2020	141.8	S			18.9
PINAL AMA	MARICOPA - STANFIELD	D-06-02 E01CDD2	325542112053301		32° 55' 41.8"	112° 5' 33.6"	1318	11/19/2010	553.7	V			11/12/2020	534	V			19.7
PINAL AMA	MARICOPA - STANFIELD	D-05-04 35DDD	325622111544201	606188	32° 56' 22"	111° 54' 41.2"	1283	11/16/2010	219.7	V			11/9/2020	189	V			30.7
PINAL AMA	MARICOPA - STANFIELD	D-05-05 32BDD	325639111522101	806657	32° 56' 44"	111° 52' 8.8"	1335	11/16/2010	375.3	V			11/13/2020	379.4	V			-4.1
PINAL AMA	MARICOPA - STANFIELD	D-05-04 23BDD2	325840111551501	623811	32° 58' 39.4"	111° 55' 16.1"	1276	11/16/2010	422.6	V			11/9/2020	399.7	V			22.9
PINAL AMA	MARICOPA - STANFIELD	D-05-02 21BBB	325901112100401	605935	32° 59' 2.1"	112° 10' 4.3"	1339	11/16/2010	298.2	V			11/10/2020	305.5	V			-7.3
PINAL AMA	MARICOPA - STANFIELD	D-05-03 25ADD	325746111595201		32° 57' 44"	111° 59' 46.4"	1240	11/17/2010	123.8	V			11/10/2020	100.9	V			22.9
PINAL AMA	MARICOPA - STANFIELD	D-05-03 29BCC1	325748112045101		32° 57' 46.2"	112° 4' 54.6"	1257	11/17/2010	157.6	V			11/10/2020	147.7	V			9.9
PINAL AMA	MARICOPA - STANFIELD	D-05-04 15ADD	325928111554401	601127	32° 59' 30.1"	111° 55' 42.6"	1266	11/16/2010	226.2	V			11/9/2020	190.8	V			35.4
PINAL AMA	MARICOPA - STANFIELD	D-05-03 12CDD1	330001112002001	612530	32° 59' 59.4"	112° 0' 17.5"	1215	2/24/2011	97.2	V			11/9/2020	80.1	V			17.1
PINAL AMA	MARICOPA - STANFIELD	D-05-02 11DDD2	330001112070101	623847	33° 0' 0.7"	112° 7' 0.6"	1268	11/16/2010	439.1	V			11/10/2020	409.7	V			29.4
PINAL AMA	MARICOPA - STANFIELD	D-05-04 07DDA	330008111584501	623829	33° 0' 8.9"	111° 58' 46.2"	1227	11/16/2010	118.2	V			11/9/2020	91	S			27.2
PINAL AMA	MARICOPA - STANFIELD	D-04-03 35DDD	330147112005001	612706	33° 1' 44.9"	112° 0' 47.5"	1200	11/16/2010	92.7	V			11/9/2020	74.6	S			18.1
PINAL AMA	MARICOPA - STANFIELD	D-04-04 33CDD	330148111572101	610515	33° 1' 44.9"	111° 57' 24.5"	1217	2/24/2011	229.2	V			12/2/2020	233	S			-3.8
PINAL AMA	MARICOPA - STANFIELD	D-04-03 13DDD	330424111594601	621408	33° 4' 23.7"	111° 59' 45.7"	1177	2/24/2011	131.8	V			12/2/2020	147.5	V		LIGHT OIL	-15.7
PINAL AMA	MARICOPA - STANFIELD	D-04-02 15CBC	330435112085801	612602	33° 4' 36.3"	112° 8' 59.7"	1227	11/15/2010	350.2	V			11/9/2020	330.9	V			19.3
PINAL AMA	MARICOPA - STANFIELD	D-04-03 17ADD	330444112035501		33° 4' 50.7"	112° 3' 52.26"	1151	11/15/2010	82.7	V			11/9/2020	58.3	V			24.4
PINAL AMA	MARICOPA - STANFIELD	D-04-04 20CDD	330330111581201	605948	33° 3' 29.5"	111° 58' 12.5"	1193	11/17/2010	92.1	V			11/9/2020	89.9	S			2.2
PINAL AMA	MARICOPA - STANFIELD	D-04-03 20DCD	330332112041401		33° 3' 28.8"	112° 4' 8.9"	1181	11/9/2010	71.5	V			11/9/2020	57.3	V			14.2
PINAL AMA	MARICOPA - STANFIELD	D-05-04 28BCD1	335737111573201	612522	32° 57' 35.8"	111° 57' 34.4"	1254	11/19/2010	141.9	V			11/10/2020	120.5	V			21.4
PINAL AMA	MARICOPA - STANFIELD	D-05-02 36BAD	325656112064801	615354	32° 57' 14.14"	112° 6' 33.34"	1316	10/7/2010	513.27	VT			10/6/2020	481.03	VT		BLUE 500	32.2
PINAL AMA	VEKOL VALLEY	D-08-01 11CCB	324401112133801		32° 44' 31.4"	112° 14' 8.2"	1945	11/18/2010	330.3	V			11/12/2020	329.1	V			1.2
PINAL AMA	VEKOL VALLEY	D-07-01 22CCC2	324754112151201		32° 47' 54.7"	112° 15' 11.9"	1835	11/18/2010	420.3	V			11/12/2020	420.7	V			-0.4
PINAL AMA	VEKOL VALLEY	D-08-01 30DAA	324208112172401		32° 42' 7.4"	112° 17' 22"	2165	11/18/2010	526.4	V			11/12/2020	518.9	V			7.5
PINAL AMA	VEKOL VALLEY	D-07-01 10CBC2	324953112151401		32° 49' 52.69"	112° 15' 13.13"	1752	4/25/2011	342.1	V			11/12/2020	341.1	V			1.0
PINAL AMA	VEKOL VALLEY	D-06-01 33DCC	325120112154501		32° 51' 21.9"	112° 15' 39.5"	1702	11/17/2010	292	V			11/12/2020	293.4	V			-1.4
PINAL AMA	VEKOL VALLEY	D-06-01 21DAB	325257112152601	512922	32° 53' 23.7"	112° 15' 28.8"	1630	11/17/2010	229.1	V			11/12/2020	226.9	V			2.2
PINAL AMA	VEKOL VALLEY	D-06-01 16DCD2	325358112153501	804042	32° 53' 57.6"	112° 15' 35.4"	1626	11/17/2010	213.1	V			11/12/2020	211.2	V			1.9
PINAL AMA	VEKOL VALLEY	D-09-01 13BBD	323900112130201		32° 38' 59.9"	112° 13' 1.7"	2048	11/18/2010	432.95	V			11/12/2020	439.2	V			-6.3
PINAL AMA	VEKOL VALLEY	D-08-01 35ABD	324131112130401		32° 41' 31"	112° 13' 32.7"	2002	11/18/2010	390.4	V			11/12/2020	394.3	V			-3.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 12ADD	342658112244601	606295	34° 47' 0.4"	112° 24' 42.3"	4648	3/23/2011	135.8	V			3/22/2021	146.4	V			-10.6
PRESCOTT AMA	LITTLE CHINO VALLEY	A-15-01 17BCC	344052112171701	524200	34° 40' 51"	112° 17' 18.7"	4979	3/31/2011	313.5	V			3/22/2021	312.9	V			0.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 31CCD	343746112242601	619664	34° 37' 45.4"	112° 24' 25.2"	5008	3/22/2011	348.8	V			3/22/2021	352.5	V			-3.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 25CDB	343847112190401		34° 38' 46.2"	112° 19' 6.6"	4927	3/31/2011	304	V			3/22/2021	309.6	V			-5.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 30DAA	343858112300301	809476	34° 38' 57.7"	112° 30' 0.9"	5198	3/22/2011	228.2	V			3/23/2021	290.3	V			-62.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD1	343930112235301	523565	34° 39' 29.5"	112° 23' 55"	4915	3/22/2011	187.4	S			3/22/2021	194.9	V			-7.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 34ABA2	344347112271001	502645	34° 43' 47.2"	112° 27' 9.4"	4800	3/23/2011	296	V			3/22/2021	306.5	V			-10.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-03 35BBB	344348112331401	602609	34° 43' 48.1"	112° 33' 14.2"	5200	3/23/2011	116.6	V			3/23/2021	115.2	V			1.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 25DDB	344358112182901	625105	34° 43' 58.3"	112° 18' 32.2"	4961	3/31/2011	435.9	V			3/24/2021	446.6	V			-10.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 01DCD	344241112312201	808811	34° 42' 11.2"	112° 31' 21.5"	5010	3/24/2011	120.2	V			3/23/2021	146.7	V			-26.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 14BCC	344603112264001	606022	34° 46' 2.7"	112° 26' 39.7"	4659	3/22/2011	168.2	V			3/23/2021	176.7	V			-8.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 15ACB	344613112271901	606691	34° 46' 10.4"	112° 27' 19"	4670	3/22/2011	185.9	V			3/23/2021	195.1	V			-9.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 07CDD	344628112174901	606296	34° 46' 29.4"	112° 24' 10.3"	4701	3/22/2011	184.7	V			3/22/2021	195.2	V			-10.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 09CDC	344629112283401	634748	34° 46' 31.2"	112° 28' 33.3"	4685	3/22/2011	198.6	V			3/25/2021	207.1	V			-8.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 28BCA	344429112222001	625104	34° 44' 26.8"	112° 22' 23.2"	4807	3/24/2011	293.7	V			3/22/2021	304.9	V			-11.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CBD1	344459112232601	625107	34° 45' 0"	112° 23' 26.2"	4777	3/24/2011	34	S			3/22/2021	40.8	S			-6.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CAC	344501112232601	625106	34° 44' 58.1"	112° 23' 20.5"	4781	3/24/2011	234.5	V			3/22/2021	247.9	V			-13.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 22DBA	344507112270101	606024	34° 45' 9.4"	112° 27' 5.6"	4716	3/24/2011	224.1	V			3/25/2021	234	V			-9.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21BAA1	344534112282901	604724	34° 45' 33.9"	112° 28' 25.5"	4747	3/23/2011	248.1	V			3/22/2021	258.1	V			-10.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 14CDA	344543112262201	606021	34° 45' 44.7"	112° 26' 21.4"	4670	3/24/2011	183.9	V			3/25/2021	193.3	V			-9.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 08ACA	344704112291601	572110	34° 47' 5.4"	112° 29' 15.5"	4615	3/23/2011	132.5	V			3/25/2021	143.9	V			-11.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 03BBB1	344809112275201		34° 48' 9.7"	112° 27' 50.9"	4539	3/22/2011	73.1	V			3/25/2021	84.2	S			-11.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 S34DDD3	344819112265601	633990	34° 48' 18.4"	112° 26' 55.8"	4515	3/22/2011	47.9	V			3/23/2021	53.9	S			-6.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 S34CDD	344820112272701	609766	34° 48' 17.1"	112° 27' 24.4"	4516	3/23/2011	20	V			3/25/2021	30.1	S			-10.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD2	343930112235601	562286	34° 39' 32.8"	112° 23' 57.7"	4920	3/22/2011	389.7	V			3/22/2021	397.5	V			-7.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 30DCB	343836112302401	554078	34° 38' 46.8"	112° 30' 24.2"	5200	3/23/2011	232	V			3/23/2021	301.8	V			-69.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 13ACC	344147112313201	536656	34° 40' 45.4"	112° 31' 29.1"	5100	3/23/2011	228.4	V			3/22/2021	235.4	V			-7.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 31DDB	343754112301101	635023	34° 37' 52.3"	112° 30' 11.3"	5355	3/22/2011	222.5	V			3/23/2021	228.2	V			-5.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-14-02 05BBC	343734112295501	540148	34° 37' 33.2"	112° 29' 56.1"	5305	3/23/2011	190.4	V			3/23/2021	196.7	V			-6.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 35ACB	343820112195701	560334	34° 38' 20.3"	112° 19' 56.5"	4961	4/6/2011	398.5	V			3/23/2021	412.4	V			-13.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 23ACA	344520112194301	587404	34° 45' 19.87"	112° 19' 43.2"	4878.63	6/14/2011	359.82	VT			6/3/2021	370.67	VT		BLUE 500 10:00	-10.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 13DDD2	344025112310401	550757	34° 40' 25.6"	112° 31' 4.2"	5140	3/22/2011	286.6	V			3/22/2021	288.6	V			-2.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 33CBC	344314112285201	529457	34° 43' 14.4"	112° 28' 52.5"	4910	4/6/2011	357.2	V			3/22/2021	357.1	V			0.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 06CCC	344207112306001	569852	34° 42' 6.8"	112° 30' 59.7"	5000	3/23/2011	132.6	V			3/22/2021	158.9	V			-26.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21BAA2	344535112283001	604725	34° 45' 32.65"	112° 28' 30.82"	4746.47	9/29/2011	259.33	VT			9/23/2021	268.53	VT		VTO7	-9.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 12CBD	344645112253401	606300	34° 46' 42.02"	112° 25' 29"	4601.85	6/14/2011	104.5	S			6/3/2021	113.23	VT		BLUE 500 9:30	-8.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 N34DDD1	344819112265701	608242	34° 48' 18.18"	112° 26' 57.65"	4513.79	6/14/2011	37.67	S			6/3/2021	43.21	VT		BLUE 500 09:00 OUTSIDE OF SOUNDING TU	-5.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 08DAA1 PZ1	344134112223501	587403	34° 41' 33.73"	112° 22' 35.25"	4915.24	12/15/2010	393.18	VT			10/29/2020	404.33	VT			-11.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 22AAB	342020112270101	588619	34° 40' 19.75"	112° 27' 0.52"	5007.63	12/15/2010	373.72	VT			10/28/2020	398.55	VT			-24.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 26CBC1	343854112202701	541372	34° 38' 54.55"	112° 20' 27.49"	4949.32	6/15/2011	419.84	VT			6/3/2021	443.7	VT		RED 500 13:15	-23.9
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 28DDC	344357112280901	628072	34° 43' 51.9"	112° 28' 8.69"	4818.78	6/14/2011	323.93	VT			6/3/2021	333.38	VT		RED 500 11:30	-9.5
PRESCOTT AMA	UPPER AGUA FRIA	B-12H-01 20ACD	342722112225901	543019	34° 27' 21.16"	112° 22' 55.54"	6380	2/4/2011	78.7	V			2/8/2021	87.6	V			-8.9
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 34CCA	343244112150901	631279	34° 32' 44.8"	112° 15' 9.9"	4650	3/29/2011	80.6	V			3/23/2021	83.8	V			-3.2
PRESCOTT AMA	UPPER AGUA FRIA	A-13-01 01DCA	343153112122901	803241	34° 31' 53"	112° 12' 29.6"	4738	3/29/2011	208.7	V			3/25/2021	210.7	V			-2.0
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10DDA	343610112203201	523346	34° 36' 10.7"	112° 20' 30.6"	5082	3/30/2011	515.7	V			3/24/2021	506.7	V			9.0
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 11DAA	343628112193001	612329	34° 36' 26.6"	112° 19' 31.1"	5043.52	3/30/2011	338.1	V			3/24/2021	337.7	V			0.4
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 11ACB	343637112195701	612330	34° 36' 37.1"	112° 19' 57.5"	5043.72	3/30/2011	350.5	V			3/24/2021	349.4	V			1.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 08BBB	343652112172101	536623	34° 36' 52.08"	112° 17' 18.8"	4859.13	6/13/2011	208.48	VT			6/3/2021	214.61	VT		RED 500 16:20	-6.1
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 25DAC	343343112183801	613029	34° 33' 43.9"	112° 18' 38.2"	4933	3/29/2011	44.3	V			3/23/2021	45.4	S			-1.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 27ACC	343353112144101	613024	34° 33' 53.08"	112° 14' 41.05"	4660.63	6/16/2011	42.86	S			6/3/2021	42.93	VT		RED 500 17:15	-0.1
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 28BBB	343415112161401	613020	34° 34' 11.5"	112° 16' 12.8"	4714.98	3/29/2011	89.2	V			3/23/2021	99.5	S			-10.3
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 24DCB	343428112123701	614220	34° 34' 29.5"	112° 12' 37.5"	4928	3/29/2011	303.4	V			3/23/2021	306.6	V			-3.2
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 22CAD	343434112145201	613023	34° 34' 33.5"	112° 14' 51.1"	4720	3/29/2011	82.7	V			3/23/2021	86.9	S			-4.2
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 22ADA	343453112203401	613045	34° 34' 53.7"	112° 20' 34.4"	5184.1	3/30/2011	322	V			3/22/2021	338	V			-16.0
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 01CCC	343655112192201	539499	34° 36' 54.7"	112° 19' 22.5"	5025	3/30/2011	352.8	V			3/24/2021	365.9	V			-13.1
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 10BBB2	344157112150701	545863	34° 41' 57"	112° 15' 5.6"	5330	3/31/2011	440.4	V			3/25/2021	392.6	V			47.8
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ2	343641112204203	519687	34° 36' 40.15"	112° 20' 43.8"	5025	3/30/2011	328.1	V			4/21/2021	321.87	VT		TAKEN AT 10:005 WITH BLACK 500	6.2
PRESCOTT AMA	UPPER AGUA FRIA	A-13-01 13CAB	343017112124801	540426	34° 30' 16.8"	112° 12' 46.2"	4625	3/29/2011	156.1	V			3/25/2021	167.6	V			-11.5
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 29ADB	343909112163201		34° 39' 8.9"	112° 16' 31.8"	5067	3/31/2011	389.4	V			3/22/2021	400.6	V			-11.2
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ1	343641112204202	519687	34° 36' 40.15"	112° 20' 43.8"	5018.34	3/31/2011	591.48	VT			4/21/2021	536.04	VT		TAKEN AT 10:20 AM	55.4
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 22ABB	344029112143501	519873	34° 40' 20.09"	112° 14' 35.07"	5257.81	6/16/2011	70.04	S			6/3/2021	75.94	VT		RED 500 15:00	-5.9
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 28ACC	343906112154701	614238	34° 39' 7.09"	112° 15' 45.41"	5067.21	6/16/2011	320.14	VT			6/3/2021	324.19	VT		RED 500 15:45	-4.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-02-14 10CDC	333121113413001	600171	33° 31' 25.4"	113° 41' 28.3"	1350	11/2/2010	345.7	V			10/30/2020	350.6	V			-4.9
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 13ADA	334121113450101	600133	33° 41' 33.5"	113° 44' 57.2"	1239	11/2/2010	365.6	V			10/30/2020	333.3	V			32.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 18BCC	334122113510901	620833	33° 41' 21.8"	113° 51' 9.3"	1133	11/2/2010	143.9	V			10/29/2020	154.1	S			-10.2
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-14 32BAA	333910113432801	600131	33° 39' 9.6"	113° 43' 24.6"	1238	11/2/2010	334	V			10/30/2020	438.6	V			-104.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 35BDD2	334357113473201	801955	33° 43' 55.9"	113° 47' 29.9"	1208	11/2/2010	329.7	V			10/27/2020	380.8	V			-51.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 25DCC	334422113524001	614479	33° 44' 21.9"	113° 52' 41"	1123	11/2/2010	162.9	V			10/29/2020	175.6	S			-12.7
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 29DAA	334446113500601	613116	33° 44' 46.4"	113° 50' 6.7"	1121	11/2/2010	205.7	V			10/27/2020	233.3	V			-27.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-15 27BBA	335024113485701	614505	33° 50' 24.5"	113° 48' 52.2"	1352	11/2/2010	437.3	V			10/27/2020	439.6	V			-2.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 20ACD	335054113564301	505096	33° 50' 55.3"	113° 56' 43.6"	1055	11/2/2010	120.9	V			10/27/2020	132.1	V			-11.2
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 09BCC	334722113562001	600166	33° 47' 23.5"	113° 56' 19"	1083	11/2/2010	143.3	V			10/27/2020	147.1	V			-3.8
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 22ADA	335102113541301	613119	33° 51' 3.1"	113° 54' 16.6"	1121	11/2/2010	191.6	V			10/27/2020	196.9	V			-5.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 12AAA	335257113520601	613120	33° 53' 2.1"	113° 52' 11.8"	1207	11/2/2010	286.1	V			10/27/2020	288.1	V			-2.0
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-07-17 23CAC2	335556114000101	645951	33° 55' 58.4"	114° 0' 10.3"	952	11/2/2010	76.4	V			10/27/2020	79.9	S			-3.5
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 14CAA	334118113463501	600129	33° 41' 20.62"	113° 46' 30.91"	1181.1	6/6/2011	289.75	VT	K		6/9/2021	329.96	VT	K	RED 500 12:30	-40.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-13-15 17CBD	342753113511901		34° 27' 51.3"	113° 51' 23.9"	2080	10/27/2010	666.8	V			10/23/2020	665.6	V			1.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-16 07BDD	343923113583301	611808	34° 39' 23.9"	113° 58' 32.9"	2341	10/27/2010	934.5	V			10/20/2020	935.6	V			-1.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-19 07AAB	343940114170301	629451	34° 39' 39.8"	114° 17' 4.1"	1472	10/28/2010	484.5	V			10/22/2020	498.7	V		PUMP OFF ~7.5 HOURS	-14.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-16 01CAB	344005113532701		34° 40' 5.7"	113° 53' 27"	3074	10/27/2010	100	V			10/20/2020	103.4	V			-3.4
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-20 13BCD	344347114180601	616522	34° 43' 43.4"	114° 18' 45.1"	980	10/26/2010	38.2	V			10/21/2020	31.3	S			6.9
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-20H 11CCD	344408114260401	611577	34° 44' 6.5"	114° 26' 6.6"	690	10/28/2010	227.8	V	R		10/21/2020	233.8	V	R		-6.0
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-19 10CBC	344424114144301		34° 44' 23.6"	114° 14' 44.2"	1162	10/26/2010	63.7	V			10/21/2020	63.2	S			0.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-17-18 25ADB1	344954114084501	628122	34° 49' 54.91"	114° 8' 33.33"	1745.99	6/27/2011	297.1	VT			6/25/2021	296.14	VT		TAKEN WITH BLACK 500 AT 11:20	1.0
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-18-18 25CCC1	345435114092301	536616	34° 54' 36.3"	114° 9' 19.8"	1936	10/28/2010	336.4	V			10/20/2020	336.1	V			0.3
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-18-18 01DCD	345801114082801		34° 58' 8.9"	114° 8' 36.9"	2181	10/26/2010	526.2	V			10/20/2020	527.7	V			-1.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-18 22AAC	350633114103701		35° 6' 33.72"	114° 10' 36.15"	2495.57	6/28/2011	745.05	VT			6/25/2021	751.69	VT		TAKEN WITH RED 1500 AT 10:30	-6.6

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-17 E07AAB2	350818114063901	529524	35° 8' 17.1"	114° 6' 42.7"	2858	10/27/2010	177.4	V			10/20/2020	177	V			0.4
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-19 01DDD	351344114151501	523964	35° 13' 45"	114° 15' 15.3"	2815	10/26/2010	1041.6	V			10/20/2020	1046	V			-4.4
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-18 05DBD	351401114132401	610756	35° 14' 1.24"	114° 13' 21.91"	2855.82	11/9/2010	1065.19	VT			10/20/2020	1069.8	VT		BLACK 1500 TAPE	-4.6
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 34DDB2	350937114044201	646882	35° 9' 37.6"	114° 4' 41.8"	3047	10/26/2010	60.9	V			10/20/2020	61	V			-0.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 24CBC	351123114032201	612663	35° 11' 25.7"	114° 3' 23.2"	3335	10/27/2010	140.1	V			10/20/2020	142.4	V			-2.3
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-17 20DCC	343712114034501	590022	34° 37' 12.2"	114° 3' 42.4"	1890	10/27/2010	496.9	V			10/20/2020	496.1	V			0.8
SAFFORD BASIN	GILA VALLEY	D-08-28 22CCB	324303109283601	615569	32° 43' 3.3"	109° 28' 36.3"	3340	11/30/2010	81.6	S			11/5/2020	88.3	S			-6.7
SAFFORD BASIN	GILA VALLEY	D-07-26 22BAB	324855109403301	622921	32° 48' 58"	109° 40' 36.6"	2951.16	11/30/2010	32.5	S			11/3/2020	45.9	S			-13.4
SAFFORD BASIN	GILA VALLEY	D-07-25 10AAD	325033109460101	533141	32° 50' 31.9"	109° 46' 1.6"	2924	11/29/2010	59.7	S			11/2/2020	60.8	V			-1.1
SAFFORD BASIN	GILA VALLEY	D-06-25 30CBA	325253109495501	611078	32° 52' 54.3"	109° 49' 55.2"	2890	11/29/2010	35.4	S			11/5/2020	35.8	S			-0.4
SAFFORD BASIN	GILA VALLEY	D-05-23 25DCD	325742109560901	803164	32° 57' 43.2"	109° 56' 7.7"	2778	11/29/2010	48.3	S			11/5/2020	55.3	S			-7.0
SAFFORD BASIN	GILA VALLEY	D-05-24 25BBC	325822109503601	637301	32° 58' 21.5"	109° 50' 35.5"	3065	11/29/2010	159.2	S			11/5/2020	166.8	S			-7.6
SAFFORD BASIN	GILA VALLEY	D-04-22 35ADA	330240110031101	611941	33° 2' 39.7"	110° 3' 13.1"	2857.54	11/29/2010	23.9	S			11/5/2020	31.1	S			-7.2
SAFFORD BASIN	GILA VALLEY	D-05-23 03CAB1	330135109583801	624721	33° 1' 32.5"	109° 58' 37.8"	2790	11/29/2010	73	S			11/5/2020	74	S			-1.0
SAFFORD BASIN	GILA VALLEY	D-05-23 02DBC2	330128109572301		33° 1' 27.8"	109° 57' 23.4"	2720	11/29/2010	31.4	S			11/5/2020	31.6	S			-0.2
SAFFORD BASIN	GILA VALLEY	D-08-26 33CDC1	324113109415401		32° 41' 11.91"	109° 41' 37.56"	3341.21	2/1/2011	40.89	VT			2/9/2021	48.93	VT		TAKEN WITH BLACK 500 AT 10:30	-8.0
SAFFORD BASIN	GILA VALLEY	D-10-26 25CBA	323240109384601	644135	32° 32' 5.1"	109° 38' 39.2"	4089	11/30/2010	634.4	V			11/3/2020	642.8	V			-8.4
SAFFORD BASIN	GILA VALLEY	D-09-27 09ADD	324002109344501	807397	32° 40' 2.6"	109° 34' 45.5"	3280	11/30/2010	144.2	S			11/3/2020	151.5	S			-7.3
SAFFORD BASIN	SAN CARLOS VALLEY	D-01-16 09CBC UNSURV	332128110432101	526251	33° 21' 27"	110° 43' 22.5"	3510	11/29/2010	676.1	V			11/6/2020	704	V			-27.9
SAFFORD BASIN	SAN SIMON VALLEY	D-16-31 09ACB	320316109103801	616118	32° 3' 15.9"	109° 10' 38.4"	4310	12/1/2010	583.2	V			11/4/2020	600.7	V			-17.5
SAFFORD BASIN	SAN SIMON VALLEY	D-20-32 09BBB	314238109050701	602723	31° 42' 39.2"	109° 5' 7"	4297	12/2/2010	195	V			11/5/2020	198.8	V			-3.8
SAFFORD BASIN	SAN SIMON VALLEY	29S 22W 11 243A	314750109024501		31° 47' 50.7"	109° 2' 51.2"	4164	12/2/2010	134.8	V			11/5/2020	151.6	V			-16.8
SAFFORD BASIN	SAN SIMON VALLEY	D-17-32 N06AAB	315901109062301	621601	31° 59' 4"	109° 6' 21.4"	4219	12/1/2010	319.9	V	P		11/4/2020	336.1	V	P		-16.2
SAFFORD BASIN	SAN SIMON VALLEY	27S 21W 07 232A	315836109011501		31° 58' 27.7"	109° 1' 23.1"	4018	12/2/2010	130.5	V			11/5/2020	141.4	V			-10.9
SAFFORD BASIN	SAN SIMON VALLEY	27S 21W S06 443	315846109011601		31° 58' 46.3"	109° 1' 15.6"	4001	12/2/2010	123.5	V			11/5/2020	135.6	V			-12.1
SAFFORD BASIN	SAN SIMON VALLEY	D-16-32 21CCB	320051109050601		32° 0' 55.2"	109° 5' 11.8"	4088	12/1/2010	202	V			11/4/2020	225	V			-23.0
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 35BCC	321016109094501	808789	32° 10' 14.2"	109° 9' 27"	3772	12/1/2010	246.6	V			11/4/2020	374.8	V			-128.2
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 34ACC	321016109095601		32° 10' 13.9"	109° 9' 58.6"	3774	12/1/2010	216.5	V			11/4/2020	283.6	V			-67.1
SAFFORD BASIN	SAN SIMON VALLEY	D-14-32 30CCB	321053109071801	613339	32° 10' 53.6"	109° 7' 18.3"	3730	12/1/2010	230.4	V			11/4/2020	314.2	V			-83.8
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 22ADC	321200109094501	612633	32° 11' 57.9"	109° 9' 44.2"	3693	12/1/2010	199	V	K		11/4/2020	309.6	V	K		-110.6
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 19BAC	321210109132001	615982	32° 12' 10.4"	109° 13' 20.3"	3713	12/1/2010	78.8	V			11/4/2020	93.6	S			-14.8
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 08ABC1	321355109120501	810297	32° 13' 59.8"	109° 12' 5.5"	3632	12/1/2010	54.4	V			11/3/2020	61.4	V			-7.0
SAFFORD BASIN	SAN SIMON VALLEY	D-13-29 24DCC2	321648109202001	621310	32° 16' 46.7"	109° 20' 19.9"	3655	11/30/2010	144.6	V			11/3/2020	289.1	V			-144.5
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 13BCD	321812109264401	610898	32° 18' 12.11"	109° 26' 46.79"	3732.16	2/1/2011	110.57	VT			2/9/2021	114.76	VT		TAKEN WITH BLACK 500 AT 11:25	-4.2
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 22BCC	321721109286001	618342	32° 17' 19.6"	109° 28' 59.6"	3840	11/30/2010	538.1	V			11/3/2020	580.6	V			-42.5
SAFFORD BASIN	SAN SIMON VALLEY	D-13-30 09ACD2	321857109170101		32° 18' 58.3"	109° 16' 59.6"	3566	11/30/2010	49.8	V			11/3/2020	51.1	V			-1.3
SAFFORD BASIN	SAN SIMON VALLEY	D-12-27 32AAB1	322110109362701	809568	32° 21' 11.6"	109° 36' 24.5"	3979	11/30/2010	131.9	V			11/2/2020	132.6	V			-0.7
SALT RIVER BASIN	SALT RIVER CANYON	A-08-23 06DBD	340655109570701	521646	34° 6' 55.2"	109° 57' 7.1"	6918	10/13/2010	147	V			10/21/2020	168.4	V			-21.4
SALT RIVER BASIN	SALT RIVER LAKES	A-05-11 18AAA	334653111154101	600998	33° 46' 54.1"	111° 15' 40.4"	2145	10/25/2010	3.2	V			10/19/2020	5.5	S			-2.3
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 16CCC	312006109180601	616444	31° 20' 5"	109° 17' 59.8"	3796	11/17/2010	31.1	S			11/3/2020	31.5	V			-0.4
SAN RAFAEL BASIN	SAN RAFAEL	D-24-17 14BBA	312109110352501		31° 21' 9.5"	110° 35' 25.6"	4645	1/11/2011	6.33	S			2/24/2021	7.8	S			-1.5
SAN RAFAEL BASIN	SAN RAFAEL	D-24-16 01CBA UNSURV	312207110400301	640950	31° 22' 6.9"	110° 40' 3.1"	5003	1/11/2011	211.2	V			1/29/2021	211.7	V			-0.5
SAN RAFAEL BASIN	SAN RAFAEL	D-24-17 15CCA	312031110363201	602673	31° 20' 30.3"	110° 36' 32.3"	4680	1/11/2011	13.1	V			1/26/2021	13.7	V			-0.6
SAN RAFAEL BASIN	SAN RAFAEL	D-23-17 10CBC2	312647110364101	624898	31° 26' 45.4"	110° 36' 40.7"	4946	1/1/2011	122.2	V			1/29/2021	123.6	V			-1.4
SAN RAFAEL BASIN	SAN RAFAEL	D-22-17 25BDB2	312941110341601	630082	31° 29' 42.5"	110° 34' 20.7"	5085	1/12/2011	25.9	V			1/29/2021	31.3	V			-5.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-13 01DBC	312204110575601	571751	31° 22' 2.9"	110° 57' 57.1"	3827	1/20/2011	288.1	V			2/19/2021	278.9	V		CITY WELL IS OFF	9.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-13 31ABD	314413111030001		31° 44' 13.2"	111° 2' 54.4"	3042	1/18/2011	84	V			2/25/2021	82.4	S			1.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 01BBD UNSURV	312740110581301	506506	31° 27' 39.31"	110° 58' 15.31"	3444.16	1/27/2011	23.28	VT			2/18/2021	34.48	VT		TAKEN AT 11 AM WITH BLACK 500	-11.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 05AAC	314321111075001	640384	31° 43' 21.09"	111° 7' 50.83"	3226.08	1/26/2011	17.74	VT			2/18/2021	20.82	VT			-3.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 31AAC2UNSURV	313345111024802	551439	31° 33' 44.81"	111° 2' 45.48"	3262.76	1/26/2011	9.57	VT			2/18/2021	9.52	VT		TAKEN AT 11:45 WITH BLACK 500	0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 31AAC1UNSURV	313345111024801	551438	31° 33' 44.85"	111° 2' 45.46"	3262.6	1/26/2011	7.83	VT			2/18/2021	7.27	VT		TAKEN WITH BLACK 500 AT 11:30	0.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 08ADC UNSURV	312124110493301	510018	31° 21' 23.69"	110° 49' 33.71"	3836.21	1/19/2011	85.4	S			2/19/2021	89	V			-3.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 04DDD1 UNSUR	312147110482801	625364	31° 21' 46.4"	110° 48' 27.6"	4018	1/10/2011	83.3	V			1/28/2021	93.8	S			-10.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 18CBC	312017110573001	603434	31° 20' 19.7"	110° 57' 26.8"	3957	1/11/2011	203.4	V			1/28/2021	203.9	S			-0.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 18BAD UNSURV	312048110504901		31° 20' 41.8"	110° 50' 57.8"	3715	6/16/2011	14.9	S	S		5/27/2021	12.1	V	S		2.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 22CDD2	312426110540201		31° 24' 28.3"	110° 54' 4.7"	3570	1/19/2011	13.9	S			2/19/2021	26.2	S			-12.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-15 19ABB	312513110505401	805426	31° 25' 13.3"	110° 50' 53.7"	3885	1/10/2011	141.1	V			1/28/2021	143.6	S			-2.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 15CCB1	312523110542801	607491	31° 25' 27.1"	110° 54' 28.3"	3554	1/19/2011	48.9	S			2/19/2021	46.8	V			2.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 16BCC	312545110552801	619649	31° 25' 43.2"	110° 55' 26.4"	3509	1/19/2011	12.2	S			2/19/2021	17.1	S			-4.9
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 31DAB	312301111024801	634030	31° 23' 1.2"	111° 2' 47.4"	4040	1/11/2011	316.3	V			1/27/2021	319.6	V			-3.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36BDD	312308110580601	506340	31° 23' 8.38"	110° 58' 4.45"	3700.19	1/27/2011	156.44	VT			2/18/2021	158.88	VT		TAKEN AT 9:40 WITH BLACK 500	-2.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36ADB	312316110574801	603432	31° 23' 14.4"	110° 57' 42.7"	3675	1/11/2011	130.3	V			1/28/2021	130.4	V			-0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 35DDB UNSURV	312756110584801	619351	31° 27' 56.9"	110° 58' 48.5"	3435	1/11/2011	18.2	S			1/26/2021	20.3	S			-2.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 36AD UNSURV	312823110573501	619352	31° 28' 24.4"	110° 57' 33.3"	3471	1/20/2011	42.4	V			2/19/2021	29.2	V			13.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 12ACD UNSURV	312630110575301	603437	31° 26' 38.4"	110° 57' 49.7"	3478	1/10/2011	21.8	S			1/26/2021	22.9	S			-1.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 08CB UNSURV	312633111023301		31° 26' 31.5"	111° 2' 34.5"	3575	1/18/2011	12.8	S			2/19/2021	13.8	S			-1.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 05DD2 UNSURV	313211111014001	619360	31° 32' 12.2"	111° 1' 39.8"	3307	1/10/2011	16.2	S			1/26/2021	15.8	S			0.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 27AAB UNSURV	312929110594201	619353	31° 29' 29.5"	110° 59' 43.7"	3379	1/11/2011	10.9	S			1/26/2021	13.1	S			-2.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 19DCC1 UNSUR	312946111025301	524009	31° 29' 41.4"	111° 2' 58.9"	3490	1/10/2011	200.6	V			1/26/2021	199.6	S			1.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 09DCC UNSURV	313120111005801	605206	31° 31' 20.4"	111° 0' 58.5"	3340	1/18/2011	18.3	S			2/25/2021	18.2	V			0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 19DBC	313506111030701	617995	31° 35' 6.7"	111° 3' 6.1"	3255	1/10/2011	24.2	S			1/26/2021	20.9	S			3.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-12 24AAA	313539111033701	509495	31° 35' 39.8"	111° 3' 40"	3378	1/18/2011	157.2	S			2/25/2021	155.5	V			1.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 30DCA	313406111330201	629110	31° 34' 8.1"	111° 2' 56"	3250	9/7/2011	12.6	S			8/11/2021	9.8	S			2.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 26CAD2	313915111052001	804782	31° 39' 26.6"	111° 5' 14.1"	3290	1/20/2011	177.8	V			1/27/2021	175.1	V			2.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 05CCB	313735111023701	608125	31° 37' 35.27"	111° 2' 36.07"	3180.46	1/26/2011	15.63	VT			2/18/2021	16.28	VT		TAKEN AT 12:15 WITH BLACK 500	-0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 06DAA	313747111023901	608112	31° 37' 46.3"	111° 2' 39.5"	3175	1/11/2011	25.7	S			1/26/2021	24.3	S			1.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-11 11DCC2	314152111111601	801469	31° 41' 53.1"	111° 11' 15.6"	3380	1/12/2011	47.3	S			1/25/2021	55.1	V			-7.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 09DDD	314157111003701	611218	31° 41' 54.6"	111° 0' 36.3"	3450	1/18/2011	243.3	V			2/25/2021	247	V			-3.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-11 21DAA	314024111125301	606136	31° 40' 23.1"	111° 12' 51.8"	3455	1/12/2011	58.6	S			1/25/2021	62.9	S			-4.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 34BCC	314401111124501	616247	31° 44' 1.5"	111° 12' 44.9"	3640	1/13/2011	177.1	V			1/27/2021	177.7	V			-0.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 23CCB	314526111114901	625265	31° 45' 27.1"	111° 11' 47.3"	3570	1/13/2011	174.6	V			1/27/2021	168.3	V			6.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 06CBA	314303111032801	627932	31° 43' 1.1"	111° 3' 24.1"	3064	1/11/2011	53.3	S			1/25/2021	55.9	S			-2.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 05ADB2	314318111075401	621510	31° 43' 17.9"	111° 7' 56"	3224	1/12/2011	21.7	S			1/27/2021	22.7	S			-1.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 06AAD	312230110503301	803465	31° 22' 30"	110° 50' 35.72"	3663.85	1/27/2011	17.52	VT			2/18/2021	24.53	VT		TAKEN AT 10:15 WITH BLACK 500	-7.0
TONTO CREEK BASIN	TONTO CREEK	A-06-10 14ABC2	335205111180601	560965	33° 52' 2.2"	111° 18' 5.4"	2316	10/25/2010	11.29	S			10/19/2020	15.7	S			-4.4
TONTO CREEK BASIN	TONTO CREEK	A-09-10 32BDB	340458111211801	601022	34° 4' 58.5"	111° 21' 18.1"	3030	10/25/2010	37.82	S			10/5/2020	31.6	S			6.2
TONTO CREEK BASIN	TONTO CREEK	A-08-10 20ABA	340143111211001	601016	34° 1' 43.9"	111° 21' 10.1"	3060	3/24/2011	47.2	S			5/4/2021	49.3	S			-2.1
TONTO CREEK BASIN	TONTO CREEK	A-10-10 11ACB	341336111174801	509660	34° 13' 35.1"	111° 17' 51.41"	4821.29	3/8/2011	4.51	VT			3/5/2021	7.02	VT		BLUE 500 09:30	-2.5
TONTO CREEK BASIN	TONTO CREEK	A-10-10 11BBA	341350111181301	620871	34° 13' 49.7"	111° 18' 13.2"	4960	2/16/2011	38.9	V			2/22/2021	36.7	V			2.2
TONTO CREEK BASIN	TONTO CREEK	A-09-10 05AAA	340932111204001		34° 9' 31"	111° 20' 41.9"	4180	11/9/2010	87.6	V			10/19/2020	88.7	V			-1.1
TONTO CREEK BASIN	TONTO CREEK	A-11-10 26DAB	341558111173301	565428	34° 15' 58.14"	111° 17' 33.03"	4971.9	3/8/2011	92.82	VT			3/5/2021	85.83	VT		BLUE 500 10:00	7.0
TONTO CREEK BASIN	TONTO CREEK	A-11-10 26BBC	341623111182401	577330	34° 16' 22.5"	111° 18' 23.5"	5120	2/16/2011	120.5	V			2/22/2021	129.6	V			-9.1
TUCSON AMA	AVRA VALLEY	D-08-12 19DDA	324304111082101	804174	32° 43' 2.1"	111° 8' 16.7"	2672	1/11/2011	10.6	V			1/26/2021	20.1	S			-9.5
TUCSON AMA	AVRA VALLEY	D-07-13 15CAC1	324919110585701		32° 49' 14.8"	110° 59' 36.7"	3510	1/11/2011	27.2	V			1/26/2021	30.8	S			-3.6
TUCSON AMA	AVRA VALLEY	D-21-10 19DAD	313506111210901		31° 35' 5.88"	111° 21' 6.94"	3576.84	1/26/2011	26.74	VT			2/18/2021	29.11	VT		TAKEN AT 14:20 WITH BLACK 500	-2.4
TUCSON AMA	AVRA VALLEY	D-21-10 35CCD	313305111174901		31° 33' 4.73"	111° 17' 46.48"	3699.36	1/26/2011	31.45	VT			2/18/2021	36.58	VT		TAKEN WITH BLACK 500 AT 15:55	-5.1
TUCSON AMA	AVRA VALLEY	D-21-10 29ADB	313433111201601		31° 34' 32.74"	111° 20' 13.63"	3609.3	1/26/2011	7.76	VT			2/18/2021	12.68	VT		TAKENT AT 15:10 WITH BLACK 500	-4.9
TUCSON AMA	AVRA VALLEY	D-22-08 34ABA	312827111303301	630270	31° 28' 35"	111° 30' 32.1"	3435	1/12/2011	197.8	V			2/25/2021	204.6	V			-6.8
TUCSON AMA	AVRA VALLEY	D-20-08 35BDB	313850111295701	630265	31° 38' 46.3"	111° 29' 55.8"	3463	1/12/2011	461.4	V			1/28/2021	467.8	V			-6.4
TUCSON AMA	AVRA VALLEY	D-21-10 22ABA	313538111181801	510465	31° 35' 37.9"	111° 18' 18.3"	3735	1/12/2011	96	V			1/25/2021	98.3	S			-2.3
TUCSON AMA	AVRA VALLEY	D-20-09 17ABA	314135111263101	630266	31° 41' 38.5"	111° 26' 30.3"	3254	1/12/2011	302.6	V			1/28/2021	310.1	V			-7.5
TUCSON AMA	AVRA VALLEY	D-19-09 03ACA	314830111243101	634260	31° 48' 29.1"	111° 24' 30.5"	3052	1/12/2011	321.8	V			1/27/2021	321.7	V			0.1
TUCSON AMA	AVRA VALLEY	D-18-09 11BAC	315257111234501	624829	31° 52' 59"	111° 23' 47"	2915	1/12/2011	245.8	V			1/27/2021	245.6	V			0.2
TUCSON AMA	AVRA VALLEY	D-17-09 02DDA	315825111230601	612492	31° 58' 30.2"	111° 23' 8.3"	2744	1/12/2011	184	V			1/27/2021	183.9	V			0.1
TUCSON AMA	AVRA VALLEY	D-16-10 19CCA	320104111215301	613949	32° 1' 11"	111° 21' 55.1"	2652	1/12/2011	153.2	V			1/27/2021	153.2	V			0.0
TUCSON AMA	AVRA VALLEY	D-16-10 34BAA	320007111183601	621997	32° 0' 0.9"	111° 18' 33.5"	3096	1/12/2011	601.3	V			2/25/2021	601.5	V			-0.2
TUCSON AMA	AVRA VALLEY	D-15-10 33CBC2	320434111200701	603530	32° 4' 33.5"	111° 20' 6.5"	2536	1/12/2011	154.3	V			1/27/2021	151.8	V			2.5
TUCSON AMA	AVRA VALLEY	D-14-10 12BAC	321256111162901	633627	32° 13' 51.6"	111° 16' 52.6"	2247	1/11/2011	395.3	V			1/27/2021	289.8	V			105.5
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ1	321220111111201	509590	32° 12' 23"	111° 11' 12.9"	2374	12/16/2010	433.1	V			11/13/2020	302.9	V			130.2
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ2	321220111111202	509590	32° 12' 23"	111° 11' 12.9"	2374	12/16/2010	432.2	V			11/13/2020	302.5	V			129.7
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ1	321806111150401	508422	32° 18' 7.5"	111° 15' 6.09"	2144	12/16/2010	337.4	V			11/13/2020	291.4	V			46.0
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ2	321806111150402	508422	32° 18' 7.5"	111° 15' 6.09"	2144	12/16/2010	336.5	V			11/13/2020	295.1	V			41.4
TUCSON AMA	AVRA VALLEY	D-12-11 20AAA	322245111140401	504485	32° 22' 49.6"	111° 14' 0.3"	2019	1/11/2011	212.3	V			1/26/2021	211.5	V			0.8
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ1	322444111095401	508652	32° 24' 45.5"	111° 9' 53.7"	2041	12/15/2010	205.8	V			11/12/2020	212.5	S			-6.7
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ2	322444111095402	508652	32° 24' 45.5"	111° 9' 53.7"	2041	12/16/2010	84.8	V			11/12/2020	96.4	S			-11.6
TUCSON AMA	AVRA VALLEY	D-11-11 34ADD2	322554111115801	604805	32° 25' 55"	111° 11' 57.7"	2009	1/11/2011	204.3	V			1/26/2021	206.8	V			-2.5
TUCSON AMA	AVRA VALLEY	D-11-11 16CDD2	322805111133101	604802	32° 28' 4.7"	111° 13' 30.2"	1968	1/11/2011	191.9	V			1/26/2021	193.9	V			-2.0
TUCSON AMA	AVRA VALLEY	D-11-10 22ADD1	322732111181701	626687	32° 27' 30.6"	111° 18' 15.5"	1914	1/11/2011	155.9	V			1/26/2021	150.3	V			5.6
TUCSON AMA	AVRA VALLEY	D-11-11 11DDB	322923111112101	600235	32° 29' 3.9"	111° 11' 10.3"	2148	1/12/2011	411.9	V			1/28/2021	399.4	V			12.5
TUCSON AMA	AVRA VALLEY	D-10-11 17CAB2	323338111141501	638306	32° 33' 38.8"	111° 14' 13.3"	2136	1/12/2011	439.4	V			1/27/2021	427.4	V			12.0
TUCSON AMA	AVRA VALLEY	D-10-10 20DCC	323152111200401	618728	32° 31' 50.8"	111° 20' 6.5"	1862	1/12/2011	176	V			1/27/2021	168.2	V			7.8
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ1	323307111151901	504994	32° 32' 59.59"	111° 15' 19.6"	2043	12/17/2010	351.6	V			11/12/2020	341	V			10.6
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ2	323307111151902	504994	32° 32' 59.6"	111° 15' 19.6"	2043	12/17/2010	351.3	V			11/12/2020	341	V			10.3
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ1	323623111201201	504993	32° 36' 24.1"	111° 20' 11.8"	1850	12/15/2010	249.9	V			11/12/2020	248.8	V			1.1
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ2	323623111201202	504993	32° 36' 24.1"	111° 20' 11.8"	1850	12/15/2010	199.7	V			11/12/2020	195.1	V			4.6
TUCSON AMA	AVRA VALLEY	D-10-10 05DAD	323438111194501	624751	32° 34' 40.8"	111° 19' 43.9"	1855	1/12/2011	203.1	V			1/25/2021	195	V			8.1
TUCSON AMA	AVRA VALLEY	D-09-10 19ADD	323730111204501	615627	32° 37' 30.9"	111° 20' 42.1"	1836	1/12/2011	201.2	V			1/25/2021	199.7	V			1.5
TUCSON AMA	AVRA VALLEY	D-09-10 19AAA	323753111204601	804195	32° 37' 55.4"	111° 20' 42.9"	1840	1/12/2011	175.8	V			1/25/2021	184.8	V			-9.0
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ1	323759111201201	504992	32° 37' 58.7"	111° 20' 11.6"	1854	12/15/2010	249.8	V			11/10/2020	250.6	V			-0.8
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ2	323759111201202	504992	32° 37' 58.7"	111° 20' 11.6"	1854	12/15/2010	221.2	V			11/10/2020	221.7	V			-0.5
TUCSON AMA	AVRA VALLEY	D-09-13 07CBC	323942111030201		32° 39' 41.3"	111° 3' 0.3"	3115	1/11/2011	55.6	V			1/26/2021	123.1	V			-67.5
TUCSON AMA	AVRA VALLEY	D-09-09 01BCC PZ1	324007111224501	504989	32° 40' 9.8"	111° 22' 37.4"	1858	12/15/2010	292.1	V			11/10/2020	292.5	V			-0.4
TUCSON AMA	UPPER SANTA CRUZ	D-18-14 30ABA	315023110570201	540451	31° 50' 22.4"	110° 56' 0"	3053	2/22/2011	329.9	V			1/28/2021	354	V			-24.1
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 14CAC	320216110405901	209531	32° 2' 16.17"	110° 40' 58.77"	3178.92	1/25/2011	55.49	VT			2/10/2021	53.7	VT		TAKEN WITH BLACK 500 AT 12:45	1.8
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 15ABD	320249110413501	209530	32° 2' 48.68"	110° 41' 35.27"	3147.46	1/25/2011	203.22	VT			2/10/2021	228.98	VT		TAKEN AT 12:00 WITH BLACK 500	-25.8
TUCSON AMA	UPPER SANTA CRUZ	D-17-14 21ADD	315614110543601	216391	31° 56' 14.01"	110° 54' 35.57"	2815.86	1/25/2011	221.85	VT			2/25/2021	225	V			-3.2
TUCSON AMA	UPPER SANTA CRUZ	D-17-14 17BDD	315705110560901	214277	31° 57' 5.01"	110° 56' 9.16"	2733.37	12/2/2010	202.3	VT			11/17/2020	214.42	VT			-12.1
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 29BCC	314454111023701	623122	31° 44' 55.39"	111° 2' 35.36"	3014.8	1/26/2011	79.62	VT			2/18/2021	73.95	VT		TAKEN WITH BLACK 500 AT 17:30	5.7
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 21BAA	314606111011301	623123	31° 46' 7.91"	111° 1' 10.27"	2966.59	1/26/2011	98.1	VT			2/18/2021	96.07	VT		TAKEN WITH BLACK 500 AT 17:10	2.0
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 09CAA	314728111011101	623128	31° 47' 30.8"	111° 1' 8.6"	2955	2/22/2011	131.2	V			1/28/2021	130	V			1.2
TUCSON AMA	UPPER SANTA CRUZ	D-17-15 02DCD	315840110463701		31° 58' 40.3"	110° 46' 36.4"	3198	2/23/2011	555.6	V			1/27/2021	558.8	V			-3.2
TUCSON AMA	UPPER SANTA CRUZ	D-16-13 34AAB2	315958110595201	607785	32° 0' 2.1"	110° 59' 51.8"	2818	2/22/2011	342.5	V			1/28/2021	293.5	V			49.0
TUCSON AMA	UPPER SANTA CRUZ	D-16-14 S06CCD	320335110572701	632691	32° 3' 34.6"	110° 57' 25.9"	2580	2/22/2011	56	V			1/27/2021	55.8	V			0.2
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 09DCD2	320253110423701	504558	32° 2' 53.8"	110° 42' 35.9"	3235	2/23/2011	581.9	V			1/27/2021	598.8	V			-16.9

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 25DBC2	320533110454901	615639	32° 5' 34.6"	110° 45' 47.8"	3029	2/23/2011	445.3	V			1/27/2021	457	V			-11.7
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ2	320402110502802		32° 4' 5.1"	110° 50' 28.4"	2867	2/23/2011	325.07	V			1/27/2021	341.17	V			-16.1
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ3	320402110502803		32° 4' 5.1"	110° 50' 28.4"	2867	2/23/2011	302.55	V			1/27/2021	311.45	V			-8.9
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ1	320732110492201		32° 7' 32.8"	110° 49' 22.9"	2842	2/23/2011	340.89	V			1/27/2021	341.79	V			-0.9
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ2	320732110492202		32° 7' 32.8"	110° 49' 22.9"	2842	2/23/2011	341.55	V			1/27/2021	342.75	V			-1.2
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ3	320732110492203		32° 7' 32.8"	110° 49' 22.9"	2842	2/23/2011	380.34	V			1/27/2021	381.34	V			-1.0
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 06DCB2	320904110570401	616565	32° 9' 5.1"	110° 57' 4.2"	2528	2/24/2011	245.1	V			1/26/2021	167.6	V			77.5
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 03DAD	320910110533001	611361	32° 9' 11"	110° 53' 31"	2646	2/24/2011	396.7	V			2/2/2021	368.6	V			28.1
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 06CAA	320916110570701	616564	32° 9' 16.8"	110° 57' 6.4"	2524	2/24/2011	102.4	V			1/26/2021	96.4	V			6.0
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 06BBB1	320941110512201	621584	32° 9' 41.7"	110° 51' 24.1"	2715	2/24/2011	364.5	V			1/29/2021	369.5	V			-5.0
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ1	321229110553201		32° 12' 29.5"	110° 55' 32.5"	2480	2/23/2011	248.2	V			1/26/2021	231.8	V			16.4
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ2	321229110553202		32° 12' 29.5"	110° 55' 32.5"	2480	2/23/2011	248.9	V			1/26/2021	219.8	V			29.1
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ4	321229110553204		32° 12' 29.5"	110° 55' 32.5"	2480	2/23/2011	250.6	V			1/26/2021	232.9	V			17.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 28AAC	321635110544601		32° 16' 35.2"	110° 54' 45.8"	2387	1/12/2011	102.8	VT			1/25/2021	106.1	S			-3.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 35BAD	321545110530401	636082	32° 15' 44.8"	110° 53' 4.8"	2430	1/12/2011	144.1	S			1/26/2021	137	S			7.1
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 34AAD	321546110533701	806473	32° 15' 47.1"	110° 53' 37.5"	2420	1/13/2011	145.2	V			1/26/2021	153.5	S			-8.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 32CCC	321507111024001	635619	32° 15' 6.9"	111° 2' 40.6"	2468	2/22/2011	232.2	V			1/26/2021	235.4	V			-3.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 35CCA	321514110531701	620140	32° 15' 14.8"	110° 53' 16.8"	2454	1/13/2011	238.3	V			1/26/2021	218	V			20.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26BBB	321647110532201	620156	32° 16' 44.5"	110° 53' 27.4"	2464	1/13/2011	67.9	V			1/25/2021	69.6	S			-1.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 20CCC	321647110563301	618705	32° 16' 47.84"	110° 56' 31.64"	2348.16	1/25/2011	144.94	VT			11/17/2020	142.29	VT		TAKEN AT 14:45 WITH BLACK 500	2.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDD	321649110564001	618684	32° 16' 48.7"	110° 56' 38.2"	2344	1/12/2011	143.9	V			1/25/2021	143.2	S			0.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDB2	321653110564801	618686	32° 16' 53.6"	110° 56' 48.4"	2339	1/12/2011	138.8	V			1/25/2021	145.3	S			-6.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDA2	321654110564101	618723	32° 16' 54.5"	110° 56' 40.4"	2342	1/12/2011	137.2	V			1/25/2021	147.3	S			-10.1
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26DCC	321604110525601	519317	32° 15' 59.7"	110° 52' 59.1"	2421	1/13/2011	50.4	V			1/26/2021	70.2	S			-19.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26CBB2	321614110533001	519320	32° 16' 14.1"	110° 53' 28.9"	2411	1/13/2011	44.6	V			1/25/2021	61.4	S			-16.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30CAA1	321616110571001	620292	32° 16' 15.5"	110° 57' 10.6"	2357	1/12/2011	191.7	V			1/25/2021	175.3	S			16.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30BBD	321635110572602	620294	32° 16' 33.2"	110° 57' 23.5"	2345	1/12/2011	176.7	V			1/25/2021	164.2	S			12.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 29ABB	321639110560401	610524	32° 16' 40.3"	110° 56' 3.2"	2353	1/12/2011	147.8	V			1/25/2021	144.6	V			3.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 17BDD2	321806111021501	510904	32° 18' 5.4"	111° 2' 15.2"	2237	2/22/2011	148.4	V			1/26/2021	153.6	V			-5.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 13BBA	321830110583201	631710	32° 18' 29.7"	110° 58' 29.9"	2398	2/22/2011	251.6	V			1/26/2021	257.1	V			-5.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19BBB1	321735110573301	808475	32° 17' 36"	110° 57' 36.5"	2321.3	1/12/2011	130.7	V			1/25/2021	141.5	S			-10.8
TUCSON AMA	UPPER SANTA CRUZ	D-12-14 05CCD	322434110562501		32° 24' 34.3"	110° 56' 24.8"	2628	1/11/2011	115.3	V			1/26/2021	136.9	V			-21.6
TUCSON AMA	UPPER SANTA CRUZ	D-11-14 04BBC2	323029110553401	807195	32° 30' 29.3"	110° 55' 34.1"	3158	1/11/2011	243.5	V			1/26/2021	256.3	V			-12.8
TUCSON AMA	UPPER SANTA CRUZ	D-10-13 12DDA	323418110565401	615717	32° 34' 21.1"	110° 56' 56"	3430	1/11/2011	452	V			1/28/2021	460.6	V			-8.6
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-07-04 07BCC	335754112430301	628115	33° 57' 53.8"	112° 43' 2.7"	2055	12/15/2010	13	V			10/23/2020	15.3	S			-2.3
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-07-05 03DCB1	335828112453801	605607	33° 58' 20.1"	112° 45' 39.4"	2160	12/16/2010	129.1	V			10/23/2020	133.7	S			-4.6
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-09-05 35DBB	340440112443601		34° 4' 39.3"	112° 44' 35.3"	2640	12/16/2010	399.8	V			10/23/2020	420.3	V			-20.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 26ADC	312405110103101	553330	31° 24' 6.4"	110° 10' 36.2"	4485	11/17/2010	236.2	V			11/3/2020	243.2	V			-7.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 01DCD	313224110154301	519004	31° 32' 24.6"	110° 15' 42.7"	4500	11/18/2010	386.2	V			11/3/2020	396.4	V			-10.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 24DBB	313010110155301	595127	31° 30' 9.5"	110° 15' 53.3"	4645	11/17/2010	452.4	V			11/3/2020	466.6	V			-14.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-15-21 01BBC2	320947110094701	646835	32° 9' 46.8"	110° 9' 46.6"	4365	4/21/2011	166.6	V			11/5/2020	180.1	V			-13.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-20 30CAB	315019110203501	598675	31° 50' 18.65"	110° 20' 35.19"	4541.22	2/2/2011	406.23	VT			2/10/2021	410.37	VT		TAKEN AT 10 AM WITH BLACK 500	-4.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-19 36ADC	314940110212301	593469	31° 49' 40.17"	110° 21' 20"	4702.6	2/2/2011	241.66	VT			2/10/2021	232.65	VT		TAKEN AT 11:00 WITH BLACK 500	9.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-19 25DCB1	315005110212501	626887	31° 50' 4.65"	110° 21' 22.45"	4699.21	2/2/2011	72.38	VT			2/10/2021	84.05	VT		TAKEN WITH BLACK 500 AT 10:30	-11.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-24-22 20BBA	312006110075501		31° 20' 3.7"	110° 8' 5.7"	4295	11/17/2010	40.2	V			11/4/2020	42.1	V			-1.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 25BBC	312421110041001	632053	31° 24' 19.4"	110° 4' 12.5"	4380	11/17/2010	178.9	V			11/4/2020	181.5	V			-2.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-24-23 06AAA1	312244110021601	632051	31° 22' 45.2"	110° 2' 14.5"	4423	11/17/2010	214.1	V			11/4/2020	216	V			-1.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 32DDD2	312249110072101	806643	31° 22' 48.2"	110° 7' 22.7"	4248	11/17/2010	38.8	V			11/4/2020	39.7	V			-0.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 35CDC	312803110165801	805793	31° 28' 2.9"	110° 17' 8.5"	5005	11/17/2010	13.9	V			11/3/2020	39.3	V			-25.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 34ACC	312832110114901	087668	31° 28' 32.1"	110° 11' 50.9"	4410	11/18/2010	206	V			11/4/2020	214.4	V			-8.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 36ABB	312852110155201	623583	31° 28' 52.4"	110° 15' 51.3"	4760	11/17/2010	428	V			11/3/2020	446.1	V			-18.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 07DCC	312619110084801	603003	31° 26' 19.9"	110° 8' 47.5"	4327	11/17/2010	107	V			11/3/2020	110.6	V			-3.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 08DDD	312620110132901	640780	31° 26' 24"	110° 13' 29.5"	4660	11/17/2010	144.6	V			11/5/2020	144.4	V			0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 06CCC2	312712110152101		31° 27' 11.2"	110° 15' 22.2"	4840	11/17/2010	14.4	V			11/3/2020	25.2	V			-10.8
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-22 03CBA	313247110060501	809378	31° 32' 47"	110° 6' 1.9"	4255	11/18/2010	183.5	V			11/4/2020	184.4	V			-0.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 23CBA	313009110111101	642816	31° 30' 10"	110° 11' 11.8"	4320	11/18/2010	133.8	V			11/5/2020	141.5	V			-7.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 24AAA2	313038110152701	623582	31° 30' 37"	110° 15' 25.9"	4605	11/17/2010	427.8	V			11/3/2020	437.1	V			-9.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 18DCD	313041110144301	623581	31° 30' 40.1"	110° 14' 40.3"	4549	11/17/2010	379.7	V			11/3/2020	396.7	V			-17.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-18 15CBD	313104110302901	640945	31° 31' 3.9"	110° 30' 31"	5120	1/12/2011	41.26	S			1/28/2021	45	V			-3.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-17 24AAB	313556110334801	648467	31° 35' 56.2"	110° 33' 48.1"	4965	4/13/2011	34.88	S			1/28/2021	27.7	S			7.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-18 24BBB	313559110283601	628318	31° 36' 0.8"	110° 28' 36.6"	4827	1/13/2011	127.5	V			1/28/2021	129.4	V			-1.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 33CBB1	313341110132101	616677	31° 33' 40.4"	110° 13' 21.29"	4327	11/19/2010	191.4	V			11/4/2020	193.5	V			-2.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 31BDC	313347110150701	610123	31° 33' 42.6"	110° 15' 3.9"	4440	11/18/2010	307.2	V			11/3/2020	314.5	V			-7.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 34AAA	313404110173101	610125	31° 34' 7.1"	110° 17' 28.3"	4566	11/18/2010	447.3	V			11/3/2020	453.3	V			-6.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 27CAA	313425110115401	805650	31° 34' 26.3"	110° 11' 51.4"	4250	11/16/2010	68.1	V			11/2/2020	67.8	V			0.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 SO5ABC	313825110195801	603068	31° 38' 24.4"	110° 19' 52.1"	4335	11/19/2010	214.6	V			11/2/2020	221.6	V			-7.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 16AAC1	313639110183501		31° 36' 35.15"	110° 18' 36.12"	4429.82	2/2/2011	298.81	VT			6/17/2021	304.71	VT		TAKEN AT 10 WITH BLACK 500 TAPE	-5.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-22 06ACD2	313808110083801		31° 38' 9.8"	110° 8' 35.4"	4130	11/16/2010	29.1	V			11/2/2020	28.9	V			0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-23 35ACD	314417109575101	616270	31° 44' 18"	109° 57' 51.4"	4880	11/16/2010	291.9	V			11/2/2020	291.6	V			0.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-22 11ADB	314239110035301	616498	31° 42' 41.5"	110° 3' 49.8"	4550	11/16/2010	419	V			11/2/2020	424.3	V			-5.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 07BDB	314239110204301		31° 42' 43.5"	110° 20' 41.4"	4345	11/19/2010	226.3	V			1/27/2021	231.7	V			-5.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 02DDD	314300110155401	616332	31° 43' 0"	110° 15' 53.9"	4183	11/15/2010	101.3	V			11/2/2020	104.4	V			-3.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-23 32DBB	314927110010301		31° 49' 28.3"	110° 1' 3.3"	4840	11/17/2010	611.2	V			11/5/2020	611.6	V			-0.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-21 12DBB2	314738110090601	616255	31° 47' 38"	110° 9' 6.7"	4044	11/17/2010	220.2	V			11/5/2020	221.4	V			-1.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-21 28DAA	315019110115001	612550	31° 50' 19.2"	110° 11' 46.5"	3745	11/17/2010	79.9	V			11/5/2020	82.6	S			-2.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-20 06BDD	315356110203001	623648	31° 54' 0.5"	110° 20' 32.6"	4440	11/9/2010	259.2	V			11/2/2020	273.3	V			-14.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-20 14CCC	315700110164501	808248	31° 57' 1.4"	110° 16' 50.7"	3582	4/20/2011	27.01	S			11/5/2020	9.5	S			17.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-21 32BBA	315508110133401	623646	31° 55' 9.5"	110° 13' 33.1"	3697	11/17/2010	66.2	S			11/6/2020	71.8	S			-5.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-19 14ACA	315734110221301		31° 57' 31.9"	110° 22' 21"	4180	2/2/2011	551.4	V			11/6/2020	558.3	V			-6.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-16-20 34ACB	320005110170901	611018	32° 0' 8.4"	110° 17' 14.5"	3533	11/16/2010	79.2	S			11/6/2020	76.6	S			2.6
VERDE RIVER BASIN	BIG CHINO	B-15-03 03AAC	344253112333001	906571	34° 42' 52.7"	112° 33' 30.3"	5165	3/23/2011	71.1	V			3/23/2021	81.2	V			-10.1
VERDE RIVER BASIN	BIG CHINO	B-17-02 14ADA	342600112513401		34° 51' 34.5"	112° 26' 0.2"	4250	8/16/2011	5.6	S			8/18/2021	3.3	S			2.3
VERDE RIVER BASIN	BIG CHINO	B-16-04 16DCD	344549112410901	614807	34° 45' 48.8"	112° 41' 9"	4643	8/18/2011	14.3	S			8/23/2021	25.1	V			-10.8
VERDE RIVER BASIN	BIG CHINO	B-16-04 27BCB	344435112404301	631901	34° 44' 35.7"	112° 40' 43.9"	4682	8/18/2011	35.7	S			8/23/2021	41.6	V			-5.9
VERDE RIVER BASIN	BIG CHINO	B-17-04 26DBC UNSURV	344930112391901	614821	34° 49' 31"	112° 39' 17.1"	4634	8/18/2011	76.9	V	P		8/23/2021	77.6	V	P		-0.7
VERDE RIVER BASIN	BIG CHINO	B-16-04 11CAA	344703112392201	605598	34° 47' 2.5"	112° 39' 19.4"	4601	3/9/2011	10	S			3/23/2021	10.4	S			-0.4
VERDE RIVER BASIN	BIG CHINO	B-17-05 34DBB	344841112463701	802802	34° 48' 41.2"	112° 46' 36.7"	4875	8/18/2011	15.2	S			8/23/2021	16.7	V			-1.5
VERDE RIVER BASIN	BIG CHINO	B-17-02 06BBB	345338112311801	603912	34° 53' 40.51"	112° 31' 19.62"	4388.33	4/20/2011	133.3	V			6/4/2021	139.17	VT		RED 500 09:15	-5.9
VERDE RIVER BASIN	BIG CHINO	B-18-04 33DDD	345347112405801	622514	34° 53' 46"	112° 40' 56.1"	4654	3/9/2011	178.7	V			3/25/2021	169.9	V			8.8
VERDE RIVER BASIN	BIG CHINO	B-18-02 27DDA	345449112271101	614831	34° 54' 46.1"	112° 27' 12.6"	4482	8/15/2011	226.2	V			8/25/2021	229	V			-2.8
VERDE RIVER BASIN	BIG CHINO	B-17-02 20ABD	345048112292201	801489	34° 50' 49.8"	112° 29' 21.1"	4467	3/23/2011	188.5	V			3/25/2021	193.2	V			-4.7
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04CDA1	345301112283701	609267	34° 52' 56.4"	112° 28' 40.64"	4358.63	4/20/2011	105	V			6/2/2021	110.03	VT		BLUE 500	-5.0
VERDE RIVER BASIN	BIG CHINO	B-19-05 25AAA	350037112440301	624141	35° 0' 35.8"	112° 44' 3.5"	4770	3/9/2011	135.5	V			3/24/2021	135.8	V			-0.3
VERDE RIVER BASIN	BIG CHINO	B-19-03 19CBD	350059112373101	611027	35° 0' 57.7"	112° 37' 31"	4530	9/1/2011	56.9	V			8/17/2021	54.7	V			2.2
VERDE RIVER BASIN	BIG CHINO	B-18-03 26BDB1	345507112330901	557247	34° 55' 8"	112° 33' 11.6"	4405	8/15/2011	136.9	V			8/25/2021	141.2	V			-4.3
VERDE RIVER BASIN	BIG CHINO	B-18-03 24DAC	345542112312801		34° 55' 39.7"	112° 31' 30"	4435	8/15/2011	170.9	V			8/25/2021	175.7	V			-4.8
VERDE RIVER BASIN	BIG CHINO	B-18-04 16DDA	345629112405201	622506	34° 56' 32.5"	112° 40' 53.2"	4655	8/18/2011	393.9	V			8/24/2021	404.9	V			-11.0
VERDE RIVER BASIN	BIG CHINO	B-18-04 12DDD	345712112374501	622509	34° 57' 11.5"	112° 37' 44.2"	4538	8/18/2011	135.7	V			8/24/2021	168.1	V			-32.4
VERDE RIVER BASIN	BIG CHINO	B-18-05 W12CBD	345734112445501	631896	34° 57' 34.4"	112° 44' 55.9"	4850	3/9/2011	129.7	V			3/24/2021	134.3	V			-4.6
VERDE RIVER BASIN	BIG CHINO	B-20-05 15CCC	350647112471101	624139	35° 6' 46.9"	112° 47' 10.7"	4984	8/17/2011	184.9	V			8/25/2021	192.8	V			-7.9
VERDE RIVER BASIN	BIG CHINO	B-20-05 13DAA	350709112441101	624124	35° 7' 9.7"	112° 44' 10.8"	4606	9/1/2011	71.7	V			8/17/2021	69	V			2.7
VERDE RIVER BASIN	BIG CHINO	B-19-05 13BBA	350224112445801	624143	35° 2' 24.1"	112° 44' 57.4"	4902	3/9/2011	226.3	V			4/5/2021	239.1	V			-12.8
VERDE RIVER BASIN	BIG CHINO	B-19-04 10BCB	350302112404801	607026	35° 3' 2.5"	112° 40' 48.3"	4529	3/10/2011	20.3	V			3/23/2021	20.4	S			-0.1
VERDE RIVER BASIN	BIG CHINO	B-19-04 10ADA	350303112395601	607043	35° 3' 2.8"	112° 39' 55.6"	4562	3/11/2011	62	V			3/23/2021	60.5	V			1.5
VERDE RIVER BASIN	BIG CHINO	B-19-04 05CCB	350327112425901	624147	35° 3' 26.8"	112° 42' 58.7"	4649	8/16/2011	140.3	V	P		3/24/2021	148.5	V	P		-8.2
VERDE RIVER BASIN	BIG CHINO	B-19-04 04CAC	350332112413701	624118	35° 3' 30.9"	112° 41' 37.3"	4547	9/1/2011	33.5	V			8/17/2021	22.8	V			10.7
VERDE RIVER BASIN	BIG CHINO	B-19-04 03BCD	350341112403901	607028	35° 3' 46.8"	112° 40' 39.2"	4560	3/10/2011	48.7	V			3/24/2021	47.6	S			1.1
VERDE RIVER BASIN	BIG CHINO	B-19-04 04BAC	350356112413901	624125	35° 3' 56.7"	112° 41' 39.3"	4549	9/1/2011	43.6	V			8/17/2021	28.8	V			14.8
VERDE RIVER BASIN	BIG CHINO	B-20-05 34CDD	350410112464401	644045	35° 4' 11"	112° 46' 44.7"	4930	8/17/2011	147.4	V			8/24/2021	153.5	V			-6.1
VERDE RIVER BASIN	BIG CHINO	B-20-05 35DAD	350423112451101	624137	35° 4' 22.5"	112° 45' 11.1"	4830	8/17/2011	191.5	V			8/25/2021	192.2	S			-0.7
VERDE RIVER BASIN	BIG CHINO	B-20-04 34ADC	350436112395901	614851	35° 4' 35.8"	112° 39' 58.9"	4694	3/11/2011	188.5	V			3/24/2021	186.7	V			1.8
VERDE RIVER BASIN	BIG CHINO	B-20-04 32BBA	350500112424601	629225	35° 4' 59.9"	112° 42' 46.2"	4588	9/1/2011	59.7	V			8/17/2021	45.6	V			14.1
VERDE RIVER BASIN	BIG CHINO	B-20-04 30AAD	350535112432701	607032	35° 5' 41.5"	112° 43' 5.8"	4571	3/11/2011	49.7	V			3/24/2021	49.1	V			0.6
VERDE RIVER BASIN	BIG CHINO	B-20-05 29BBA	350551112491301	644048	35° 5' 51.8"	112° 49' 13.4"	5355	8/17/2011	560.3	V			8/24/2021	568.2	V			-7.9
VERDE RIVER BASIN	BIG CHINO	B-20-04 19CBA	350616112435601	624116	35° 6' 16.2"	112° 43' 56"	4597	9/1/2011	70.7	V			8/17/2021	64.9	V			5.8
VERDE RIVER BASIN	BIG CHINO	B-21-02 14BCC	351207112283701	604624	35° 12' 7"	112° 28' 38.7"	5110	4/27/2011	996.8	V			4/21/2021	998.2	V			-1.4
VERDE RIVER BASIN	BIG CHINO	B-22-07 E25ADC	351552112572901	608304	35° 15' 50.3"	112° 57' 28.8"	5076	8/17/2011	189.2	V			8/18/2021	202.2	S			-13.0
VERDE RIVER BASIN	BIG CHINO	B-15-03 11DDB	344122112322201	569850	34° 41' 23.2"	112° 32' 20.9"	5060	3/24/2011	78.6	V			3/23/2021	83.9	V			-5.3
VERDE RIVER BASIN	BIG CHINO	B-15-02 31BBD	343827112304801	511301	34° 38' 25.6"	112° 30' 47.5"	5300	3/22/2011	191.1	V			3/23/2021	189.6	V			1.5
VERDE RIVER BASIN	BIG CHINO	B-15-03 23ADC	343957112322001	526935	34° 39' 57.6"	112° 32' 19.6"	5085	3/24/2011	61.1	V			3/22/2021	67.5	V			-6.4
VERDE RIVER BASIN	BIG CHINO	B-15-03 24CCB	343938112320101	511633	34° 39' 37.8"	112° 31' 59.9"	5120	3/24/2011	95.3	V			3/23/2021	98.8	V			-3.5
VERDE RIVER BASIN	BIG CHINO	B-17-02 29AAC	344950112291101	574763	34° 49' 49.8"	112° 29' 10.5"	4605	3/23/2011	239.6	V			3/25/2021	245	V			-5.4
VERDE RIVER BASIN	BIG CHINO	B-15-03 14DAD	344038112321101	573968	34° 40' 37.7"	112° 32' 10.9"	5075	3/24/2011	56.8	V			3/23/2021	63.9	V			-7.1
VERDE RIVER BASIN	BIG CHINO	B-17-02 21ACC	345030112282301	541015	34° 50' 30.1"	112° 28' 22.9"	4485	3/24/2011	118.7	V			3/25/2021	123.6	S			-4.9
VERDE RIVER BASIN	BIG CHINO	B-17-02 E02DCA	345256112261901	527679	34° 52' 56.4"	112° 26' 19.4"	4575	3/22/2011	326	V			2/24/2021	328.6	V			-2.6
VERDE RIVER BASIN	BIG CHINO	B-15-03 23AAA	344017112321101	585987	34° 40' 17"	112° 32' 11.1"	5030	3/23/2011	18.2	V			3/23/2021	29.8	V			-11.6
VERDE RIVER BASIN	BIG CHINO	B-15-03 S02DCD	344205112322901	569837	34° 42' 5.3"	112° 32' 29.4"	5075	3/22/2011	93.6	V			3/23/2021	101.2	V			-7.6
VERDE RIVER BASIN	BIG CHINO	B-16-03 17DAB	344604112354301	525910	34° 46' 3.9"	112° 35' 40.7"	4842	8/18/2011	109.1	V			8/23/2021	109.2	V			-0.1
VERDE RIVER BASIN	BIG CHINO	B-17-02 02CAA1	345314112263801	908192	34° 53' 13.7"	112° 26' 38.2"	4575	8/15/2011	323.4	V			8/25/2021	326.9	V			-3.5
VERDE RIVER BASIN	BIG CHINO	B-18-04 11ACC	345738112391501	200027	34° 57' 38.17"	112° 39' 14.98"	4615.7	6/14/2011	320.44	VT			6/4/2021	328	VT		RED 500 10:30	-7.6
VERDE RIVER BASIN	BIG CHINO	B-20-05 34CBC	350423112471201	579656	35° 4' 23.3"	112° 47' 11.8"	4960	8/17/2011	165.2	V			8/24/2021	172.7	V			-7.5
VERDE RIVER BASIN	BIG CHINO	B-18-04 25AAA2	345524112374401	211839	34° 55' 24.29"	112° 37' 43.88"	4572.77	6/14/2011	261.89	VT			6/4/2021	269.58	VT		RED 500 10:00	-7.7
VERDE RIVER BASIN	BIG CHINO	B-18-04 01ACA2	345842112380201	905773	34° 58' 42.12"	112° 38' 2.6"	4555.68	6/14/2011	157.04	VT			6/4/2021	162.23	VT		RED 500 11:00	-5.2
VERDE RIVER BASIN	BIG CHINO	B-17-01 07DBB	345205112240601		34° 52' 4.3"	112° 24' 6.4"	4242	2/17/2011	37.6	V			2/17/2021	40	S			-2.4
VERDE RIVER BASIN	VERDE CANYON	A-10-10 09ACA	341338111194401	631255	34° 13' 38.4"	111° 19' 46.9"	4905	11/8/2010	92.7	V			11/16/2020	67.4	V			25.3
VERDE RIVER BASIN	VERDE CANYON	A-10-10 08ABD	341347111205401	620874	34° 13' 46.3"	111° 20' 54"	4865	2/16/2011	60.7	V			2/22/2021	44.7	S			16.0
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03CCD	341356111191901	512431	34° 13' 57.21"	111° 19' 19.75"	4917.63	3/8/2011	98.15	VT			3/5/2021	75.74	VT		BLUE 500 09:15	22.4
VERDE RIVER BASIN	VERDE CANYON	A-10-10 05CCA	341408111212001	620875	34° 14' 8.6"	111° 21' 20.2"	4830	2/16/2011	32.5	V			2/22/2021	32.5	S			0.0
VERDE RIVER BASIN	VERDE CANYON	A-10-10 04DBA	341418111194901		34° 14' 18.3"	111° 19' 48.7"	4961	2/16/2011	192.4	V			2/22/2021	124.8	V			67.6
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03BAD1	341436111190001	512430	34° 14' 36.5"	111° 18' 59.7"	4990	11/8/2010	204	V			11/16/2020	146.8	V			57.2
VERDE RIVER BASIN	VERDE CANYON	A-11-10 31DAC1	341504111214601	809394	34° 15' 5.3"	111° 21' 43.8"	5060	2/16/2011	182.5	V			2/22/2021	187.4	V			-4.9
VERDE RIVER BASIN	VERDE CANYON	A-11-10 32ACD	341518111205401	650931	34° 15' 14.3"	111° 20' 51.4"	5120	2/16/2011	302.8	V			2/22/2021	287.4	V			15.4
VERDE RIVER BASIN	VERDE CANYON	A-11-10 27CCB	341547111192501	620877	34° 15' 46.7"	111° 19' 25.7"	5002	2/16/2011	182.4	V			2/22/2021	140.2	V			42.2
VERDE RIVER BASIN	VERDE CANYON	A-12-08 26DAC2	342344111280701	635775	34° 23' 41.5"	111° 28' 7.5"	5620	2/16/2011	95.1	V			2/23/2021	99.7	V			-4.6

Appendix 2. 10 Year Groundwater level change in Arizona - Water Years 2011 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2011	WL 2011	WL METHOD 2011	WL REMARK 2011	WL COMMENT 2011	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
VERDE RIVER BASIN	VERDE CANYON	A-12-08 27BAC	342406111293901	570666	34° 24' 7.2"	111° 29' 47.5"	5961	2/16/2011	318	V			2/23/2021	330	V			-12.0
VERDE RIVER BASIN	VERDE CANYON	A-12-08 22CDA	342427111293401	644149	34° 24' 26.8"	111° 29' 33.9"	5880	2/16/2011	128.3	V			2/23/2021	129.3	V			-1.0
VERDE RIVER BASIN	VERDE CANYON	A-13-07 14BBD UNSURV	343122111350401	627332	34° 31' 22.5"	111° 35' 3.9"	5955	3/24/2011	722.8	V			5/4/2021	721.4	V			1.4
VERDE RIVER BASIN	VERDE CANYON	A-12-10 26CBB	342347111162401	641886	34° 23' 45.9"	111° 16' 25.9"	5590	4/19/2011	400.5	V			4/27/2021	406.4	V			-5.9
VERDE RIVER BASIN	VERDE CANYON	A-12-10 26CAA	342344111155801	521343	34° 23' 43.8"	111° 15' 58.6"	5455	4/19/2011	253.9	V			5/4/2021	262.4	V			-8.5
VERDE RIVER BASIN	VERDE CANYON	A-11-10 27CAA	341605111190301	518735	34° 16' 4.6"	111° 19' 3.4"	5040	2/16/2011	225.4	V			2/22/2021	186.9	V			38.5
VERDE RIVER BASIN	VERDE CANYON	A-10-10 04ABB	341442111200101	571659	34° 14' 42.36"	111° 20' 1.34"	4924.6	3/8/2011	151.47	VT			3/5/2021	89.27	VT		BLUE 500 10:15	62.2
VERDE RIVER BASIN	VERDE CANYON	A-10-10 06DCC	341402111215101	569710	34° 14' 2.4"	111° 21' 50.89"	4778.22	3/8/2011	18.38	S			3/5/2021	17.2	VT		BLUE 500 11:15	1.2
VERDE RIVER BASIN	VERDE CANYON	A-11-10 32BBB	341535111213601	568987	34° 15' 35.24"	111° 21' 33.79"	5096	3/8/2011	246.8	VT			3/5/2021	242.31	VT		BLUE 500 10:45	4.5
VERDE RIVER BASIN	VERDE VALLEY	A-13-06 23BBC	343028111413801	627339	34° 30' 27.2"	111° 41' 38.3"	4410	3/24/2011	337.3	V			4/19/2021	337.4	V			-0.1
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 13DBC2	343058111462902	524344	34° 30' 57.4"	111° 46' 31"	3201	3/23/2011	103.8	V			5/11/2021	157	V			-53.2
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 17CAA2	343105111504601	086280	34° 31' 5"	111° 50' 46.7"	3055	3/23/2011	37.7	S			4/19/2021	37.7	S			0.0
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 28DCD1	342859111492901	085970	34° 29' 0.2"	111° 49' 30.1"	3060	3/23/2011	134	V			4/19/2021	133.3	V			0.7
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 12CCC2	343134111465301	646829	34° 31' 34.4"	111° 46' 54.1"	3178	3/23/2011	19	S			4/19/2021	7.4	S			11.6
VERDE RIVER BASIN	VERDE VALLEY	A-14-04 11DAA1	343712111531301	630281	34° 37' 15.1"	111° 53' 16.6"	3200	3/14/2011	88.2	S			4/19/2021	88.9	V			-0.7
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 32CBB2	343341111511201	605030	34° 33' 41.1"	111° 51' 12.5"	3138	3/14/2011	70.7	S			4/19/2021	73	S			-2.3
VERDE RIVER BASIN	VERDE VALLEY	A-14-04 24BCB2	343535111531001	505167	34° 35' 36.3"	111° 53' 8.6"	3121	3/14/2011	31.2	S			4/19/2021	31.3	V			-0.1
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 21CBA2	344052111560601	631840	34° 40' 52.9"	111° 56' 5.4"	3225	3/15/2011	59.05	S			4/22/2021	63.15	S			-4.1
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 20BAA	344105111503401	519065	34° 41' 5.7"	111° 50' 34.6"	3600	3/15/2011	278.5	V			4/22/2021	264.6	V			13.9
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 04AAA	343833111490101	806134	34° 38' 33.6"	111° 49' 0.7"	3480	3/14/2011	298.7	V			4/19/2021	336.7	V			-38.0
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 25DDD	343924111454901	514006	34° 39' 23.7"	111° 45' 48.6"	3580	3/14/2011	219.1	V			4/23/2021	186	V			33.1
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 02CCB4	344312111540801	605684	34° 43' 11.4"	111° 54' 8.3"	3418	3/15/2011	97.65	V			4/22/2021	106.1	V			-8.5
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 S06BCA	344331111515501	627337	34° 43' 30.4"	111° 51' 56.1"	3700	3/15/2011	383.2	V			4/22/2021	383.4	V			-0.2
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 36CDC	344359111591101	614257	34° 44' 1.21"	111° 59' 11"	3428.04	3/10/2011	83.78	VT			3/9/2021	92.3	VT		TAKEN AT 11:58 WITH BLUE 500	-8.5
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 12ADB1	344250111583401	630899	34° 42' 49.3"	111° 58' 32.7"	3265	3/15/2011	42.5	S			4/20/2021	49.2	V		CHECKED WITH V AND S	-6.7
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 12ADB3	344250111584101	802787	34° 42' 50.1"	111° 58' 39.9"	3265	3/15/2011	43.1	S			4/19/2021	48.7	V			-5.6
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 11ABA	344258111595501	613162	34° 42' 58.3"	111° 59' 51.5"	3310	3/15/2011	68.7	V			4/19/2021	60.7	V			8.0
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 04DDC1	344307111552701	621154	34° 43' 8.7"	111° 55' 27.8"	3360	3/15/2011	59.6	S			4/22/2021	59.3	V			0.3
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 19DBD	344556112040501	525162	34° 45' 56.138"	112° 4' 5.09"	3660	3/15/2011	279.5	V			4/20/2021	299.5	V			-20.0
VERDE RIVER BASIN	VERDE VALLEY	A-16-04 20BBB	344625111571401	614259	34° 46' 25.8"	111° 57' 13.3"	3730	3/15/2011	181.1	V			4/22/2021	182.3	S			-1.2
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 34ADC1	344428112004801	609079	34° 44' 27.1"	112° 0' 13.3"	3340	3/15/2011	69.8	V			4/20/2021	72.2	V			-2.4
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 34AAD	344440112003801	609076	34° 44' 40.1"	112° 0' 36.6"	3310	3/15/2011	38.4	S			4/20/2021	40.1	V			-1.7
VERDE RIVER BASIN	VERDE VALLEY	A-16-04 26DAB1	344510111531601	503653	34° 45' 8.4"	111° 53' 16"	3450	3/15/2011	17.3	S			4/22/2021	21.8	S			-4.5
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 22DCD	344545112005401	629211	34° 45' 42.9"	112° 0' 52.71"	3421.95	3/15/2011	41.5	S			3/9/2021	46.14	VT		TAKEN AT 11:09 WITH BLUE 500	-4.6
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 33ADA1	344850111494801	614282	34° 48' 50.1"	111° 49' 47.8"	3860	3/16/2011	216.4	V			4/21/2021	218.4	V			-2.0
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 26BCA1	344943111483201	632376	34° 49' 42.1"	111° 48' 30.7"	3980	3/15/2011	116.6	V			4/22/2021	114.3	V			2.3
VERDE RIVER BASIN	VERDE VALLEY	A-17-06E30BBB	344957111463102		34° 49' 56.5"	111° 46' 30"	4300	3/14/2011	456	V			4/21/2021	457.3	V			-1.3
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 20CCC1	345001111514801		34° 50' 1.5"	111° 51' 55.1"	4040	3/15/2011	391.5	V			4/21/2021	393.6	V			-2.1
VERDE RIVER BASIN	VERDE VALLEY	A-16-08 10ABC	344733111292201	641798	34° 47' 33"	111° 29' 19.9"	7370	5/4/2011	3.7	S			4/22/2021	7.9	S			-4.2
VERDE RIVER BASIN	VERDE VALLEY	A-17-01 15CDB UNSURV	345057112143201	631883	34° 50' 57.8"	112° 14' 52.3"	4540	3/24/2011	415.5	V			3/22/2021	419.1	V			-3.6
VERDE RIVER BASIN	VERDE VALLEY	A-17-06 18AAB	345137111454801	522853	34° 51' 36.4"	111° 45' 46.3"	4220	3/14/2011	9.8	S			4/21/2021	10.7	S			-0.9
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 06ADD	345302111582201		34° 53' 1.3"	111° 58' 20.8"	4345	3/16/2011	672.4	V			4/22/2021	675.3	V			-2.9
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 01ABD	345312111532001	512462	34° 53' 14.36"	111° 53' 16.89"	4429.18	3/16/2011	725.1	V			4/19/2021	739.1	V			-14.0
VERDE RIVER BASIN	VERDE VALLEY	B-19-01 16ACB	350154112220001	645843	35° 1' 53.8"	112° 21' 59.8"	4790	4/27/2011	555.1	V			4/21/2021	557	V			-1.9
VERDE RIVER BASIN	VERDE VALLEY	A-18-07 15CCB2	345619111385501	630882	34° 56' 18.8"	111° 38' 55"	6455	4/21/2011	91.3	V			4/19/2021	118	S			-26.7
VERDE RIVER BASIN	VERDE VALLEY	A-18-06 17ACC	345644111451601	523380	34° 56' 45.9"	111° 45' 16"	4980	3/17/2011	504.5	V			4/20/2021	521.6	V			-17.1
VERDE RIVER BASIN	VERDE VALLEY	B-18-01 17AAA	345653112223701	511557	34° 56' 57.7"	112° 22' 34.6"	4643	4/27/2011	423.5	V			4/21/2021	426.1	V			-2.6
VERDE RIVER BASIN	VERDE VALLEY	A-20-04 03CBB	350829111575601	522705	35° 8' 29.1"	111° 57' 57.4"	6709	4/28/2011	54.2	S			4/21/2021	55.3	S			-1.1
VERDE RIVER BASIN	VERDE VALLEY	A-20-06 19BBB	350624111482501	500222	35° 6' 24.8"	111° 48' 23"	7163	4/28/2011	83.6	S			4/20/2021	93.7	S			-10.1
VERDE RIVER BASIN	VERDE VALLEY	A-21-04 24AAC	351721111545601	522559	35° 11' 20.8"	111° 54' 53"	6828	4/28/2011	149.2	V			4/21/2021	149.3	S			-0.1
VERDE RIVER BASIN	VERDE VALLEY	A-22-03 24CCC	351557112020401	618481	35° 15' 56.7"	112° 2' 5.9"	6887	4/27/2011	2.4	S			4/21/2021	11.65	S			-9.3
VERDE RIVER BASIN	VERDE VALLEY	A-22-04 14DAD2	351702111555001	565702	35° 16' 59.5"	111° 55' 47.3"	7298	4/27/2011	143.5	V			4/21/2021	143.4	V			0.1
VERDE RIVER BASIN	VERDE VALLEY	A-23-05 27AAC	352108111504801	613888	35° 21' 8.1"	111° 50' 48.1"	7661	4/28/2011	710.9	V			4/20/2021	711.8	V			-0.9
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 E17AAC	343638111501301	629124	34° 36' 37.6"	111° 50' 13.7"	3190	3/14/2011	39.9	S			4/23/2021	39.8	V			0.1
VERDE RIVER BASIN	VIRGIN RIVER	B-41-15 33CAC	365429113554501	628107	36° 54' 29.5"	113° 55' 45"	1895	10/27/2010	45.9	V			10/27/2020	50.5	V			-4.6
VERDE RIVER BASIN	VIRGIN RIVER	B-41-15 28ABD	365547113552101	536967	36° 55' 47.4"	113° 55' 21.3"	2070	10/27/2010	199.8	V			10/27/2020	202.1	V			-2.3
VERDE RIVER BASIN	VIRGIN RIVER	B-41-15 08ADA	365819113560701	536968	36° 58' 19.3"	113° 56' 7.2"	2284	10/27/2010	378.3	V			10/27/2020	380.3	V			-2.0
VERDE RIVER BASIN	VIRGIN RIVER	B-40-15 06CDD	365321113572401	540950	36° 53' 21.53"	113° 57' 25.03"	2040.93	6/29/2011	267	VT			6/24/2021	268.08	VT		TAKEN WITH BLACK 500 AT 12:45	-1.1
WILLCOX BASIN	WILLCOX	D-21-28 21BCB1	313533109301801	203421	31° 35' 29.87"	109° 30' 18"	4647.8	2/1/2011	14.71	S			2/9/2021	7.39	VT		TAKEN AT 13:40 WITH BLACK 500	7.3
WILLCOX BASIN	WILLCOX	D-18-28 17BAA	315228109310101	505333	31° 52' 26.1"	109° 31' 1.7"	4750	12/2/2010	380.6	V			11/5/2020	386.1	V			-5.5
WILLCOX BASIN	WILLCOX	D-17-27 31CDD2	315421109380401	618485	31° 54' 22.8"	109° 38' 7.4"	4366	12/2/2010	260.3	V			11/5/2020	368.8	V			-108.5
WILLCOX BASIN	WILLCOX	D-17-27 28BAA	315602109360701	627815	31° 56' 2.6"	109° 36' 4.7"	4427	12/2/2010	262.6	V			11/5/2020	335.2	V			-72.6
WILLCOX BASIN	WILLCOX	D-17-27 20DAA2	315626109363601	606029	31° 56' 24.4"	109° 36' 35.5"	4413	6/30/2011	275.1	V			11/5/2020	338.9	V			-63.8
WILLCOX BASIN	WILLCOX	D-17-27 01DAD	315858109323201	616193	31° 58' 56.7"	109° 32' 29.7"	4621	12/1/2010	277.4	V			11/5/2020	275	V			2.4
WILLCOX BASIN	WILLCOX	D-17-26 04ADD1	315910109414501	620777	31° 59' 8.2"	109° 41' 42.9"	4301	12/1/2010	282.7	V			11/4/2020	320.1	V			-37.4
WILLCOX BASIN	WILLCOX	D-17-24 12CCC	315748109514801	625779	31° 57' 48"	109° 51' 48.4"	4317	6/30/2011	320.8	V			11/2/2020	319.8	V			1.0
WILLCOX BASIN	WILLCOX	D-16-27 30BAC	320105109323001	608128	32° 1' 4.11"	109° 38' 32.76"	4397.28	2/1/2011	353.33	VT			2/9/2021	385.38	VT		TAKEN AT 15:47 WITH BLACK 500	-32.1
WILLCOX BASIN	WILLCOX	D-16-25 09ADD	320330109475101	574801	32° 3' 33.9"	109° 47' 46.2"	4186	12/1/2010	94.4	S			11/4/2020	100.5	S			-6.1
WILLCOX BASIN	WILLCOX	D-16-26 14ADD	320236109393901	805933	32° 2' 36.6"	109° 39' 38.9"	4372	12/2/2010	382.8	V			11/4/2020	439	V			-56.2
WILLCOX BASIN	WILLCOX	D-15-25 25AAD	320614109442401	604416	32° 6' 21.6"	109° 44' 20.3"	4220	11/30/2010	305.7	V			11/2/2020	390.9	V		CHECKED 3X	-85.2
WILLCOX BASIN	WILLCOX	D-16-26 02ADD	320435109394301	609041	32° 4' 26.7"	109° 39' 39.5"	4391	11/30/2010	304	V			11/4/2020	324.3	V			-20.3
WILLCOX BASIN	WILLCOX	D-16-25 01BBB	320441109453901	607558	32° 4' 41.65"	109° 45' 39.68"	4207.33	5/10/2011	88.5	VT			6/16/2021	98.95	VT		TAKEN WITH BLACK 500 AT 15:50	-10.5
WILLCOX BASIN	WILLCOX	D-15-26 23DCC2	320633109393901	611586	32° 6' 30.8"	109° 39' 43.6"	4461	12/1/2010	344.1	V			11/6/2020	357.5	V			-13.4
WILLCOX BASIN	WILLCOX	D-14-26 18CAA1	321303109435201		32° 13' 59.8"	109° 43' 48.2"	4245	11/30/2010	240.7	V			11/3/2020	282	V		SE MP	-41.3
WILLCOX BASIN	WILLCOX	D-14-22 12CDC	321336110032801	615961	32° 13' 34.8"	110° 3' 26.8"	4645	4/21/2011	142.1	V			11/5/2020	143.8	V			-1.7
WILLCOX BASIN	WILLCOX	D-14-23 12BBB2	321414109573001	608286	32° 14' 15.7"	109° 57' 30.9"	4357	11/29/2010	280.2	V			11/2/2020	313.1	V		CHECKED 2X	-32.9
WILLCOX BASIN	WILLCOX	D-13-24 16BBB	321834109543001	805474	32° 18' 40.1"	109° 54' 33.1"	4212	11/29/2010	136.6	V			11/2/2020	156.1	V			-19.5
WILLCOX BASIN	WILLCOX	D-13-25 21AAC	321736109473801	611245	32° 17' 35.4"	109° 47' 37.7"	4214	11/30/2010	142.1	V			11/3/2020	173.5	S			-31.4
WILLCOX BASIN	WILLCOX	D-13-24 03ADA	322008109523401	616780	32° 20' 11.7"	109° 52' 31.8"	4219	11/30/2010	144.8	V			11/3/2020	159.2	S			-14.4
WILLCOX BASIN	WILLCOX	D-13-24 05CCB2	321941109553101	619477	32° 19' 43.7"	109° 55' 34.2"	4221	11/29/2010	155.4	V			11/2/2020	186.9	V			-31.5
WILLCOX BASIN	WILLCOX	D-11-24 30AAA	322718109554101	604191	32° 27' 22.1"	109° 55' 43.2"	4369	11/29/2010	312.3	V			11/3/2020	361.9	V			-49.6
WILLCOX BASIN	WILLCOX	D-10-23 10BBA	323511109591401	627747	32° 35' 12.7"	109° 59' 15.7"	4543	11/30/2010	414	V			11/3/2020	445.7	V			-31.7
WILLCOX BASIN	WILLCOX	D-09-23 08BAA	324018110005401	805360	32° 40' 20.3"	110° 1' 1.3"	5158	12/1/2010	232.8	V			11/3/2020	279.1	V		CHECKED 2X!	-46.3
YUMA BASIN	YUMA	C-08-21 21BCA	324330114252601	612897	32° 43' 28.96"	114° 25' 29.3"	169.26	11/3/2010	23.7	S			10/26/2020	24.2	S			-0.5
YUMA BASIN	YUMA	C-08-22 25DAC3	324212114274801		32° 42' 12"	114° 27' 48.2"	155	11/5/2010	16.34	S			10/26/2020	16.5	S			-0.2
YUMA BASIN	YUMA	C-12-22 06DAA2	322449114323901	212452	32° 24' 48.86"	114° 32' 39.4"	204.57	11/4/2010	166.59	V			10/27/2020	179.2	S			-12.6
YUMA BASIN	YUMA	C-11-24 23BCB	322737114415301		32° 27' 36.77"	114° 41' 53.71"	159.4	11/4/2010	119.2	V			10/27/2020	131.5	S			-12.3
YUMA BASIN	YUMA	C-10-23 31BBB2	323124114395601		32° 31' 24.2"	114° 39' 55.6"	173	11/4/2010	109.94	S			10/27/2020	116.75	S			-6.8
YUMA BASIN	YUMA	C-10-25 26CDB1	323133114475501		32° 31' 36.83"	114° 47' 55.17"	88.64	11/5/2010	16.52	S			10/27/2020	31.95	S			-15.4
YUMA BASIN	YUMA	C-09-25 35CBD	323602114480401		32° 36' 1.5"	114° 48' 4.1"	104	11/5/2010	21.2	S			10/27/2020	25.1	V			-3.9

Appendix 3

1-Year Groundwater level change in Arizona – Water Years 2020 – 2021

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
AGUA FRIA BASIN	AGUA FRIA	A-08-02 04DCD1	340338112092701		34° 3' 37.7"	112° 9' 28.2"	1943	10/21/2019	24.25	V			10/19/2020	25.05	S			-0.8
AGUA FRIA BASIN	AGUA FRIA	A-09H-02 23CCC	341118112075801	635573	34° 11' 13.5"	112° 8' 2.47"	3395.32	10/9/2019	477.49	VT			10/27/2020	479.15	VT		BLUE 500 10:00	-1.7
AGUA FRIA BASIN	AGUA FRIA	A-11-02 20BAB	341933112103001	614152	34° 19' 32.1"	112° 10' 28.2"	3920	10/21/2019	75.4	V			10/19/2020	77	S			-1.6
AGUA FRIA BASIN	AGUA FRIA	A-11-02 14CAA	341959112071601	628102	34° 19' 59.5"	112° 7' 15.9"	3805	10/21/2019	69.3	V			10/19/2020	69.5	S			-0.2
AGUA FRIA BASIN	AGUA FRIA	A-10-02 17DBA	341440112095501	642335	34° 14' 41.1"	112° 9' 55"	2925	10/21/2019	3.5	V			10/19/2020	8.4	S			-4.9
AGUA FRIA BASIN	AGUA FRIA	A-12-02 23BAA	342450112071801	614181	34° 24' 50.4"	112° 7' 17.1"	3870	10/21/2019	39.7	V			10/19/2020	39.9	S			-0.2
AGUA FRIA BASIN	AGUA FRIA	A-12-01 27DBA2	342331112142501	618019	34° 23' 30.32"	112° 14' 24.85"	4483.76	10/9/2019	14.37	VT			10/27/2020	15.15	VT			-0.8
AGUA FRIA BASIN	AGUA FRIA	A-12-01 26BAB1	342353112134501	802822	34° 23' 52.8"	112° 13' 44.8"	4355	10/21/2019	21.4	V			10/19/2020	21.2	S			0.2
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-09-22 19DCC	323753110080601	627711	32° 37' 53.5"	110° 8' 6"	4280	11/3/2019	172.1	V			11/3/2020	142.8	V			29.3
ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	D-07-20 21BDB	324902110184901	613297	32° 48' 47.6"	110° 18' 29.5"	3515	11/5/2019	60.3	V			11/3/2020	65.9	V			-5.6
BIG SANDY BASIN	FORT ROCK	B-22-08 15CCB	351712113065401		35° 17' 9.9"	113° 6' 53.9"	5510	10/25/2019	491.7	V			10/30/2020	491.7	V			0.0
BIG SANDY BASIN	WIKIEUP	B-21-13 31DAA	340923113413401	641875	35° 9' 28.8"	113° 41' 34"	3641	10/22/2019	520.4	V			10/22/2020	519.9	V			0.5
BIG SANDY BASIN	WIKIEUP	B-16-13 21DDD2	344220113364901	642249	34° 42' 23.3"	113° 37' 0.9"	2040	10/22/2019	100.3	S			10/19/2020	100.5	S			-0.2
BIG SANDY BASIN	WIKIEUP	B-16H-13 33DAB	344613113370901	573406	34° 46' 10.3"	113° 37' 11.1"	2078	10/22/2019	42.4	S			10/19/2020	38.4	S			4.0
BIG SANDY BASIN	WIKIEUP	B-18-13 34CCD	345332113390001	614838	34° 53' 30.9"	113° 38' 50.5"	2479	10/22/2019	47.3	S	P		10/19/2020	49.9	S	P	LIGHT BREEZE	-2.6
BIG SANDY BASIN	WIKIEUP	B-19-13 19DAA1	350049113411401	637441	35° 0' 49.2"	113° 41' 14.8"	3065	10/22/2019	150.4	S			10/19/2020	151.9	S		MUD ON TAPE	-1.5
BIG SANDY BASIN	WIKIEUP	B-20-13 15BAA	350719113384201	608169	35° 7' 20.6"	113° 38' 42.4"	3300	10/22/2019	164	S			10/22/2020	165.2	S			-1.2
BIG SANDY BASIN	WIKIEUP	B-21-13 24BCD	351119113370801	614875	35° 11' 20.2"	113° 37' 7.9"	3630	10/22/2019	372.2	V			10/22/2020	371.9	V			0.3
BIG SANDY BASIN	WIKIEUP	B-22-13 34DAA	351447113382601		35° 14' 47.1"	113° 38' 25.7"	3852	10/25/2019	534.5	V			10/22/2020	535.6	V			-1.1
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-09-09 04CBC	340852113122501	600587	34° 8' 52.1"	113° 12' 25.1"	2360	10/31/2019	635	V			10/26/2020	632.2	V			2.8
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-10 31CBA	341508113203801	809687	34° 15' 7.2"	113° 20' 40.1"	2162	10/31/2019	640.4	V			10/31/2020	640.4	V			0.0
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-11-11 31BBB1	341531113265801	614664	34° 15' 31"	113° 26' 58"	1350	10/31/2019	51	V			10/26/2020	51.5	S			-0.5
BILL WILLIAMS BASIN	ALAMO RESERVOIR	B-13-13 07DDB2	342836113391301	644225	34° 28' 37.8"	113° 39' 12.4"	1756	10/21/2019	138	S			10/23/2020	139.8	V			-1.8
BILL WILLIAMS BASIN	CLARA PEAK	B-11-16 32CDA	341454113565501	619413	34° 14' 54.2"	113° 56' 54.8"	615	10/29/2019	25	S			10/28/2020	19.7	S			5.3
BILL WILLIAMS BASIN	CLARA PEAK	B-11-16 29AAA	341624113562401	619426	34° 16' 27.3"	113° 56' 23.6"	695	10/29/2019	103.7	V			10/28/2020	97.3	V			6.4
BILL WILLIAMS BASIN	SANTA MARIA	B-11-08 20ADB	341707113063901	614653	34° 17' 9.6"	113° 6' 54.9"	2600	10/21/2019	77.8	S			10/19/2020	78.8	S			-1.0
BILL WILLIAMS BASIN	SANTA MARIA	B-13-09 17BCC	342801113134801	611613	34° 28' 1.2"	113° 13' 48.1"	2590	10/23/2019	53.2	S			10/19/2020	50.8	S			2.4
BILL WILLIAMS BASIN	SANTA MARIA	B-13-06 09DCD	342828112531801	625722	34° 28' 25.1"	112° 53' 14.2"	3500	10/23/2019	23.9	V			10/22/2020	24.4	S			-0.5
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 26BCC1 UNSV	342626112391401	613867	34° 26' 24.9"	112° 39' 14.6"	4350	10/25/2019	248.5	V			10/21/2020	248.8	V			-0.3
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 27AB UNSPZ1	342639112394201	613860	34° 26' 39.5"	112° 39' 40.4"	4366	10/25/2019	192.6	V			10/21/2020	193.2	V			-0.6
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 27AB UNSPZ2	342639112394202	613860	34° 26' 39.5"	112° 39' 40.4"	4360	10/25/2019	249.7	V			10/21/2020	249.3	V			0.4
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ1	342709112404501	613853	34° 27' 10.5"	112° 40' 44.6"	4260	10/25/2019	107.3	V			10/21/2020	107.7	S			-0.4
BILL WILLIAMS BASIN	SKULL VALLEY	B-13-04 21DB UNSPZ2	342709112404502	613853	34° 27' 10.5"	112° 40' 44.6"	4260	10/25/2019	113.4	V			10/21/2020	114	S			-0.6
BILL WILLIAMS BASIN	SKULL VALLEY	B-12-03 06ACC	342444112363401	502258	34° 24' 43.9"	112° 36' 34"	4650	10/23/2019	485.4	V			10/21/2020	470.6	V			14.8
BILL WILLIAMS BASIN	SKULL VALLEY	B-12-04 06ABA2	342458112423801	631575	34° 24' 57.7"	112° 42' 38.2"	3920	10/23/2019	73.8	V			10/21/2020	75.1	S			-1.3
BILL WILLIAMS BASIN	SKULL VALLEY	B-11-05 24ADC	341653112433501	586357	34° 16' 52.58"	112° 43' 34.79"	4458.87	10/23/2019	62.2	V			10/22/2020	55.1	S			7.1
BILL WILLIAMS BASIN	SKULL VALLEY	B-12-04 06ABB1	342444112444001	631578	34° 24' 57.8"	112° 42' 36.7"	3920	10/23/2019	75.3	V			10/21/2020	79.1	S			-3.8
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 09DDD	335729113490601	614537	33° 57' 27.9"	113° 49' 3.6"	1362	10/29/2019	101.4	V			10/27/2020	101.4	V			0.0
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 11AAB	335823113471501	614536	33° 58' 19.8"	113° 47' 13"	1423	10/30/2019	245.9	V	S		10/28/2020	253.5	V	S		-7.6
BUTLER VALLEY BASIN	BUTLER VALLEY	B-07-15 16DCC	335635113493001		33° 56' 35.6"	113° 49' 32.2"	1346	10/29/2019	116.2	V			10/27/2020	118.7	S			-2.5
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 29CDC	340004113443601	807275	34° 0' 4.9"	113° 44' 35.9"	1487	10/30/2019	232.4	V			10/28/2020	236.4	V			-4.0
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 23DDD	340058113404701	614576	34° 0' 57.1"	113° 40' 45.4"	1618	10/30/2019	355.1	V			10/28/2020	354.1	V			1.0
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-14 20DAB	340122113440301	633680	34° 1' 22.3"	113° 44' 3.1"	1522	10/30/2019	263.7	V			10/28/2020	265.3	V			-1.6
BUTLER VALLEY BASIN	BUTLER VALLEY	B-08-13 04DDD1	340333113363701	614575	34° 3' 33.4"	113° 36' 33.9"	1790	10/30/2019	515.4	V			10/26/2020	515.5	V			-0.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 19BAC	314621110385801	608607	31° 46' 21.41"	110° 38' 58.43"	4752.37	2/27/2020	147.6	V			2/24/2021	148.7	V			-1.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-18 33BBB2	313929110312301	616329	31° 39' 27.8"	110° 31' 6.4"	4708	1/28/2020	23	S			1/27/2021	23.9	S			-0.9
CIENEGA CREEK BASIN	CIENEGA CREEK	D-22-15 12AAD2	313225110453301	809433	31° 32' 23.4"	110° 45' 32.7"	4041	1/29/2020	15.1	S			1/28/2021	15	S			0.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 25DDC	313933110332801	632894	31° 39' 33.4"	110° 33' 27.6"	4838	1/29/2020	123.9	V			1/27/2021	124.2	V			-0.3
CIENEGA CREEK BASIN	CIENEGA CREEK	D-21-16 09ABA	313748110424501	624881	31° 37' 46.9"	110° 42' 43.5"	4420	1/29/2020	42.1	S			1/28/2021	46.5	S			-4.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-18 17BCB	314150110320401	618570	31° 41' 50.7"	110° 32' 4.4"	4810	1/28/2020	177.5	V			1/27/2021	177.8	V			-0.3
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 24CDD	314026110334901	650922	31° 40' 26.5"	110° 33' 47.1"	4810	1/29/2020	155.3	V			1/27/2021	156	V			-0.7
CIENEGA CREEK BASIN	CIENEGA CREEK	D-20-17 02CCC	314301110350901	608620	31° 43' 0.9"	110° 35' 12.7"	4610	1/28/2020	43.8	V			1/27/2021	44.5	S			-0.7
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-16 04DBA	314834110423701	504726	31° 48' 36"	110° 42' 38.6"	5115	11/20/2019	408.7	V			11/18/2020	409.3	V			-0.6
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 03ADB	314849110353901	608619	31° 48' 48.29"	110° 35' 27.76"	4345.13	11/20/2019	-1.1	S			11/18/2020	0.1	S			-1.2
CIENEGA CREEK BASIN	CIENEGA CREEK	D-18-17 36CCB	314916110340401	634356	31° 49' 17.6"	110° 34' 6.4"	4442	1/27/2020	139.6	V	P		1/29/2021	139.6	V	P		0.0
CIENEGA CREEK BASIN	CIENEGA CREEK	D-18-17 34BDA	314936110355301	634334	31° 49' 38.53"	110° 35' 50.84"	4370	11/20/2019	60.7	S			11/18/2020	61.3	S			-0.6
CIENEGA CREEK BASIN	CIENEGA CREEK	D-18-17 33ADA	314937110362301	616221	31° 49' 37.8"	110° 36' 22.5"	4438	1/27/2020	96.5	V			1/26/2021	97.7	V			-1.2
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 10BCD	314756110360601	608606	31° 47' 52.63"	110° 36' 0.06"	4417.93	11/20/2019	36.1	S			11/18/2020	37.6	S			-1.5
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 08BCB	314759110381001	634285	31° 47' 58.3"	110° 38' 10"	4592	1/28/2020	138.8	S			1/26/2021	138.8	S			0.0
CIENEGA CREEK BASIN	CIENEGA CREEK	D-19-17 09ABB	314808110363901	608612	31° 48' 7.03"	110° 36' 38.79"	4437.44	1/27/2020	54.7	V			1/26/2021	54.6	V			0.1
CIENEGA CREEK BASIN	CIENEGA CREEK	D-18-16 22CAD	315103110414601		31° 51' 3.2"	110° 41' 46.2"	4508	11/20/2019	85.6	S			11/18/2020	86	S			-0.4
CIENEGA CREEK BASIN	CIENEGA CREEK	D-17-18 09BCC	315816110310601	601585	31° 58' 16.3"	110° 31' 5.5"	3843	1/27/2020	92.1	V			1/26/2021	91.9	V			0.2
COCONINO PLATEAU BASIN	COCONINO PLATEAU	A-21-02 10BAA	351311112101001	529209	35° 13' 11.1"	112° 10' 10.6"	7085	5/6/2020	463.2	V			4/21/2021	463.1	V			0.1
COCONINO PLATEAU BASIN	COCONINO PLATEAU	A-25-06 20ACC	353210111462401	613880	35° 32' 10.2"	111° 46' 22.2"	6965	10/23/2019	92.8	V			10/19/2020	90.6	V			2.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-25-20 15AAA	353337114235201	637009	35° 33' 38.29"	114° 23' 53.59"	2820	10/24/2019	593.8	V	P		10/29/2020	593.3	V	P		0.5
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-26-20 27BDC	353658114244401	502441	35° 36' 49.9"	114° 24' 37"	2675	10/24/2019	475.2	V	P		10/29/2020	475.4	V	P		-0.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-26-20 06ACA	354027114273101	505703	35° 40' 18.46"	114° 27' 21.47"	2499.67	2/11/2020	460.95	VT			2/18/2021	461.04	VT		BLUE 500 14:45	-0.1
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-27-19 17AAA	354402114194001	642196	35° 44' 1.9"	114° 19' 38"	3640	10/24/2019	623.1	V			10/29/2020	622.1	V			1.0
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-28-21 26BBD	354728114300501	501132	35° 47' 26"	114° 30' 1.3"	2186	10/24/2019	194.9	V			10/29/2020	196.4	V			-1.5
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-29-21 28DDD	355155114315101	545711	35° 51' 56.6"	114° 31' 51.3"	2000	10/24/2019	72.3	V			10/29/2020	72.5	V			-0.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-30-20 06CAD UNSURV	360105114281101	629128	36° 0' 53.2"	114° 28' 12.5"	1337	10/24/2019	57.5	V			10/29/2020	57.7	V			-0.2
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-25-19 19DCA	353207114210301	582738	35° 32' 7.3"	114° 21' 3.1"	2973	10/24/2019	736.8	V			10/29/2020	736.5	V			0.3
DETRITAL VALLEY BASIN	DETRITAL VALLEY	B-27-20 09CBD	354424114254301	594399	35° 44' 24.1"	114° 25' 42.6"	2600	10/24/2019	518	V			10/29/2020	523.5	V			-5.5
DOUGLAS BASIN	DOUGLAS	D-21-25 08ACD	313717109492201	221707	31° 37' 17.3"	109° 49' 21.8"	4345	11/6/2019	297.6	V			11/4/2020	299.8	V			-2.2
DOUGLAS BASIN	DOUGLAS	D-24-26 01CCC	312154109394401		31° 21' 57.5"	109° 39' 46.6"	4078	11/7/2019	153	V			11/3/2020	154.7	V			-1.7
DOUGLAS BASIN	DOUGLAS	D-24-27 04CBC	312209109364501	808998	31° 22' 8.6"	109° 36' 45.3"	3981	11/7/2019	58.7	S			11/3/2020	60.9	S			-2.2
DOUGLAS BASIN	DOUGLAS	D-23-28 07DDA	312619109314501		31° 26' 19.4"	109° 31' 45.5"	4215	11/7/2019	140.7	V			11/3/2020	140.9	V			-0.2
DOUGLAS BASIN	DOUGLAS	D-23-26 12ABC	312656109390901	619562	31° 26' 59.5"	109° 39' 16.7"	4005	11/6/2019	60.8	S			11/3/2020	68.7	S			-7.9
DOUGLAS BASIN	DOUGLAS	D-21-27 34CCC	313318109353801	616401	31° 33' 17.8"	109° 35' 40"	4292	11/6/2019	220.9	V			11/4/2020	219.7	V			1.2
DOUGLAS BASIN	DOUGLAS	D-20-25 09BDD2	314225109475401	633787	31° 42' 26.8"	109° 47' 54"	4575	11/5/2019	268.2	V			11/4/2020	282.1	V			-13.9
DOUGLAS BASIN	DOUGLAS	D-18-26 21AAA	315142109414201	513944	31° 51' 41.4"	109° 41' 41.5"	4278	11/5/2019	199.1	V			11/2/2020	204.2	V			-5.1
DOUGLAS BASIN	DOUGLAS INA	D-22-26 26DCD	312856109400501	809844	31° 28' 56.5"	109° 40' 5.3"	4045	11/6/2019	92.5	V			11/17/2020	92.9	V			-0.4
DOUGLAS BASIN	DOUGLAS INA	D-23-27 22DDA2	312433109344901		31° 24' 35.7"	109° 34' 48.2"	4042	11/7/2019	255.5	V			11/3/2020	259.7	V			-4.2
DOUGLAS BASIN	DOUGLAS INA	D-23-26 13CCC1	312527109395701	625680	31° 25' 24.1"	109° 39' 43.9"	4009	11/7/2019	70.5	V			11/3/2020	70.9	V			-0.4
DOUGLAS BASIN	DOUGLAS INA	D-23-28 31CCC	312248109323801		31° 22' 45.3"	109° 32' 37.4"	4042	11/7/2019	348.3	V			11/3/2020	352.9	V			-4.6
DOUGLAS BASIN	DOUGLAS INA	D-22-26 31CCC	312803109444501	624411	31° 28' 1.5"	109° 44' 47.9"	4090	11/6/2019	80.9	V			11/3/2020	83.6	S			-2.7
DOUGLAS BASIN	DOUGLAS INA	D-22-26 04DAD	313242109415501	809942	31° 32' 41.3"	109° 41' 52.8"	4095	11/6/2019	146.2	V			11/4/2020	151.1	S			-4.9
DOUGLAS BASIN	DOUGLAS INA	D-22-26 29BCC1	312923109434901		31° 29' 20.7"	109° 43' 51.3"	4059	11/6/2019	68	V			11/3/2020	70	S			-2.0
DOUGLAS BASIN	DOUGLAS INA	D-21-26 24ABB	313550109392001	632767	31° 35' 51.3"	109° 39' 15.4"	4196	11/6/2019	203.8	V			11/4/2020	206.3	V			-2.5
DOUGLAS BASIN	DOUGLAS INA	D-22-26 02AAA	313310109395501	607540	31° 33' 14.9"	109° 39' 51"	4165	11/6/2019	230.2	V			11/4/2020	238.4	V			-8.2
DOUGLAS BASIN	DOUGLAS INA	D-21-26 32DAD	313332109430001	602706	31° 33' 34.09"	109° 42' 53.63"	4077.24	2/5/2020	92.57	VT		TAKEN AT 15:15 WITH BLACK 500	2/9/2021	95.01	VT		TAKEN AT 14:20 WITH BLACK 500	-2.4
DOUGLAS BASIN	DOUGLAS INA	D-21-26 02CCD	313740109403801	609654	31° 37' 45.5"	109° 40' 34.1"	4141	11/6/2019	168.8	V			11/4/2020	177.2	V			-8.4
DOUGLAS BASIN	DOUGLAS INA	D-19-26 33CDA	314358109414801		31° 43' 55.2"	109° 41' 43"	4185	11/5/2019	172.1	V			11/4/2020	173.4	V			-1.3
DOUGLAS BASIN	DOUGLAS INA	D-18-26 28AAA2	315042109414301	086642	31° 50' 45.4"	109° 41' 41.6"	4268	11/5/2019	283.9	V			11/2/2020	286.9	V			-3.0
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29BDB	330845110501701	607669	33° 8' 43"	110° 50' 17.6"	2710	11/4/2019	92	S			11/3/2020	91.9	S			0.1
DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	D-03-15 29AAB	330858110495101	624276	33° 8' 57.3"	110° 49' 48"	2725	11/4/2019	103.3	S			11/3/2020	102.6	S			0.7
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 34ADD	324142109030001	628592	32° 41' 39.6"	109° 2' 50.9"	3730	11/6/2019	49.2	V			11/4/2020	52.6	V			-3.4
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 18CCD	324348109064601	628601	32° 43' 48.5"	109° 6' 46.9"	3655	11/6/2019	23.4	V			11/4/2020	23.6	S			-0.2
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-08-32 20ABB	324355109051801	509106	32° 43' 46.6"	109° 5' 20.7"	3705	11/6/2019	70.4	V			11/4/2020	71.1	V			-0.7
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 34BAC	324707109093901	607832	32° 47' 7.4"	109° 9' 38.6"	3590	11/6/2019	51.4	S			11/4/2020	50.5	S			0.9
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-07-31 04BCC	325114109105801	600582	32° 51' 24.7"	109° 10' 57.3"	3544	11/6/2019	29.4	S			11/4/2020	30.6	S			-1.2
DUNCAN VALLEY BASIN	DUNCAN VALLEY	D-06-30 01BAA	325655109135001	637316	32° 56' 50.7"	109° 13' 47.4"	3645	11/6/2019	192.3	V			11/4/2020	191.5	V			0.8
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 20W 12 144	323438108514601		32° 34' 56.9"	108° 51' 46"	4206	11/6/2019	274.3	V			11/4/2020	297	V		MEAS 2X	-22.7
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	20S 21W 01 131	323555108581601		32° 35' 53.7"	108° 58' 13.9"	4153	11/6/2019	315.5	V			11/4/2020	315.6	V			-0.1
DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)	19S 20W 16 222	323938108541901		32° 39' 39.8"	108° 54' 19.1"	4097	11/6/2019	89.1	V			11/4/2020	85.6	V			3.5
GILA BEND BASIN	GILA BEND	C-07-06 08CDD2	324934112535301	611787	32° 49' 34"	112° 53' 52.7"	811	10/31/2019	325.6	V			10/29/2020	335.1	V			-9.5
GILA BEND BASIN	GILA BEND	C-07-06 08DDD	324936112532301	615101	32° 49' 34.6"	112° 53' 21.9"	821	10/31/2019	330.9	V			10/29/2020	343.1	V			-12.2
GILA BEND BASIN	GILA BEND	C-06-05 25BBA	325253112434801	609892	32° 52' 55"	112° 43' 47.7"	860	11/1/2019	352.4	V			10/29/2020	357.6	V			-5.2
GILA BEND BASIN	GILA BEND	C-06-04 12CDD	325450112371501	650671	32° 54' 50.8"	112° 37' 21.4"	973	11/1/2019	459.3	V			10/27/2020	463.1	V			-3.8
GILA BEND BASIN	GILA BEND	C-06-03 02ADD	325605112315001	807428	32° 56' 5.4"	112° 31' 49.5"	1221	11/1/2019	674.3	V			10/27/2020	677.3	V			-3.0
GILA BEND BASIN	GILA BEND	C-05-03 29AAA	325813112345301		32° 58' 12.7"	112° 34' 52.9"	1015	10/30/2019	509.4	V			10/27/2020	513.8	V			-4.4
GILA BEND BASIN	GILA BEND	C-05-05 20DCD	325816112473101	809667	32° 58' 18.1"	112° 47' 32.2"	659	1/8/2020	140.7	V			10/30/2020	170.8	V		DID NOT SEE ANY NEARBY WELLS PUMPING, SO MAYBE THERE WAS PUMPING NEARBY RECENTLY	-30.1
GILA BEND BASIN	GILA BEND	C-05-03 07ABB2	330047112361401	615044	33° 0' 46.1"	112° 36' 13.5"	930	10/30/2019	448.5	V			10/27/2020	453.8	V			-5.3
GILA BEND BASIN	GILA BEND	C-05-06 17DAD	325920112533201		32° 59' 19.8"	112° 53' 32.5"	658	10/31/2019	97.2	V	K		10/30/2020	92.2	V	K		5.0
GILA BEND BASIN	GILA BEND	C-04-07 34CDC	330143112582201	628201	33° 1' 39.6"	112° 58' 22.4"	580	10/31/2019	45.4	V	K		10/30/2020	47.2	V	K		-1.8
GILA BEND BASIN	GILA BEND	C-04-04 09BAA1	330604112403101		33° 6' 3.9"	112° 40' 29"	707	10/29/2019	280.3	V	K		10/29/2020	279.9	V	K	NEARBY PUMPING @ 09BAA3	0.4
GILA BEND BASIN	GILA BEND	C-02-04 26BDA	331337112383401		33° 13' 35.9"	112° 38' 33.2"	900	10/29/2019	379.1	V			10/26/2020	386.1	V			-7.0
GILA BEND BASIN	GILA BEND	C-03-05 02CBB	331143112450801		33° 11' 47"	112° 45' 8.7"	730	10/29/2019	199.9	V			10/26/2020	206.8	V			-6.9
GILA BEND BASIN	GILA BEND	C-02-04 32ADA	331246112410801	605994	33° 12' 50.4"	112° 41' 3.5"	822	10/29/2019	372	V			10/26/2020	382.1	V			-10.1
GILA BEND BASIN	GILA BEND	C-06-07 16BDD	325421112585601	906803	32° 54' 20.9"	112° 58' 56.3"	727	1/14/2020	104.1	V			10/30/2020	105	V			-0.9
GRAND WASH BASIN	GRAND WASH	B-36-15 25DCD	362908113505501	801704	36° 29' 7.8"	113° 50' 57"	2739	10/22/2019	508	V			10/28/2020	507.7	V			0.3
GRAND WASH BASIN	GRAND WASH	B-37-15 18DBC	363620113565501		36° 36' 19"	113° 56' 54.8"	3570	10/22/2019	9.1	V			10/28/2020	9.1	V			0.0
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 14DDD	332005113022801		33° 20' 3.4"	113° 2' 23.6"	991	10/31/2019	265.8	S			10/28/2020	272.3	S			-6.5
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 34BCD	331753113041001	634099	33° 17' 51.6"	113° 4' 16.5"	1054	10/31/2019	222.9	S			10/28/2020	224.3	V			-1.4
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 06CCC2	332148113073401	606835	33° 21' 47.13"	113° 7' 28.83"	1091.2	2/19/2020	433.11	VT			2/4/2021	440.1	VT		TAKEN AT 12:45 WITH BLACK 500	-7.0
HARQUAHALA BASIN	HARQUAHALA INA	C-01-08 04BDA1	332216113050501		33° 22' 18.8"	113° 5' 1.2"	1065	10/31/2019	393.2	V			10/28/2020	399.2	V			-6.0
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 34DCC1	332242113101601	627805	33° 22' 39.1"	113° 10' 11.2"	1153	10/30/2019	522.7	V	S	CASCADING	10/28/2020	529.8	V	S		-7.1

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
HARQUAHALA BASIN	HARQUAHALA INA	B-01-08 19BCC	332450113073501	600200	33° 24' 50.1"	113° 7' 34.8"	1093	10/31/2019	26.8	V			10/27/2020	32.2	S			-5.4
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 07BCC	332637113134801	635435	33° 26' 34.7"	113° 13' 48.3"	1201	1/22/2020	559.6	V			12/3/2020	586.4	V			-26.8
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 35CBB	332819113094101	803520	33° 28' 17.9"	113° 9' 38.5"	1142	10/29/2019	19.6	V			10/27/2020	20.2	S			-0.6
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 34DBB	332820113101201		33° 28' 17.7"	113° 10' 10.5"	1149	10/29/2019	510.5	V	K		10/27/2020	490.9	V	K		19.6
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 10BBB	332658113104001	800152	33° 26' 57.6"	113° 10' 36.7"	1148	10/29/2019	437.5	V		MUDDY PROBE, DIFFICULT SIGNAL	10/27/2020	429.3	V			8.2
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 05ABC	332743113121801	805455	33° 27' 42.5"	113° 12' 15.1"	1172	10/29/2019	84.1	V			10/27/2020	83.5	V			0.6
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 07ABB	333212113131801	627169	33° 32' 12.5"	113° 13' 17.7"	1260	10/29/2019	302.6	V			10/26/2020	303.3	V			-0.7
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 23ABB	333027113091001	611131	33° 30' 28.5"	113° 9' 8.1"	1169	10/29/2019	74.6	V			10/27/2020	76.9	S			-2.3
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 17DCA	333035113181701	621523	33° 30' 38.2"	113° 18' 19.5"	1295	10/29/2019	356.8	V			10/27/2020	360.2	V			-3.4
HARQUAHALA BASIN	HARQUAHALA INA	B-02-10 05ABB	333301113182601	648614	33° 33' 0.35"	113° 18' 27.92"	1330.37	10/22/2019	382.21	VT			10/13/2020	384.69	VT		TAKEN AT 9:00 WITH BLACK 500	-2.5
HARQUAHALA BASIN	HARQUAHALA INA	B-02-09 03BBB	333305113104301	808833	33° 33' 5.2"	113° 10' 41.6"	1261	1/22/2020	567.6	V			10/26/2020	574.7	V			-7.1
HARQUAHALA BASIN	HARQUAHALA INA	B-03-11 01BCC	333802113210301	520474	33° 37' 57.7"	113° 21' 4.4"	1486	10/28/2019	509.2	V			10/26/2020	511.1	V			-1.9
HARQUAHALA BASIN	HARQUAHALA INA	B-04-09 30AAC	334000113130301	612687	33° 39' 56.5"	113° 12' 59.1"	1765	10/28/2019	326.9	V			10/26/2020	328.5	V			-1.6
HARQUAHALA BASIN	HARQUAHALA INA	B-04-12 04BBD	334326113303401		33° 43' 18.9"	113° 30' 27.4"	1663.8	10/28/2019	494.6	V			10/29/2020	496.2	V			-1.6
HARQUAHALA BASIN	HARQUAHALA INA	B-01-09 24DBB	332449113080901	635439	33° 24' 49"	113° 8' 6.7"	1100	10/31/2019	232.5	V			10/27/2020	191.9	V			40.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-23-15 25BBC	352108113500201		35° 21' 6.61"	113° 50' 1.31"	3790	10/24/2019	957.6	V			10/19/2020	957.2	V			0.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-25-15 29CCC	353103113550201	606907	35° 31' 2.1"	113° 55' 2.4"	2942	10/22/2019	439.7	V			10/22/2020	438.9	V			0.8
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-25-16 30CDA	353105114021001	809833	35° 31' 9.5"	114° 2' 4.4"	2945	10/23/2019	441.4	V			10/21/2020	446	V			-4.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-26-17 35AAA	353610114033501	600500	35° 36' 12.6"	114° 3' 39.3"	2768	10/23/2019	275.3	V			10/21/2020	275.9	V			-0.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-26-18 03AAA1	354036114110601	641124	35° 40' 35"	114° 11' 6"	3300	10/23/2019	557.8	V			10/21/2020	556.9	V			0.9
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-27-16 33BAA	354130113595601	800970	35° 41' 27.6"	113° 59' 53.9"	2794	10/23/2019	349.1	V			10/21/2020	348.7	V			0.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-27-17 23CAC	354238114042201	640651	35° 42' 38.6"	114° 4' 19"	2765	10/23/2019	365	V			10/21/2020	363.8	V			1.2
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-23-15 04DDD	352400113521401	624997	35° 24' 0.9"	113° 52' 13.4"	3172	10/24/2019	449.9	V			10/22/2020	449.9	V			0.0
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-14 33ADA	352518113454001		35° 25' 26.12"	113° 45' 49.5"	3374.85	2/11/2020	551.25	VT			2/18/2021	553.03	VT		1500 BLACK 10:30	-1.8
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-14 28CAD	352555113462001	624981	35° 25' 58.78"	113° 46' 18.93"	3353.65	10/22/2019	546.6	V			10/21/2020	546.8	V			-0.2
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-16 01DDD1	352910111553001	619553	35° 29' 10.8"	113° 55' 20.9"	2961	10/22/2019	456.4	V			10/22/2020	455.3	V			1.1
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-17 31CCC1	354552114085001	805894	35° 45' 50.6"	114° 8' 55.8"	3010	10/23/2019	652.3	V			10/21/2020	652.8	V			-0.5
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-15 01BAC	352951113493901	575024	35° 29' 50.9"	113° 49' 39"	3135	10/22/2019	619.1	V			10/22/2020	620	V			-0.9
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-17 31CCC2	354551114085401	208802	35° 45' 50.74"	114° 8' 54.6"	3004.87	2/11/2020	652.9	VT			2/18/2021	654.26	VT		BLACK 1500 13:30	-1.4
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-24-16 26ABD	352624113564601	585814	35° 26' 23.6"	113° 56' 46.5"	3026	10/24/2019	544.8	V			10/22/2020	540.2	V			4.6
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-28-18 25BAA	354734114093301	212227	35° 47' 33.5"	114° 9' 33.4"	2928	10/23/2019	609.8	V			10/21/2020	610.1	V			-0.3
HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	B-29-18 25BCA	355231114101601	212231	35° 52' 31.4"	114° 10' 16.3"	2520	10/23/2019	411.2	V			10/21/2020	411.7	V			-0.5
KANAB PLATEAU BASIN	KANAB PLATEAU	B-39-02 20CDD	364540112315501	805803	36° 45' 33.7"	112° 31' 56.5"	5272	10/21/2019	611.4	V			10/26/2020	610.4	V			1.0
KANAB PLATEAU BASIN	KANAB PLATEAU	B-39-01 18DDB	364632112261001	637621	36° 46' 28.6"	112° 26' 4.5"	5585	10/21/2019	482.7	V			10/26/2020	483	V			-0.3
KANAB PLATEAU BASIN	KANAB PLATEAU	B-40-04 06AAC	365403112452801		36° 54' 3.6"	112° 45' 25.8"	5140	10/22/2019	88.8	V			10/27/2020	94.1	V			-5.3
LAKE HAVASU BASIN	LAKE HAVASU	B-13-20 04ABB1	343007114213101	606035	34° 30' 5.9"	114° 21' 32.8"	475	10/25/2019	27.4	S		PUMP OFF FOR A COUPLE MONTHS.	10/22/2020	27	V			0.4
LAKE MOHAVE BASIN	LAKE MOHAVE	B-18-21 05CAC	345824114321901	510925	34° 58' 23.3"	114° 32' 20.8"	801	10/23/2019	339.5	V			10/21/2020	340	V			-0.5
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-17-20 26DBC	345023110111401	632990	34° 50' 21.54"	110° 11' 11.04"	5361.75	10/8/2019	308.73	VT			10/28/2020	309.04	VT		BLUE 500 10:00	-0.3
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-19 23DBD	345635110173801		34° 56' 32.2"	110° 17' 21.6"	5030	10/22/2019	48	S			10/21/2020	46.5	S			1.5
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-19 17ADC	345736110204201	620724	34° 57' 34.5"	110° 20' 36.7"	5015	10/22/2019	68.7	S			10/20/2020	63.4	S			5.3
LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	A-18-18 34DAB	345452110245401	808212	34° 54' 51.8"	110° 24' 53.4"	4968	10/24/2019	16.7	S			10/22/2020	16.3	S			0.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09ACC1	340618109550401	605035	34° 6' 19"	109° 55' 4.1"	7150	10/31/2019	63	V			10/20/2020	87	V			-24.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09ACC2	340618109550402	605048	34° 6' 18.6"	109° 55' 3.8"	7150	10/31/2019	63.3	V			10/20/2020	73	V			-9.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-07-30 14BDD	340010109090101	802842	34° 0' 6.6"	109° 8' 59.6"	8032	10/24/2019	157.9	V			10/22/2020	157.7	V			0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-07-27 01CDB	340135109270001		34° 1' 35"	109° 26' 59.9"	8255	10/24/2019	27.4	S			10/22/2020	34.1	S			-6.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 03CCB1	340651109543301	606180	34° 6' 51.3"	109° 54' 33.7"	7179	11/1/2019	20	V			10/22/2020	25	V			-5.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 36CBC2	340752109581701	620708	34° 7' 52.1"	109° 58' 16.5"	6748	10/23/2019	55.1	V			10/21/2020	57.2	V			-2.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-29 33BDA	340808109165001	623223	34° 8' 8.6"	109° 16' 49.3"	6970	10/24/2019	108.7	V			10/22/2020	135.6	V			-26.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25CDC1	340828109575301	630191	34° 8' 29.6"	109° 57' 53.2"	6758	10/31/2019	148.6	V			10/20/2020	144.9	V			3.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25DDD1	340829109571601		34° 8' 28.3"	109° 57' 17.9"	6825	10/31/2019	75.7	V			10/20/2020	73.3	V			2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25CCB	340832109581101		34° 8' 33.1"	109° 58' 12.5"	6755	10/31/2019	104.5	V			10/20/2020	100.8	V			3.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 24CCB	340929109581601	616613	34° 9' 30.1"	109° 58' 13"	6720	10/29/2019	57.9	V			10/21/2020	57.6	V			0.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22AAC	340958109593201	617190	34° 9' 57.5"	109° 59' 30.7"	6720	10/29/2019	92.6	V			10/19/2020	92.1	V			0.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-28 22BDD2	342024109220301	085863	34° 20' 18.53"	109° 22' 2.42"	6062	10/8/2019	121.3	VT			10/28/2020	119.37	VT		BLUE 500 13:00	1.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-25 18DCA	342044109440001	806050	34° 20' 47.46"	109° 43' 54.56"	6422	10/22/2019	29.5	S			10/20/2020	29.7	S			-0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-10-25 22BBD2	341516109412401	532224	34° 15' 15.7"	109° 41' 24.5"	6931	10/23/2019	276.7	V			10/21/2020	276.8	V			-0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-26 19DDD	342516109372701	532813	34° 25' 10.7"	109° 37' 24.5"	6310	10/22/2019	17	S			10/20/2020	17.1	S			-0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-28 19BAD	342548109250301	620380	34° 25' 47.3"	109° 25' 2.3"	5920	10/24/2019	71.1	V			10/21/2020	65.8	V			5.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-26 18CBB	342623109382901	600014	34° 26' 22.9"	109° 38' 29"	6390	10/22/2019	553.1	V			10/20/2020	553.6	V			-0.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-11-19 14ABD	342123110173301	617074	34° 21' 22.3"	110° 17' 33.1"	6365	10/22/2019	422.4	V			10/20/2020	422.5	V			-0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-29 35AAA	342946109133501	632094	34° 29' 45.9"	109° 13' 35"	6176	10/24/2019	233.5	V			10/21/2020	234.3	V			-0.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 24CBC	343009110043501	604441	34° 30' 9.5"	110° 4' 35.5"	5618	10/22/2019	96.55	S			10/20/2020	94.15	S			2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-28 29BDC	343015109234801		34° 30' 15.1"	109° 23' 47.7"	5790	10/23/2019	26.7	S			10/21/2020	26.1	S			0.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 34DCC2	342811110061201	649164	34° 28' 10.6"	110° 6' 12.6"	5658	10/22/2019	118.7	V			10/20/2020	118.2	V			0.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-21 10CDA	343150110063001	600370	34° 31' 50.4"	110° 6' 20.7"	5632	10/22/2019	151.6	V			10/20/2020	151.7	V			-0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-27 15BDA2	343200109275801	617786	34° 32' 2.6"	109° 27' 47.7"	5840	10/23/2019	304.6	V			10/21/2020	304.5	V			0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-26E 18CBD2	343637109374901	810276	34° 36' 36.2"	109° 37' 52.4"	5433	10/23/2019	37.7	S			10/21/2020	37.7	S			0.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-11 09ADC	343655111111201	637397	34° 36' 55.6"	111° 11' 13"	6905	10/22/2019	513.8	V			10/22/2020	511.8	V			2.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-13-26 07BAD2	343302109372001	617800	34° 32' 53.5"	109° 37' 21"	5642	10/23/2019	168.1	V	K		10/21/2020	142.5	V	K		25.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-12 15DDC	344058111033101	631365	34° 40' 58"	111° 3' 31.2"	6503	10/22/2019	664	V			10/22/2020	664.2	V			-0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-23 28DCC1	343950109544001	618874	34° 39' 47.4"	109° 54' 37.7"	5350	10/22/2019	35	S			10/21/2020	38.9	S			-3.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-16-22 17CCD	344644110024201	607126	34° 46' 44.9"	110° 2' 41.6"	5165	10/22/2019	58.3	V			10/20/2020	60.8	V			-2.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-21 10CBA	345310110062501		34° 53' 12.36"	110° 6' 24.96"	5141	10/24/2019	57.6	S			10/22/2020	58	S			-0.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-24 09ABB	345850109475001	629091	34° 58' 49.3"	109° 47' 49.8"	5325	10/24/2019	17.7	S			10/22/2020	18.4	S			-0.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-23 07BAA	345901109564001	621425	34° 58' 55.5"	109° 56' 37.4"	5235	10/21/2019	30.9	S			10/21/2020	30.8	S			0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-19 33CCB	345955110202501	521996	35° 0' 0.6"	110° 20' 19.6"	5150	10/22/2019	38.3	S			10/21/2020	39.5	V			-1.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-18-14 13ABD3	345750110482801	806154	34° 57' 49.6"	110° 48' 28.2"	5162	10/24/2019	275.2	V			10/22/2020	284.3	V			-9.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-12H 13CBB	350706111014701	613868	35° 7' 5.5"	111° 1' 46.5"	5349	10/24/2019	562.4	V			10/22/2020	563.2	V			-0.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-14 07CAD UNSURV	350845110540101	601271	35° 8' 44.2"	110° 54' 1.27"	4845.96	10/9/2019	167.97	VT			10/27/2020	168.16	VT		BLUE 500 16:45	-0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-16 06CDB1	350417110413301	085761	35° 4' 15.2"	110° 41' 40.9"	4830	10/24/2019	45	V			10/20/2020	46.2	S			-1.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-19-14 03AAC1	350447110502301	618121	35° 4' 47.6"	110° 50' 21.8"	5120	10/24/2019	399.2	V			10/22/2020	399	V			0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 25DCB2	350454111361701	533589	35° 4' 54.6"	111° 36' 12.77"	6840.9	10/22/2019	48.9	S			10/19/2020	41.5	S			7.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-27 25BBD2	351149109260802	628733	35° 11' 48.6"	109° 26' 8.6"	5785	10/21/2019	67.7	V			10/21/2020	62	S			5.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-21-09 17ACD	351213111274001	637392	35° 12' 14.11"	111° 27' 29.83"	6434	10/23/2019	1310.2	V			10/19/2020	1309.8	V			0.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-07 32CBB	351442111410001	808126	35° 14' 41.6"	111° 41' 0.1"	7174	10/23/2019	80.1	V			10/19/2020	80.8	S			-0.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 27DCB2	351523111443801	647022	35° 15' 22.2"	111° 44' 38"	7318	8/6/2020	53	S			7/27/2021	56.1	V			-3.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 26BDB1	351551111434701	608396	35° 15' 51"	111° 43' 47.4"	7300	10/22/2019	68.4	S			10/21/2020	73	S			-4.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 25BBC1	351556111430401		35° 15' 56.9"	111° 43' 4.8"	7322	10/22/2019	186.6	V			10/21/2020	185.7	V			0.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-22-06 23DBC3	351620111433201		35° 16' 22.5"	111° 43' 31.4"	7332	10/22/2019	116.3	V			10/21/2020	125	S			-8.7
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-25-09 06CCD	353410111284001	649814	35° 34' 10.98"	111° 28' 45.95"	5379.95	10/23/2019	1586.8	V			10/20/2020	1587	V			-0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-23-31 33AAB	352119109031601	628127	35° 21' 19.1"	109° 3' 16.79"	6191	10/21/2019	43.9	V			10/21/2020	45.3	S			-1.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-23-08 21ABA	352214111324601	649813	35° 22' 14.71"	111° 32' 46.42"	6923.25	10/23/2019	1959.6	V			10/20/2020	1959.5	V			0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 25DCB1	354541111361701	533599	35° 4' 54.54"	111° 36' 13.34"	6842.35	10/22/2019	164.1	S			10/19/2020	164.5	S			-0.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-12-17 32AAD	342356110325601	579785	34° 23' 55.9"	110° 32' 56.1"	6575	10/23/2019	499.5	V			10/20/2020	500.8	V			-1.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25DDD2	340827109571701	574627	34° 8' 27.8"	109° 57' 17.8"	6825	10/31/2019	168.4	V			10/20/2020	198.3	V			-29.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-15-18 29CBB	343946110275401	600439	34° 39' 45.3"	110° 27' 53.7"	5919	10/21/2019	573.2	V			10/20/2020	574.8	V			-1.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-23 35DDA	344929109514901	506605	34° 49' 28.8"	109° 51' 51.8"	5611	1/28/2020	308	V			2/3/2021	307.9	V			0.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-20-07 03ACA	350848111381701	559571	35° 8' 46.05"	111° 38' 14.43"	6914.66	10/9/2019	927.18	VT			10/27/2020	927.38	VT		BLACK 1500 15:00 SPOTTY MEASUREMENT. NO RESET.	-0.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-17-24 09ABD	345333109474501	506603	34° 53' 33.47"	109° 47' 44.28"	5595.72	10/8/2019	264.88	VT			10/28/2020	265.2	VT		BLUE 500 11:00	-0.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-14-23 04CBA	343816109550401	200197	34° 38' 15.58"	109° 55' 4.06"	5493.25	10/8/2019	169.73	VT			10/28/2020	172.09	VT		BLUE 500 15:00	-2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 23CAA	340941109585601	609725	34° 9' 41.4"	109° 58' 56.1"	6719	10/30/2019	30.1	S			10/21/2020	33.3	V			-3.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 25ACA2	340859109573701	593730	34° 8' 59"	109° 57' 37.1"	6812	10/30/2019	157.1	V			10/21/2020	152.2	V			4.9
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 35AAA2	340820109582401	590483	34° 8' 20.2"	109° 58' 24.4"	6720	10/29/2019	66.8	V			10/21/2020	68.1	V			-1.3
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 26BCB	340901109591601	601140	34° 9' 0.5"	109° 59' 16.5"	6715	10/29/2019	63.4	V			10/20/2020	69	V			-5.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 36CDD	340736109574801		34° 7' 35.5"	109° 57' 48.4"	6800	10/30/2019	138.4	V			10/21/2020	146.6	V			-8.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 22DBB	340942109594901	594566	34° 9' 41.4"	109° 59' 49.5"	6695	10/29/2019	62.2	V			10/20/2020	59.8	V			2.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 06BDD	340709109572001	578532	34° 7' 8.9"	109° 57' 19.7"	6937	10/30/2019	266.6	V			10/21/2020	267	V			-0.4
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 09DAA	340614109544501	513936	34° 6' 13.4"	109° 54' 45.2"	7202	10/31/2019	152.9	S			10/20/2020	148.9	S			4.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10CBB	340609109544001	569560	34° 6' 10.1"	109° 54' 39.2"	7210	7/15/2020	400	V			4/20/2021	367.9	V			32.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10DAA1	340614109534101	563506	34° 6' 13.5"	109° 53' 41.5"	7238	10/30/2019	91.3	V			10/21/2020	100.9	V			-9.6
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10DAA2	340611109533801	565161	34° 6' 11.6"	109° 53' 37.9"	7255	10/30/2019	98.6	V			10/21/2020	100.4	V			-1.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 10BBB2	340634109543601	606181	34° 6' 34.2"	109° 54' 35.7"	7183	11/1/2019	67.8	V			10/22/2020	92.9	V			-25.1
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 03CCB2	340651109543901	573600	34° 6' 51.2"	109° 54' 39.1"	7175	11/1/2019	113.3	V			10/22/2020	118.1	V			-4.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 11ABC2	340630109530001		34° 6' 29.9"	109° 53' 0.5"	7265	10/31/2019	97.1	V			10/21/2020	98.6	V			-1.5
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 11ABD	340628109525301		34° 6' 28.1"	109° 52' 52.9"	7281	10/31/2019	113.2	V			10/21/2020	117	V			-3.8
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 01DBC	340655109515901	559106	34° 6' 55.3"	109° 51' 59.2"	7318	10/31/2019	257	V			10/21/2020	226	V			31.0
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-08-23 05BAD	340723109561801	905200	34° 7' 21.8"	109° 56' 18.5"	6930	10/30/2019	87	V			10/21/2020	101.2	V			-14.2
LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	A-09-22 26ADB2	340903109582602		34° 9' 2.7"	109° 58' 26.5"	6742	10/29/2019	22.6	V			10/20/2020	26.3	V			-3.7
LOWER GILA BASIN	CHILDS VALLEY	C-11-06 24BDA1	322726112502001	600485	32° 27' 27.2"	112° 50' 20.3"	1420	11/6/2019	669	V			11/3/2020	668.4	V			0.6
LOWER GILA BASIN	WELLTON - MOHAWK	C-09-19 04DAA	324014114123601	609429	32° 40' 14.1"	114° 12' 35.2"	208.1	10/29/2019	14	V			10/29/2020	13.9	S			0.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-09-16 06BBC	324037113570401	516372	32° 40' 37.5"	113° 57' 2.4"	401	10/29/2019	151.1	V			10/29/2020	151.1	V			0.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-17 33BBB	324135114011701		32° 41' 34.7"	114° 1' 16.7"	315	1/8/2020	77.2	V			10/29/2020	77.4	V			-0.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-18 26BCC2	324200114052301	522296	32° 42' 0.5"	114° 5' 23.5"	231	10/29/2019	45.1	V	P		10/29/2020	41.6	V	P		3.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-17 21CBD2	324243114010702		32° 42' 43.5"	114° 1' 6.6"	245	1/8/2020	15.8	S			10/29/2020	16.3	V			-0.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-15 09DAA	324440113475501	616560	32° 44' 41.4"	113° 47' 54.8"	409	1/7/2020	135.3	V			10/29/2020	135.5	V			-0.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-12 24ACD	324814113263501	610478	32° 48' 15.3"	113° 26' 34.9"	512	10/30/2019	355.6	V			11/4/2020	356.1	V			-0.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-15 16AAA	324929113475501		32° 49' 29.2"	113° 47' 54.9"	335	10/29/2019	34.5	S			10/29/2020	35.2	V			-0.7
LOWER GILA BASIN	WELLTON - MOHAWK	C-07-13 21AAA	324839113353201	803848	32° 48' 38.8"	113° 35' 31.6"	419	10/28/2019	98.8	V			10/29/2020	99.4	V			-0.6

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 34DCC	325117113471701		32° 51' 15.4"	113° 47' 20.5"	385	10/29/2019	80.8	V			10/29/2020	81	V			-0.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-20 32ACA2UNSURV	325157114200700	808688	32° 51' 46.7"	114° 20' 7.4"	410	10/31/2019	238	V			10/28/2020	238.2	V			-0.2
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-12 19BBA	325353113321101		32° 53' 53.6"	113° 32' 17.7"	383	10/28/2019	45.3	S			10/29/2020	45.8	S			-0.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-11 14CDD	325356113214201		32° 53' 57.2"	113° 21' 41.6"	463	10/30/2019	59.4	V			11/4/2020	59.7	V			-0.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-14 28BAB	325300113423201	627175	32° 53' 0.5"	113° 42' 26.9"	408	10/29/2019	115.7	V			10/29/2020	117.6	S			-1.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-15 26AAA	325300113455201		32° 53' 1.2"	113° 45' 52"	410	10/29/2019	93.5	S			10/29/2020	96.4	V			-2.9
LOWER GILA BASIN	WELLTON - MOHAWK	C-06-08 17BDD	325422113060801	804050	32° 54' 19.8"	113° 6' 4.9"	708	10/29/2019	229.4	V			10/27/2020	229.4	V			0.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-05-19 19BCB UNSURV	325841114155401		32° 58' 48.1"	114° 15' 59.7"	835	10/31/2019	633	V			10/28/2020	634	V			-1.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-11 34BBB	330239113232801	615043	33° 2' 39.1"	113° 23' 28.5"	603	10/31/2019	225.1	V			10/27/2020	224.1	V			1.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-05-09 06BBB	330140113140901	633678	33° 1' 44.3"	113° 14' 11.3"	501	10/31/2019	53	S			10/27/2020	53	S			0.0
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-10 22ABB	330422113164301	619482	33° 4' 23.5"	113° 16' 47.1"	605	10/31/2019	67.9	V			10/27/2020	67.6	S			0.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-10 29BCC	330822113192101	614970	33° 8' 23.8"	113° 19' 22.6"	798	10/31/2019	432.1	V			10/27/2020	432.2	V			-0.1
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-11 15BBA	330514113231001	618118	33° 5' 15.7"	113° 23' 15.4"	693	10/31/2019	318.8	V			10/27/2020	324.2	V			-5.4
LOWER GILA BASIN	WELLTON - MOHAWK	C-04-10 02BAA	330700113154701	614990	33° 7' 0.3"	113° 15' 46.5"	732	10/31/2019	349.2	V			10/27/2020	352.6	V			-3.4
LOWER GILA BASIN	WELLTON - MOHAWK	C-03-11 31DBB	330725113260201	804053	33° 7' 26.67"	113° 25' 56.91"	786.34	10/23/2019	410.3	VT			10/14/2020	411.55	VT		TAKEN WITH BLACK 500 AT 13:30	-1.3
LOWER GILA BASIN	WELLTON - MOHAWK	C-01-12 15CAC UNSURV	332022113285601	513721	33° 20' 21.6"	113° 28' 56.3"	1270	11/1/2019	304.4	V			10/30/2020	304.9	V			-0.5
LOWER GILA BASIN	WELLTON - MOHAWK	C-08-17 12DDD3	324415113571201	226666	32° 44' 14.9"	113° 57' 11.8"	263	10/29/2019	24.2	S			10/29/2020	29	S			-4.8
LOWER SAN PEDRO BASIN	CAMP GRANT WASH	D-08-14 09AAD	324525110534701	615540	32° 45' 24.7"	110° 53' 46.5"	3965	11/5/2019	74.9	V			11/4/2020	74.6	S			0.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-13-18 02BDD	322003110283701		32° 20' 0.3"	110° 28' 34.6"	3230	11/6/2019	127.5	S			11/4/2020	124.7	S			2.8
LOWER SAN PEDRO BASIN	MAMMOTH	D-12-19 19BBC	322253110270001	613528	32° 22' 52.3"	110° 26' 56.1"	2950	11/6/2019	79.1	V			11/4/2020	79.1	S			0.0
LOWER SAN PEDRO BASIN	MAMMOTH	D-11-18 10CAC	322924110294501	613762	32° 29' 24.2"	110° 29' 46"	2795	11/5/2019	22.1	S			11/4/2020	23.7	S			-1.6
LOWER SAN PEDRO BASIN	MAMMOTH	D-09-15 35AAD	323644110461201	649302	32° 36' 44.8"	110° 46' 24.1"	4480	11/5/2019	44.8	V			11/3/2020	45.8	S			-1.0
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-16 25DCD	324208110393301		32° 42' 11.1"	110° 39' 32.5"	2910	11/5/2019	482.6	V			11/4/2020	482.1	V			0.5
LOWER SAN PEDRO BASIN	MAMMOTH	D-08-17 15DAA1	324418110350001		32° 44' 14.2"	110° 35' 10.1"	2978	11/5/2019	293.7	V			11/4/2020	294.3	V			-0.6
LOWER SAN PEDRO BASIN	MAMMOTH	D-05-15 26AAD	325823110463301	612035	32° 58' 23"	110° 46' 32.9"	1925	11/4/2019	32.5	S			11/3/2020	28.3	S			4.2
LOWER SAN PEDRO BASIN	MAMMOTH	D-05-15 24BDA2	325912110455701		32° 59' 11.6"	110° 45' 58.3"	1922	11/4/2019	21.4	S			11/3/2020	19.2	S			2.2
LOWER SAN PEDRO BASIN	MAMMOTH	D-13-19 23DAD2	321715110220401		32° 17' 14.3"	110° 22' 1.7"	3145	11/6/2019	41.1	V			11/5/2020	40.8	S			0.3
LOWER SAN PEDRO BASIN	MAMMOTH	D-15-20 10CAB2	320836110172301	808718	32° 8' 36.9"	110° 17' 23.8"	3319	11/6/2019	43.5	S			11/5/2020	44.4	S			-0.9
LOWER SAN PEDRO BASIN	MAMMOTH	D-14-20 34CAA1	321017110171401		32° 10' 18.4"	110° 17' 15.1"	3362	11/6/2019	119.3	V			11/5/2020	118.6	V			0.7
LOWER SAN PEDRO BASIN	MAMMOTH	D-15-20 09AAB2	320901110175301	607752	32° 9' 2.74"	110° 17' 53.34"	3306.85	2/5/2020	33.07	VT		TAKEN AT 10:45 WITH BLACK 500	2/10/2021	34.1	VT		TAKEN AT 8:55 WITH BLACK 500	-1.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 28ACC	334452113370401	607056	33° 44' 50"	113° 37' 2.6"	1918.3	10/29/2019	325.6	V			10/23/2020	326.9	V			-1.3
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 19BBD2	334557113393201		33° 45' 54.2"	113° 39' 36.6"	1955	10/29/2019	395.8	V			10/23/2020	397.5	V			-1.7
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 32ADB	334408113313401		33° 44' 7.2"	113° 31' 32.5"	1697	10/29/2019	118.9	V			10/23/2020	121.7	V			-2.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-13 28DBD2	334955113365201	634103	33° 49' 55"	113° 36' 52.8"	2009	1/22/2020	636.6	V			10/22/2020	641.9	V			-5.3
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-12 19DBB	335053113224001		33° 50' 53.6"	113° 32' 49.1"	1939.09	10/29/2019	42.6	V			10/22/2020	42	S			0.6
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 12DAB1	334729113334201		33° 47' 25.01"	113° 33' 39.31"	1827.75	10/22/2019	306.39	VT			10/13/2020	305.45	VT		TAKEN AT 10:05 WITH BLACK 500	0.9
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-13 02DBB	334818113350001		33° 48' 17.72"	113° 34' 56.6"	1861.45	10/22/2019	25.94	VT			10/13/2020	28.08	VT		TAKEN AT 10:30 WITH BLACK 500	-2.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-05-12 05AAD1	334845113312201	614500	33° 48' 31.5"	113° 31' 22.1"	1907	10/29/2019	427.6	V			10/22/2020	432.7	V			-5.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-06-11 05ADD	335334113250701	804122	33° 53' 32.07"	113° 25' 8.41"	1991.42	10/29/2019	251.2	V			10/22/2020	251.8	V			-0.6
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 33ABB	335449113120601	612679	33° 54' 49.3"	113° 12' 6.4"	2235	10/30/2019	648.2	V			10/21/2020	648.3	V			-0.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 15BAA	335727113045101	807721	33° 57' 26.1"	113° 4' 49.4"	2257	10/30/2019	639.6	V			10/21/2020	641.1	V			-1.5
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 08DAD2	335741113251401	506602	33° 57' 40.8"	113° 25' 13.8"	2175	10/30/2019	546	V			10/22/2020	547.8	V			-1.8
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-08-10 36BBB	340003113154501	614567	34° 0' 3.3"	113° 15' 44.5"	2198	10/30/2019	560	V			10/21/2020	561.2	V			-1.2
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-11 27ABC	335535113232701	801549	33° 55' 32.7"	113° 23' 27.9"	2028	10/29/2019	268.9	V			10/22/2020	270	V			-1.1
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-08 20DDD	335545113062501	500248	33° 55' 42.9"	113° 6' 23.8"	2224	10/30/2019	688.6	V			10/21/2020	691	V			-2.4
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 19AAA	335633113195701	604150	33° 56' 34.3"	113° 19' 56.8"	2056	10/30/2019	377.3	V			10/21/2020	389.3	V			-12.0
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-09 15CDD	335635113110601	604129	33° 56' 35.3"	113° 11' 5.9"	2153	10/30/2019	579.1	V			10/21/2020	581	V			-1.9
MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	B-07-10 33DDA2	335407113175201	546173	33° 54' 5.7"	113° 17' 50.9"	2205	10/30/2019	549.1	V			10/22/2020	554.4	V			-5.3
MEADVIEW BASIN	MEADVIEW	B-30-17 14DCC	355855114043501	610730	35° 58' 55.2"	114° 4' 33.92"	3187.04	2/11/2020	429.83	VT			2/18/2021	431.5	VT		BLUE 500 12:30	-1.7
MEADVIEW BASIN	MEADVIEW	B-30-16 07ADC	355959114021901	637021	36° 0' 16.5"	114° 2' 10.2"	2621	10/23/2019	129.3	S			10/21/2020	136.1	S			-6.8
MORENCI BASIN	MORENCI	D-05-30 17ABA	330016109163701	621098	33° 0' 17.1"	109° 16' 36.2"	3890	11/6/2019	504.2	V			11/4/2020	504.9	V			-0.7
MORENCI BASIN	MORENCI	A-05-30 14ABD	334954109084501	508886	33° 49' 53.8"	109° 8' 45.4"	8045	10/24/2019	90.7	V			10/22/2020	104.3	S			-13.6
MORENCI BASIN	MORENCI	A-05-30 01BBB3	335145109082901	598440	33° 51' 45"	109° 8' 28.9"	8272	10/24/2019	21	S			10/22/2020	22.5	S			-1.5
MORENCI BASIN	MORENCI	A-05-30 13DBC	334929109075301	633171	33° 49' 28.1"	109° 7' 54.7"	7999	10/24/2019	68.6	V			10/22/2020	78.8	V			-10.2
MORENCI BASIN	MORENCI	A-05-31 17CAA1	334943109055301	519013	33° 49' 36.2"	109° 5' 53.4"	7907	10/24/2019	7.7	S			10/22/2020	8.6	S			-0.9
MORENCI BASIN	MORENCI	A-05-31 16DBC	334930109044701		33° 49' 30.6"	109° 4' 47.2"	7936	10/24/2019	41.4	S			10/22/2020	40.7	S			0.7
PARIA BASIN	PARIA	A-41-08 14BCA	365723111302801	637389	36° 57' 22.7"	111° 30' 26.5"	4112	10/21/2019	519.6	V			10/26/2020	520.1	V			-0.5
PARIA BASIN	PARIA	A-42-08 36CBD	365942111292501		36° 59' 40.69"	111° 29' 24.3"	3735.84	1/28/2020	125.6	V			2/2/2021	147.7	S			-22.1
PARIA BASIN	PARIA	A-42-08 35ABB	370006111300401		37° 0' 5.55"	111° 30' 5.16"	3734.69	1/28/2020	116.4	V			2/2/2021	114	S			2.4
PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	B-09-19 07BBB	340836114165701	601138	34° 8' 37.3"	114° 17' 0.6"	419	10/29/2019	77.4	V			10/28/2020	77.5	V			-0.1
PARKER BASIN	LA POSA PLAINS	B-02-18 09DDC	333125114065901		33° 31' 21.6"	114° 6' 57"	1495	10/30/2019	67.5	S			10/28/2020	67.5	V			0.0
PARKER BASIN	LA POSA PLAINS	B-03-19 29BAB	333445114144601	607066	33° 34' 46.6"	114° 14' 44.8"	1008	10/30/2019	145.4	V			10/28/2020	146.2	V			-0.8
PEACH SPRINGS BASIN	PEACH SPRINGS	B-27-07 21CDC2	354220113020801		35° 42' 18.9"	113° 2' 8.5"	5694	10/24/2019	451	V			10/20/2020	451.4	V			-0.4
PEACH SPRINGS BASIN	PEACH SPRINGS	B-24-08 20AAB2	352729113081501	627220	35° 27' 28.7"	113° 8' 13.7"	5246	10/24/2019	832.3	V			10/19/2020	831.4	V			0.9
PEACH SPRINGS BASIN	PEACH SPRINGS	B-24-12 17CBC	352740113355501	609483	35° 27' 47.09"	113° 35' 37.59"	4250	10/24/2019	147.4	V			10/20/2020	161.4	S			-14.0
PEACH SPRINGS BASIN	PEACH SPRINGS	B-24-08 09DDD	352826113070201	623637	35° 28' 25.38"	113° 7' 0.75"	5202	10/24/2019	830.3	V			10/20/2020	826.1	V			4.2
PHOENIX AMA	CAREFREE	A-06-04 22CCC	335036111563101	518052	33° 50' 34.59"	111° 56' 31.89"	2190	12/4/2019	49.8	S			12/14/2020	57.4	S			-7.6
PHOENIX AMA	CAREFREE	A-06-04 21DAC	335052111564701		33° 50' 51.7"	111° 56' 47.3"	2170	12/6/2019	102.7	S			12/14/2020	111.1	S			-8.4
PHOENIX AMA	CAREFREE	A-05-04 12CCB	334716111542501		33° 47' 17.2"	111° 54' 23.3"	2380	12/4/2019	26.7	S			12/10/2020	28.1	S			-1.4
PHOENIX AMA	CAREFREE	A-06-05 31CCC2	334850111532401	604782	33° 48' 50.4"	111° 53' 23.9"	2558	12/3/2019	202.8	V			12/18/2020	205.5	V			-2.7
PHOENIX AMA	CAREFREE	A-06-04 23BCA	335108111551901	636832	33° 51' 8.6"	111° 55' 20"	2396	12/6/2019	175.8	V			12/14/2020	176.8	S			-1.0
PHOENIX AMA	CAREFREE	A-05-05 05CAA	334822111515401	087599	33° 48' 23.47"	111° 51' 52.03"	2670.16	2/4/2020	295.14	VT			2/18/2021	294.22	VT		TAKEN AT 14:11 WITH BLUE 500	0.9
PHOENIX AMA	CAREFREE	A-06-04 15CAC	335144111561201	223752	33° 51' 44.1"	111° 56' 11.6"	2330	12/6/2019	110.4	S			12/10/2020	123.4	V			-13.0
PHOENIX AMA	EAST SALT RIVER	D-03-09 34AAA	330753111241901	619399	33° 7' 55.4"	111° 24' 17.5"	1612	12/11/2019	380.5	V			12/7/2020	379.6	V			0.9
PHOENIX AMA	EAST SALT RIVER	D-03-09 32ABA	330757111263401		33° 7' 57.9"	111° 26' 35.3"	1566	12/11/2019	336.3	V			12/7/2020	337.3	V			-1.0
PHOENIX AMA	EAST SALT RIVER	D-03-08 35BAA	330757111300001	615302	33° 7' 55.7"	111° 30' 0.3"	1518	12/10/2019	287.2	V	K		12/7/2020	258	V	K		29.2
PHOENIX AMA	EAST SALT RIVER	D-03-08 26AAA	330846111302801	615294	33° 8' 45.8"	111° 29' 27.8"	1537	12/10/2019	315.1	V			12/7/2020	317.7	V			-2.6
PHOENIX AMA	EAST SALT RIVER	D-03-09 20DAA	330916111262001	610703	33° 9' 16.5"	111° 26' 20"	1595	12/11/2019	369.5	V			12/8/2020	369.9	V			-0.4
PHOENIX AMA	EAST SALT RIVER	D-04-09 07DBB	330547111274701	623858	33° 5' 46.7"	111° 27' 47.3"	1510	12/11/2019	269.3	V			12/7/2020	265.6	V			3.7
PHOENIX AMA	EAST SALT RIVER	D-04-08 02CCC	330617111302201	610414	33° 6' 15.1"	111° 30' 24.1"	1532	12/11/2019	239.2	S			12/7/2020	237.7	V			1.5
PHOENIX AMA	EAST SALT RIVER	D-04-09 05AAB2	330704111262601	612176	33° 7' 5.3"	111° 26' 29"	1556	12/11/2019	317.8	V			12/7/2020	318.3	V			-0.5
PHOENIX AMA	EAST SALT RIVER	D-02-07 25DDD3	331313111350301	612290	33° 13' 12.5"	111° 35' 3.3"	1464	12/10/2019	293.9	V			12/7/2020	315.2	V			-21.3
PHOENIX AMA	EAST SALT RIVER	D-02-07 27DAD	331324111370001		33° 13' 23.8"	111° 37' 0.5"	1427	12/10/2019	251.9	V			12/7/2020	282.9	V			-31.0
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ2	331329111301202		33° 13' 31.3"	111° 30' 10.5"	1569	10/29/2019	374.9	V			10/29/2020	378.4	V			-3.5
PHOENIX AMA	EAST SALT RIVER	D-02-08 26CAD1 PZ3	331329111301203		33° 13' 31.3"	111° 30' 10.5"	1569	10/29/2019	375.2	V			10/29/2020	383.8	V			-8.6
PHOENIX AMA	EAST SALT RIVER	D-03-08 16DBD	331001111315801	615283	33° 9' 59.9"	111° 31' 59"	1506	12/10/2019	296.7	V			12/7/2020	302.4	V			-5.7
PHOENIX AMA	EAST SALT RIVER	D-03-08 13AAA2	331033111282901	603383	33° 10' 33.4"	111° 28' 27.2"	1568	12/16/2019	354.8	V			12/8/2020	356.2	V			-1.4
PHOENIX AMA	EAST SALT RIVER	D-03-08 08DDD	331037111324201	615279	33° 10' 36.7"	111° 32' 42.7"	1491	12/10/2019	302.6	V			12/7/2020	309	V			-6.4
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ1	331042111254301		33° 10' 40.5"	111° 25' 43.1"	1628	12/11/2019	411.6	V			12/10/2020	411.9	V			-0.3
PHOENIX AMA	EAST SALT RIVER	D-03-09 09DCD PZ2	331042111254302		33° 10' 40.5"	111° 25' 43.1"	1628	12/11/2019	410.2	V			12/10/2020	410.3	V			-0.1
PHOENIX AMA	EAST SALT RIVER	D-03-08 10ABB	331127111310201	603378	33° 11' 26.7"	111° 31' 7.2"	1529	12/10/2019	295.5	V	K		12/8/2020	327.9	V	K		-32.4
PHOENIX AMA	EAST SALT RIVER	D-03-08 04BBA	331219111322901	615275	33° 12' 18.8"	111° 32' 29.8"	1510	12/10/2019	259.4	V	K		12/8/2020	260.9	V	K		-1.5
PHOENIX AMA	EAST SALT RIVER	D-02-07 31CDA2	331224111403701	608807	33° 12' 23.8"	111° 40' 37.2"	1442	12/5/2019	336.4	V			12/8/2020	339.6	V			-3.2
PHOENIX AMA	EAST SALT RIVER	D-02-09 36DBD	331236111223901	615235	33° 12' 40.5"	111° 22' 33.5"	1752	12/11/2019	530.8	V			12/10/2020	529.8	V			1.0
PHOENIX AMA	EAST SALT RIVER	D-02-08 33DAA	331245111314201	608535	33° 12' 44.8"	111° 31' 42.2"	1524	12/10/2019	321.8	V			12/8/2020	328.3	V			-6.5
PHOENIX AMA	EAST SALT RIVER	D-02-06 11BCC2	331613111431101	620529	33° 16' 13.8"	111° 43' 10.7"	1316	12/10/2019	147.8	V			12/9/2020	152.2	V			-4.4
PHOENIX AMA	EAST SALT RIVER	D-02-12 07ABA	331640111090801	624605	33° 16' 39.4"	111° 9' 6.3"	2460	12/17/2019	15.5	S			1/8/2021	10.6	S			4.9
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ1	331703111303401		33° 17' 6.6"	111° 30' 37.67"	1572.84	1/28/2020	405.7	V			1/26/2021	405.8	V			-0.1
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ2	331703111303402		33° 17' 6.6"	111° 30' 37.67"	1572.84	1/28/2020	373.2	V			1/26/2021	363.1	V			10.1
PHOENIX AMA	EAST SALT RIVER	D-02-08 02CBB PZ3	331703111303403		33° 17' 6.6"	111° 30' 37.67"	1572.84	2/24/2020	380.5	V			2/22/2021	379.8	V			0.7
PHOENIX AMA	EAST SALT RIVER	D-02-06 06ADA	331713111462001	620524	33° 17' 13.9"	111° 46' 20.4"	1264	12/10/2019	154.7	V			12/9/2020	159.2	V			-4.5
PHOENIX AMA	EAST SALT RIVER	D-02-10 21ADB	331440111192401	615236	33° 14' 39.6"	111° 19' 22.9"	1903	12/17/2019	567.4	V			1/8/2021	572.8	V			-5.4
PHOENIX AMA	EAST SALT RIVER	D-02-07 22BBC	331446111380001	609473	33° 14' 46.68"	111° 38' 0.58"	1402.3	2/25/2020	191.06	VT			2/18/2021	189.63	VT		TAKEN AT 09:35 WITH BLUE 500	1.4
PHOENIX AMA	EAST SALT RIVER	D-02-07 17DDD	331456111390501	801577	33° 14' 55.9"	111° 39' 4.4"	1384	12/10/2019	171	V			12/7/2020	169.5	S			1.5
PHOENIX AMA	EAST SALT RIVER	D-02-06 18CAA2	331517111465501	620535	33° 15' 19.9"	111° 46' 51.1"	1264	12/10/2019	66.5	V	V		12/9/2020	65.8	V	V		0.7
PHOENIX AMA	EAST SALT RIVER	D-02-10 16BCB	331532111200901	610435	33° 15' 33"	111° 20' 6.6"	1884	12/17/2019	377	V			12/10/2020	378.6	V			-1.6
PHOENIX AMA	EAST SALT RIVER	D-02-07 10CDD2	331548111373201	607839	33° 15' 48.3"	111° 37' 32"	1412	12/4/2019	205.1	V			12/8/2020	206.5	V			-1.4
PHOENIX AMA	EAST SALT RIVER	D-02-08 E07DDD	331550111334801	619742	33° 15' 49.5"	111° 33' 46.7"	1480	12/17/2019	226.3	S			12/8/2020	224	S			2.3
PHOENIX AMA	EAST SALT RIVER	D-01-08 21ADB PZ1	331953111315001		33° 19' 53.1"	111° 31' 51.4"	1565	11/14/2019	337	V			11/9/2020	336.4	V			0.6
PHOENIX AMA	EAST SALT RIVER	D-01-08 21ADB PZ2	331953111315002		33° 19' 53.1"	111° 31' 51.4"	1565	11/14/2019	336.5	V			11/9/2020	336.8	V			-0.3
PHOENIX AMA	EAST SALT RIVER	D-01-05 15CDD2	332008111495801	617083	33° 20' 7.13"	111° 49' 56.92"	1217.73	2/6/2020	121.23	VT			2/9/2021	130.3	VT		TAKEN AT 15:46 WITH BLUE 500	-9.1
PHOENIX AMA	EAST SALT RIVER	D-01-05 17DDA	332019111513101	625830	33° 20' 18.8"	111° 51' 30.6"	1201	12/3/2019	92.7	V			12/7/2020	87.2	V			5.5
PHOENIX AMA	EAST SALT RIVER	D-01-06 34CDD	331734111434501	620522	33° 17' 33.5"	111° 43' 44.7"	1294	12/10/2019	148.3	V	V		12/9/2020	153	V	V		-4.7
PHOENIX AMA	EAST SALT RIVER	D-01-05 35ADC	331800111483501	618622	33° 17' 57.17"	111° 48' 31.15"	1235	11/13/2019	116.7	V			11/10/2020	114.2	V			2.5
PHOENIX AMA	EAST SALT RIVER	D-01-10 35DBA	331803111172901	628140	33° 18' 3.1"	111° 17' 27.1"	2040	12/17/2019	47.8	V			1/8/2021	49.1	V			-1.3
PHOENIX AMA	EAST SALT RIVER	D-01-11 34BCB UNSURV	331810111134501	600936	33° 18' 9.6"	111° 13' 45.7"	2180	12/17/2019	16	S			1/8/2021	20.1	S			-4.1
PHOENIX AMA	EAST SALT RIVER	D-01-04 29DBB	331844111581501	626841	33° 18' 44.79"	111° 58' 15.19"	1198	12/3/2019	112.8	V			12/7/2020	113.8	V			-1.0
PHOENIX AMA	EAST SALT RIVER	D-01-07 30CBC1	331846111411901	620519	33° 18' 41.7"	111° 41' 9.3"	1325	12/10/2019	180	V			12/9/2020	194.1	V			-14.1
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ1	331848111334901	615222	33° 18' 51.1"	111° 33' 49.1"	1489	10/30/2019	303.3	V			10/29/2020	301.8	V			1.5
PHOENIX AMA	EAST SALT RIVER	D-01-08 30DAA PZ2	331848111334902	615222	33° 18' 51.1"	111° 33' 49.1"	1489	10/30/2019	303.9	V			10/29/2020	301.7	V			2.2
PHOENIX AMA	EAST SALT RIVER	D-01-07 25ADD	331850111350001	803495	33° 18' 48.4"	111° 34' 59.9"	1458	12/17/2019	302.4	V	P		12/8/2020	300.6	V	P		1.8
PHOENIX AMA	EAST SALT RIVER	D-01-04 18DBB1	332032111591201		33° 20' 28.2"	111° 59' 12.3"	1293	12/4/2019	206.3	V			12/11/2020	206.6	V			-0.3
PHOENIX AMA	EAST SALT RIVER	D-01-05 14AAB	332058111483901	634676	33° 20' 57.4"	111° 48' 38.3"	1224	12/11/2019	128.8	V		CHECKED 3X	12/7/2020	134.5	V			-5.7
PHOENIX AMA	EAST SALT RIVER	D-01-05 10ADD	332127111492801	624351	33° 21' 25.6"	111° 49' 26.1"	1212	12/3/2019	101.2	V			12/7/2020	98.1	S			3.1
PHOENIX AMA	EAST SALT RIVER	A-01-05 29DDA	332346111512801	701744	33° 23' 47.7"	111° 51' 23.9"	1214.46	2/6/2020	97.6	VT			2/9/2021	101.7	VT		TAKEN AT 12:48 WITH BLUE 500	-4.1
PHOENIX AMA	EAST SALT RIVER	A-01-05 30BDD	332359111525701	607741	33° 24' 1.5"	111° 53' 3"	1199	11/13/2019	89.7	V			11/10/2020	88.4	V			1.3
PHOENIX AMA	EAST SALT RIVER	D-01-04 03BBB2	332240111564201	617852	33° 22' 40.3"	111° 56' 38.4"	1182	11/15/2019	87.7	V			11/10/2020	86	V			1.7
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ1	332308111345001		33° 23' 7.7"	111° 34' 54.23"	1561.35	2/24/2020	557.1	V			2/22/2021	554.9	V			2.2

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ2	332308111345002		33° 23' 7.7"	111° 34' 54.23"	1561.35	2/24/2020	563.05	V			2/22/2021	560.55	V			2.5
PHOENIX AMA	EAST SALT RIVER	A-01-07 36DAA2 PZ3	332308111345003		33° 23' 7.7"	111° 34' 54.23"	1561.35	2/24/2020	516.7	V			2/22/2021	514.3	V			2.4
PHOENIX AMA	EAST SALT RIVER	A-01-08 21ACB	332506111321101		33° 25' 6.3"	111° 32' 11.3"	1758	12/12/2019	423.3	V			12/10/2020	422.5	V			0.8
PHOENIX AMA	EAST SALT RIVER	A-01-07 23ACA	332507111361001	613969	33° 25' 6.8"	111° 36' 10.6"	1601	12/12/2019	611.2	V			12/10/2020	610.1	V			1.1
PHOENIX AMA	EAST SALT RIVER	A-01-06 26AAA	332429111420401	621102	33° 24' 26.4"	111° 42' 5.3"	1358	12/6/2019	263.3	V			12/8/2020	263.2	V			0.1
PHOENIX AMA	EAST SALT RIVER	A-01-08 10DCC1	332614111311101	614002	33° 26' 14.4"	111° 31' 5.9"	1861	12/12/2019	97.7	V			12/10/2020	93.4	V			4.3
PHOENIX AMA	EAST SALT RIVER	A-01-07 18ACC	332547111402701	500714	33° 25' 48.8"	111° 40' 28.7"	1479	12/4/2019	380	V			12/8/2020	376.2	V			3.8
PHOENIX AMA	EAST SALT RIVER	A-01-06 15ACD1	332549111432601	500994	33° 25' 49.17"	111° 43' 26.2"	1356.67	2/6/2020	254.71	VT			2/9/2021	250.95	VT		TAKEN AT 15:02 WITH BLUE 500	3.8
PHOENIX AMA	EAST SALT RIVER	A-01-05 02DDC1	332711111482601	607670	33° 27' 5.92"	111° 48' 27.26"	1259.78	2/6/2020	131.95	VT			2/9/2021	142.43	VT		TAKEN AT 13:15 WITH BLUE 500	-10.5
PHOENIX AMA	EAST SALT RIVER	A-01-06 03ADA	332746111430601	629610	33° 27' 45.4"	111° 43' 5.4"	1400	12/4/2019	292.2	V			12/9/2020	286.5	V			5.7
PHOENIX AMA	EAST SALT RIVER	A-02-04 22BDD	333009111560401		33° 30' 8.1"	111° 56' 2.9"	1290	12/3/2019	158.3	V			12/8/2020	155.7	V			2.6
PHOENIX AMA	EAST SALT RIVER	A-02-06 33BAB1	332837111445901	620482	33° 28' 44.6"	111° 44' 45.8"	1308	12/10/2019	202.5	V			12/9/2020	199.4	V			3.1
PHOENIX AMA	EAST SALT RIVER	A-02-04 25CDD	332855111535901	626540	33° 28' 55.51"	111° 53' 58.42"	1233.58	12/6/2019	98.05	V		COS E-TAPE USED	10/23/2020	97.78	V		COS E-TAPE USED; TAKEN AT 0756	0.3
PHOENIX AMA	EAST SALT RIVER	A-02-06 28DDB	332903111441901	607739	33° 29' 3.29"	111° 44' 16.6"	1318	11/13/2019	204.4	V			11/13/2020	184.6	V			19.8
PHOENIX AMA	EAST SALT RIVER	A-02-04 11DCC2	333127111544601	617843	33° 31' 26.8"	111° 54' 52.3"	1275	11/13/2019	298.4	V			11/13/2020	291	V			7.4
PHOENIX AMA	EAST SALT RIVER	A-03-05 28ADA	333442111502101	629249	33° 34' 36.9"	111° 50' 20"	1421	12/3/2019	279.3	V			12/9/2020	279.6	V			-0.3
PHOENIX AMA	EAST SALT RIVER	A-03-04 25BBB	333448111542801	626825	33° 34' 47.72"	111° 54' 28.57"	1351.17	2/4/2020	292.42	VT			2/18/2021	288.13	VT		TAKEN AT 12:03 WITH BLUE 500	4.3
PHOENIX AMA	EAST SALT RIVER	A-03-04 21CCB2	333507111573301	626625	33° 35' 4.4"	111° 57' 33.7"	1363	12/11/2019	339.2	V			12/8/2020	335.1	V			4.1
PHOENIX AMA	EAST SALT RIVER	A-02-04 01ACC	333248111535801	626816	33° 32' 49.77"	111° 53' 57.18"	1296.92	12/6/2019	173.87	VT			10/23/2020	178.91	VT		TAKEN WITH BLUE 500 AT 0824	-5.0
PHOENIX AMA	EAST SALT RIVER	A-03-04 35ADB	333338111544301	612420	33° 33' 49.2"	111° 54' 40.7"	1324	12/3/2019	225.6	S			12/9/2020	219.8	S			5.8
PHOENIX AMA	EAST SALT RIVER	A-03-04 33ACB	333340111570101	626627	33° 33' 44.9"	111° 57' 0.5"	1328	12/11/2019	348	V			12/8/2020	319.7	V			28.3
PHOENIX AMA	EAST SALT RIVER	A-03-05 25CAB	333427111475701	600650	33° 34' 26.1"	111° 47' 53.8"	1552	12/12/2019	407	V			12/14/2020	405.9	V			1.1
PHOENIX AMA	EAST SALT RIVER	A-03-04 02DAA	333755111542601	626829	33° 37' 54.2"	111° 54' 27.3"	1501	12/3/2019	351.9	V			12/9/2020	344.8	V			7.1
PHOENIX AMA	EAST SALT RIVER	A-03-05 21BBA	333546111511201	800809	33° 35' 45.1"	111° 51' 9.4"	1432	12/3/2019	265.9	V			12/14/2020	258.8	V			7.1
PHOENIX AMA	EAST SALT RIVER	D-01-08 36CCC	331735111293601	226297	33° 17' 34.65"	111° 29' 35.86"	1615.18	2/24/2020	438.5	V			2/22/2021	439.4	V			-0.9
PHOENIX AMA	EAST SALT RIVER	A-03-04 11CBA	333705111552201	626838	33° 37' 5.2"	111° 55' 21.24"	1449.03	2/4/2020	267.14	VT			2/18/2021	267.2	VT		TAKEN AT 12:28 WITH BLUE 500	-0.1
PHOENIX AMA	EAST SALT RIVER	A-04-04 13AAB1	334150111533901	626834	33° 41' 48.59"	111° 53' 39.74"	1945.08	2/4/2020	805.69	VT			2/18/2021	798.47	VT		TAKEN AT 13:43 WITH BLUE 1500	7.2
PHOENIX AMA	EAST SALT RIVER	A-05-04 17BCD1	334646111583301	600030	33° 46' 42.69"	111° 58' 29.82"	1955.72	12/5/2019	807	V			12/10/2020	806.7	V			0.3
PHOENIX AMA	EAST SALT RIVER	A-05-04 33DAA	334359111563401	600117	33° 43' 58.54"	111° 56' 34.51"	1976.25	2/4/2020	844.31	VT			2/18/2021	842.02	VT		TAKEN AT 14:56 WITH BLUE 1500	2.3
PHOENIX AMA	EAST SALT RIVER	A-05-04 05DCB	334804111580601	800785	33° 48' 4.7"	111° 58' 6.4"	1995	12/4/2019	818.8	V			12/18/2020	821.9	V			-3.1
PHOENIX AMA	EAST SALT RIVER	A-06-03 05ADA	335350112035301	623536	33° 53' 50.4"	112° 3' 52.8"	2118	12/5/2019	160.6	V			12/1/2020	162.4	V			-1.8
PHOENIX AMA	EAST SALT RIVER	A-01-07 33CCC	332247111385601	505767	33° 22' 46.2"	111° 38' 56.1"	1420	12/5/2019	337.9	V			12/8/2020	335.9	V			2.0
PHOENIX AMA	EAST SALT RIVER	D-01-06 11CDD2	332102111424501	620513	33° 21' 2"	111° 42' 44.5"	1295	12/10/2019	389.2	V			12/9/2020	195	V			-5.8
PHOENIX AMA	EAST SALT RIVER	A-06-03 16BBB	335216112034601	506979	33° 52' 17"	112° 3' 45.7"	2010	12/5/2019	287.3	V			12/14/2020	273.7	V			13.6
PHOENIX AMA	EAST SALT RIVER	D-01-07 06CCA	332204111410001	575993	33° 22' 4.4"	111° 41' 0.1"	1345	12/5/2019	258.3	V			12/8/2020	265.7	V			-7.4
PHOENIX AMA	EAST SALT RIVER	A-01-04 15ABC	332604111560101	533702	33° 26' 4"	111° 56' 0.6"	1160	4/9/2020	25.1	S			7/30/2021	31.4	S			-6.3
PHOENIX AMA	EAST SALT RIVER	A-04-03 N01BBA	334134112003801	590617	33° 43' 34.1"	112° 0' 38.4"	1672	12/4/2019	536.2	V			12/10/2020	531.6	V			4.6
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 30BAD	333447111402901		33° 34' 46.9"	111° 40' 28.7"	1365	12/2/2019	13	S			12/7/2020	14.7	S			-1.7
PHOENIX AMA	FOUNTAIN HILLS	A-03-06 23DCB2	333505111422101	604787	33° 35' 7.9"	111° 42' 27.3"	1516	12/13/2019	181.2	V			12/16/2020	190.5	V			-9.3
PHOENIX AMA	FOUNTAIN HILLS	A-02-07 02BAA	333309111362501	600880	33° 33' 10"	111° 36' 24.6"	1365	12/4/2019	62.1	S			12/9/2020	63.3	S			-1.2
PHOENIX AMA	FOUNTAIN HILLS	A-03-07 06CDA	333746111403101		33° 37' 44.7"	111° 40' 33.4"	1415	12/2/2019	30.9	S			12/7/2020	31.5	S			-0.6
PHOENIX AMA	FOUNTAIN HILLS	A-05-06 27ADD	334500111430501	508186	33° 45' 1.4"	111° 43' 4.1"	1960	12/2/2019	186.6	S			12/15/2020	181	S			5.6
PHOENIX AMA	FOUNTAIN HILLS	A-05-06 21CBD2	334538111445301	546482	33° 45' 38.9"	111° 44' 52.9"	2235	12/10/2019	351.1	V			12/15/2020	348	V			3.1
PHOENIX AMA	HASSAYAMPA	C-02-05 08ABA	331637112470901	604278	33° 16' 39.7"	112° 47' 4.1"	773	12/18/2019	78.2	V			11/30/2020	86.6	V			-8.4
PHOENIX AMA	HASSAYAMPA	C-02-05 16DAA	331518112454801	805914	33° 15' 17.4"	112° 45' 49.6"	762	12/19/2019	53.2	V			11/30/2020	58.5	V			-5.3
PHOENIX AMA	HASSAYAMPA	C-01-07 24ABA	331955112553301	628648	33° 20' 0.9"	112° 55' 22.2"	902	12/18/2019	249.3	V			11/30/2020	250.4	V			-1.1
PHOENIX AMA	HASSAYAMPA	C-01-06 19ABB	332000112543801	629644	33° 20' 0.5"	112° 54' 35.9"	890	12/18/2019	232	V			11/30/2020	233.2	V			-1.2
PHOENIX AMA	HASSAYAMPA	C-01-05 17DDA	332015112465001	802217	33° 20' 14.1"	112° 46' 48.8"	834	12/18/2019	46.2	V			11/30/2020	47	V			-0.8
PHOENIX AMA	HASSAYAMPA	C-01-05 34DAB	331749112445701	513045	33° 17' 47.1"	112° 44' 51.9"	778	12/19/2019	63	V			11/30/2020	72.3	V			-9.3
PHOENIX AMA	HASSAYAMPA	C-01-05 28AAB	331907112455901	605129	33° 19' 8.1"	112° 46' 1.1"	787	12/18/2019	74	V			11/30/2020	98.8	V			-24.8
PHOENIX AMA	HASSAYAMPA	C-01-06 29ABB	331908112533201	620365	33° 19' 8.6"	112° 53' 33.1"	869	12/18/2019	206.5	V			11/30/2020	212.3	V			-5.8
PHOENIX AMA	HASSAYAMPA	C-01-06 30AAA	331908112540601	629647	33° 19' 8.5"	112° 54' 6"	865	12/18/2019	210.3	V			11/30/2020	217.3	V			-7.0
PHOENIX AMA	HASSAYAMPA	C-01-07 14BBB	332053112570801	604464	33° 20' 53.2"	112° 57' 9.8"	938	12/18/2019	267.6	V			11/30/2020	270.7	V			-3.1
PHOENIX AMA	HASSAYAMPA	C-01-06 14AAA	332054112494901	608004	33° 20' 53.5"	112° 50' 0.1"	903	12/17/2019	241.8	V			11/30/2020	245.4	V			-3.6
PHOENIX AMA	HASSAYAMPA	C-01-05 03BAA1	332236112452001		33° 22' 38.3"	112° 45' 19.9"	928	12/17/2019	96.5	V			11/30/2020	97.7	V			-1.2
PHOENIX AMA	HASSAYAMPA	B-01-05 27BBC	332416112454301	639586	33° 24' 16"	112° 45' 44.2"	978	12/11/2019	75.1	V			12/2/2020	77	V			-1.9
PHOENIX AMA	HASSAYAMPA	B-01-06 23DCD	332427112501301	808647	33° 24' 26.1"	112° 50' 14.8"	987	12/10/2019	152.1	V			12/1/2020	150	V			2.1
PHOENIX AMA	HASSAYAMPA	B-01-05 08DAB	332634112470001	800303	33° 26' 33.6"	112° 46' 59.3"	1055	12/10/2019	97.1	V			11/30/2020	98.1	V			-1.0
PHOENIX AMA	HASSAYAMPA	B-01-05 10BBC	332648112454301	614389	33° 26' 47.68"	112° 45' 45.08"	1010.81	2/7/2020	48.11	VT			2/9/2021	48.25	VT		BLUE 500 14:20	-0.1
PHOENIX AMA	HASSAYAMPA	B-01-06 11BCA	332648112504401	629598	33° 26' 46.7"	112° 50' 43.9"	1041	12/10/2019	93.6	V			12/1/2020	93.5	V			0.1
PHOENIX AMA	HASSAYAMPA	B-01-04 08AAA	332654112403801	802331	33° 26' 53.9"	112° 40' 38"	1091	12/9/2019	223.4	V			12/2/2020	224.8	V			-1.4
PHOENIX AMA	HASSAYAMPA	B-01-05 15CBC2	332541112454501	636568	33° 25' 35"	112° 45' 44.4"	980	12/10/2019	47.5	V			12/1/2020	47.9	S			-0.4
PHOENIX AMA	HASSAYAMPA	B-01-06 01ABB	332752112492301	803547	33° 27' 52"	112° 49' 24.9"	1083	12/9/2019	118.6	V			12/1/2020	119.2	V			-0.6
PHOENIX AMA	HASSAYAMPA	B-02-06 33CAA	332817112523401	617446	33° 28' 17.9"	112° 52' 32.7"	1075	12/9/2019	78.7	V			12/1/2020	75	V			3.7
PHOENIX AMA	HASSAYAMPA	B-01-06 03BBC	332740112515801	800798	33° 27' 44.3"	112° 51' 54.4"	1069	12/9/2019	95.7	V			12/1/2020	95.3	V			0.4
PHOENIX AMA	HASSAYAMPA	B-01-04 05AAA	332745112404501	802329	33° 27' 46.04"	112° 40' 43.55"	1138.63	2/7/2020	233.2	VT			2/9/2021	234.31	VT		BLUE 500 15:00	-1.1
PHOENIX AMA	HASSAYAMPA	B-02-07 20CDD	332939112594901	600209	33° 29' 38.2"	112° 59' 49.9"	1189	12/11/2019	181.7	V			12/1/2020	185.8	V			-4.1
PHOENIX AMA	HASSAYAMPA	B-02-06 24BDD	333006112492701	639855	33° 30' 5.6"	112° 49' 25.6"	1156	12/11/2019	184.9	V			12/2/2020	185	V			-0.1
PHOENIX AMA	HASSAYAMPA	B-02-05 29DAC	332858112470701	804481	33° 28' 58.3"	112° 47' 6.6"	1125	12/10/2019	146.1	V			12/1/2020	146	V			0.1
PHOENIX AMA	HASSAYAMPA	B-02-05 25BAB	332924112433301	588466	33° 29' 33.4"	112° 43' 25.3"	1149	12/10/2019	152.6	V			12/9/2020	152.4	V			0.2
PHOENIX AMA	HASSAYAMPA	B-02-07 27AAB	332934112572801	600199	33° 29' 34.5"	112° 57' 27.7"	1146	12/9/2019	160.2	V			12/1/2020	163.9	V			-3.7
PHOENIX AMA	HASSAYAMPA	B-02-07 12CBB	333146112560801	802455	33° 31' 45.6"	112° 56' 8.8"	1194	12/11/2019	190.4	V			12/1/2020	184.1	V			6.3
PHOENIX AMA	HASSAYAMPA	B-02-05 06DDD	333216112475201	524267	33° 32' 16.4"	112° 47' 57"	1232	12/11/2019	251.7	V			12/2/2020	250.1	V			1.6
PHOENIX AMA	HASSAYAMPA	B-02-07 22BBB	333027112581201	802146	33° 30' 28.7"	112° 58' 14.3"	1194	12/9/2019	190.9	V			12/1/2020	189.4	V			1.5
PHOENIX AMA	HASSAYAMPA	B-02-04 07CCC2	333122112424101	517029	33° 31' 22.4"	112° 42' 41.4"	1233	12/10/2019	206.9	V			12/9/2020	207	V			-0.1
PHOENIX AMA	HASSAYAMPA	B-03-05 26ADD	333430112435001	638915	33° 34' 30.8"	112° 43' 46.3"	1237	12/11/2019	75.9	V			12/9/2020	76.6	V			-0.7
PHOENIX AMA	HASSAYAMPA	B-03-06 30BAD	333442112544001	636337	33° 34' 42.6"	112° 54' 41.1"	1322	12/11/2019	361.3	V			12/2/2020	360.2	V			1.1
PHOENIX AMA	HASSAYAMPA	B-02-08 01AAC	333252113013801	501700	33° 32' 55.5"	113° 1' 36.2"	1380	12/9/2019	364.3	V			12/1/2020	365.4	V			-1.1
PHOENIX AMA	HASSAYAMPA	B-03-06 35AAA	333353112500201	524266	33° 33' 55.9"	112° 49' 59.2"	1288	12/11/2019	336.5	V			12/2/2020	335.2	V			1.3
PHOENIX AMA	HASSAYAMPA	B-03-04 07BBB	333724112423601	517028	33° 37' 23.6"	112° 42' 36.9"	1402	12/12/2019	183.1	V			12/9/2020	183.9	V			-0.8
PHOENIX AMA	HASSAYAMPA	B-04-04 19BAC	334052112421901	800517	33° 40' 49.3"	112° 42' 21.4"	1415	12/12/2019	170.3	V			12/9/2020	170.8	V			-0.5
PHOENIX AMA	HASSAYAMPA	B-04-05 22AAA	334056112445001	516565	33° 40' 55.9"	112° 44' 47.7"	1530	12/12/2019	282.4	V			12/9/2020	282.7	V			-0.3
PHOENIX AMA	HASSAYAMPA	B-04-04 13CBD	334112112371601		33° 41' 10.4"	112° 37' 15"	1570	12/16/2019	335.7	V			12/10/2020	336.4	V			-0.7
PHOENIX AMA	HASSAYAMPA	B-05-06 25BDC	334452112502801	609851	33° 44' 49.2"	112° 50' 25.9"	1726	12/16/2019	460.8	V			12/10/2020	460.3	V			0.5
PHOENIX AMA	HASSAYAMPA	B-05-04 24CCC	334513112380501	801046	33° 45' 12.4"	112° 38' 6"	1718	12/16/2019	437.2	V			12/10/2020	438.2	V			-1.0
PHOENIX AMA	HASSAYAMPA	B-05-04 20CCC	334514112422001	504783	33° 45' 14.4"	112° 42' 21.7"	1700	12/16/2019	412	V			12/10/2020	413	V			-1.0
PHOENIX AMA	HASSAYAMPA	B-05-05 13AAA	334654112433001	510003	33° 46' 54.4"	112° 43' 31.8"	1795	12/16/2019	507	V			12/10/2020	507.9	V			-0.9
PHOENIX AMA	HASSAYAMPA	B-04-05 07CBB	334212112485101	516564	33° 42' 10.7"	112° 48' 53"	1581	12/17/2019	349.5	V			12/9/2020	349.1	V			0.4
PHOENIX AMA	HASSAYAMPA	B-04-06 04DBA	334259112522001	505244	33° 43' 1.2"	112° 52' 20.8"	1700	12/17/2019	463.4	V			12/10/2020	462.9	V			0.5
PHOENIX AMA	HASSAYAMPA	B-04-05 01CBA	334306112433801	516563	33° 43' 7.01"	112° 43' 36.67"	1600.64	2/10/2020	336.24	VT			2/11/2021	337.05	VT		RED 500 12:30	-0.8
PHOENIX AMA	HASSAYAMPA	B-04-05 05ABB	334325112472001	802175	33° 43' 25.5"	112° 47' 19.8"	1617	12/12/2019	373.4	V			12/9/2020	373.2	V			0.2
PHOENIX AMA	HASSAYAMPA	B-05-06 10CDD	334703112521901	629322	33° 47' 1.9"	112° 52' 19"	1916	12/16/2019	654.6	V			12/10/2020	654.3	V			0.3
PHOENIX AMA	HASSAYAMPA	B-06-04 23BBA	335113112390301	633262	33° 51' 12.2"	112° 39' 2.1"	1835	12/5/2019	157.3	V			12/8/2020	131.8	V			25.5
PHOENIX AMA	HASSAYAMPA	B-06-04 13DCA	335120112372901	632601	33° 51' 24.2"	112° 37' 31.5"	1980	12/6/2019	474	V	R		12/9/2020	468	V	R	RECOVERING FOR 30 MINUTES BEFORE MSMT	6.0
PHOENIX AMA	HASSAYAMPA	B-06-08 20ADC	335124113063701	614493	33° 50' 54.1"	113° 6' 37.3"	2199	10/28/2019	258.4	V			10/26/2020	258.3	V			0.1
PHOENIX AMA	HASSAYAMPA	B-06-04 11BBB	335303112391601	800585	33° 53' 0.9"	112° 39' 15.7"	1970	12/5/2019	185.7	V			12/9/2020	189.8	V			-4.1
PHOENIX AMA	HASSAYAMPA	B-05-05 09DAC	334713112464901	537998	33° 47' 13.6"	112° 46' 48.7"	1841	12/16/2019	530.1	V			12/10/2020	529.7	V			0.4
PHOENIX AMA	HASSAYAMPA	C-01-06 12AAD	332137112490001	598717	33° 21' 37.5"	112° 49' 0"	905	12/17/2019	90.6	V			11/30/2020	93	V			-2.4
PHOENIX AMA	LAKE PLEASANT	A-06-02 29DAD	334953112101001	800512	33° 49' 53"	112° 10' 15.69"	1713	12/10/2019	265.5	V			12/9/2020	211.1	V			-5.6
PHOENIX AMA	LAKE PLEASANT	A-05-02 10ABA	334750112082001	614028	33° 47' 49.6"	112° 8' 24.1"	1655	12/4/2019	275	V			12/1/2020	276	V			-1.0
PHOENIX AMA	LAKE PLEASANT	A-05-01 10AAB	334750112142901	614032	33° 47' 45.6"	112° 14' 25.5"	1570	12/6/2019	200.2	V			12/1/2020	204.9	V			-4.7
PHOENIX AMA	LAKE PLEASANT	A-05-02 04CAB	334814112094701	623553	33° 48' 13.5"	112° 9' 46.8"	1615	12/4/2019	213.9	V			12/9/2020	213.6	V			0.3
PHOENIX AMA	LAKE PLEASANT	A-07-02 25BCA1	335526112065001	223609	33° 55' 25.3"	112° 6' 49.1"	2070	12/5/2019	44.7	V			12/8/2020	28.9	V			15.8
PHOENIX AMA	LAKE PLEASANT	A-07-02 27ABA	335544112082201	623759	33° 55' 43.7"	112° 8' 21.5"	2062	12/5/2019	10.1	V			12/1/2020	29.9	V			-19.8
PHOENIX AMA	LAKE PLEASANT	A-07-02 24BDA	335623112063601	565329	33° 56' 23.1"	112° 6' 37.3"	2160	12/5/2019	74.9	S			12/1/2020	72.4	S			2.5
PHOENIX AMA	LAKE PLEASANT	A-06-02 16ACC	335155112093301	572510	33° 51' 52.8"	112° 9' 35.6"	1846	12/6/2019	225.8	V			12/9/2020	237.1	V			-11.3
PHOENIX AMA	LAKE PLEASANT	A-06-01 20DDC	335028112163001		33° 50' 28.5"	112° 16' 29.8"	1570	12/6/2019	88.3	V			12/8/2020	89.2	V			-0.9
PHOENIX AMA	RAINBOW VALLEY	D-04-01 28CDD	330239112155201	600522	33° 2' 37.6"	112° 15' 45.6"	1338	12/5/2019	442	V			12/8/2020	442.5	V			-0.5
PHOENIX AMA	RAINBOW VALLEY	C-04-01 32CDD	330147112230201	513868	33° 1' 47"	112° 23' 2.2"	1428	12/11/2019	579.3	V			12/8/2020	579.7	V			-0.4
PHOENIX AMA	RAINBOW VALLEY	D-04-01 14CDD	330423112134401	804031	33° 4' 22.7"	112° 13' 44.3"	1288	12/2/2019	394	V			12/8/2020	394.8	V			-0.8
PHOENIX AMA	RAINBOW VALLEY	C-04-01 23CDB	330338112200201	639910	33° 3' 37.7"	112° 20' 1.8"	1345	12/2/2019	496.6	V			12/8/2020	497.6	V			-1.0
PHOENIX AMA	RAINBOW VALLEY	C-03-01 19DCC	330846112235501	629000	33° 8' 43"	112° 24' 0.9"	1225	12/4/2019	404.4	V			12/7/2020	405.4	V			-1.0
PHOENIX AMA	RAINBOW VALLEY	D-03-01 19AAA	330934112171801	611915	33° 9' 34.6"	112° 17' 17.7"	1293	12/3/2019	451.5	V			12/7/2020	452	V			-0.5
PHOENIX AMA	RAINBOW VALLEY	D-04-01 10DCC	330515112144101		33° 5' 14.7"	112° 14' 41.6"	1275	12/2/2019	416.2	V			12/8/2020	416.9	V			-0.7
PHOENIX AMA	RAINBOW VALLEY	C-02-02 27DCB	331321112265601	616485	33° 13' 16.8"	112° 27' 6"	1108	12/4/2019	400.7	V			12/4/2020	421.4	V			-20.7
PHOENIX AMA	RAINBOW VALLEY	C-02-01 30AAA	331354112233301	610920	33° 13' 55.79"	112° 23' 30.89"	1103	12/4/2019	340.9	V			12/2/2020	345.5	V			-4.6
PHOENIX AMA	RAINBOW VALLEY	C-03-01 07ACC	331057112235801		33° 10' 54"	112° 24' 0.6"	1153	12/3/2019	354.5	V			12/7/2020	355.7	V			-1.2
PHOENIX AMA	RAINBOW VALLEY	D-03-01 07BBB2	331114112181701	615271	33° 11' 15.2"	112° 18' 15.6"	1272.3	12/3/2019	437.5	V			12/7/2020	438.3	V			-0.8
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33CDD	331214112215501	625645	33° 12' 18"	112° 21' 57.7"	1142	12/3/2019	259.4	V			12/7/2020	261.7	V			-2.3
PHOENIX AMA	RAINBOW VALLEY	C-02-01 33AAA	331300112213201	605576	33° 13' 3.2"	112° 21' 26.6"	1169	12/3/2019	375.9	V			12/7/2020	378.1	V			-2.2
PHOENIX AMA	RAINBOW VALLEY	C-02-02 27CCC	331307112273001	803879	33° 13' 4.8"	112° 27' 35.7"	1135	12/4/2019	423.9	V			12/4/2020	439.3	V			-15.4
PHOENIX AMA	RAINBOW VALLEY	C-02-01 20BAD	331435112230201		33° 14' 39.2"	112° 22' 59.7"	1130	12/6/2019	357.9	V			12/2/2020	361.7	V			-3.8
PHOENIX AMA	RAINBOW VALLEY	C-02-02 09CCC	331543112283801	624775	33° 15' 41.6"	112° 28' 39"	1023	12/3/2019	329.9	V			12/2/2020	343	V			-13.1
PHOENIX AMA	WEST SALT RIVER	B-04-02 23CAA	334030112260601	526446	33° 40' 29.68"	112° 26' 5.98"	1348.57	2/10/2020	327.36	VT			2/11/2021	328.5	VT		BLUE 500 11:15	-1.1
PHOENIX AMA	WEST SALT RIVER	C-01-02 19ACD1	331937112292701	611625	33° 19' 37.5"	112° 29' 26.89"	922	12/3/2019	78.9	V			12/2/2020	78.9	V			0.0
PHOENIX AMA	WEST SALT RIVER	D-01-02 16CDD	332002112093601	626598	33° 20' 3"	112° 9' 36.4"	1071	12/2/2019	61.6	V			12/2/2020	61.5	S			0.1
PHOENIX AMA	WEST SALT RIVER	C-01-03 14DAD	332016112311601	618942	33° 20' 16"	112° 31' 15.9"	888	12/3/2019	49.8	S			12/2/2020	49.8	V			0.0
PHOENIX AMA	WEST SALT RIVER	C-01-04 27BDC	331846112391501	628188	33° 18' 44.89"	112° 39' 13.62"	836.3	10/22/2019	42.34	VT			10/14/2020	42.3	VT		TAKEN AT 10:45 WITH BLACK 500	0.0

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PHOENIX AMA	WEST SALT RIVER	C-01-04 26ABB	331906112380001	628186	33° 19' 4.9"	112° 37' 59.8"	823	12/5/2019	26.5	S			12/2/2020	27	V			-0.5
PHOENIX AMA	WEST SALT RIVER	C-01-03 02DAD	332203112311801	619811	33° 22' 3.9"	112° 31' 14.9"	862	12/2/2019	20.7	V			12/7/2020	21.2	V			-0.5
PHOENIX AMA	WEST SALT RIVER	C-01-02 06ADD	332218112291001	619807	33° 22' 18.2"	112° 29' 9.2"	876	12/2/2019	33.1	V			12/7/2020	33	V			0.1
PHOENIX AMA	WEST SALT RIVER	C-01-03 06BCB	332223112362201	619815	33° 22' 20.4"	112° 36' 25.6"	879	12/2/2019	45.3	V			12/7/2020	45.1	V			0.2
PHOENIX AMA	WEST SALT RIVER	C-01-04 18AAA	332051112414001	619827	33° 20' 53.9"	112° 41' 36.8"	848	12/2/2019	27.5	V			12/7/2020	25.6	V			1.9
PHOENIX AMA	WEST SALT RIVER	C-01-03 08CBD	332113112351301		33° 21' 8.73"	112° 35' 11.37"	839.66	12/5/2019	17.6	S			12/2/2020	17.7	S			-0.1
PHOENIX AMA	WEST SALT RIVER	D-01-02 07ADD	332121112110901	626355	33° 21' 20.5"	112° 11' 8.8"	1020	12/2/2019	32.5	V			12/2/2020	35.1	S			-2.6
PHOENIX AMA	WEST SALT RIVER	D-01-02 02DCC1	332147112073001	638505	33° 21' 47.6"	112° 7' 29.9"	1100	12/2/2019	97.4	V			12/2/2020	96.8	V			0.6
PHOENIX AMA	WEST SALT RIVER	B-01-03 34BBB1	332330112331901	607172	33° 23' 30.5"	112° 33' 19.6"	917	12/5/2019	73.4	V			12/8/2020	70.2	V			3.2
PHOENIX AMA	WEST SALT RIVER	B-01-01 29DDA2	332342112223201	619782	33° 23' 39.7"	112° 22' 29.29"	916.24	12/2/2019	28.7	V			12/7/2020	32	V			-3.3
PHOENIX AMA	WEST SALT RIVER	B-01-02 28CBD	332348112283201	619794	33° 23' 49.8"	112° 28' 32"	890	12/2/2019	45.1	V			12/7/2020	43.5	S			1.6
PHOENIX AMA	WEST SALT RIVER	B-01-01 27DAB2	332356112203301	801734	33° 23' 55.9"	112° 20' 33.9"	930	12/6/2019	31.4	S			11/30/2020	36.8	V			-5.4
PHOENIX AMA	WEST SALT RIVER	C-01-04 06BBA	332361112422901	607189	33° 22' 38.64"	112° 42' 24.97"	919.17	2/7/2020	75.31	VT			2/9/2021	72.24	VT		BLUE 500 13:45	3.1
PHOENIX AMA	WEST SALT RIVER	C-01-04 03ABB	332238112385901		33° 22' 38.79"	112° 38' 59.7"	900	12/5/2019	62.6	V			12/2/2020	61.3	V			1.3
PHOENIX AMA	WEST SALT RIVER	A-01-02 35DDD	332243112065801	604323	33° 22' 41.9"	112° 6' 57.59"	1084	12/2/2019	114.2	V			12/2/2020	116	V			-1.8
PHOENIX AMA	WEST SALT RIVER	A-01-02 33CBD	332254112095001	502420	33° 22' 54.09"	112° 9' 51.4"	1008	12/2/2019	50.1	V			12/2/2020	53	S			-2.9
PHOENIX AMA	WEST SALT RIVER	B-01-04 31BCD	332302112423001	607190	33° 23' 5.3"	112° 42' 25"	928	12/5/2019	77	V			12/8/2020	76.8	V			0.2
PHOENIX AMA	WEST SALT RIVER	A-01-03 33ADB	332316112025201	626563	33° 23' 17.79"	112° 2' 56.79"	1138	11/18/2019	143.7	V			11/9/2020	142.1	V			1.6
PHOENIX AMA	WEST SALT RIVER	B-01-03 21DBB	332452112335001	605474	33° 24' 49.59"	112° 33' 50.55"	993.68	2/7/2020	154.18	VT			2/9/2021	153.6	VT		BLUE 500 12:30	0.6
PHOENIX AMA	WEST SALT RIVER	A-01-03 21ACC	332455112031801	626523	33° 24' 56.03"	112° 3' 17.91"	1081	12/13/2019	91.4	S			12/2/2020	97.2	S			-5.8
PHOENIX AMA	WEST SALT RIVER	B-01-02 23AAB1	332515112254401	605111	33° 25' 15.18"	112° 25' 45.06"	943.51	12/3/2019	87	S			12/1/2020	85.1	V			1.9
PHOENIX AMA	WEST SALT RIVER	A-01-01 24AAA	332516112121901	608368	33° 25' 16"	112° 12' 18.79"	1021	11/18/2019	93.9	V			11/9/2020	91.9	V			2.0
PHOENIX AMA	WEST SALT RIVER	B-01-04 27ABB	332416112390101	604631	33° 24' 17"	112° 39' 1.5"	988	12/5/2019	131.3	V			12/1/2020	133.9	V			-2.6
PHOENIX AMA	WEST SALT RIVER	A-01-01 21DDA5	332436112151801	607464	33° 24' 35.9"	112° 15' 17.4"	993	12/2/2019	61.8	V			11/30/2020	61.5	V			0.3
PHOENIX AMA	WEST SALT RIVER	A-01-01 23DDA	332442112131601	608371	33° 24' 42.7"	112° 13' 15.1"	996	11/18/2019	64.8	V			11/9/2020	61	V			3.8
PHOENIX AMA	WEST SALT RIVER	B-01-03 19CBB	332445112362501	607153	33° 24' 46.2"	112° 36' 25.7"	995	12/5/2019	138.1	V			12/8/2020	136.1	V			2.0
PHOENIX AMA	WEST SALT RIVER	A-01-01 10CCC2	332613112151401	608436	33° 26' 9.86"	112° 15' 14.71"	1001.36	11/18/2019	82.3	V			11/9/2020	82.8	V			-0.5
PHOENIX AMA	WEST SALT RIVER	B-01-01 07CAA2	332633112240801	607164	33° 26' 33.8"	112° 24' 7.4"	983	12/5/2019	115.9	V			12/8/2020	119.6	V			-3.7
PHOENIX AMA	WEST SALT RIVER	A-01-03 14CCC	332521112014401	522890	33° 25' 21.6"	112° 1' 43.57"	1102	12/2/2019	95.8	V			12/2/2020	94	V			1.8
PHOENIX AMA	WEST SALT RIVER	A-01-04 18DAD	332532111584001	700244	33° 25' 32.12"	111° 58' 39.99"	1130.44	12/3/2019	35.7	V			12/7/2020	34.3	V			1.4
PHOENIX AMA	WEST SALT RIVER	B-01-03 14DBB	332542112314201	618447	33° 25' 41.9"	112° 31' 42.1"	1024	12/5/2019	204.9	V			12/1/2020	212.4	V			-7.5
PHOENIX AMA	WEST SALT RIVER	A-01-03 18BBC	332600112054801	607207	33° 25' 59.4"	112° 5' 51.7"	1058	12/5/2019	102.1	V			12/8/2020	109.5	V			-7.4
PHOENIX AMA	WEST SALT RIVER	B-01-02 16BBB	332607112284001	625579	33° 26' 7.58"	112° 28' 40.22"	988.37	12/4/2019	138.7	V			12/1/2020	146.5	V			-7.8
PHOENIX AMA	WEST SALT RIVER	A-01-01 07CCD	332609112181501	600101	33° 26' 9.5"	112° 18' 13.9"	987	12/2/2019	78.4	V			11/30/2020	78.7	V			-0.3
PHOENIX AMA	WEST SALT RIVER	A-02-01 36DAD	332816112121401	608384	33° 28' 16.1"	112° 12' 9.8"	1062	11/18/2019	160.9	V			11/12/2020	157.6	V			3.3
PHOENIX AMA	WEST SALT RIVER	A-02-01 31DAA	332816112172301	619314	33° 28' 18.15"	112° 17' 22.15"	1018	11/14/2019	130.7	V			11/12/2020	125	V			5.7
PHOENIX AMA	WEST SALT RIVER	B-01-01 10AAA2	332658112202701	607158	33° 26' 58.8"	112° 20' 26.15"	982.22	12/5/2019	89.3	V			12/8/2020	92.3	V			-3.0
PHOENIX AMA	WEST SALT RIVER	A-01-02 09AAB2	332702112091601	607201	33° 27' 4.13"	112° 9' 14.72"	1060.3	12/5/2019	145.5	V			12/8/2020	145.9	V			-0.4
PHOENIX AMA	WEST SALT RIVER	A-01-01 12BBB	332703112131001	607206	33° 27' 5.3"	112° 13' 12.9"	1033.61	12/5/2019	126.5	V			12/8/2020	126.2	V			0.3
PHOENIX AMA	WEST SALT RIVER	A-01-01 06CBB1	332724112181901	608428	33° 27' 24"	112° 18' 20.2"	995	11/14/2019	96	V			11/9/2020	92.7	V			3.3
PHOENIX AMA	WEST SALT RIVER	B-01-02 05CBB	332725112294301	804205	33° 27' 26.3"	112° 29' 41.2"	1065	12/4/2019	213.6	V			12/1/2020	214.8	V			-1.2
PHOENIX AMA	WEST SALT RIVER	A-02-02 28ABB2	332938112093401	626576	33° 29' 37.25"	112° 9' 33.61"	1113.02	10/29/2019	186.96	VT		TAKEN AT 11:55 WITH BLACK 500	10/23/2020	181.99	VT		TAKEN WITH BLUE 500 AT 10:00	5.0
PHOENIX AMA	WEST SALT RIVER	B-02-01 20BCC	333006112323601	611717	33° 30' 3.5"	112° 23' 29.3"	1042	12/5/2019	202.9	V			12/4/2020	203	V			-0.1
PHOENIX AMA	WEST SALT RIVER	A-02-02 31AAD	332836112111001	607727	33° 28' 36.51"	112° 11' 9.05"	1079.27	11/18/2019	171.2	V			11/12/2020	168.4	V			2.8
PHOENIX AMA	WEST SALT RIVER	A-02-03 35BBC	332840112014301	607726	33° 28' 37.57"	112° 1' 44.67"	1132	11/15/2019	89.2	V			11/13/2020	88.7	V			0.5
PHOENIX AMA	WEST SALT RIVER	B-02-01 36BBA3	332843112191601	608792	33° 28' 42.4"	112° 19' 12.7"	997	12/3/2019	130.1	V			12/3/2020	135.2	V			-5.1
PHOENIX AMA	WEST SALT RIVER	A-02-02 27DCB1	332903112083101	626552	33° 29' 1.35"	112° 8' 30.16"	1100.19	2/6/2020	171.7	VT			2/10/2021	158.16	VT		BLUE 500 09:15	13.5
PHOENIX AMA	WEST SALT RIVER	A-02-04 29DAB	332913111575301	633954	33° 29' 13.3"	111° 57' 51.7"	1241	12/5/2019	25.1	V			12/7/2020	26.9	V			-1.8
PHOENIX AMA	WEST SALT RIVER	A-02-02 26BDC	332919112073901	608377	33° 29' 19.45"	112° 7' 39.04"	1111.17	11/14/2019	167	V			11/12/2020	167.1	V			-0.1
PHOENIX AMA	WEST SALT RIVER	A-02-01 28AAA1	332936112152101	608358	33° 29' 36.5"	112° 15' 16.7"	1046	11/14/2019	155.5	V			11/12/2020	149	V			6.5
PHOENIX AMA	WEST SALT RIVER	A-02-03 09CDA	333135112032501		33° 31' 37.96"	112° 3' 20.55"	1181.75	2/4/2020	132.17	VT			2/10/2021	130.63	VT		TAKEN AT 09:50 WITH BLUE 500	1.5
PHOENIX AMA	WEST SALT RIVER	B-02-01 07CAD	333135112240201		33° 31' 35.04"	112° 24' 2.17"	1079.45	2/10/2020	231.33	VT			2/11/2021	228.37	VT		BLUE 500 09:45	3.0
PHOENIX AMA	WEST SALT RIVER	A-02-04 08BDD	333158111581201	638750	33° 31' 57.4"	111° 58' 11.1"	1346	12/3/2019	237.6	V			12/8/2020	239.8	V			-2.2
PHOENIX AMA	WEST SALT RIVER	B-02-02 04DCB	333223112280901	612958	33° 32' 26.1"	112° 28' 8.9"	1204	12/6/2019	338.2	V			12/9/2020	338.2	V			0.0
PHOENIX AMA	WEST SALT RIVER	A-02-01 04CBB2	333238112161601	607248	33° 32' 39"	112° 16' 17.5"	1076	12/5/2019	153.7	V			12/8/2020	151.9	V			1.8
PHOENIX AMA	WEST SALT RIVER	A-02-03 14DCD	333036112010401	643681	33° 30' 36.2"	112° 1' 3.6"	1196	12/2/2019	83.2	V			12/9/2020	82.7	S			0.5
PHOENIX AMA	WEST SALT RIVER	A-02-02 18DDD	333036112111001	607674	33° 30' 36.1"	112° 11' 9.22"	1120.55	11/14/2019	199.8	V			11/12/2020	196.8	V			3.0
PHOENIX AMA	WEST SALT RIVER	B-05-03 22ADD	333038112330101	087570	33° 45' 42.4"	112° 33' 6.59"	1652	12/5/2019	424.1	V			12/8/2020	424.1	V			0.0
PHOENIX AMA	WEST SALT RIVER	B-02-01 14CBB	333052112202401		33° 30' 52.5"	112° 20' 24.1"	1057	12/4/2019	199	V			12/1/2020	197.9	V			1.1
PHOENIX AMA	WEST SALT RIVER	A-03-02 25BDA	333434112063201	626600	33° 34' 36.62"	112° 6' 30.07"	1240.05	2/4/2020	233.8	VT			2/10/2021	234.47	VT		TAKEN AT 10:19 WITH BLUE 500	-0.7
PHOENIX AMA	WEST SALT RIVER	A-03-02 24CCB	333505112065401	624791	33° 35' 2.29"	112° 6' 55.9"	1257	12/3/2019	275.5	V			11/30/2020	273.4	V			2.1
PHOENIX AMA	WEST SALT RIVER	A-03-01 24CBB	333517112130701	608413	33° 35' 18.5"	112° 13' 9.6"	1163	11/14/2019	269.6	V		FAINT SIGNAL	11/13/2020	261.6	V			8.0
PHOENIX AMA	WEST SALT RIVER	B-03-01 24BBB2	333539112192401	629935	33° 35' 38.6"	112° 19' 24.7"	1118	1/9/2020	308.6	V			12/16/2020	330.8	V			-22.2
PHOENIX AMA	WEST SALT RIVER	B-03-01 23BBB1	333540112202701		33° 35' 38.2"	112° 20' 26.79"	1134	12/11/2019	236.6	V			12/7/2020	231.7	V			4.9
PHOENIX AMA	WEST SALT RIVER	B-02-01 06ABB2	333304112240401	620810	33° 33' 3.62"	112° 24' 4.39"	1113.56	2/10/2020	261.28	VT			2/11/2021	261.84	VT		BLUE 500 10:15	-0.6
PHOENIX AMA	WEST SALT RIVER	B-03-01 34DBB1	333330112205801		33° 33' 29.89"	112° 20' 57.4"	1100	12/11/2019	209.9	V			12/7/2020	208.4	V			1.5
PHOENIX AMA	WEST SALT RIVER	A-03-02 34ADA	333347112080401	626566	33° 33' 49.61"	112° 8' 4.49"	1214.45	10/24/2019	211.42	VT		TAKEN AT 9:46 WITH BLACK 500	2/10/2021	210.92	VT		BLUE 500 10:00	0.5
PHOENIX AMA	WEST SALT RIVER	B-03-01 32BAA	333357112230401	610105	33° 33' 56.6"	112° 23' 3.8"	1135	12/11/2019	272.4	V			12/7/2020	288.7	V			-16.3
PHOENIX AMA	WEST SALT RIVER	A-03-01 35ABB	333358112134201	607737	33° 33' 59.2"	112° 13' 41.7"	1128	11/14/2019	222.4	V			11/13/2020	211.4	V			11.0
PHOENIX AMA	WEST SALT RIVER	A-03-02 06DAA	333756112110201	604120	33° 37' 55.72"	112° 11' 6.62"	1242.19	10/24/2019	340.84	VT			10/20/2020	338.08	VT		TAKEN WITH BLUE 500 AT 12:50	2.8
PHOENIX AMA	WEST SALT RIVER	B-03-01 05ABB	333818112230401	623681	33° 38' 18.3"	112° 23' 2.8"	1238	12/10/2019	364.6	V			12/7/2020	363.4	V			1.2
PHOENIX AMA	WEST SALT RIVER	A-04-01 34BDD2	333844112144501	622789	33° 38' 45.27"	112° 14' 45.33"	1214.22	10/24/2019	374.24	VT		TAKEN AT 11:20 WITH BLACK 500	10/20/2020	376.25	VT		TAKEN WITH BLUE 500 AT 12:28	-2.0
PHOENIX AMA	WEST SALT RIVER	B-03-02 21ABA	333544112280101	612994	33° 35' 41.7"	112° 28' 1.5"	1332	12/6/2019	392.4	V			12/9/2020	393.3	V			-0.9
PHOENIX AMA	WEST SALT RIVER	A-03-02 24BAB2	333546112064001	626585	33° 35' 45.61"	112° 6' 38.08"	1274.79	2/4/2020	309.47	VT			2/10/2021	308.02	VT		TAKEN AT 10:36 WITH BLUE 500	1.5
PHOENIX AMA	WEST SALT RIVER	A-03-02 22BAA	333546112083201	617992	33° 35' 46"	112° 8' 31.4"	1249	12/3/2019	290.5	V			11/30/2020	288.9	V			1.6
PHOENIX AMA	WEST SALT RIVER	B-03-02 18ADD	333611112294501	503408	33° 36' 11.4"	112° 29' 48.6"	1470	12/6/2019	568.5	V			12/7/2020	568.4	V			0.1
PHOENIX AMA	WEST SALT RIVER	B-03-02 15AAA	333633112263801	612992	33° 36' 34.1"	112° 26' 37.2"	1287	12/6/2019	398.7	V			12/9/2020	398.4	V			0.3
PHOENIX AMA	WEST SALT RIVER	A-03-02 09DBB	333703112091801	626611	33° 37' 1.4"	112° 9' 31.49"	1254.91	10/24/2019	317.83	VT		TAKEN AT 10:20 WITH BLACK 500	10/20/2020	314.28	VT		TAKEN WITH BLUE 500 AT 13:11	3.6
PHOENIX AMA	WEST SALT RIVER	A-03-02 08BBA2	333730112110201	618731	33° 37' 27.1"	112° 10' 52.8"	1236	12/3/2019	323.8	V			12/2/2020	327.4	V			-3.6
PHOENIX AMA	WEST SALT RIVER	A-04-01 22AAA	334052112141401	804522	33° 40' 52.7"	112° 14' 14.39"	1280.59	12/3/2019	436.1	V			12/1/2020	432	V			4.1
PHOENIX AMA	WEST SALT RIVER	A-04-01 14DAD	334109112131201	616944	33° 41' 10"	112° 13' 12.2"	1291	12/4/2019	434.8	V			12/1/2020	441.8	V			-7.0
PHOENIX AMA	WEST SALT RIVER	A-04-01 14CBB	334119112140901	617657	33° 41' 19.65"	112° 14' 10.29"	1294.57	10/24/2019	448.63	VT		TAKEN AT 11:45 WITH BLACK 500	10/20/2020	444.81	VT		TAKEN WITH BLUE 500 AT 11:55	3.8
PHOENIX AMA	WEST SALT RIVER	B-04-02 16AAD	334136112273901	614444	33° 41' 35.1"	112° 27' 38"	1413	12/6/2019	333.2	V			12/15/2020	332.1	V			1.1
PHOENIX AMA	WEST SALT RIVER	B-04-02 07DDD	334147112294401	511308	33° 41' 48.7"	112° 29' 43.5"	1460	1/7/2020	320.1	V			12/21/2020	319.4	V			0.7
PHOENIX AMA	WEST SALT RIVER	B-04-03 14ABA	334147112320301	505327	33° 41' 47.8"	112° 32' 3.1"	1501	12/6/2019	312.2	V			12/15/2020	311.6	V			0.6
PHOENIX AMA	WEST SALT RIVER	B-04-03 28DDD	333912112335301	614445	33° 39' 13.2"	112° 33' 52.1"	1628	12/6/2019	414.2	V			12/7/2020	415.9	V			-1.7
PHOENIX AMA	WEST SALT RIVER	A-04-02 32BAA2	333915112104001	604123	33° 39' 14.7"	112° 10' 37.6"	1278	12/4/2019	376.1	V			12/8/2020	373.3	V			2.8
PHOENIX AMA	WEST SALT RIVER	A-04-02 26CBA	333943112075101	626639	33° 39' 42.5"	112° 7' 51.4"	1346	12/3/2019	398.9	V			11/30/2020	393.8	V			5.1
PHOENIX AMA	WEST SALT RIVER	B-04-03 19CDD	334028112361401	621513	33° 40' 17.5"	112° 36' 15"	1620	12/6/2019	387.5	V			12/7/2020	388.1	V			-0.6
PHOENIX AMA	WEST SALT RIVER	B-05-03 15AAA	334654112330401	640010	33° 46' 54.4"	112° 33' 2.79"	1711	12/5/2019	479.4	V			12/8/2020	480.9	V			-1.5
PHOENIX AMA	WEST SALT RIVER	B-04-03 04BDB	334314112343701	804655	33° 43' 15.7"	112° 34' 35.3"	1595	12/10/2019	363.8	V			12/8/2020	364.2	V			-0.4
PHOENIX AMA	WEST SALT RIVER	A-04-01 06ABB1	334328112175201	507620	33° 43' 28.5"	112° 17' 51.7"	1293	12/10/2019	77.8	V			12/9/2020	68.8	V			9.0
PHOENIX AMA	WEST SALT RIVER	B-05-02 35BAA	334418112261701	617007	33° 44' 18.8"	112° 26' 16.9"	1491	12/10/2019	223.8	V			12/9/2020	223.1	V			0.7
PHOENIX AMA	WEST SALT RIVER	B-05-02 08CCB	334708112295301	660001	33° 47' 6.2"	112° 29' 52.1"	1702	1/7/2020	488.9	V			12/21/2020	486.8	V			2.1
PHOENIX AMA	WEST SALT RIVER	B-06-03 36DDD	334847112310201	614488	33° 48' 46.29"	112° 31' 2.59"	1826	12/5/2019	606.2	V			12/8/2020	605.8	V			0.4
PHOENIX AMA	WEST SALT RIVER	B-06-02 18CAA	335138112302001	651280	33° 51' 41.8"	112° 30' 26.5"	2110	12/5/2019	509.3	V			12/8/2020	509.4	V			-0.1
PHOENIX AMA	WEST SALT RIVER	C-01-02 08CDA	332102112291201	614938	33° 21' 2.02"	112° 28' 41.06"	898.57	2/7/2020	54.16	VT			2/9/2021	54.71	VT		BLUE 500 11:10	-0.6
PHOENIX AMA	WEST SALT RIVER	A-03-01 02CBB	333746112141201	565552	33° 37' 47"	112° 14' 11"	1190	12/19/2019	323.1	V			12/16/2020	320.3	V			2.8
PHOENIX AMA	WEST SALT RIVER	B-01-02 35AAA	332328112253601	614377	33° 23' 27.32"	112° 25' 35.79"	892.68	2/7/2020	29.83	VT			2/9/2021	39.41	VT		BLUE 500 10:00	-9.6
PHOENIX AMA	WEST SALT RIVER	A-01-04 16BCC	332546111573301	511051	33° 25' 45.8"	111° 57' 33.4"	1140	4/9/2020	34.6	S			7/28/2021	37.8	S			-3.2
PHOENIX AMA	WEST SALT RIVER	C-01-03 08CDD	332101112345301	578927	33° 21' 1.49"	112° 34' 53.19"	840.81	2/7/2020	14.04	VT			2/9/2021	12.97	VT		BLUE 500 11:45	1.1
PINAL AMA	ELOY	D-10-08 26DDC	323120111292601	622064	32° 31' 1.7"	111° 29' 11.6"	1944	1/29/2020	441.2	V			1/27/2021	444.1	V			-2.9
PINAL AMA	ELOY	D-11-08E07BBC	322936111334001	632956	32° 29' 31.8"	111° 34' 33.3"	1920	1/29/2020	201.8	V			1/27/2021	200.1	V			1.7
PINAL AMA	ELOY	D-10-06 11DDD2	323354111422501	620687	32° 33' 53.5"	111° 42' 24"	1588	11/13/2019	343.8	V			11/16/2020	344.7	V			-0.9
PINAL AMA	ELOY	D-10-09 21AAD	323233112245601	622057	32° 32' 33.4"	111° 24' 52.8"	1797	1/27/2020	194.5	V			1/27/2021	193.9	V			0.6
PINAL AMA	ELOY	D-10-09 18AAC2	323321111271001	622069	32° 33' 21.4"	111° 27' 8.2"	1765	1/27/2020	275.8	V			1/27/2021	275.9	V			-0.1
PINAL AMA	ELOY	D-09-07 25DDA2	323611111340901	618267	32° 36' 16.79"	111° 34' 7.19"	1652	11/12/2019	466	V			11/16/2020	465.2	V			0.8
PINAL AMA	ELOY	D-09-07 25CDD	323611111343401	618276	32° 36' 10.19"	111° 34' 36.4"	1646	11/12/2019	221.6	V			11/16/2020	223.3	V			-1.7
PINAL AMA	ELOY	D-10-07 08AAA	323442111392101	608906	32° 34' 43.09"	111° 39' 20.1"	1593	11/13/2019	496.1	V	K		11/16/2020	493.7	V	K		2.4
PINAL AMA	ELOY	D-09-08 33DCD	323511111311901	615610	32° 35' 19.6"	111° 31' 17.2"	1699	11/12/2019	392.1	V			11/13/2020	387.2	V			4.9
PINAL AMA	ELOY	D-09-08 31DAA	323541111330501	615607	32° 35' 43"	111° 33' 4.69"	1666	11/12/2019	378	V			11/13/2020	374.6	V			3.4
PINAL AMA	ELOY	D-09-08 35ADD2	323545111285802	615616	32° 35' 47.9"	111° 28' 58.5"	1713	11/12/2019	372.8	V			11/13/2020	373.9	V			-1.1
PINAL AMA	ELOY	D-09-08 09DCC	323849111312701	625733	32° 38' 49.1"	111° 31' 27.39"	1655	11/14/2019	482.5	V			11/13/2020	483.3	V			-0.8
PINAL AMA	ELOY	D-09-07 10DAA	323859111361301	801286	32° 39' 11.7"	111° 36' 9.7"	1602	11/12/2019	265.1	V			11/20/2020	262.5	V			2.6
PINAL AMA	ELOY	D-09-08 21DCD2	323706111311701		32° 37' 5.7"	111° 31' 14.9"	1682	11/12/2019	302.6	V			11/13/2020	302.9	V			-0.3
PINAL AMA	ELOY	D-09-07 23DDD1	323707111351001		32° 37' 1.9"	111° 35' 7.4"	1635	11/12/2019	160.4	V			11/20/2020	159.4	V			1.0
PINAL AMA	ELOY	D-09-08 20ADD2	323730111320001		32° 37' 31.4"	111° 32' 1"	1666	11/12/2019	481.3	V			11/13/2020	481.5	V			-0.2
PINAL AMA	ELOY	D-09-08 20ADD1	323731111320201		32° 37' 30.9"	111° 32' 0"	1666	11/12/2019	291.8	V			11/13/2020	296.3	V			-4.5
PINAL AMA	ELOY	D-09-07 16DDD2	323754111371601	612238	32° 37' 55"	111° 37' 18.2"	1597	11/13/2019	427	V	K		11/16/2020	426.6	V	K	CASCADING @ APPROX 200'	0.4
PINAL AMA	ELOY	D-09-07 16DDD1	323801111310201	612240	32° 37' 55.2"	111° 37' 12.6"	1598	11/13/2019	143.6	S			11/16/2020	144.9	S			-1.3
PINAL AMA	ELOY	D-08-06 35DDD2	324035111412301		32° 40' 32"	111° 41' 18.7"	1542	11/14/2019	112.5	S			11/16/2020	112	S			0.5
PINAL AMA	ELOY	D-09-08 06DDD	323943111330801	604061	32° 39' 42.29"	111° 33' 3"	1630	11/14/2019	269.1	V			11/16/2020	271.3	V			-2.2
PINAL AMA	ELOY	D-08-08 29BCC	324154111325601	618528	32° 41' 52.1"	111° 32' 54.9"	1607	11/14/2019	367.8	V			11/20/2020	364	V			3.8
PINAL AMA	ELOY	D-08-08 29BCD	324155111325501	618535	32° 41' 52.7"	111° 32' 52.7"	1607	11/14/2019	237.8	V			11/20/2020	238.5	V			-0.7
PINAL AMA	ELOY	D-08-06 31ADD	324102111452801	615508	32° 40' 58.29"	111° 45' 27.2"	1509	11/14/2019	216.9	S			11/16/2020	216.8	V			0.1
PINAL AMA	ELOY	D-08-08 18CDD1	324312111333001	606865	32° 43' 10.9"	111° 33' 31.3"	1583	11/14/2019	231.2	V			11/9/2020	231.8	V			-0.6
PINAL AMA	ELOY	D-08-08 18CDD2	324313111333601	626503	32° 43' 11.2"	111° 33' 32.8"	1583	11/14/2019	296.6	V			11/9/2020	300.6	V			-4.0
PINAL AMA	ELOY	D-08-08 14DDD	324314112285501	622438	32° 43' 12.1"	111° 28' 55.29"	1611	11/15/2019	291.6	V			11/9/2020	285.4	V			6.2

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PINAL AMA	ELOY	D-08-06 23DDD2	324217111411901	606218	32° 42' 16.5"	111° 41' 20"	1526	11/14/2019	377	V	K		11/20/2020	374	V	K	CASCADING APPROX @ 250'	3.0
PINAL AMA	ELOY	D-08-07 19DDD	324218111391601	622408	32° 42' 17.3"	111° 39' 15.6"	1548	11/14/2019	178	S			11/16/2020	177.1	S			0.9
PINAL AMA	ELOY	D-08-06 12CBD	324181111404901	628451	32° 44' 15.4"	111° 41' 2.4"	1506	11/14/2019	478.5	V			11/16/2020	462.2	V			16.3
PINAL AMA	ELOY	D-08-07 09ADD1	324430111371501		32° 44' 30.9"	111° 37' 12.7"	1538	11/13/2019	208	V			11/20/2020	206.9	S			1.1
PINAL AMA	ELOY	D-08-08 10CDD	324405111302501	618245	32° 44' 4.8"	111° 30' 26.6"	1587	11/15/2019	256.4	V			11/17/2020	282.2	V			-25.8
PINAL AMA	ELOY	D-08-08 07DDD1	324405111330101		32° 44' 3.1"	111° 33' 2.2"	1575	11/14/2019	213.9	S			11/9/2020	215	S			-1.1
PINAL AMA	ELOY	D-07-08 33DDD	324548111305601		32° 45' 48"	111° 30' 56"	1562	11/29/2019	213.2	V			11/10/2020	218.5	V			-5.3
PINAL AMA	ELOY	D-07-07 34CDD2	324548111363901		32° 45' 48.8"	111° 36' 38.8"	1529	11/25/2019	215.1	V			11/10/2020	215.4	V			-0.3
PINAL AMA	ELOY	D-07-07 31DDA	324558111391301	608916	32° 45' 57.6"	111° 39' 13.4"	1509	11/25/2019	396.2	V			11/10/2020	409.1	V			-12.9
PINAL AMA	ELOY	D-07-06 35ACC	324616111414301	604510	32° 46' 13.3"	111° 41' 40.8"	1482	11/25/2019	445.2	V			11/10/2020	444.3	V			0.9
PINAL AMA	ELOY	D-07-06 34BAD	324626111425001	604516	32° 46' 25.7"	111° 42' 49.09"	1470.28	10/2/2019	440.19	VT			10/6/2020	444.5	VT		BLUE 500 12:45	-4.3
PINAL AMA	ELOY	D-08-09 05ACD PZ1	324523111260701		32° 45' 19.4"	111° 26' 6.7"	1648	11/12/2019	432.1	V			11/10/2020	432.3	V			-0.2
PINAL AMA	ELOY	D-08-09 05ACD PZ2	324523111260702		32° 45' 19.4"	111° 26' 6.7"	1648	11/12/2019	433.8	V			11/10/2020	434.5	V			-0.7
PINAL AMA	ELOY	D-08-08 06AAC	324537111331101		32° 45' 38.2"	111° 33' 11.2"	1551	11/15/2019	205.8	S			11/9/2020	207	V			-1.2
PINAL AMA	ELOY	D-07-07 23ADD	324757111350501		32° 47' 57.7"	111° 35' 4.1"	1513	11/25/2019	185.6	V			11/12/2020	185.2	V			0.4
PINAL AMA	ELOY	D-07-07 30CCC	324640111401001		32° 46' 39.7"	111° 40' 10.3"	1496	11/25/2019	168.8	V			11/10/2020	168.5	V			0.3
PINAL AMA	ELOY	D-07-09 27BDA PZ1	324707111241901		32° 47' 12.1"	111° 24' 19.3"	1657	11/12/2019	347.8	V			11/10/2020	349.3	V			-1.5
PINAL AMA	ELOY	D-07-09 27BDA PZ2	324707111241902		32° 47' 12.1"	111° 24' 19.3"	1657	11/12/2019	348.7	V			11/10/2020	349.4	V			-0.7
PINAL AMA	ELOY	D-07-09 08DDD PZ1	324917111254701	505967	32° 49' 16.9"	111° 25' 47.3"	1550	11/12/2019	212.8	V			11/9/2020	213.6	V			-0.8
PINAL AMA	ELOY	D-07-07 11CDD	324917111353601		32° 49' 17"	111° 35' 36.6"	1494	11/26/2019	168.9	V			11/12/2020	169.5	V			-0.6
PINAL AMA	ELOY	D-07-08 09DDD	324920111305701	621868	32° 49' 17.7"	111° 30' 54.4"	1516	11/29/2019	157.2	V			11/10/2020	157.8	V			-0.6
PINAL AMA	ELOY	D-07-06 17DDD2	324825111442301		32° 48' 24"	111° 44' 21.8"	1441	11/25/2019	123.7	V			11/10/2020	124.6	V			-0.9
PINAL AMA	ELOY	D-07-05 01ADA	325047111462501	608209	32° 50' 47.7"	111° 46' 25.7"	1402	11/14/2019	53.1	V			11/10/2020	51.7	S			1.4
PINAL AMA	ELOY	D-07-07 08BAA	325005111384201	624107	32° 50' 3.9"	111° 38' 41"	1468	11/26/2019	298.2	V			11/12/2020	304.4	V			-6.2
PINAL AMA	ELOY	D-07-09 10BBB PZ1	325007111244801		32° 50' 6"	111° 24' 44.4"	1596	11/12/2019	338.5	V			11/9/2020	339.2	V			-0.7
PINAL AMA	ELOY	D-07-09 10BBB PZ2	325007111244802		32° 50' 6"	111° 24' 44.4"	1596	11/12/2019	217.9	V			11/9/2020	215.6	V			2.3
PINAL AMA	ELOY	D-07-08 05DCC	325011111322501	800830	32° 50' 10.5"	111° 32' 25"	1501	11/29/2019	149.6	V			11/10/2020	152.8	V			-3.2
PINAL AMA	ELOY	D-07-06 04DCC	325012111434801		32° 50' 11.2"	111° 43' 48.6"	1432	11/25/2019	104.8	V			11/10/2020	106.5	S			-1.7
PINAL AMA	ELOY	D-06-05 34BDD2	325130111490701		32° 51' 27.4"	111° 49' 3.5"	1369	11/14/2019	73	S			11/10/2020	79.3	S			-6.3
PINAL AMA	ELOY	D-06-07 34BBC	325142111370501	604669	32° 51' 42.3"	111° 37' 4.6"	1461	11/26/2019	122.8	V			11/10/2020	130.9	V			-8.1
PINAL AMA	ELOY	D-06-08 31CDD	325102111332901	612214	32° 51' 1"	111° 33' 29"	1485	11/29/2019	144.9	V			12/11/2020	147.5	V			-2.6
PINAL AMA	ELOY	D-06-06 36DDA	325112111401701	605666	32° 51' 10.8"	111° 40' 13.8"	1443	11/15/2019	134.6	V			11/10/2020	133.1	V			1.5
PINAL AMA	ELOY	D-06-11 27CAD	325242111120001	804201	32° 52' 41.9"	111° 12' 0.3"	2370	11/15/2019	33.1	S			11/10/2020	20.2	V			12.9
PINAL AMA	ELOY	D-06-09 29BBA4	325243111264001		32° 52' 42.1"	111° 26' 40"	1542	11/12/2019	311.3	V			11/9/2020	312.2	V			-0.9
PINAL AMA	ELOY	D-06-05 25BBB	325245111472601	801146	32° 52' 45"	111° 47' 25.9"	1375	11/15/2019	62.8	S			11/10/2020	63.1	S			-0.3
PINAL AMA	ELOY	D-06-08 27BDD2	325220111302201	625232	32° 52' 20.3"	111° 30' 21.7"	1470	11/27/2019	118.3	S			11/12/2020	131	S			-12.7
PINAL AMA	ELOY	D-06-06 14DDD2	325340111411801	621201	32° 53' 40.2"	111° 41' 18.6"	1415	11/15/2019	304.3	V	K		11/10/2020	309.7	V	K		-5.4
PINAL AMA	ELOY	D-06-06 23ADC	325316111412701	621197	32° 53' 13.1"	111° 41' 29.8"	1417	11/15/2019	310.1	V			11/10/2020	312	V			-1.9
PINAL AMA	ELOY	D-06-08 11ADA1	325503111284801	617559	32° 55' 2.8"	111° 28' 48.6"	1473	11/27/2019	71	V			11/12/2020	73.2	V			-2.2
PINAL AMA	ELOY	D-06-07 08ADD	325503111375701		32° 55' 2.3"	111° 38' 7.7"	1414	11/26/2019	94.2	V			11/12/2020	95.7	V			-1.5
PINAL AMA	ELOY	D-06-06 16ADD	325409111432001	604682	32° 54' 8.8"	111° 43' 19.6"	1398	11/15/2019	302.9	S			11/10/2020	299.3	S			3.6
PINAL AMA	ELOY	D-06-07 11DDD2	325432111350401		32° 54' 31.8"	111° 35' 3.3"	1431	11/26/2019	94.9	V			11/12/2020	97	V			-2.1
PINAL AMA	ELOY	D-06-08 S04ADD1	325554111305201	605731	32° 55' 49.5"	111° 30' 53.9"	1429	11/26/2019	64.9	V			11/12/2020	70.7	S			-5.8
PINAL AMA	ELOY	D-06-09 N04DDD	325617111244801	620899	32° 56' 16.6"	111° 24' 47.3"	1588	11/27/2019	321.3	V			12/16/2020	320.7	V			0.6
PINAL AMA	ELOY	D-05-07 34DDD	325618111370501	604184	32° 56' 18"	111° 37' 5"	1406	11/13/2019	100.8	V			11/10/2020	102.1	V			-1.3
PINAL AMA	ELOY	D-05-07 33DDD	325618111380801	609618	32° 56' 17.7"	111° 38' 8"	1403	11/13/2019	108	V			11/10/2020	110	V			-2.0
PINAL AMA	ELOY	D-06-08 S02DAA	325532111285201	617565	32° 55' 48.5"	111° 28' 47.9"	1472	11/27/2019	238.5	V			11/12/2020	254.8	V			-16.3
PINAL AMA	ELOY	D-05-07 26CDD	325711111363801	622466	32° 57' 10.4"	111° 36' 37"	1402	11/13/2019	91.1	V			11/10/2020	97.5	V			-6.4
PINAL AMA	ELOY	D-05-07 28DCC2	325712111383001	809300	32° 57' 12.8"	111° 38' 36.6"	1410	11/13/2019	124.4	S			11/10/2020	126.1	S			-1.7
PINAL AMA	ELOY	D-05-06 28CAA	325728111444901	608103	32° 57' 34.9"	111° 44' 53.5"	1464	11/15/2019	324.4	V			11/10/2020	325.5	V			-1.1
PINAL AMA	ELOY	D-05-09 31ADD	325707111271801	621904	32° 57' 6.8"	111° 27' 18.1"	1505	11/14/2019	166	V			11/13/2020	166.2	V			-0.2
PINAL AMA	ELOY	D-05-10 22BBC1	325906111190601	532446	32° 59' 6.8"	111° 19' 6"	1768	11/15/2019	481.5	V			11/12/2020	484.2	V			-2.7
PINAL AMA	ELOY	D-05-07 W13CAD	325908111355701		32° 59' 7.2"	111° 35' 31.1"	1386	11/13/2019	85	V			11/10/2020	85.4	V			-0.4
PINAL AMA	ELOY	D-05-09 29ADA	325807111261601	635611	32° 58' 6.8"	111° 26' 16.2"	1520	11/14/2019	183.6	V			11/13/2020	186.8	V			-3.2
PINAL AMA	ELOY	D-05-09 18BDD2	325944111275001	601789	32° 59' 45.4"	111° 27' 49.8"	1464	11/14/2019	213.7	V			11/13/2020	220	V			-6.3
PINAL AMA	ELOY	D-05-08 17BBB2	330008111332601	621935	33° 0' 7.6"	111° 33' 26"	1409	11/13/2019	116.8	V			11/10/2020	116.9	V			-0.1
PINAL AMA	ELOY	D-04-09 33AAD	330235111252101	627609	33° 2' 37.3"	111° 25' 19.1"	1456	11/15/2019	207.3	V			11/10/2020	207.1	V			0.2
PINAL AMA	ELOY	D-05-09 02AAC	330143111233201	627616	33° 1' 39.6"	111° 23' 28.4"	1495	11/15/2019	233.6	V			11/13/2020	233.7	V			-0.1
PINAL AMA	ELOY	D-05-08 02AAA	330146111292301	621952	33° 1' 45.8"	111° 29' 22.7"	1418	11/13/2019	133.9	V			11/10/2020	127.7	V			6.2
PINAL AMA	ELOY	D-04-10 18DCD PZ1	330435111212601		33° 4' 34.21"	111° 21' 30.97"	1562.49	10/29/2019	271.9	V			10/29/2020	275.7	V			-3.8
PINAL AMA	ELOY	D-04-10 18DCD PZ2	330435111212602		33° 4' 34.21"	111° 21' 30.97"	1562.49	2/25/2020	272.2	V			2/24/2021	274	V			-1.8
PINAL AMA	ELOY	D-04-09 15BCA2 PZ1	330515111245601		33° 5' 15.58"	111° 24' 56.27"	1572.98	2/25/2020	321.1	V			2/24/2021	319.3	V			1.8
PINAL AMA	ELOY	D-04-10 12DDD	330522111160601	621947	33° 5' 22"	111° 16' 7.1"	1553.8	11/15/2019	44.2	V			11/10/2020	46.4	V			-2.2
PINAL AMA	ELOY	D-05-10 31BBA PZ1	330733111220201		33° 57' 25.04"	111° 22' 7.05"	1654.55	2/25/2020	379.8	V			2/24/2021	383	V			-3.2
PINAL AMA	ELOY	D-05-10 31BBA PZ2	330733111220202		33° 57' 25.04"	111° 22' 7.05"	1654.55	2/25/2020	380	V			2/24/2021	383.1	V			-3.1
PINAL AMA	ELOY	D-05-10 31BBA PZ3	330733111220203		33° 57' 25.04"	111° 22' 7.05"	1654.55	2/25/2020	381.3	V			2/24/2021	383.3	V			-2.0
PINAL AMA	ELOY	D-09-08 29BCC	323635111330001	615602	32° 36' 36"	111° 33' 1.59"	1663.71	10/2/2019	347.97	VT			10/6/2020	344.64	VT		NO CASCADING.	3.3
PINAL AMA	ELOY	D-06-07 36DCB	325117111342801		32° 51' 8.77"	111° 34' 30.4"	1477.02	10/2/2019	143.13	VT			10/6/2020	145.33	VT		BLUE 500 14:40	-2.2
PINAL AMA	ELOY	D-11-08 22ADB	322740111304201	804190	32° 27' 40.4"	111° 30' 42.1"	2280	1/29/2020	48.9	S			1/27/2021	14.6	S		CHECKED 2X. RECENT RAIN.	34.3
PINAL AMA	MARICOPA - STANFIELD	D-06-05 09ADD2	325503111493301	916442	32° 55' 2.5"	111° 49' 33.2"	1332	11/13/2019	28.9	S			11/10/2020	28.5	V			0.4
PINAL AMA	MARICOPA - STANFIELD	D-07-05 07DDD	324917111513801	613932	32° 49' 16.3"	111° 51' 38.7"	1368	11/14/2019	450.4	V			11/10/2020	452.4	V			-2.0
PINAL AMA	MARICOPA - STANFIELD	D-07-04 17DCC	324842111582001	605623	32° 48' 41.6"	111° 58' 17.1"	1405	11/14/2019	674.8	V			11/13/2020	677.4	V			-2.6
PINAL AMA	MARICOPA - STANFIELD	D-06-04 36DDD	325102111523901	629477	32° 51' 2.5"	111° 52' 37.8"	1347	11/14/2019	478.7	V			11/12/2020	479.3	V			-0.6
PINAL AMA	MARICOPA - STANFIELD	D-06-03 27CCC	325156112015101	615407	32° 51' 54.14"	112° 1' 52.03"	1374.26	10/2/2019	666.56	VT			10/6/2020	665.39	VT		BLACK 1500 11:40	1.2
PINAL AMA	MARICOPA - STANFIELD	D-06-04 15DDD1	325339111544201	605517	32° 53' 38.6"	111° 54' 42.2"	1305	11/13/2019	554.6	V			11/12/2020	551.1	V			3.5
PINAL AMA	MARICOPA - STANFIELD	D-06-05 16DAD	325356111493202	622028	32° 53' 56.7"	111° 49' 32.6"	1346	11/14/2019	55.5	V			11/10/2020	54.5	V			1.0
PINAL AMA	MARICOPA - STANFIELD	D-06-05 19DDA PZ1	325256111514001	635943	32° 52' 58"	111° 51' 36.6"	1338	11/14/2019	336.9	V			11/12/2020	336.4	V			0.5
PINAL AMA	MARICOPA - STANFIELD	D-06-05 16DDA	325357111493301	622029	32° 53' 51.4"	111° 49' 32.5"	1347	11/14/2019	55.3	V			11/10/2020	54.5	V			0.8
PINAL AMA	MARICOPA - STANFIELD	D-06-03 S02DDD2	325526111595401	620591	32° 55' 24.3"	111° 59' 50.3"	1267	11/13/2019	144.8	V			11/12/2020	141.8	S			3.0
PINAL AMA	MARICOPA - STANFIELD	D-06-02 E01CDD2	325542112053301		32° 55' 41.8"	112° 5' 33.6"	1318	11/13/2019	534.7	V			11/12/2020	534	V			0.7
PINAL AMA	MARICOPA - STANFIELD	D-05-05 32BDD	325639111522101	806657	32° 56' 44"	111° 52' 8.8"	1335	11/13/2019	378.6	V			11/13/2020	379.4	V			-0.8
PINAL AMA	MARICOPA - STANFIELD	D-05-04 23BDD2	325840111551501	623811	32° 58' 39.4"	111° 55' 16.1"	1276	11/19/2019	396.5	V			11/9/2020	399.7	V			-3.2
PINAL AMA	MARICOPA - STANFIELD	D-05-02 21BBB	325901111200401	605935	32° 59' 2.1"	112° 10' 4.3"	1339	11/25/2019	302.6	V			11/10/2020	305.5	V			-2.9
PINAL AMA	MARICOPA - STANFIELD	D-05-03 29BCC1	325748112045101		32° 57' 46.2"	112° 4' 54.6"	1257	11/25/2019	149.3	V			11/10/2020	147.7	V			1.6
PINAL AMA	MARICOPA - STANFIELD	D-05-02 22DAD	325833112080401	605938	32° 58' 29.6"	112° 8' 3"	1322	11/25/2019	475.2	V			11/10/2020	471.8	V			3.4
PINAL AMA	MARICOPA - STANFIELD	D-05-04 15ADD	325928111554401	601127	32° 59' 30.1"	111° 55' 42.6"	1266	11/19/2019	190.9	V			11/9/2020	190.8	V			0.1
PINAL AMA	MARICOPA - STANFIELD	D-05-03 12CDD1	330001112002001	612530	32° 59' 59.4"	112° 0' 17.5"	1215	11/19/2019	80.6	V			11/9/2020	80.1	V			0.5
PINAL AMA	MARICOPA - STANFIELD	D-05-02 11DDD2	330001112070101	623847	33° 0' 0.7"	112° 7' 0.6"	1268	11/25/2019	410.4	V			11/10/2020	409.7	V			0.7
PINAL AMA	MARICOPA - STANFIELD	D-05-04 07DDA	330008111584501	623829	33° 0' 8.9"	111° 58' 46.2"	1227	11/19/2019	91.5	S			11/9/2020	91	S			0.5
PINAL AMA	MARICOPA - STANFIELD	D-04-03 34BDD	330220112021101	622130	33° 2' 10.8"	112° 2' 19.7"	1186	11/18/2019	64.6	S			11/10/2020	64.7	V			-0.1
PINAL AMA	MARICOPA - STANFIELD	D-04-04 31CDD	330145111591401	605233	33° 1' 45.3"	111° 59' 15.2"	1207	11/18/2019	82.5	V			11/9/2020	76.9	V			5.6
PINAL AMA	MARICOPA - STANFIELD	D-04-03 35DDD	330147112005001	612706	33° 1' 44.9"	112° 0' 47.5"	1200	11/18/2019	75.7	S			11/9/2020	74.6	S			1.1
PINAL AMA	MARICOPA - STANFIELD	D-04-03 13DDD	330424111594601	621408	33° 4' 23.7"	111° 59' 45.7"	1177	1/27/2020	131.6	S			12/2/2020	147.5	V		LIGHT OIL	-15.9
PINAL AMA	MARICOPA - STANFIELD	D-04-02 15CBC	330435112085801	612602	33° 4' 36.3"	112° 8' 59.7"	1227	11/18/2019	333.1	V			11/9/2020	330.9	V			2.2
PINAL AMA	MARICOPA - STANFIELD	D-04-03 17ADD	330444112035501		33° 4' 50.7"	112° 3' 52.26"	1151	11/18/2019	55.5	V			11/9/2020	58.3	V			-2.8
PINAL AMA	MARICOPA - STANFIELD	D-04-04 20CDD	330330111581201	605948	33° 3' 29.5"	111° 58' 12.5"	1193	11/18/2019	88	S			11/9/2020	89.9	S			-1.9
PINAL AMA	MARICOPA - STANFIELD	D-04-03 20DCD	330332112041401		33° 3' 28.8"	112° 4' 8.9"	1181	11/18/2019	54.7	S			11/9/2020	57.3	V			-2.6
PINAL AMA	MARICOPA - STANFIELD	D-04-02 23ACC2	330355112073001		33° 3' 55.7"	112° 7' 30.5"	1185	11/18/2019	290.6	V			11/9/2020	303.7	V			-13.1
PINAL AMA	MARICOPA - STANFIELD	D-05-04 28BCD1	330737111573201	612522	32° 57' 35.8"	111° 57' 34.4"	1254	11/19/2019	122.8	V			11/10/2020	120.5	V			2.3
PINAL AMA	MARICOPA - STANFIELD	D-05-02 36BAD	325656112064801	615354	32° 57' 14.14"	112° 6' 33.34"	1316	10/2/2019	483.4	VT			10/6/2020	481.03	VT		BLUE 500	2.4
PINAL AMA	VEKOL VALLEY	D-09-01 13BBD	323900112130201		32° 38' 59.9"	112° 13' 1.7"	2048	11/26/2019	431.3	V			11/12/2020	439.2	V			-7.9
PINAL AMA	VEKOL VALLEY	D-08-01 30DAA	324208112172401		32° 42' 7.4"	112° 17' 22"	2165	11/26/2019	519	V			11/12/2020	518.9	V			0.1
PINAL AMA	VEKOL VALLEY	D-08-01 11CCB	324401112133801		32° 44' 31.4"	112° 14' 8.2"	1945	11/26/2019	329.2	V			11/12/2020	329.1	V			0.1
PINAL AMA	VEKOL VALLEY	D-07-01 22CCC2	324754112151201		32° 47' 54.7"	112° 15' 11.9"	1835	11/26/2019	420.7	V			11/12/2020	420.7	V			0.0
PINAL AMA	VEKOL VALLEY	D-07-01 10CBC2	324953112151401		32° 49' 52.69"	112° 15' 13.13"	1752	11/26/2019	341.4	V			11/12/2020	341.1	V			0.3
PINAL AMA	VEKOL VALLEY	D-06-01 33DCC	325120112154501		32° 51' 21.9"	112° 15' 39.5"	1702	11/25/2019	290.9	V			11/12/2020	293.4	V			-2.5
PINAL AMA	VEKOL VALLEY	D-06-01 21DAB	325257112152601	512922	32° 53' 23.7"	112° 15' 28.8"	1630	11/25/2019	226.3	V			11/12/2020	226.9	V			-0.6
PINAL AMA	VEKOL VALLEY	D-06-01 16DCD2	325358112153501	804042	32° 53' 57.6"	112° 15' 35.4"	1626	11/25/2019	211.9	V			11/12/2020	211.2	V			0.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 26CCD3	344912112264101	592129	34° 49' 11.86"	112° 26' 40.83"	4456.75	2/26/2020	13.85	VT		TAKEN WITH BLACK 500 AT 10:30	2/17/2021	13.97	VT		TAKEN AT 12:49 WITH BLUE 500	-0.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 23ADC	344511112255901	613770	34° 45' 10.7"	112° 25' 59.1"	4625	4/14/2020	158.1	V			3/23/2021	160	V			-1.9
PRESCOTT AMA	LITTLE CHINO VALLEY	A-15-01 17BCC	344052112171701	524200	34° 40' 51"	112° 17' 18.7"	4979	5/28/2020	313.3	V			3/22/2021	312.9	V			0.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 31CCD	343746112242601	619664	34° 37' 45.4"	112° 24' 25.2"	5008	4/21/2020	351.4	V			3/22/2021	352.5	V			-1.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD1	343930112235301	523565	34° 39' 29.5"	112° 23' 55"	4915	4/21/2020	182.4	V			3/22/2021	194.9	V			-12.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 34ABA2	344347112271001	502645	34° 43' 47.2"	112° 27' 9.4"	4800	4/20/2020	304.1	V			3/22/2021	306.5	V			-2.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 31BBB1	344347112310701	632216	34° 43' 46.5"	112° 31' 6.3"	4902	4/20/2020	157.2	V			3/22/2021	155.5	V			1.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 25DDB	344358112182901	625105	34° 43' 58.3"	112° 18' 32.2"	4961	5/28/2020	445.1	V			3/24/2021	446.6	V			-1.5
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 28BCA	344429112222001	625104	34° 44' 26.8"	112° 22' 23.2"	4807	4/20/2020	303.6	V			3/22/2021	304.9	V			-1.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21CCC1	344448112285601	536853	34° 44' 48.5"	112° 28' 51.6"	4810	2/25/2020	319.6	V			8/24/2021	328.3	V			-8.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CBD1	344459112232601	625107	34° 45' 0"	112° 23' 26.2"	4777	4/20/2020	26.6	V			3/22/2021	40.8	S			-14.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 20CAC	344501112232601	625106	34° 44' 58.1"	112° 23' 20.5"	4781	4/20/2020	246.6	V			3/22/2021	247.9	V			-1.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 26CCC1	344912112264801		34° 49' 11.9"	112° 26' 42.7"	4463	8/18/2020	4.4	S			8/25/2021	3	S			1.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 26CCD2	344915112264001	627269	34° 49' 14.3"	112° 26' 40"	4457	4/2/2020	7.1	S			3/24/2021	9.3	S			-2.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 S34CDD	344820112272701	609766	34° 48' 17.1"	112° 27' 24.4"	4516	4/15/2020	28.7	S			3/25/2021	30.1	S			-1.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 19DCD2	343930112235601	562286	34° 39' 32.8"	112° 23' 57.7"	4920	4/21/2020	396.7	V			3/22/2021	397.5	V			-0.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 13ACC	344147112313201	536656	34° 40' 45.4"	112° 31' 29.1"	5100	4/17/2020	234.3	V			3/22/2021	235.4	V			-1.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 31DDB	343754112301101	635023	34° 37' 52.3"	112° 30' 11.3"	5355	4/14/2020	227.9	V			3/23/2021	228.2	V			-0.3
PRESCOTT AMA	LITTLE CHINO VALLEY	B-14-02 05BBC	343734112295501	540148	34° 37' 33.2"	112° 29' 56.1"	5305	4/14/2020	196.3	V			3/23/2021	196.7	V			-0.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 35ACB	343820112195701	560334	34° 38' 20.3"	112° 19' 56.5"	4961	5/28/2020	411.3	V			3/23/2021	412.4	V			-1.1

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-01 23ACA	344520112194301	587404	34° 45' 19.87"	112° 19' 43.2"	4878.63	2/25/2020	369.25	VT		TAKEN WITH BLACK 500 AT 15:20	2/17/2021	370.3	VT		TAKEN AT 13:49 WITH BLUE 500	-1.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 22AAB PZ1	342020112270102	588619	34° 40' 19.75"	112° 27' 0.52"	5007.63	2/26/2020	330.09	VT		TAKEN WITH BLACK 500 AT 16:00	2/17/2021	329.3	VT		TAKEN AT 15:16 WITH BLUE 500	0.8
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-03 13DDD2	344025112310401	550757	34° 40' 25.6"	112° 31' 4.2"	5140	4/17/2020	287.9	V			3/22/2021	288.6	V			-0.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 33CBC	344314112285201	529457	34° 43' 14.4"	112° 28' 52.5"	4910	4/20/2020	356.9	V			3/22/2021	357.1	V			-0.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 06CCC	344207112306001	569852	34° 42' 6.8"	112° 30' 59.7"	5000	4/21/2020	168.9	V			3/22/2021	158.9	V			10.0
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 21BAA2	344535112283001	604725	34° 45' 32.65"	112° 28' 30.82"	4746.47	2/25/2020	258.7	VT		TAKEN WITH BLACK 500 AT 16:15	2/17/2021	260.9	VT		TAKEN AT 14:20 WITH BLUE 500	-2.2
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 12CBD	344645112253401	606300	34° 46' 42.02"	112° 25' 29"	4601.85	2/25/2020	107.52	VT		TAKEN WITH BLACK 500 AT 15:45	2/17/2021	109.15	VT		TAKEN AT 13:24 WITH BLUE 500	-1.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-17-02 N34DDD1	344819112265701	608242	34° 48' 18.18"	112° 26' 57.65"	4513.79	2/26/2020	34.03	VT		TAKEN WITH BLACK 500 AT 10:15	2/17/2021	35.63	VT		TAKEN AT 13:07 WITH BLUE 500	-1.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 08DAA1 PZ1	344134112223501	587403	34° 41' 33.73"	112° 22' 35.25"	4915.24	10/9/2019	402.65	VT		MEASUREMENT TAKEN AT 10:00 AM USING BLK 500	10/29/2020	404.33	VT			-1.7
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-02 22AAB	342020112270101	588619	34° 40' 19.75"	112° 27' 0.52"	5007.63	2/26/2020	398.14	VT		TAKEN WITH BLACK 500 AT 16:00	2/17/2021	398.74	VT		TAKEN AT 15:02 WITH BLUE 500	-0.6
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 26CBC1	343854112202701	541372	34° 38' 54.55"	112° 20' 27.49"	4949.32	6/18/2020	441.58	VT		TAKEN WITH BLACK 500 AT 11:00	6/3/2021	443.7	VT		RED 500 13:15	-2.1
PRESCOTT AMA	LITTLE CHINO VALLEY	B-16-02 28DDC	344357112280901	628072	34° 43' 51.9"	112° 28' 8.69"	4818.78	2/25/2020	328.96	VT		TAKEN WITH BLACK 500 AT 16:30	2/17/2021	331.36	VT		TAKEN AT 14:39 WITH BLUE 500	-2.4
PRESCOTT AMA	LITTLE CHINO VALLEY	B-15-01 08DAA1 PZ2	344134112223502	587403	34° 41' 33.73"	112° 22' 35.25"	4915.24	10/9/2019	402.02	VT		MEASUREMENT TAKEN AT 10:05 WITH BLK 500	10/29/2020	403.68	VT			-1.7
PRESCOTT AMA	UPPER AGUA FRIA	B-12H-01 20ACD	342722112225901	543019	34° 27' 21.16"	112° 22' 55.54"	6380	1/14/2020	77.2	V			2/8/2021	87.6	V			-10.4
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 11ACB	343637112195701	612330	34° 36' 37.1"	112° 19' 57.5"	5043.72	5/5/2020	349.9	V			3/24/2021	349.4	V			0.5
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 08BBB	343652112172101	536623	34° 36' 52.08"	112° 17' 18.8"	4859.13	10/9/2019	213.14	V		MEASUREMENT TAKEN AT 13:15 WITH BLK 500	10/28/2020	214.14	VT			-1.0
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 27ACC	343353112144101	613024	34° 33' 53.08"	112° 14' 41.05"	4660.63	2/25/2020	43.1	VT		TAKEN WITH BLACK 500 AT 9:15	11/12/2020	42.52	VT			0.6
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 28BBB	343415112161401	613020	34° 34' 11.5"	112° 16' 12.8"	4714.98	4/28/2020	100.2	V			3/23/2021	99.5	S			0.7
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 22ADA	343453112203401	613045	34° 34' 53.7"	112° 20' 34.4"	5184.1	4/28/2020	329.8	V			3/22/2021	338	V			-8.2
PRESCOTT AMA	UPPER AGUA FRIA	A-14-01 17AAD	343529112162201	613025	34° 35' 48.92"	112° 16' 26.23"	4779.25	10/9/2019	36.17	VT		MEASUREMENT TAKEN AT 13:40 WITH BLK 500	10/28/2020	35.64	VT			0.5
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ2	343641112204203	519687	34° 36' 40.15"	112° 20' 43.8"	5025	7/7/2020	321.72	VT		TAKEN WITH BLUE 1500 AT 10:05	7/7/2021	321.94	VT			-0.2
PRESCOTT AMA	UPPER AGUA FRIA	B-14-01 10ADB1 PZ1	343641112204202	519687	34° 36' 40.15"	112° 20' 43.8"	5018.34	7/7/2020	566.21	VT		TAKEN WITH BLUE 1500 AT 10:00	7/7/2021	536.91	VT			29.3
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 22ABB	344029112143501	519873	34° 40' 20.09"	112° 14' 35.07"	5257.81	10/9/2019	75.23	VT		MEASUREMENT AT 12:20 WITH BLK 500	10/29/2020	75.27	VT			0.0
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 28ACC	343906112154701	614238	34° 39' 7.09"	112° 15' 45.41"	5067.21	10/9/2019	324.69	VT		MEASUREMENT TAKEN AT 12:40 WITH BLK 500	10/29/2020	324.34	VT			0.4
PRESCOTT AMA	UPPER AGUA FRIA	A-15-01 11DDB	344122112131701	565691	34° 41' 22.5"	112° 13' 14.7"	5460	5/28/2020	201.8	V			3/25/2021	202.1	V			-0.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-02-14 10CDC	333121113413001	600171	33° 31' 25.4"	113° 41' 28.3"	1350	11/1/2019	352.4	S			10/30/2020	350.6	V			1.8
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-03-15 02DAC	333737113460801	601120	33° 37' 41.7"	113° 46' 10.1"	1205	11/1/2019	224.9	V			10/30/2020	226.5	V			-1.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 13ADA	334121113450101	600133	33° 41' 33.5"	113° 44' 57.2"	1239	10/31/2019	329.8	V			10/30/2020	333.3	V			-3.5
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 18BCC	334122113510901	620833	33° 41' 21.8"	113° 51' 9.3"	1133	10/31/2019	149.3	S			10/29/2020	154.1	S			-4.8
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 35BDD2	334357113473201	801955	33° 43' 55.9"	113° 47' 29.9"	1208	10/28/2019	377.7	V			10/27/2020	380.8	V			-3.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 25DCC	334422113524001	614479	33° 44' 21.9"	113° 52' 41"	1123	10/28/2019	175.1	V			10/29/2020	175.6	S			-0.5
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 29DAA	334446113500601	613116	33° 44' 46.4"	113° 50' 6.7"	1121	10/28/2019	231.2	V			10/27/2020	233.3	V			-2.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-15 27BBA	335024113485701	614505	33° 50' 24.5"	113° 48' 52.2"	1352	10/29/2019	439	V			10/27/2020	439.6	V			-0.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 20ACD	335054113564301	505096	33° 50' 55.3"	113° 56' 43.6"	1055	10/28/2019	139.6	V			10/27/2020	132.1	V			7.5
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-16 09BCC	334722113562001	600166	33° 47' 23.5"	113° 56' 19"	1083	10/28/2019	146.5	V			10/27/2020	147.1	V			-0.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-05-15 06BAA1	334840113514101	618772	33° 48' 40.8"	113° 51' 40.4"	1156	10/29/2019	243.7	V			10/27/2020	243.6	V			0.1
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 22ADA	335102113541301	613119	33° 51' 3.1"	113° 54' 16.6"	1121	10/28/2019	196.3	V			10/27/2020	196.9	V			-0.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-06-16 12AAA	335257113520601	613120	33° 53' 2.1"	113° 52' 11.8"	1207	10/30/2019	289.7	V			10/27/2020	288.1	V			1.6
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-07-17 23CAC2	335556114000101	645951	33° 55' 58.4"	114° 0' 10.3"	952	10/29/2019	77.6	S			10/27/2020	79.9	S			-2.3
RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	B-04-15 14CAA	334118113463501	600129	33° 41' 20.62"	113° 46' 30.91"	1181.1	10/22/2019	328.6	VT			10/13/2020	332.79	VT			-4.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-13-15 17CBD	342753113511901		34° 27' 51.3"	113° 51' 23.9"	2080	10/24/2019	666.1	V			10/23/2020	665.6	V			0.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-16 07BDD	343923113583301	611808	34° 39' 23.9"	113° 58' 32.9"	2341	10/24/2019	934.2	V			10/20/2020	935.6	V			-1.4
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-19 07AAB	343940114170301	629451	34° 39' 39.8"	114° 17' 4.1"	1472	10/25/2019	487	V		PUMP OFF ~ 24 HOURS.	10/22/2020	498.7	V		PUMP OFF ~7.5 HOURS	-11.7
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-16 01CAB	344005113532701		34° 40' 5.7"	113° 53' 27"	3074	10/24/2019	103.2	V			10/20/2020	103.4	V			-0.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-20 13BCD	344347114180601	616522	34° 43' 43.4"	114° 18' 45.1"	980	10/23/2019	31.2	S			10/21/2020	31.3	S			-0.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-16-19 10CBC	344424114144301		34° 44' 23.6"	114° 14' 44.2"	1162	10/23/2019	63.3	S			10/21/2020	63.2	S			0.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-17-18 25ADB1	344954114084501	628122	34° 49' 54.91"	114° 8' 33.33"	1745.99	2/12/2020	296.19	VT			2/17/2021	296.14	VT		RED 500 13:45	0.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-18-18 25CCC1	345435114092301	536616	34° 54' 36.3"	114° 9' 19.8"	1936	10/22/2019	335.5	V			10/20/2020	336.1	V			-0.6
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-18-18 01DCD	345801114082801		34° 58' 8.9"	114° 8' 36.9"	2181	10/22/2019	527.9	V			10/20/2020	527.7	V			0.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-18 22AAC	350633114103701		35° 6' 33.72"	114° 10' 36.15"	2495.57	2/12/2020	751.01	VT			2/17/2021	751.7	VT		BLACK 1500 14:45	-0.7
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-17 E07AAB2	350818114063901	529524	35° 8' 17.1"	114° 6' 42.7"	2858	10/23/2019	177.9	V			10/20/2020	177	V			0.9
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-19 01DDD	351344114151501	523964	35° 13' 45"	114° 15' 15.3"	2815	10/23/2019	1045.5	V			10/20/2020	1046	V			-0.5
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-18 05DBD	351401114132401	610756	35° 14' 1.24"	114° 13' 21.91"	2855.82	2/12/2020	1069.93	VT			2/17/2021	1069.8	VT		BLACK 1500 15:45	0.1
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-20-18 04BBB	350920114122701	623085	35° 9' 19.7"	114° 12' 27.1"	2524	10/24/2019	767.2	V			10/21/2020	766.4	V			0.8
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 34DDB2	350937114044201	646882	35° 9' 37.6"	114° 4' 41.8"	3047	10/23/2019	61.2	S			10/20/2020	61	V			0.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-21-17 24CBC	351123114032201	612663	35° 11' 25.7"	114° 3' 23.2"	3335	10/24/2019	139.2	V			10/20/2020	142.4	V			-3.2
SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	B-15-17 20DCC	343712114034501	590022	34° 37' 12.2"	114° 3' 42.4"	1890	10/24/2019	496.9	V			10/20/2020	496.1	V			0.8
SAFFORD BASIN	GILA VALLEY	D-10-26 25CBA	323240109384601	644135	32° 32' 5.1"	109° 38' 39.2"	4089	11/5/2019	641.4	V			11/3/2020	642.8	V			-1.4
SAFFORD BASIN	GILA VALLEY	D-09-27 09ADD	324002109344501	807397	32° 40' 2.6"	109° 34' 45.5"	3280	11/5/2019	148.6	S			11/3/2020	151.5	S			-2.9
SAFFORD BASIN	GILA VALLEY	D-08-28 22CCB	324303109283601	615569	32° 43' 3.3"	109° 28' 36.3"	3340	11/5/2019	80.3	V			11/5/2020	88.3	S			-8.0
SAFFORD BASIN	GILA VALLEY	D-08-26 20DBC	324313109422201	616545	32° 43' 12.6"	109° 42' 21.8"	3210	11/5/2019	22.5	V			11/3/2020	23.3	V			-0.8
SAFFORD BASIN	GILA VALLEY	D-07-26 22BAB	324855109403301	622921	32° 48' 58"	109° 40' 36.6"	2951.16	11/5/2019	49.2	S			11/3/2020	45.9	S			3.3
SAFFORD BASIN	GILA VALLEY	D-07-26 18CDA1	324908109433001	611966	32° 49' 7.1"	109° 43' 27.1"	2961.14	11/4/2019	61.4	V			11/2/2020	60.9	S			0.5
SAFFORD BASIN	GILA VALLEY	D-07-25 10AAD	325033109460101	533141	32° 50' 31.9"	109° 46' 1.6"	2924	11/4/2019	60.3	V			11/2/2020	60.8	V			-0.5
SAFFORD BASIN	GILA VALLEY	D-07-26 01CCD	325045109384101		32° 50' 43.4"	109° 38' 36"	3135	11/5/2019	103	V			11/3/2020	105.3	V			-2.3
SAFFORD BASIN	GILA VALLEY	D-07-27 02ADD	325115109324501	605867	32° 51' 11.3"	109° 32' 45.5"	3065	11/5/2019	47.9	V			11/3/2020	48.5	V			-0.6
SAFFORD BASIN	GILA VALLEY	D-06-25 25CDD	325228109442401	613376	32° 52' 28.2"	109° 44' 32.9"	2890	11/4/2019	28.4	V			11/5/2020	27.7	S			0.7
SAFFORD BASIN	GILA VALLEY	D-06-25 30CBA	325253109495501	611078	32° 52' 54.3"	109° 49' 55.2"	2890	11/4/2019	37	V			11/5/2020	35.8	S			1.2
SAFFORD BASIN	GILA VALLEY	D-06-24 14AAD	325458109511201	607880	32° 54' 57.8"	109° 51' 11"	2800	11/4/2019	21	V			11/5/2020	20.8	S			0.2
SAFFORD BASIN	GILA VALLEY	D-05-23 25DCD	325742109560901	803164	32° 57' 43.2"	109° 56' 7.7"	2778	11/4/2019	52.9	V			11/5/2020	55.3	S			-2.4
SAFFORD BASIN	GILA VALLEY	D-05-24 25BBC	325822109503601	637301	32° 58' 21.5"	109° 50' 35.5"	3065	11/4/2019	161.8	S			11/5/2020	166.8	S			-5.0
SAFFORD BASIN	GILA VALLEY	D-05-24 18AAA	330018109545301	620674	33° 0' 17.9"	109° 54' 51.4"	2730	11/4/2019	35.4	S			11/5/2020	34.2	S			1.2
SAFFORD BASIN	GILA VALLEY	D-04-22 35ADA	330240110031101	611941	33° 2' 39.7"	110° 3' 13.1"	2857.54	11/4/2019	33.2	S			11/5/2020	31.1	S			2.1
SAFFORD BASIN	GILA VALLEY	D-05-23 03CAB1	330135109583801	624721	33° 1' 32.5"	109° 58' 37.8"	2790	11/4/2019	75	S			11/5/2020	74	S			1.0
SAFFORD BASIN	GILA VALLEY	D-05-23 02DBC2	330128109572301		33° 1' 27.8"	109° 57' 23.4"	2720	11/4/2019	31.2	S			11/5/2020	31.6	S			-0.4
SAFFORD BASIN	GILA VALLEY	D-08-26 33CDC1	324113109415401		32° 41' 11.91"	109° 41' 37.56"	3341.21	2/6/2020	48.29	VT		TAKEN AT 10:30 WITH BLACK 500	2/9/2021	48.93	VT		TAKEN WITH BLACK 500 AT 10:30	-0.6
SAFFORD BASIN	GILA VALLEY	D-08-26 08ADC	324511109420901	628219	32° 45' 7.2"	109° 42' 9.3"	3142	11/5/2019	37	V			11/3/2020	38.2	V			-1.2
SAFFORD BASIN	SAN CARLOS VALLEY	D-01-16 09CBC UNSURV	332128110432101	526251	33° 21' 27"	110° 43' 22.5"	3510	11/7/2019	709.4	V			11/6/2020	704	V			5.4
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 13BCD	321812109264401	610898	32° 18' 12.11"	109° 26' 46.79"	3732.16	2/6/2020	114.52	VT		TAKEN AT 9:30 WITH BLACK 500	2/9/2021	114.76	VT		TAKEN WITH BLACK 500 AT 11:25	-0.2
SAFFORD BASIN	SAN SIMON VALLEY	D-13-30 15BBB	321830109165001	622807	32° 18' 29.1"	109° 16' 41.6"	3569	11/5/2019	62.9	V	P		11/3/2020	63	V	P		-0.1
SAFFORD BASIN	SAN SIMON VALLEY	D-13-28 22BCC	321721109286001	618342	32° 17' 19.6"	109° 28' 59.6"	3840	11/4/2019	572.8	V			11/3/2020	580.6	V			-7.8
SAFFORD BASIN	SAN SIMON VALLEY	D-13-31 29DDA	321607109114101	805565	32° 16' 6.8"	109° 11' 35.7"	3621	11/5/2019	51	V			11/3/2020	52.8	V			-1.8
SAFFORD BASIN	SAN SIMON VALLEY	D-13-30 09ACD2	321857109170101		32° 18' 58.3"	109° 16' 59.6"	3566	11/5/2019	50.9	V		WELL CLOSE TO DRY	11/3/2020	51.1	V			-0.2
SAFFORD BASIN	SAN SIMON VALLEY	D-12-27 32AAB1	322110109362701	809568	32° 21' 11.6"	109° 36' 24.5"	3979	11/4/2019	132	V			11/2/2020	132.6	V			-0.6
SAFFORD BASIN	SAN SIMON VALLEY	D-12-28 26BCA2	322152109274701		32° 21' 54.1"	109° 27' 42.1"	3666	11/4/2019	209.3	V			11/3/2020	210.5	V			-1.2
SAFFORD BASIN	SAN SIMON VALLEY	D-12-28 16CCC	322302109300001	625833	32° 23' 5.5"	109° 30' 1.7"	3721	11/4/2019	361.9	V			2/3/2021	359	V			2.9
SAFFORD BASIN	SAN SIMON VALLEY	D-16-31 09ACB	320316109103801	616118	32° 3' 15.9"	109° 10' 38.4"	4310	11/6/2019	598.3	V			11/4/2020	600.7	V			-2.4
SAFFORD BASIN	SAN SIMON VALLEY	D-20-32 09BBB	314238109050701	602723	31° 42' 39.2"	109° 5' 7"	4297	11/6/2019	198.4	V			11/5/2020	198.8	V			-0.4
SAFFORD BASIN	SAN SIMON VALLEY	29S 22W 11 243A	314750109024501		31° 47' 50.7"	109° 2' 51.2"	4164	11/6/2019	154.4	V			11/5/2020	151.6	V			2.8
SAFFORD BASIN	SAN SIMON VALLEY	27S 21W 07 232A	315836109011501		31° 58' 27.7"	109° 1' 23.1"	4018	11/6/2019	139.9	V			11/5/2020	141.4	V			-1.5
SAFFORD BASIN	SAN SIMON VALLEY	D-16-32 21CCB	320051109050601		32° 0' 55.2"	109° 5' 11.8"	4088	11/6/2019	219.3	V			11/4/2020	225	V			-5.7
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 19BAC	321210109132001	615982	32° 12' 10.4"	109° 13' 20.3"	3713	11/5/2019	92.4	S			11/4/2020	93.6	S			-1.2
SAFFORD BASIN	SAN SIMON VALLEY	D-14-31 08ABC1	321355109120501	810297	32° 13' 59.8"	109° 12' 5.5"	3632	11/5/2019	61.3	V			11/3/2020	61.4	V			-0.1
SALT RIVER BASIN	SALT RIVER CANYON	A-08-23 06DBD	340655109570701	521646	34° 6' 55.2"	109° 57' 7.1"	6918	10/30/2019	168.5	V			10/21/2020	168.4	V			0.1
SALT RIVER BASIN	SALT RIVER LAKES	D-01-15 01BBA	332241110461201	703145	33° 22' 41.26"	110° 46' 11.69"	3603.72	2/7/2020	19.22	VT		TAKEN WITH BLACK 500 AT 12:15	2/9/2021	27.13	VT		TAKEN AT 8:15 WITH BLACK 500	-7.9
SALT RIVER BASIN	SALT RIVER LAKES	A-05-11 18AAA	334653111154101	600998	33° 46' 54.1"	111° 15' 40.4"	2145	10/21/2019	9.6	S			10/19/2020	5.5	S			4.1
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 14CBA1UNSURV	312026109155401	552203	31° 20' 26.4"	109° 15' 53.7"	3740	11/8/2019	28.1	V			11/16/2020	28.3	V			-0.2
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 14CBA2UNSURV	312027109155401	552202	31° 20' 26.6"	109° 15' 53.9"	3740	11/8/2019	23.6	V			11/16/2020	23.7	V			-0.1
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 13ACD UNSURV	312032109141801	212321	31° 20' 31.8"	109° 14' 17.5"	3765	11/8/2019	18	V			11/16/2020	17.4	V			0.6
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 13DBA1UNSURV	312030109141801	212326	31° 20' 30"	109° 14' 18"	3760	11/8/2019	8.6	V			11/16/2020	8	V			0.6
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 13DBA2UNSURV	312027109141701	212327	31° 20' 27.1"	109° 14' 17.4"	3755	11/8/2019	20.7	V			11/16/2020	20	V			0.7
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 14CCD1UNSURV	312009109155401	552204	31° 20' 8.8"	109° 15' 54"	3718	11/8/2019	9.9	V			11/16/2020	9.9	V			0.0
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 23BAA1UNSURV	312004109153701	546493	31° 20' 3.8"	109° 15' 36.6"	3712	11/8/2019	14.3	V			11/16/2020	14.6	V			-0.3
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 23BAA2UNSURV	312003109153701	546490	31° 20' 3.4"	109° 15' 36.6"	3712	11/8/2019	14.5	V			11/16/2020	15	V			-0.5
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 23BAA3UNSURV	312004109153601	546492	31° 20' 3.5"	109° 15' 36.3"	3712	11/8/2019	13.9	V			11/16/2020	14.1	V			-0.2
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-24-30 16CCC	312006109180601	616444	31° 20' 5"	109° 17' 59.8"	3796	11/7/2019	31.3	V			11/3/2020	31.5	V			-0.2
SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	D-23-31 29DDC	312340109121601	640715	31° 23' 40.1"	109° 12' 12.4"	4020	11/7/2019	205.6	V			11/3/2020	205.6	V			0.0
SAN RAFAEL BASIN	SAN RAFAEL	D-24-17 14BBA	312109110352501		31° 21' 9.5"	110° 35' 25.6"	4645	2/27/2020	5.9	S			2/24/2021	7.8	S			-1.9
SAN RAFAEL BASIN	SAN RAFAEL	D-24-16 01CBA UNSURV	312207110400301	640950	31° 22' 6.9"	110° 40' 3.1"	5003	1/30/2020	211.9	V			1/29/2021	211.7	V			0.2
SAN RAFAEL BASIN	SAN RAFAEL	D-24-17 15CCA	312031110363201	602673	31° 20' 30.3"	110° 36' 32.3"	4680	1/30/2020	13.54	S			1/26/2021	13.7	V			-0.2
SAN RAFAEL BASIN	SAN RAFAEL	D-23-17 10CBC2	312647110364101	624898	31° 26' 45.4"	110° 36' 40.7"	4946	1/30/2020	114.2	V			1/29/2021	123.6	V			-9.4
SAN RAFAEL BASIN	SAN RAFAEL	D-22-17 25BDB2	312941110341601	630082	31° 29' 42.5"	110° 34' 20.7"	5085	1/30/2020	22.9	V			1/29/2021	31.3	V			-8.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 20BBB2	311958110562701	537957	31° 19' 58.5"	110° 56' 28.1"	3950	8/26/2020	14.1	S			8/26/2021	11.67	S			2.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 20BBB1	311958110562801	537956	31° 19' 58.5"	110° 56' 28.1"	3950	8/26/2020	10.3	S			8/26/2021	10.08	S			0.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 06AAD	312230110503301	803465	31° 22' 30"	110° 50' 35.72"	3663.85	2/20/2020	5.56	VT			2/18/2021	24.53	VT		TAKEN AT 10:15 WITH BLACK 500	-19.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-13 01DBC	312204110575601	571751	31° 22' 2.9"	110° 57' 57.1"	3827	2/27/2020	275.3	V			2/19/2021	278.9	V		CITY WELL IS OFF	-3.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-13 31ABD	314413111030001		31° 44' 13.2"	111° 2' 54.4"	3042	2/27/2020	84.4	S			2/25/2021	82.4	S			2.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 01BBD UNSURV	312740110581301	506506	31° 27' 39.31"	110° 58' 15.31"	3444.16	2/20/2020	21.67	VT			2/18/2021	34.48	VT		TAKEN AT 11 AM WITH BLACK 500	-12.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 05AAC	314321111075001	640384	31° 43' 21.09"	111° 7' 50.83"	3226.08	2/20/2020	17.69	VT			2/18/2021	20.82	VT			-3.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 16BDB UNSURV	312548110551401	536189	31° 25' 47.7"	110° 55' 13.6"	3519	11/20/2019	27.6	S			11/19/2020	24.8	S			2.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 31AAC2UNSURV	313345111024802	551439	31° 33' 44.81"	111° 2' 45.48"	3262.76	2/20/2020	9.32	VT			2/18/2021	9.52	VT		TAKEN AT 11:45 WITH BLACK 500	-0.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 31AAC1UNSURV	313345111024801	551438	31° 33' 44.85"	111° 2' 45.46"	3262.6	2/20/2020	6.89	VT			2/18/2021	7.27	VT		TAKEN WITH BLACK 500 AT 11:30	-0.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 06ABD	312229110565001	631194	31° 22' 28.9"	110° 56' 49.9"	3760	8/26/2020	41.2	V			8/26/2021	42.7	V			-1.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 08ADC UNSURV	312124110493301	510018	31° 21' 23.69"	110° 49' 33.71"	3836.21	11/20/2019	88.8	V			11/19/2020	89.5	V			-0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 04DDD1 UNSUR	312147110482801	625364	31° 21' 46.4"	110° 48' 27.6"	4018	1/30/2020	93.3	V			1/28/2021	93.8	S			-0.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 18CBC	312017110573001	603434	31° 20' 19.7"	110° 57' 26.8"	3957	1/30/2020	203	S			1/28/2021	203.9	S			-0.9
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-14 17ACD	312032110555101	603396	31° 20' 31.9"	110° 55' 50.7"	3825	8/26/2020	10.9	V			8/26/2021	10.8	S			0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-24-15 18BAD UNSURV	312048110504901		31° 20' 41.8"	110° 50' 57.8"	3715	11/20/2019	9.5	V			11/19/2020	9.8	S			-0.3

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 24DDC	312423110574901	500951	31° 24' 21.7"	110° 57' 49.2"	3597	1/29/2020	58.9	V			1/27/2021	61.2	V			-2.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 22CDD2	312426110540201		31° 24' 28.3"	110° 54' 4.7"	3570	2/27/2020	31.4	S			2/19/2021	26.2	S			5.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-15 19ABB	312513110505401	805426	31° 25' 13.3"	110° 50' 53.7"	3885	1/30/2020	143.7	V			1/28/2021	143.6	S			0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 15CCB1	312523110542801	607491	31° 25' 27.1"	110° 54' 28.3"	3554	11/20/2019	53.6	S			11/19/2020	46.5	V			7.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 16BCC	312545110552801	619649	31° 25' 43.2"	110° 55' 26.4"	3509	11/20/2019	20.1	S			11/19/2020	16.9	S			3.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-15 31CAC	312258110510901	625359	31° 22' 57.2"	110° 51' 9.2"	3650	11/20/2019	32.5	S			11/19/2020	24.8	V			7.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 31DAB	312301111024801	634030	31° 23' 1.2"	111° 2' 47.4"	4040	1/29/2020	319.4	V			1/27/2021	319.6	V			-0.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36BDD	312308110580601	506340	31° 23' 8.38"	110° 58' 4.45"	3700.19	2/20/2020	160.28	VT			2/18/2021	158.88	VT		TAKEN AT 9:40 WITH BLACK 500	1.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 36ADB	312316110574801	603432	31° 23' 14.4"	110° 57' 42.7"	3675	1/30/2020	135.4	V			1/28/2021	130.4	V			5.0
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 25CBB	312353110522401	800221	31° 23' 52.6"	110° 52' 24.1"	3604	2/27/2020	59.1	S			2/19/2021	45.3	V			13.8
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-14 26ACD	312359110524801	801262	31° 23' 58.9"	110° 52' 48.9"	3610	11/20/2019	70.2	S			11/19/2020	52.6	V			17.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 35DDB UNSURV	312756110584801	619351	31° 27' 56.9"	110° 58' 48.5"	3435	1/29/2020	23.4	S			1/26/2021	20.3	S			3.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 34ADD UNSURV	312818110594501	619367	31° 28' 19.7"	110° 59' 39.7"	3401	1/29/2020	15.1	S			1/26/2021	15.8	S			-0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 36AD UNSURV	312823110573501	619352	31° 28' 24.4"	110° 57' 33.3"	3471	11/20/2019	43.7	V			11/19/2020	54.6	V			-10.9
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 12ACD UNSURV	312630110575301	603437	31° 26' 38.4"	110° 57' 49.7"	3478	1/29/2020	24.3	S			1/26/2021	22.9	S			1.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-23-13 08CB UNSURV	312633111023301		31° 26' 31.5"	111° 2' 34.5"	3575	11/20/2019	13.6	S			11/19/2020	13.9	S			-0.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 09DA2 UNSURV	313137111004301	619348	31° 31' 34.7"	111° 0' 37.8"	3327	1/29/2020	9.3	S			1/26/2021	10.9	S			-1.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 05DD2 UNSURV	313211111014001	619360	31° 32' 12.2"	111° 1' 39.8"	3307	1/29/2020	15.7	S			1/26/2021	15.8	S			-0.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 27AAB UNSURV	312929110594201	619353	31° 29' 29.5"	110° 59' 43.7"	3379	1/29/2020	10.8	S			1/26/2021	13.1	S			-2.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 19DCC1 UNSUR	312946111025301	524009	31° 29' 41.4"	111° 2' 58.9"	3490	1/29/2020	199	V			1/26/2021	199.6	S			-0.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-22-13 09DCC UNSURV	313120111005801	605206	31° 31' 20.4"	111° 0' 58.5"	3340	11/20/2019	21.7	S			11/19/2020	19.4	S			2.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 19DBC	313506111030701	617995	31° 35' 6.7"	111° 3' 6.1"	3255	1/26/2020	21.6	S			1/26/2021	20.9	S			0.7
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-12 24AAA	313539111033701	509495	31° 35' 39.8"	111° 3' 40"	3378	11/20/2019	155.2	V			11/19/2020	155.6	V			-0.4
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 30DCA	313406111330201	629110	31° 34' 8.1"	111° 2' 56"	3250	11/20/2019	11.6	S			11/19/2020	11.3	S			0.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 32BCC	313845111023101	610533	31° 38' 46"	111° 2' 33.6"	3149	11/20/2019	34	S			11/19/2020	42.1	S			-8.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 26CAD2	313915111052001	804782	31° 39' 26.6"	111° 5' 14.1"	3290	1/26/2020	177.7	V			1/27/2021	175.1	V			2.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 05CCB	313735111023701	608125	31° 37' 35.27"	111° 2' 36.07"	3180.46	10/8/2019	16.06	VT			11/16/2020	18.15	VT			-2.1
SANTA CRUZ AMA	SANTA CRUZ AMA	D-21-13 06DAA	313747111023901	608112	31° 37' 46.3"	111° 2' 39.5"	3175	1/26/2020	22.8	S			1/26/2021	24.3	S			-1.5
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-11 11DCC2	314152111111601	801469	31° 41' 53.1"	111° 11' 15.6"	3380	1/28/2020	48.8	S			1/25/2021	55.1	V			-6.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 09DDD	314157111003701	611218	31° 41' 54.6"	111° 0' 36.3"	3450	2/27/2020	246.7	V			2/25/2021	247	V			-0.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 07ACD	314214111025601	617275	31° 42' 15.9"	111° 2' 55.7"	3063	2/27/2020	25.1	S			2/25/2021	29.4	S			-4.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-11 21DAA	314024111125301	606136	31° 40' 23.1"	111° 12' 51.8"	3455	1/28/2020	46.3	S			1/25/2021	62.9	S			-16.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 34BCC	314401111124501	616247	31° 44' 1.5"	111° 12' 44.9"	3640	1/28/2020	178	V			1/27/2021	177.7	V			0.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-13 30DCA2	314434111025501		31° 44' 33.4"	111° 2' 57.4"	3038	2/27/2020	80	V			2/25/2021	82.2	V			-2.2
SANTA CRUZ AMA	SANTA CRUZ AMA	D-19-11 23CCB	314526111114901	625265	31° 45' 27.1"	111° 11' 47.3"	3570	1/28/2020	170.9	V			1/27/2021	168.3	V			2.6
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-13 06CBA	314303111032801	627932	31° 43' 1.1"	111° 3' 24.1"	3064	1/27/2020	51.6	S			1/25/2021	55.9	S			-4.3
SANTA CRUZ AMA	SANTA CRUZ AMA	D-20-12 05ADB2	314318111075401	621510	31° 43' 17.9"	111° 7' 56"	3224	1/28/2020	21.9	S			1/27/2021	22.7	S			-0.8
TIGER WASH BASIN	TIGER WASH	B-05-09 19BDD	334545113142001	612691	33° 45' 44.7"	113° 14' 20.1"	1996	10/28/2019	30.1	V	P		10/26/2020	36.9	V	P		-6.8
TIGER WASH BASIN	TIGER WASH	B-05-09 S02BBD	334830113102401	612682	33° 48' 30.1"	113° 10' 25.2"	2168	10/28/2019	219.2	V	P		10/26/2020	219.7	V	P		-0.5
TONTO CREEK BASIN	TONTO CREEK	A-06-11 05CAD	335322111150701	601024	33° 53' 23.4"	111° 15' 6.4"	2723	10/21/2019	83.2	V	P		10/19/2020	79.6	V	P		3.6
TONTO CREEK BASIN	TONTO CREEK	A-06-10 14ABC2	335205111180601	560965	33° 52' 2.2"	111° 18' 5.4"	2316	10/21/2019	13.5	S			10/19/2020	15.7	S			-2.2
TONTO CREEK BASIN	TONTO CREEK	A-09-10 32BDB	340458111211801	601022	34° 4' 58.5"	111° 21' 18.1"	3030	11/21/2019	39.3	S			11/16/2020	39.5	S			-0.2
TONTO CREEK BASIN	TONTO CREEK	A-08-10 20ABA	340143111211001	601016	34° 1' 43.9"	111° 21' 10.1"	3060	4/29/2020	12.3	S			5/4/2021	49.3	S			-37.0
TONTO CREEK BASIN	TONTO CREEK	A-10-10 11ACB	341336111174801	509660	34° 13' 35.1"	111° 17' 51.41"	4821.29	10/8/2019	7.53	VT			10/29/2020	8.24	VT		BLUE 500 09:30	-0.7
TONTO CREEK BASIN	TONTO CREEK	A-10-10 11BBA	341350111181301	620871	34° 13' 49.7"	111° 18' 13.2"	4960	11/21/2019	39	S			11/16/2020	35.7	V			3.3
TONTO CREEK BASIN	TONTO CREEK	A-09-10 20BAB	340654111211201	601014	34° 6' 54.5"	111° 21' 13.4"	3190	10/21/2019	70.9	V	P		10/19/2020	68.2	S	P		2.7
TONTO CREEK BASIN	TONTO CREEK	A-09-10 05AAA	340932111204001		34° 9' 31"	111° 20' 41.9"	4180	10/21/2019	89.7	V			10/19/2020	88.7	V			1.0
TONTO CREEK BASIN	TONTO CREEK	A-11-10 35CCD	341447111182501	631835	34° 14' 53"	111° 18' 18.9"	5079	11/21/2019	125.8	V			11/16/2020	118.9	V			6.9
TONTO CREEK BASIN	TONTO CREEK	A-11-11 26ADD PZ1	341605111111301	568681	34° 16' 4.92"	111° 11' 10.47"	5028.08	11/22/2019	74.1	S			11/16/2020	71.2	S			2.9
TONTO CREEK BASIN	TONTO CREEK	A-12-12 33BCD	342259111054701	519042	34° 22' 58.7"	111° 5' 46.6"	6340	10/21/2019	190	V			10/19/2020	190.1	V			-0.1
TONTO CREEK BASIN	TONTO CREEK	A-11-11 26ADD PZ2	341605111111302	568681	34° 16' 4.92"	111° 11' 10.47"	5028.08	11/22/2019	32.2	S			11/16/2020	30.1	S			2.1
TONTO CREEK BASIN	TONTO CREEK	A-11-10 26DAB	341558111173301	565428	34° 15' 58.14"	111° 17' 33.03"	4971.9	2/19/2020	80.79	VT		TAKEN WITH BLACK 500 AT 10:30	3/5/2021	85.83	VT		BLUE 500 10:00	-5.0
TONTO CREEK BASIN	TONTO CREEK	A-11-10 26BBC	341623111182401	577330	34° 16' 22.5"	111° 18' 23.5"	5120	11/21/2019	131.1	S			11/16/2020	143.2	V			-12.1
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ1	321806111150401	508422	32° 18' 7.5"	111° 15' 6.09"	2144	11/14/2019	299.4	V			11/13/2020	291.4	V			8.0
TUCSON AMA	AVRA VALLEY	D-13-11 17BCB PZ2	321806111150402	508422	32° 18' 7.5"	111° 15' 6.09"	2144	11/14/2019	303	V			11/13/2020	295.1	V			7.9
TUCSON AMA	AVRA VALLEY	D-13-11 11ACC2	321851111112601	804090	32° 18' 51.5"	111° 11' 25.6"	2393	1/28/2020	234.1	V			1/26/2021	239.2	V			-5.1
TUCSON AMA	AVRA VALLEY	D-12-11 20AAA	322245111140401	504485	32° 22' 49.6"	111° 14' 0.3"	2019	1/28/2020	215	V			1/26/2021	211.5	V			3.5
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ1	322444111095401	508652	32° 24' 45.5"	111° 9' 53.7"	2041	11/14/2019	211.8	V			11/12/2020	212.5	S			-0.7
TUCSON AMA	AVRA VALLEY	D-12-11 01DDA PZ2	322444111095402	508652	32° 24' 45.5"	111° 9' 53.7"	2041	11/14/2019	95.1	V			11/12/2020	96.4	S			-1.3
TUCSON AMA	AVRA VALLEY	D-11-11 34ADD2	322554111115801	604805	32° 25' 55"	111° 11' 57.7"	2009	1/27/2020	208.6	V			1/26/2021	206.8	V			1.8
TUCSON AMA	AVRA VALLEY	D-11-10 17ADD	322825111202001	615763	32° 28' 27.8"	111° 20' 17.9"	1884	1/27/2020	152.2	V			1/26/2021	156.1	V			-3.9
TUCSON AMA	AVRA VALLEY	D-11-10 25DDA2	322621111161301	615764	32° 26' 18.9"	111° 16' 11.1"	1953	1/27/2020	167.3	V			1/26/2021	164.8	V			2.5
TUCSON AMA	AVRA VALLEY	D-11-10 27DAA	322636111181401	566419	32° 26' 34.6"	111° 18' 17.2"	1935	1/27/2020	178.2	V			1/26/2021	177.2	V			1.0
TUCSON AMA	AVRA VALLEY	D-11-10 22ADD1	322732111181701	626687	32° 27' 30.6"	111° 18' 15.5"	1914	1/27/2020	153	V			1/26/2021	150.3	V			2.7
TUCSON AMA	AVRA VALLEY	D-11-11 11DDB	322923111112101	600235	32° 29' 3.9"	111° 11' 10.3"	2148	1/27/2020	400.6	V			1/28/2021	399.4	V			1.2
TUCSON AMA	AVRA VALLEY	D-11-11 09ACD PZ1	322924111131801	504996	32° 29' 24.1"	111° 13' 16.7"	2043	11/13/2019	311.3	V			11/12/2020	310.5	V			0.8
TUCSON AMA	AVRA VALLEY	D-11-11 09ACD PZ2	322924111131802	504996	32° 29' 24.1"	111° 13' 16.7"	2043	11/13/2019	294.8	V			11/12/2020	293.3	V			1.5
TUCSON AMA	AVRA VALLEY	D-10-11 17CAB2	323338111141501	638306	32° 33' 38.8"	111° 14' 13.3"	2136	1/27/2020	427.8	V			1/27/2021	427.4	V			0.4
TUCSON AMA	AVRA VALLEY	D-10-10 20DCC	323152111200401	618728	32° 31' 50.8"	111° 20' 6.5"	1862	1/27/2020	168.9	V			1/27/2021	168.2	V			0.7
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ1	323307111151901	504994	32° 32' 59.59"	111° 15' 19.6"	2043	11/13/2019	341.9	V			11/12/2020	341	V			0.9
TUCSON AMA	AVRA VALLEY	D-10-11 19BDB PZ2	323307111151902	504994	32° 32' 59.6"	111° 15' 19.6"	2043	11/13/2019	341.8	V			11/12/2020	341	V			0.8
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ1	323623111201201	504993	32° 36' 24.1"	111° 20' 11.8"	1850	11/13/2019	250.7	V			11/12/2020	248.8	V			1.9
TUCSON AMA	AVRA VALLEY	D-09-10 29CDA PZ2	323623111201202	504993	32° 36' 24.1"	111° 20' 11.8"	1850	11/13/2019	196.7	V			11/12/2020	195.1	V			1.6
TUCSON AMA	AVRA VALLEY	D-10-10 05DAD	323438111194501	624751	32° 34' 40.8"	111° 19' 43.9"	1855	1/27/2020	194.8	V			1/25/2021	195	V			-0.2
TUCSON AMA	AVRA VALLEY	D-09-10 19ADD	323730111204501	615627	32° 37' 30.9"	111° 20' 42.1"	1836	1/27/2020	201.3	V			1/25/2021	199.7	V			1.6
TUCSON AMA	AVRA VALLEY	D-09-10 19AAA	323753111204601	804195	32° 37' 55.4"	111° 20' 42.9"	1840	1/27/2020	184.5	V			1/25/2021	184.8	V			-0.3
TUCSON AMA	AVRA VALLEY	D-09-13 20DBD	323759111011501	615648	32° 37' 54.3"	111° 1' 19.5"	3340	1/28/2020	307.8	V			1/26/2021	307.6	V			0.2
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ1	323759111201201	504992	32° 37' 58.7"	111° 20' 11.6"	1854	11/13/2019	251.1	V			11/10/2020	250.6	V			0.5
TUCSON AMA	AVRA VALLEY	D-09-10 17CDD PZ2	323759111201202	504992	32° 37' 58.7"	111° 20' 11.6"	1854	11/13/2019	222.3	V			11/10/2020	221.7	V			0.6
TUCSON AMA	AVRA VALLEY	D-09-09 01BCC PZ1	324007111224501	504989	32° 40' 9.8"	111° 22' 37.4"	1858	11/13/2019	292.5	V			11/10/2020	292.5	V			0.0
TUCSON AMA	AVRA VALLEY	D-08-11 31BBB	324157111153101	607144	32° 41' 58.5"	111° 15' 30.1"	2105	1/30/2020	454.5	V			1/28/2021	454.9	V			-0.4
TUCSON AMA	AVRA VALLEY	D-08-12 19DDA	324304111082101	804174	32° 43' 2.1"	111° 8' 16.7"	2672	1/30/2020	9.7	S			1/26/2021	20.1	S			-10.4
TUCSON AMA	AVRA VALLEY	D-07-13 15CAC1	324919110585701		32° 49' 14.8"	110° 59' 36.7"	3510	1/30/2020	24.9	S			1/26/2021	30.8	S			-5.9
TUCSON AMA	AVRA VALLEY	D-21-10 19DAD	313506111210901		31° 35' 5.88"	111° 21' 6.94"	3576.84	2/20/2020	12.79	VT			2/18/2021	29.11	VT		TAKEN AT 14:20 WITH BLACK 500	-16.3
TUCSON AMA	AVRA VALLEY	D-21-10 35CCD	313305111174901		31° 33' 4.73"	111° 17' 46.48"	3699.36	2/20/2020	34.83	VT			2/18/2021	36.58	VT		TAKEN WITH BLACK 500 AT 15:55	-1.8
TUCSON AMA	AVRA VALLEY	D-21-10 29ADB	313433111201601		31° 34' 32.74"	111° 20' 13.63"	3609.3	2/20/2020	8.59	VT			2/18/2021	12.68	VT		TAKENT AT 15:10 WITH BLACK 500	-4.1
TUCSON AMA	AVRA VALLEY	D-22-08 34ABA	312827111303301	630270	31° 28' 35"	111° 30' 32.1"	3435	2/27/2020	202.8	V			2/25/2021	204.6	V			-1.8
TUCSON AMA	AVRA VALLEY	D-11-12 09CDB1	322909111073601	809112	32° 29' 9.2"	111° 7' 35.8"	2595	1/29/2020	339.1	V			1/28/2021	339.7	V			-0.6
TUCSON AMA	AVRA VALLEY	D-20-08 35BDB	313850111295701	630265	31° 38' 46.3"	111° 29' 55.8"	3463	1/31/2020	467.6	V			1/28/2021	467.8	V			-0.2
TUCSON AMA	AVRA VALLEY	D-21-10 22ABA	313538111181801	510465	31° 35' 37.9"	111° 18' 18.3"	3735	1/28/2020	104.8	S			1/25/2021	98.3	S			6.5
TUCSON AMA	AVRA VALLEY	D-20-09 17ABA	314135111263101	630266	31° 41' 38.5"	111° 26' 30.3"	3254	1/30/2020	309.3	V			1/28/2021	310.1	V			-0.8
TUCSON AMA	AVRA VALLEY	D-19-09 03ACA	314830111243101	634260	31° 48' 29.1"	111° 24' 30.5"	3052	1/30/2020	320.6	V			1/27/2021	321.7	V			-1.1
TUCSON AMA	AVRA VALLEY	D-19-09 18AAA	314657111271501	607356	31° 46' 55.8"	111° 27' 17.3"	3277	1/30/2020	440.3	V			1/27/2021	440.2	V			0.1
TUCSON AMA	AVRA VALLEY	D-18-09 11BAC	315257111234501	624829	31° 52' 59"	111° 23' 47"	2915	1/30/2020	245.1	V			1/27/2021	245.6	V			-0.5
TUCSON AMA	AVRA VALLEY	D-17-09 02DDA	315825111230601	612492	31° 58' 30.2"	111° 23' 8.3"	2744	1/30/2020	188.2	V			1/27/2021	183.9	V			4.3
TUCSON AMA	AVRA VALLEY	D-16-10 34BAA	320007111183601	621997	32° 0' 0.9"	111° 18' 33.5"	3096	2/27/2020	602	V			2/25/2021	601.5	V			0.5
TUCSON AMA	AVRA VALLEY	D-15-10 33CBC2	320434111200701	603530	32° 4' 33.5"	111° 20' 6.5"	2536	1/29/2020	151.6	V			1/27/2021	151.8	V			-0.2
TUCSON AMA	AVRA VALLEY	D-15-10 35AAA	320511111171201	612020	32° 5' 12.8"	111° 17' 14.9"	2529.6	1/29/2020	217.7	V			1/27/2021	217.8	V			-0.1
TUCSON AMA	AVRA VALLEY	D-15-11 05CCC	320850111145901	610699	32° 8' 51"	111° 15' 1.1"	2368	1/29/2020	259.7	V			1/27/2021	254.4	V			5.3
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ1	321220111111201	509590	32° 12' 23"	111° 11' 12.9"	2374	11/14/2019	309.7	V			11/13/2020	302.9	V			6.8
TUCSON AMA	AVRA VALLEY	D-14-11 14DDB PZ2	321220111111202	509590	32° 12' 23"	111° 11' 12.9"	2374	11/14/2019	309.3	V			11/13/2020	302.5	V			6.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26CBB2	321614110533001	519320	32° 16' 14.1"	110° 53' 28.9"	2411	2/24/2020	44.2	V			2/22/2021	61.4	S			-17.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30CAA1	321616110571001	620292	32° 16' 15.5"	110° 57' 10.6"	2357	12/27/2019	178.8	V			12/28/2020	179.1	S			-0.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30BBD	321635110572602	620294	32° 16' 33.2"	110° 57' 23.5"	2345	2/26/2020	168.1	V			2/23/2021	165.6	V			2.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 29ABB	321639110560401	610524	32° 16' 40.3"	110° 56' 3.2"	2353	2/24/2020	144.1	V			2/22/2021	145.6	V			-1.5
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 17BDD2	321806111021501	510904	32° 18' 5.4"	111° 2' 15.2"	2237	1/27/2020	148.5	V			1/26/2021	153.6	V			-5.1
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 13BBA	321830110583201	631710	32° 18' 29.7"	110° 58' 29.9"	2398	1/27/2020	259.1	V			1/26/2021	257.1	V			2.0
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 24DBD2	321703110575401	620322	32° 17' 2.5"	110° 57' 54.2"	2320	12/27/2019	154.2	V			12/28/2020	154.9	S			-0.7
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19BBB1	321735110573301	808475	32° 17' 36"	110° 57' 36.5"	2321.3	2/26/2020	139.9	V			2/23/2021	141.8	V			-1.9
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26BBB	321647110532201	620156	32° 16' 44.5"	110° 53' 27.4"	2464	2/24/2020	68.7	V			2/22/2021	69.8	S			-1.1
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 20CCC	321647110563301	618705	32° 16' 47.84"	110° 56' 31.64"	2348.16	10/7/2019	140.93	VT			11/17/2020	142.29	VT		TAKEN AT 14:45 WITH BLACK 500	-1.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDD	321649110564001	618684	32° 16' 48.7"	110° 56' 38.2"	2344	2/24/2020	140	V			2/23/2021	143.4	V			-3.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDB2	321653110564801	618686	32° 16' 53.6"	110° 56' 48.4"	2339	2/24/2020	136	V			2/23/2021	141.3	V			-5.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 19DDA2	321654110564101	618723	32° 16' 54.5"	110° 56' 40.4"	2342	2/24/2020	135.5	V			2/23/2021	147.7	V			-12.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 26DCC	321604110525601	519317	32° 15' 59.7"	110° 52' 59.1"	2421	2/24/2020	55.7	V			2/22/2021	70.3	S			-14.6
TUCSON AMA	UPPER SANTA CRUZ	D-12-14 07ABC	322422110565901	509165	32° 24' 22.9"	110° 56' 57.7"	2597	1/28/2020	237.4	V			1/26/2021	239.2	V			-1.8
TUCSON AMA	UPPER SANTA CRUZ	D-11-14 04BBC2	323029110553401	807195	32° 30' 29.3"	110° 55' 34.1"	3158	1/28/2020	254.7	V			1/26/2021	256.3	V			-1.6
TUCSON AMA	UPPER SANTA CRUZ	D-10-14 29DCD	323139110550801	615723	32° 31' 39.3"	110° 55' 8.6"	3273	1/28/2020	339.8	V			1/26/2021	341.1	V			-1.3
TUCSON AMA	UPPER SANTA CRUZ	D-10-13 12DDA	323418110565401	615717	32° 34' 21.1"	110° 56' 56"	3430	1/28/2020	459.4	V			1/28/2021	460.6	V			-1.2
TUCSON AMA	UPPER SANTA CRUZ	D-10-14 12BBC	323456110514001	202396	32° 34' 56.2"	110° 51' 40.4"	3755	1/28/2020	787.2	V			1/28/2021	788.6	V			-1.4
TUCSON AMA	UPPER SANTA CRUZ	D-18-14 30ABA	315023110570201	540451	31° 50' 22.4"	110° 56' 0"	3053	1/28/2020	351.8	V			1/28/2021	354	V			-2.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-15 32DAD	321519110492901	626408	32° 15' 19.2"	110° 49' 28.6"	2497.5	2/24/2020	31.7	V			2/22/2021	52.7	S			-21.0
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 14CAC	320216110405901	209531	32° 2' 16.17"	110° 40' 58.77"	3178.92	2/25/2020	48.51	VT			2/10/2021	53.7	VT		TAKEN WITH BLACK 500 AT 12:45	-5.2
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 15ABD	320249110413501	209530	32° 2' 48.68"	110° 41' 35.27"	3147.46	2/25/2020	217.28	VT			2/10/2021	228.98	VT		TAKEN AT 12:00 WITH BLACK 500	-11.7
TUCSON AMA	UPPER SANTA CRUZ	D-17-14 21ADD	315614110543601	216391	31° 56' 14.01"	110° 54' 35.57"	2815.86	2/10/2020	224.85	S			2/25/2021	225	V			-0.2
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 29BCC	314454111023701	623122	31° 44' 55.39"	111° 2' 35.36"	3014.8	2/20/2020	71.62	VT			2/18/2021	73.95	VT		TAKEN WITH BLACK 500 AT 17:30	-2.3
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 21BAA	314606111011301	623123	31° 46' 7.91"	111° 1' 10.27"	2966.59	2/20/2020	91.58	VT			2/18/2021	96.07	VT		TAKEN WITH BLACK 500 AT 17:10	-4.5
TUCSON AMA	UPPER SANTA CRUZ	D-19-13 09CAA	314728111011101	623128	31° 47' 30.8"	111° 1' 8.6"	2955	1/28/2020	129.6	V			1/28/2021	130	V			-0.4

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
TUCSON AMA	UPPER SANTA CRUZ	D-18-13 24BCB2 UNSRV	315106110583401	624011	31° 51' 2.3"	110° 58' 31.4"	2870	3/5/2020	246.9	V			2/2/2021	251.3	V			-4.4
TUCSON AMA	UPPER SANTA CRUZ	D-14-15 01ADD7	321436110451801		32° 14' 35.6"	110° 45' 19.1"	2600	12/26/2019	18.4	V			12/28/2020	30.2	V			-11.8
TUCSON AMA	UPPER SANTA CRUZ	D-17-15 02DCD	315840110463701		31° 58' 40.3"	110° 46' 36.4"	3198	1/29/2020	557.4	V			1/27/2021	558.8	V			-1.4
TUCSON AMA	UPPER SANTA CRUZ	D-16-13 34AAB2	315958110595201	607785	32° 0' 2.1"	110° 59' 51.8"	2818	1/31/2020	293.2	V			1/28/2021	293.5	V			-0.3
TUCSON AMA	UPPER SANTA CRUZ	D-16-14 S06CCD	320335110572701	632691	32° 3' 34.6"	110° 57' 25.9"	2580	1/31/2020	50.4	V			1/27/2021	55.8	V			-5.4
TUCSON AMA	UPPER SANTA CRUZ	D-16-16 09DCD2	320253110423701	504558	32° 2' 53.8"	110° 42' 35.9"	3235	1/29/2020	595.4	V			1/27/2021	598.8	V			-3.4
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 25DBC2	320533110454901	615639	32° 5' 34.6"	110° 45' 47.8"	3029	1/29/2020	455.2	V			1/27/2021	457	V			-1.8
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ2	320402110502802		32° 4' 5.1"	110° 50' 28.4"	2867	1/29/2020	339.77	V			1/27/2021	341.17	V			-1.4
TUCSON AMA	UPPER SANTA CRUZ	D-16-15 05CBC PZ3	320402110502803		32° 4' 5.1"	110° 50' 28.4"	2867	1/29/2020	309.85	V			1/27/2021	311.45	V			-1.6
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ1	320732110492201		32° 7' 32.8"	110° 49' 22.9"	2842	1/29/2020	340.69	V			1/27/2021	341.79	V			-1.1
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ2	320732110492202		32° 7' 32.8"	110° 49' 22.9"	2842	1/29/2020	341.65	V			1/27/2021	342.75	V			-1.1
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 16CBB PZ3	320732110492203		32° 7' 32.8"	110° 49' 22.9"	2842	1/29/2020	385.14	V			1/27/2021	381.34	V			3.8
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 06DCB2	320904110570401	616565	32° 9' 5.1"	110° 57' 4.2"	2528	1/30/2020	193.3	S			1/26/2021	167.6	V			25.7
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 03DAD	320910110533001	611361	32° 9' 11"	110° 53' 31"	2646	1/28/2020	371.9	V			2/2/2021	368.6	V			3.3
TUCSON AMA	UPPER SANTA CRUZ	D-15-14 06CAA	320916110570701	616564	32° 9' 16.8"	110° 57' 6.4"	2524	1/30/2020	97.1	V			1/26/2021	96.4	V			0.7
TUCSON AMA	UPPER SANTA CRUZ	D-15-15 06BBB1	320941110512201	621584	32° 9' 41.7"	110° 51' 24.1"	2715	2/5/2020	369.2	V			1/29/2021	369.5	V			-0.3
TUCSON AMA	UPPER SANTA CRUZ	D-14-16 19CBC	321140110451501	808558	32° 11' 44.2"	110° 45' 17.1"	2962	1/29/2020	247.9	V			1/27/2021	248.5	V			-0.6
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ1	321229110553201		32° 12' 29.5"	110° 55' 32.5"	2480	1/30/2020	233.6	V			1/26/2021	231.8	V			1.8
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ2	321229110553202		32° 12' 29.5"	110° 55' 32.5"	2480	1/30/2020	221	V			1/26/2021	219.8	V			1.2
TUCSON AMA	UPPER SANTA CRUZ	D-14-14 16CCC PZ3	321229110553203		32° 12' 29.5"	110° 55' 32.5"	2480	1/30/2020	233.7	V			1/26/2021	233.3	V			0.4
TUCSON AMA	UPPER SANTA CRUZ	D-14-15 15CAA	321245110475601		32° 12' 42.8"	110° 47' 52.5"	2718	9/29/2020	313	V			9/29/2021	308.2	V			4.8
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 28AAC	321635110544601		32° 16' 35.2"	110° 54' 45.8"	2387	2/24/2020	101	V			2/22/2021	109.3	S			-8.3
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 35BAD	321545110530401	636082	32° 15' 44.8"	110° 53' 4.8"	2430	2/24/2020	131.6	V			2/22/2021	140	S			-8.4
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 34AAD	321546110533701	806473	32° 15' 47.1"	110° 53' 37.5"	2420	2/24/2020	148.3	V			2/22/2021	155.2	S			-6.9
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 30CCC2	321559110573401	620282	32° 15' 58.5"	110° 57' 35.4"	2350	12/27/2019	179.3	V			12/28/2020	176.4	S			2.9
TUCSON AMA	UPPER SANTA CRUZ	D-13-13 32CCC	321507111024001	635619	32° 15' 6.9"	111° 2' 40.6"	2468	1/27/2020	235.6	V			1/26/2021	235.4	V			0.2
TUCSON AMA	UPPER SANTA CRUZ	D-13-14 35CCA	321514110531701	620140	32° 15' 14.8"	110° 53' 16.8"	2454	2/24/2020	221.8	V			2/22/2021	218.6	V			3.2
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-07-04 07BCC	335754112430301	628115	33° 57' 53.8"	112° 43' 2.7"	2055	10/22/2019	15.9	V			10/23/2020	15.3	S			0.6
UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	B-07-05 03DCB1	335828112453801	605607	33° 58' 20.1"	112° 45' 39.4"	2160	10/22/2019	133.3	V			10/23/2020	133.7	S			-0.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-16-20 21DDD	320119110175301	213251	32° 1' 19"	110° 17' 53.4"	3505	11/6/2019	36.7	S			11/5/2020	38	S			-1.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 26ADC	312405110103101	553330	31° 24' 6.4"	110° 10' 36.2"	4485	11/7/2019	240.9	V			11/3/2020	243.2	V			-2.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 24DBB	313010110155301	595127	31° 30' 9.5"	110° 15' 53.3"	4645	11/8/2019	462.9	V			11/3/2020	466.6	V			-3.7
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-15-21 01BBC2	320947110094701	646835	32° 9' 46.8"	110° 9' 46.6"	4365	11/6/2019	183.6	V			11/5/2020	180.1	V			3.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-22 27DCA	315518110045801	565751	31° 55' 17.8"	110° 4' 55.8"	4605	11/7/2019	695.7	V			11/6/2020	693.6	V			2.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-20 30CAB	315019110203501	598675	31° 50' 18.65"	110° 20' 35.19"	4541.22	2/5/2020	410.28	VT		TAKEN AT 13:05 WITH BLACK 500	2/10/2021	410.37	VT		TAKEN AT 10 AM WITH BLACK 500	-0.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-19 36ADC	314940110212301	593469	31° 49' 40.17"	110° 21' 20"	4702.6	2/5/2020	240.72	VT		TAKEN AT 12:15 WITH BLACK 500	2/10/2021	232.65	VT		TAKEN AT 11:00 WITH BLACK 500	8.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-19 25DCB1	315005110212501	626887	31° 50' 4.65"	110° 21' 22.45"	4699.21	2/5/2020	82.83	VT		TAKEN WITH BLACK 500 AT 13:30	2/10/2021	84.05	VT		TAKEN WITH BLACK 500 AT 10:30	-1.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-24-22 20BBA	312006110075501		31° 20' 3.7"	110° 8' 5.7"	4295	11/8/2019	42.1	V			11/4/2020	42.1	V			0.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 25BBC	312421110041001	632053	31° 24' 19.4"	110° 4' 12.5"	4380	11/8/2019	181.3	V			11/4/2020	181.5	V			-0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-24-23 06AAA1	312244110021601	632051	31° 22' 45.2"	110° 2' 14.5"	4423	11/6/2019	216.6	V			11/4/2020	216	V			0.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 34CCD2	312248110060301	509376	31° 22' 48.7"	110° 6' 4.1"	4250	11/6/2019	23.1	V			11/4/2020	24.2	V			-1.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-24 31CCC	312249109570701	211345	31° 22' 48.2"	109° 57' 6.9"	4780	11/6/2019	294.1	V			11/4/2020	293.9	V			0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 32DDD2	312249110072101	806643	31° 22' 48.2"	110° 7' 22.7"	4248	11/8/2019	39.7	V			11/4/2020	39.7	V			0.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 35CDC	312803110165801	805793	31° 28' 2.9"	110° 17' 8.5"	5005	11/8/2019	40.5	V			11/3/2020	39.3	V			1.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 34ACC	312832110114901	087668	31° 28' 32.1"	110° 11' 50.9"	4410	11/6/2019	213.3	V			11/4/2020	214.4	V			-1.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 36ABB	312852110155201	623583	31° 28' 52.4"	110° 15' 51.3"	4760	11/8/2019	440.8	V			11/3/2020	446.1	V			-5.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-22 07DCC	312619110084801	603003	31° 26' 19.9"	110° 8' 47.5"	4327	11/7/2019	109.8	V			11/3/2020	110.6	V			-0.8
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-23-21 06CCC2	312712110152101		31° 27' 11.2"	110° 15' 22.2"	4840	11/6/2019	25	V			11/3/2020	25.2	V			-0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-22 03CBA	313247110060501	809378	31° 32' 47"	110° 6' 1.9"	4255	11/6/2019	184.5	V			11/4/2020	184.4	V			0.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 23CBA	313009110111101	642816	31° 30' 10"	110° 11' 11.8"	4320	11/6/2019	140.4	V			11/5/2020	141.5	V			-1.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-20 24AAA2	313038110152701	623582	31° 30' 37"	110° 15' 25.9"	4605	11/8/2019	436.5	V			11/3/2020	437.1	V			-0.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-21 18DCD	313041110144301	623581	31° 30' 40.1"	110° 14' 40.3"	4549	11/8/2019	390.7	V			11/3/2020	396.7	V			-6.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-22-18 15CBD	313104110302901	640945	31° 31' 3.9"	110° 30' 31"	5120	1/30/2020	44	V			1/28/2021	45	V			-1.0
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-17 24AAB	313556110334801	648467	31° 35' 56.2"	110° 33' 48.1"	4965	1/29/2020	26.1	V			1/28/2021	27.7	S			-1.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 31BDC	313347110150701	610123	31° 33' 42.6"	110° 15' 3.9"	4440	11/7/2019	312.6	V			11/3/2020	314.5	V			-1.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 34AAA	313404110173101	610125	31° 34' 7.1"	110° 17' 28.3"	4566	11/7/2019	452.1	V			11/3/2020	453.3	V			-1.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-21 27CAA	313425110115401	805650	31° 34' 26.3"	110° 11' 51.4"	4250	11/5/2019	71	V			11/2/2020	67.8	V			3.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 SO5ABC	313825110195801	603068	31° 38' 24.4"	110° 19' 52.1"	4335	11/5/2019	221.7	V			11/2/2020	221.6	V			0.1
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-20 16AAC1	313639110183501		31° 36' 35.15"	110° 18' 36.12"	4429.82	2/5/2020	303.85	VT		TAKEN AT 13:50 WITH BLACK 500	6/17/2021	304.71	VT		TAKEN AT 10 WITH BLACK 500 TAPE	-0.9
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-21-22 06ACD2	313808110083801		31° 38' 9.8"	110° 8' 35.4"	4130	11/5/2019	28.7	V			11/2/2020	28.9	V			-0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-23 35ACD	314417109575101	616270	31° 44' 18"	109° 57' 51.4"	4880	11/5/2019	291.2	V			11/2/2020	291.6	V			-0.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-22 11ADB	314239110035301	616498	31° 42' 41.5"	110° 3' 49.8"	4550	11/5/2019	425.8	V			11/2/2020	424.3	V			1.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 07BDB	314239110204301		31° 42' 43.5"	110° 20' 41.4"	4345	1/28/2020	231.4	V			1/27/2021	231.7	V			-0.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-20 02DDD	314300110155401	616332	31° 43' 0"	110° 15' 53.9"	4183	11/5/2019	103.8	V			11/2/2020	104.4	V			-0.6
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-18 03CAA	314323110293901	642963	31° 43' 24.2"	110° 29' 39.8"	4895	1/28/2020	142.2	V			1/27/2021	142.6	V			-0.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-20-18 03AAC	314342110291501	647680	31° 43' 42.3"	110° 29' 20.2"	4922	1/28/2020	182.9	V			1/27/2021	183.4	V			-0.5
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-23 32DBB	314927110010301		31° 49' 28.3"	110° 1' 3.3"	4840	11/8/2019	611.4	V			11/5/2020	611.6	V			-0.2
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-19-21 12DBB2	314738110090601	616255	31° 47' 38"	110° 9' 6.7"	4044	11/8/2019	221	V			11/5/2020	221.4	V			-0.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-21 28DAA	315019110115001	612550	31° 50' 19.2"	110° 11' 46.5"	3745	11/8/2019	82.3	V			11/5/2020	82.6	S			-0.3
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-18-20 06BDD	315356110203001	623648	31° 54' 0.5"	110° 20' 32.6"	4440	11/5/2019	269.9	V			11/2/2020	273.3	V			-3.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-20 14CCC	315700110164501	808248	31° 57' 1.4"	110° 16' 50.7"	3582	11/7/2019	8.1	S			11/5/2020	9.5	S			-1.4
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-21 32BBA	315508110133401	623646	31° 55' 9.5"	110° 13' 33.1"	3697	11/7/2019	63	V			11/6/2020	71.8	S			-8.8
UPPER SAN PEDRO BASIN	SIERRA VISTA	D-17-19 14ACA	315734110221301		31° 57' 31.9"	110° 22' 21"	4180	11/7/2019	557.7	V			11/6/2020	558.3	V			-0.6
VERDE RIVER BASIN	BIG CHINO	B-17-02 15BAA	345153112273201	526611	34° 51' 53.1"	112° 27' 32.5"	4364	2/26/2020	109.5	V			2/17/2021	110.08	VT			-0.6
VERDE RIVER BASIN	BIG CHINO	B-18-03 26ACC	345502112325501	921236	34° 55' 1.93"	112° 32' 55.46"	4402.78	2/25/2020	151.6	V			2/11/2021	152.24	VT			-0.6
VERDE RIVER BASIN	BIG CHINO	B-18-04 01ABD	345845112380301	921256	34° 58' 45.25"	112° 38' 3.41"	4547.6	2/25/2020	271.1	V			2/11/2021	271.13	VT			0.0
VERDE RIVER BASIN	BIG CHINO	B-18-01 31CCD	345330112243401	228262	34° 53' 30.45"	112° 24' 34.1"	4598.28	2/26/2020	362.5	V			2/17/2021	363.43	VT			-0.9
VERDE RIVER BASIN	BIG CHINO	B-18-01 19ADC	345542112235101	228265	34° 55' 42.2"	112° 23' 51.01"	4637.71	2/26/2020	409.9	V			2/17/2021	410.7	VT			-0.8
VERDE RIVER BASIN	BIG CHINO	B-18-01 28BCD	345450112222301	228266	34° 54' 50.44"	112° 22' 23.46"	4548.09	2/26/2020	342.1	V			2/17/2021	342.89	VT			-0.8
VERDE RIVER BASIN	BIG CHINO	B-17-02 11ABA	345230112261101	228472	34° 52' 30.1"	112° 26' 11.2"	4518.08	2/26/2020	281.2	V			2/17/2021	282.13	VT			-0.9
VERDE RIVER BASIN	BIG CHINO	B-17-02 12CBD	345203112253901	228263	34° 52' 2.96"	112° 25' 39.35"	4459.72	2/26/2020	227.1	V			2/17/2021	227.67	VT			-0.6
VERDE RIVER BASIN	BIG CHINO	B-18-03 35CCA	345353112331301	622503	34° 53' 52.8"	112° 33' 13.3"	4412	8/19/2020	138.8	V			8/24/2021	140.2	V			-1.4
VERDE RIVER BASIN	BIG CHINO	B-15-03 03AAC	344253112333001	906571	34° 42' 52.7"	112° 33' 30.3"	5165	4/17/2020	80	V			3/23/2021	81.2	V			-1.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 14ADA	342600112513401		34° 51' 34.5"	112° 26' 0.2"	4250	11/19/2019	5.7	S			11/19/2020	6.3	S			-0.6
VERDE RIVER BASIN	BIG CHINO	B-15H-04 26DAA	344158112384201	649862	34° 41' 59.3"	112° 38' 41.3"	4797	3/26/2020	140.5	V	P		3/23/2021	139.8	V	P		0.7
VERDE RIVER BASIN	BIG CHINO	B-16-04 16DCD	344549112410901	614807	34° 45' 48.8"	112° 41' 9"	4643	8/19/2020	15	V			8/23/2021	25.1	V			-10.1
VERDE RIVER BASIN	BIG CHINO	B-16-04 27BCB	344435112404301	631901	34° 44' 35.7"	112° 40' 43.9"	4682	3/26/2020	25.3	V			3/23/2021	40.5	V			-15.2
VERDE RIVER BASIN	BIG CHINO	B-16-04 11CAA	344703112392201	605598	34° 47' 2.5"	112° 39' 19.4"	4601	3/26/2020	7.1	V			3/23/2021	10.4	S			-3.3
VERDE RIVER BASIN	BIG CHINO	B-17-05 34DBB	344841112463701	802802	34° 48' 41.2"	112° 46' 36.7"	4875	8/19/2020	14.9	V			8/23/2021	16.7	V			-1.8
VERDE RIVER BASIN	BIG CHINO	B-17-02 06BBB	345338112311801	603912	34° 53' 40.51"	112° 31' 19.62"	4388.33	2/26/2020	138.56	VT		TAKEN AT 12:50 WITH BLACK 500	2/11/2021	138.7	VT		TAKEN AT 10:43 WITH BLUE 500	-0.1
VERDE RIVER BASIN	BIG CHINO	B-18-04 33DDD	345347112405801	622514	34° 53' 46"	112° 40' 56.1"	4654	4/1/2020	164.2	V			3/25/2021	169.9	V			-5.7
VERDE RIVER BASIN	BIG CHINO	B-18-02 31BCB	345423112311901	803390	34° 54' 15.7"	112° 31' 20.2"	4395	8/18/2020	144.6	V			8/25/2021	144.2	V			0.4
VERDE RIVER BASIN	BIG CHINO	B-18-02 27DDA	345449112271101	614831	34° 54' 46.1"	112° 27' 12.6"	4482	8/18/2020	230.1	V			8/25/2021	229	V			1.1
VERDE RIVER BASIN	BIG CHINO	B-17-02 20ABD	345048112292201	801489	34° 50' 49.8"	112° 29' 21.1"	4467	4/15/2020	192.7	V			3/25/2021	193.2	V			-0.5
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04DCB PZ1	345300112283701	524078	34° 52' 55.57"	112° 28' 39.78"	4357.82	2/26/2020	108.23	VT		TAKEN WITH BLACK 500 AT 11:15	2/17/2021	108.38	VT		TAKEN AT 12:22 WITH BLUE 500	-0.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04DCB PZ2	345300112283702	524078	34° 52' 55.57"	112° 28' 39.78"	4357.82	2/26/2020	108.28	VT		TAKEN WITH BLACK 500 AT 11:00	2/17/2021	108.44	VT		TAKEN AT 12:28 WITH BLUE 500	-0.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04DCB PZ3	345300112283703	524078	34° 52' 55.57"	112° 28' 39.78"	4357.82	2/26/2020	108.26	VT		TAKEN WITH BLACK 500 AT 11:05	2/17/2021	108.43	VT		TAKEN AT 12:31 WITH BLUE 500	-0.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04CDA1	345301112283701	609267	34° 52' 56.4"	112° 28' 40.64"	4358.63	2/26/2020	109.48	VT		TAKEN WITH BLACK 500 AT 11:30	2/17/2021	109.63	VT		TAKEN AT 12:04 WITH BLUE 500	-0.2
VERDE RIVER BASIN	BIG CHINO	B-17-02 S04CDA2	345302112283701	524077	34° 52' 56.87"	112° 28' 40.61"	4358.94	2/26/2020	109.15	VT		TAKEN WITH BLACK 500 AT 11:40	2/17/2021	109.32	VT		TAKEN AT 12:11 WITH BLUE 500	-0.2
VERDE RIVER BASIN	BIG CHINO	B-19-03 19CBD	350059112373101	611027	35° 0' 57.7"	112° 37' 31"	4530	8/20/2020	55	V			8/17/2021	54.7	V			0.3
VERDE RIVER BASIN	BIG CHINO	B-18-03 26BDD	345500112324501	803378	34° 55' 2.03"	112° 32' 55.99"	4403.39	2/25/2020	18.1	V			2/11/2021	18.9	VT			-0.8
VERDE RIVER BASIN	BIG CHINO	B-18-03 26BDB1	345507112330901	557247	34° 55' 8"	112° 33' 11.6"	4405	8/18/2020	143.5	V			8/25/2021	141.2	V			2.3
VERDE RIVER BASIN	BIG CHINO	B-18-03 24DAC	345542112312801		34° 55' 39.7"	112° 31' 30"	4435	8/18/2020	176.3	V			8/25/2021	175.7	V			0.6
VERDE RIVER BASIN	BIG CHINO	B-18-03 22ABB1	345615112340301	622522	34° 56' 14.5"	112° 33' 58.9"	4418	8/20/2020	15.8	S			8/24/2021	14.4	S			1.4
VERDE RIVER BASIN	BIG CHINO	B-18-04 16DDA	345629112405201	622506	34° 56' 32.5"	112° 40' 53.2"	4655	8/19/2020	404.3	V			8/24/2021	404.9	V			-0.6
VERDE RIVER BASIN	BIG CHINO	B-18-04 12DDD	345712112374501	622509	34° 57' 11.5"	112° 37' 44.2"	4538	4/17/2020	201.2	V			3/25/2021	197.1	V			4.1
VERDE RIVER BASIN	BIG CHINO	B-18-05 W12CBD	345734112445501	631896	34° 57' 34.4"	112° 44' 55.9"	4850	8/18/2020	132.8	V			3/24/2021	134.3	V			-1.5
VERDE RIVER BASIN	BIG CHINO	B-18-04 09BAD	345755112413201	622507	34° 57' 53.3"	112° 41' 30.3"	4650	8/19/2020	366.7	V	P		8/24/2021	335.4	V	P		31.3
VERDE RIVER BASIN	BIG CHINO	B-20-05 15CCC	350647112471101	624139	35° 6' 46.9"	112° 47' 10.7"	4984	8/20/2020	191.9	V			8/25/2021	192.8	V			-0.9
VERDE RIVER BASIN	BIG CHINO	B-20-05 13DAA	350709112441101	624124	35° 7' 9.7"	112° 44' 10.8"	4606	8/20/2020	68.2	S			8/17/2021	69	V			-0.8
VERDE RIVER BASIN	BIG CHINO	B-20-05 09ADD	350805112471801	624140	35° 8' 9.1"	112° 47' 21.5"	4902	8/25/2020	119.2	V			8/25/2021	118.4	V			0.8
VERDE RIVER BASIN	BIG CHINO	B-19-05 13BBA	350224112445801	624143	35° 2' 24.1"	112° 44' 57.4"	4902	4/16/2020	236.3	V			4/5/2021	239.1	V			-2.8
VERDE RIVER BASIN	BIG CHINO	B-19-04 10BCB	350302112404801	607026	35° 3' 2.5"	112° 40' 48.3"	4529	8/20/2020	20.7	V			8/17/2021	17.2	V			3.5
VERDE RIVER BASIN	BIG CHINO	B-19-04 05CCB	350327112425901	624147	35° 3' 26.8"	112° 42' 58.7"	4649	8/20/2020	134.5	V			8/17/2021	131	V			3.5
VERDE RIVER BASIN	BIG CHINO	B-19-04 04CAC	350332112413701	624118	35° 3' 30.9"	112° 41' 37.3"	4547	8/20/2020	24.8	S			8/17/2021	22.8	V			2.0
VERDE RIVER BASIN	BIG CHINO	B-19-04 03BCD	350341112403901	607028	35° 3' 46.8"	112° 40' 39.2"	4560	8/20/2020	47.9	S			8/17/2021	46.6	V			1.3
VERDE RIVER BASIN	BIG CHINO	B-19-04 04BAC	350356112413901	624125	35° 3' 56.7"	112° 41' 39.3"	4549	8/20/2020	31	S			8/17/2021	28.8	V			2.2
VERDE RIVER BASIN	BIG CHINO	B-20-05 34CDD	350410112464401	644045	35° 4' 11"	112° 46' 44.7"	4930	8/25/2020	153.4	V			8/24/2021	153.5	V			-0.1
VERDE RIVER BASIN	BIG CHINO	B-20-05 35DAD	350423112451101	624137	35° 4' 22.5"	112° 45' 11.1"	4830	8/20/2020	192	V			8/25/2021	192.2	S			-0.2
VERDE RIVER BASIN	BIG CHINO	B-20-04 34ADC	350436112395901	614851	35° 4' 35.8"	112° 39' 58.9"	4694	8/20/2020	186.9	V			8/17/2021	186.9	V			0.0
VERDE RIVER BASIN	BIG CHINO	B-20-04 32BBA	350500112424601	629225	35° 4' 59.9"	112° 42' 46.2"	4588	8/20/2020	47.1	S			8/17/2021	45.6	V			1.5
VERDE RIVER BASIN	BIG CHINO	B-20-04 30AAD	350535112432701	607032	35° 5' 41.5"	112° 43' 5.8"	4571	8/20/2020	47.8	S			8/17/2021	45.7	V			2.1
VERDE RIVER BASIN	BIG CHINO	B-20-05 29BBA	350551112491301	644048	35° 5' 51.8"	112° 49' 13.4"	5355	8/25/2020	567.5	V			8/24/2021	568.2	V			-0.7
VERDE RIVER BASIN	BIG CHINO	B-20-04 19CBA	350616112435601	624116	35° 6' 16.2"	112° 43' 56"	4597	8/20/2020	72.1	S			8/17/2021	64.9	V			7.2
VERDE RIVER BASIN	BIG CHINO	B-22-07 E25ADC	351552112572901	608304	35° 15' 50.3"	112° 57' 28.8"	5076	8/25/2020	205	S			8/18/2021	202.2	S			2.8
VERDE RIVER BASIN	BIG CHINO	B-15-03 11DDB	344122112322201	569850	34° 41' 23.2"	112° 32' 20.9"	5060	4/17/2020	85.7	V			3/23/2021	83.9	V			1.8
VERDE RIVER BASIN	BIG CHINO	B-15-02 31BBD	343827112304801	511301	34° 38' 25.6"	112° 30' 47.5"	5300	4/14/2020	187.2	V			3/23/2021	189.6	V			-2.4
VERDE RIVER BASIN	BIG CHINO	B-15-03 23ADC	343957112322001	526935	34° 39' 57.6"	112° 32' 19.6"	5085	4/15/2020	57.9	V			3/22/2021	67.5	V			-9.6

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
VERDE RIVER BASIN	BIG CHINO	B-15-03 24CCB	343938112320101	511633	34° 39' 37.8"	112° 31' 59.9"	5120	4/15/2020	91.7	V			3/23/2021	98.8	V			-7.1
VERDE RIVER BASIN	BIG CHINO	B-15-03 14DCC	344022112323501	573966	34° 40' 22.3"	112° 32' 35.4"	5035	4/15/2020	6.1	V			3/23/2021	15.2	V			-9.1
VERDE RIVER BASIN	BIG CHINO	B-15-03 14AAB	344110112322201	573965	34° 41' 9.9"	112° 32' 22.7"	5050	4/15/2020	59.7	V			3/23/2021	61.5	V			-1.8
VERDE RIVER BASIN	BIG CHINO	B-15-03 14DAD	344038112321101	573968	34° 40' 37.7"	112° 32' 10.9"	5075	4/15/2020	56.4	V			3/23/2021	63.9	V			-7.5
VERDE RIVER BASIN	BIG CHINO	B-17-02 E02DCA	345256112261901	527679	34° 52' 56.4"	112° 26' 19.4"	4575	2/26/2020	328.1	V			2/24/2021	328.6	V			-0.5
VERDE RIVER BASIN	BIG CHINO	B-15-03 23AAA	344017112321101	585987	34° 40' 17"	112° 32' 11.1"	5030	4/15/2020	20.9	V			3/23/2021	29.8	V			-8.9
VERDE RIVER BASIN	BIG CHINO	B-15-03 S02DCD	344205112322901	569837	34° 42' 5.3"	112° 32' 29.4"	5075	4/17/2020	101.1	V			3/23/2021	101.2	V			-0.1
VERDE RIVER BASIN	BIG CHINO	B-16-03 17DAB	344604112354301	525910	34° 46' 3.9"	112° 35' 40.7"	4842	3/26/2020	103.6	V			3/23/2021	106.6	V			-3.0
VERDE RIVER BASIN	BIG CHINO	B-17-02 02CAA1	345314112263801	908192	34° 53' 13.7"	112° 26' 38.2"	4575	8/18/2020	327	V			8/25/2021	326.9	V			0.1
VERDE RIVER BASIN	BIG CHINO	B-18-04 11ACC	345738112391501	200027	34° 57' 38.17"	112° 39' 14.98"	4615.7	2/26/2020	328.2	VT		TAKEN WITH BLACK 500 AT 14:00	2/11/2021	327.8	VT		TAKEN AT 09:26 WITH BLUE 500	0.4
VERDE RIVER BASIN	BIG CHINO	B-20-05 34CBC	350423112471201	579656	35° 4' 23.3"	112° 47' 11.8"	4960	8/25/2020	172.8	V			8/24/2021	172.7	V			0.1
VERDE RIVER BASIN	BIG CHINO	B-20-04 33CBD2	350427112414701	210660	35° 4' 26.5"	112° 41' 47.1"	4555	2/25/2020	41.2	V			2/24/2021	41.1	S			0.1
VERDE RIVER BASIN	BIG CHINO	B-18-04 25AAA2	345524112374401	211839	34° 55' 24.29"	112° 37' 43.88"	4572.77	2/26/2020	269.51	VT		TAKEN WITH BLACK 500 AT 13:30	2/11/2021	269.27	VT		TAKEN AT 10:02 WITH BLUE 500	0.2
VERDE RIVER BASIN	BIG CHINO	B-18-04 01ACA2	345842112380201	905773	34° 58' 42.12"	112° 38' 2.6"	4555.68	2/26/2020	162.35	VT		TAKEN WITH BLACK 500 AT 14:25	2/11/2021	161.66	VT		TAKEN AT 09:10 WITH BLUE 500	0.7
VERDE RIVER BASIN	BIG CHINO	B-18-02 28ABA	345528112283201	603583	34° 55' 26"	112° 28' 32.6"	4482	8/18/2020	240.9	V			8/25/2021	240.5	V			0.4
VERDE RIVER BASIN	BIG CHINO	B-19-04 10CCB2	350232112404901	210659	35° 2' 31.9"	112° 40' 48.7"	4531	2/25/2020	12.6	S			2/24/2021	12	S			0.6
VERDE RIVER BASIN	BIG CHINO	B-17-01 07DBB	345205112240601		34° 52' 4.3"	112° 24' 6.4"	4242	11/18/2019	44.1	S			11/19/2020	38.5	S			5.6
VERDE RIVER BASIN	BIG CHINO	B-18-04 19DDC2	345529112431201	918306	34° 55' 29.4"	112° 43' 12.5"	4885	8/19/2020	301.1	V		SUSPECT BOTTOM MUDDY PROBE TIP	8/24/2021	298.9	V			2.2
VERDE RIVER BASIN	VERDE CANYON	A-10-10 09ACA	341338111194401	631255	34° 13' 38.4"	111° 19' 46.9"	4905	11/21/2019	71.5	S			11/16/2020	67.4	V			4.1
VERDE RIVER BASIN	VERDE CANYON	A-10-10 08ABD	341347111205401	620874	34° 13' 46.3"	111° 20' 54"	4865	11/21/2019	65.8	S			11/16/2020	46.8	V			19.0
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03CCD	341356111191901	512431	34° 13' 57.21"	111° 19' 19.75"	4917.63	10/8/2019	118.46	VT			10/29/2020	67.7	VT		BLUE 500 09:15	50.8
VERDE RIVER BASIN	VERDE CANYON	A-10-10 05CCA	341408111212001	620875	34° 14' 8.6"	111° 21' 20.2"	4830	3/2/2020	30.1	V			2/22/2021	32.5	S			-2.4
VERDE RIVER BASIN	VERDE CANYON	A-10-10 04DBA	341418111194901		34° 14' 18.3"	111° 19' 48.7"	4961	11/21/2019	163.2	V			11/16/2020	115.4	V			47.8
VERDE RIVER BASIN	VERDE CANYON	A-10-10 03BAD1	341436111190001	512430	34° 14' 36.5"	111° 18' 59.7"	4990	11/21/2019	202.7	V			11/16/2020	146.8	V			55.9
VERDE RIVER BASIN	VERDE CANYON	A-11-10 31DAC1	341504111214601	809394	34° 15' 5.3"	111° 21' 43.8"	5060	11/21/2019	192.6	V			11/16/2020	226.1	V			-33.5
VERDE RIVER BASIN	VERDE CANYON	A-11-10 32ACD	341518111205401	650931	34° 15' 14.3"	111° 20' 51.4"	5120	11/21/2019	310.4	V			11/16/2020	289.8	V			20.6
VERDE RIVER BASIN	VERDE CANYON	A-11-10 27CCB	341547111192501	620877	34° 15' 46.7"	111° 19' 25.7"	5002	11/21/2019	183.3	V			11/16/2020	144.4	V			38.9
VERDE RIVER BASIN	VERDE CANYON	A-12-08 26DAC2	342344111280701	635775	34° 23' 41.5"	111° 28' 7.5"	5620	11/22/2019	101	V			11/17/2020	100.2	V			0.8
VERDE RIVER BASIN	VERDE CANYON	A-12-08 27BAC	342406111293901	570666	34° 24' 7.2"	111° 29' 47.5"	5961	11/22/2019	340.7	V			11/17/2020	322.2	V			18.5
VERDE RIVER BASIN	VERDE CANYON	A-12-08 22CDA	342427111293401	644149	34° 24' 26.8"	111° 29' 33.9"	5880	11/22/2019	130.9	V			11/17/2020	129.9	V			1.0
VERDE RIVER BASIN	VERDE CANYON	A-13-07 14BBD UNSURV	343122111350401	627332	34° 31' 22.5"	111° 35' 3.9"	5955	6/25/2020	721	V			5/4/2021	721.4	V			-0.4
VERDE RIVER BASIN	VERDE CANYON	A-11-10 27CAA	341605111190301	518735	34° 16' 4.6"	111° 19' 3.4"	5040	11/22/2019	194.9	V			11/16/2020	163	V			31.9
VERDE RIVER BASIN	VERDE CANYON	A-10-10 04ABB	341442111200101	571659	34° 14' 42.36"	111° 20' 1.34"	4924.6	10/8/2019	137.24	VT			10/29/2020	84.32	VT		BLUE 500 12:00	52.9
VERDE RIVER BASIN	VERDE CANYON	A-10-10 06DCC	341402111215101	569710	34° 14' 2.4"	111° 21' 50.89"	4778.22	10/8/2019	18.16	VT			10/29/2020	18.13	VT		BLUE 500 11:30	0.0
VERDE RIVER BASIN	VERDE CANYON	A-11-10 32BBB	341535111213601	568987	34° 15' 35.24"	111° 21' 33.79"	5096	10/8/2019	247.53	VT			10/29/2020	238	VT		BLUE 500 11:00	9.5
VERDE RIVER BASIN	VERDE VALLEY	A-13-06 23BBC	343028111413801	627339	34° 30' 27.2"	111° 41' 38.3"	4410	6/25/2020	338	V			4/19/2021	337.4	V			0.6
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 17CAA2	343105111504601	086280	34° 31' 5"	111° 50' 46.7"	3055	4/21/2020	38.7	S			4/19/2021	37.7	S			1.0
VERDE RIVER BASIN	VERDE VALLEY	A-13-05 28DCD1	342859111492901	085970	34° 29' 0.2"	111° 49' 30.1"	3060	4/21/2020	139.5	V			4/19/2021	133.3	V			6.2
VERDE RIVER BASIN	VERDE VALLEY	A-13-06 29DBB	342914111441601	627333	34° 29' 14.3"	111° 44' 14.8"	3492	6/25/2020	304	V			4/19/2021	306	V			-2.0
VERDE RIVER BASIN	VERDE VALLEY	A-14-06 09AAB	343733111425801	522310	34° 37' 34"	111° 42' 59.9"	3925	4/23/2020	94.7	V			4/23/2021	105.9	V		PUMP OFF 24 HRS	-11.2
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 32CBB2	343341111511201	605030	34° 33' 41.1"	111° 51' 12.5"	3138	4/23/2020	71.4	V			4/19/2021	73	S			-1.6
VERDE RIVER BASIN	VERDE VALLEY	A-14-04 24BCB2	343535111531001	505167	34° 35' 36.3"	111° 53' 8.6"	3121	4/21/2020	31.2	V			4/19/2021	31.3	V			-0.1
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 21CBA2	344052111560601	631840	34° 40' 52.9"	111° 56' 5.4"	3225	4/22/2020	58.25	V			4/22/2021	63.15	S			-4.9
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 20BAA	344105111503401	519065	34° 41' 5.7"	111° 50' 34.6"	3600	4/22/2020	268.2	V			4/22/2021	264.6	V			3.6
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 02CDC	343739111473301	603359	34° 37' 38.8"	111° 47' 31.8"	3380	6/1/2020	58.7	V			4/19/2021	55.7	V			3.0
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 04AAA	343833111490101	806134	34° 38' 33.6"	111° 49' 0.7"	3480	4/22/2020	309.9	V			4/19/2021	336.7	V			-26.8
VERDE RIVER BASIN	VERDE VALLEY	A-15-06 31CBA2	343854111453301	629125	34° 38' 54.3"	111° 45' 32.2"	3515	5/28/2020	142.6	V			4/23/2021	142	V			0.6
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 02CCB4	344312111540801	605684	34° 43' 11.4"	111° 54' 8.3"	3418	5/26/2020	100.2	V			4/22/2021	106.1	V			-5.9
VERDE RIVER BASIN	VERDE VALLEY	A-15-05 S06BCA	344331111515501	627337	34° 43' 30.4"	111° 51' 56.1"	3700	5/26/2020	384.4	V			4/22/2021	383.4	V			1.0
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 12ADB1	344250111583401	630899	34° 42' 49.3"	111° 58' 32.7"	3265	4/23/2020	33.9	V			4/20/2021	49.2	V		CHECKED WITH V AND S	-15.3
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 12ADB3	344250111584101	802787	34° 42' 50.1"	111° 58' 39.9"	3265	4/23/2020	36.8	V			4/19/2021	48.7	V			-11.9
VERDE RIVER BASIN	VERDE VALLEY	A-15-03 11ABA	344258111595501	613162	34° 42' 58.3"	111° 59' 51.5"	3310	4/23/2020	62.8	V			4/19/2021	60.7	V			2.1
VERDE RIVER BASIN	VERDE VALLEY	A-15-04 04DDC1	344307111552701	621154	34° 43' 8.7"	111° 55' 27.8"	3360	5/26/2020	59.7	V			4/22/2021	59.3	V			0.4
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 19DBD	344556112040501	525162	34° 45' 56.18"	112° 4' 5.09"	3660	5/26/2020	294.2	V			4/20/2021	299.5	V			-5.3
VERDE RIVER BASIN	VERDE VALLEY	A-16-04 20BBB	344625111571401	614259	34° 46' 25.8"	111° 57' 13.3"	3730	5/20/2020	182.4	S			4/22/2021	182.3	S			0.1
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 34ADC1	344428112004801	609079	34° 44' 27.1"	112° 0' 13.3"	3340	5/28/2020	76.9	V			4/20/2021	72.2	V			4.7
VERDE RIVER BASIN	VERDE VALLEY	A-16-09 28CBC3	344435111243501	627289	34° 44' 36.3"	111° 24' 37.4"	7490	4/29/2020	20.9	S			4/22/2021	21.9	S			-1.0
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 34AAD	344440112003801	609076	34° 44' 40.1"	112° 0' 36.6"	3310	5/28/2020	42.6	S			4/20/2021	40.1	V			2.5
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 20DDC	344544112025001	642366	34° 45' 44.1"	112° 2' 49.6"	3640	5/26/2020	275.8	V			4/20/2021	275	V			0.8
VERDE RIVER BASIN	VERDE VALLEY	A-16-03 22DCD	344545112005401	629211	34° 45' 42.9"	112° 0' 52.71"	3421.95	5/26/2020	41.5	V			6/17/2021	50.73	VT		TAKEN AT 11:42 WITH BLUE 500	-9.2
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 26BCA1	344943111483201	632376	34° 49' 42.1"	111° 48' 30.7"	3980	5/20/2020	115.3	V			4/22/2021	114.3	V			1.0
VERDE RIVER BASIN	VERDE VALLEY	A-17-06E30BBB	344957111463102		34° 49' 56.5"	111° 46' 30"	4300	5/20/2020	458.8	V			4/21/2021	457.3	V			1.5
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 20CCC1	345001111514801		34° 50' 1.5"	111° 51' 55.1"	4040	5/19/2020	394.9	V			4/21/2021	393.6	V			1.3
VERDE RIVER BASIN	VERDE VALLEY	A-16-08 10ABC	344733111292201	641798	34° 47' 33"	111° 29' 19.9"	7370	4/29/2020	3.1	S			4/22/2021	7.9	S			-4.8
VERDE RIVER BASIN	VERDE VALLEY	A-17-05 34CAC	344829111492601	614284	34° 48' 28.4"	111° 49' 25.9"	3970	5/19/2020	331.7	V			4/21/2021	331.2	V			0.5
VERDE RIVER BASIN	VERDE VALLEY	A-18-07 27CBA	345452111384001	637398	34° 54' 52.4"	111° 38' 40.8"	6485	4/21/2020	340.5	V			4/22/2021	340.8	V			-0.3
VERDE RIVER BASIN	VERDE VALLEY	A-17-01 15CDB UNSURV	345057112145201	631883	34° 50' 57.8"	112° 14' 52.3"	4540	4/15/2020	419.1	V			3/22/2021	419.1	V			0.0
VERDE RIVER BASIN	VERDE VALLEY	A-17-06 18AAB	345137111454801	522853	34° 51' 36.4"	111° 45' 46.3"	4220	5/19/2020	11.2	S			4/21/2021	10.7	S			0.5
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 06ADD	345302111582201		34° 53' 1.3"	111° 58' 20.8"	4345	5/20/2020	675	V			4/22/2021	675.3	V			-0.3
VERDE RIVER BASIN	VERDE VALLEY	A-17-04 01ABD	345312111532001	512462	34° 53' 14.36"	111° 53' 16.89"	4429.18	10/25/2019	744.8	V			10/20/2020	739.2	V			5.6
VERDE RIVER BASIN	VERDE VALLEY	B-19-01 16ACB	350154112220001	645843	35° 1' 53.8"	112° 21' 59.8"	4790	5/6/2020	556.8	V			4/21/2021	557	V			-0.2
VERDE RIVER BASIN	VERDE VALLEY	A-19-06 W14BAB	350159111435701	637391	35° 2' 12.8"	111° 43' 50.9"	6510	5/19/2020	815.6	V			4/20/2021	819.1	V			-3.5
VERDE RIVER BASIN	VERDE VALLEY	B-18-01 27ABD	345505112204501	631886	34° 55' 5"	112° 20' 44.3"	4407	11/19/2019	192.7	V			11/19/2020	192.4	V			0.3
VERDE RIVER BASIN	VERDE VALLEY	A-18-04 15DBC	345616111553602		34° 56' 19.2"	111° 55' 36.5"	4760	8/4/2020	694	V			2/4/2021	694.9	V			-0.9
VERDE RIVER BASIN	VERDE VALLEY	A-18-06 17ACC	345644111451601	523380	34° 56' 45.9"	111° 45' 16"	4980	5/19/2020	543.2	V			4/20/2021	521.6	V			21.6
VERDE RIVER BASIN	VERDE VALLEY	B-18-01 17AAA	345653112223701	511557	34° 56' 57.7"	112° 22' 34.6"	4643	5/6/2020	425.3	V			4/21/2021	426.1	V			-0.8
VERDE RIVER BASIN	VERDE VALLEY	A-20-04 03CBB	350829111575601	522705	35° 8' 29.1"	111° 57' 57.4"	6709	5/6/2020	54.9	S			4/21/2021	55.3	S			-0.4
VERDE RIVER BASIN	VERDE VALLEY	A-20-06 19BBB	350624111482501	500322	35° 6' 24.8"	111° 48' 23"	7163	4/22/2020	82.2	S			4/20/2021	93.7	S			-11.5
VERDE RIVER BASIN	VERDE VALLEY	A-22-04 28BDA	351537111582301	645743	35° 15' 38.4"	111° 58' 27.4"	6993	8/7/2020	3.7	S			10/21/2020	3.7	S			0.0
VERDE RIVER BASIN	VERDE VALLEY	A-22-03 24CCC	351557112020401	618481	35° 15' 56.7"	112° 2' 5.9"	6887	4/22/2020	2.6	S			4/21/2021	11.65	S			-9.1
VERDE RIVER BASIN	VERDE VALLEY	A-22-04 14DAD2	351702111555001	565702	35° 16' 59.5"	111° 55' 47.3"	7298	4/22/2020	142.8	V			4/21/2021	143.4	V			-0.6
VERDE RIVER BASIN	VERDE VALLEY	A-23-05 27AAC	352108111504801	613888	35° 21' 8.1"	111° 50' 48.1"	7661	4/22/2020	712.7	V			4/20/2021	711.8	V			0.9
VERDE RIVER BASIN	VERDE VALLEY	A-14-05 E17AAC	343638111501301	629124	34° 36' 37.6"	111° 50' 13.7"	3190	5/28/2020	44.3	V			4/23/2021	39.8	V			4.5
VIRGIN RIVER BASIN	VIRGIN RIVER	B-41-15 33CAC	365429113554501	628107	36° 54' 29.5"	113° 55' 45"	1895	10/22/2019	51.7	V			10/27/2020	50.5	V			1.2
VIRGIN RIVER BASIN	VIRGIN RIVER	B-41-15 28ABD	365547113552101	536967	36° 55' 47.4"	113° 55' 21.3"	2070	10/22/2019	200.6	V			10/27/2020	202.1	V			-1.5
VIRGIN RIVER BASIN	VIRGIN RIVER	B-41-15 08ADA	365819113560701	536968	36° 58' 19.3"	113° 56' 7.2"	2284	10/22/2019	379.6	V			10/27/2020	380.3	V			-0.7
VIRGIN RIVER BASIN	VIRGIN RIVER	B-40-16 34BDC	364928114004801	604108	36° 49' 28.8"	114° 0' 48.9"	1762	10/22/2019	145.3	V			10/27/2020	145.6	V			-0.3
VIRGIN RIVER BASIN	VIRGIN RIVER	B-40-15 06CDD	365321113572401	540950	36° 53' 21.53"	113° 57' 25.03"	2040.93	10/30/2019	267.66	VT			10/22/2020	267.84	VT		BLUE 500 09:45	-0.2
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	C-18-05 05DDC	315257112475301	522034	31° 52' 54.6"	112° 47' 53.2"	1402	2/13/2020	112.5	V			11/3/2020	117.2	V			-4.7
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	C-17-08 06CCC UNSURV	315835113080501		31° 58' 35.3"	113° 8' 4.9"	1100	2/13/2020	188.4	V			11/3/2020	195.2	V			-6.8
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	C-17-05 17ABC2UNSURV	315702112480401	629090	31° 57' 1.4"	112° 48' 3.2"	1660	11/6/2019	352.3	V			11/3/2020	352.7	V			-0.4
WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	C-17-08 09ADD UNSURV	315743113050201	648532	31° 57' 43"	113° 5' 4.8"	998	2/13/2020	61.65	V			11/3/2020	62.5	V		TD OR OBS @ 94'	-0.9
WILLCOX BASIN	WILLCOX	D-13-24 16BBB	321834109543001	805474	32° 18' 40.1"	109° 54' 33.1"	4212	11/4/2019	154.1	S			11/2/2020	156.1	V			-2.0
WILLCOX BASIN	WILLCOX	D-13-25 21AAC	321736109473801	611245	32° 17' 35.4"	109° 47' 37.7"	4214	11/4/2019	171.3	S			11/3/2020	173.5	S			-2.2
WILLCOX BASIN	WILLCOX	D-13-24 03ADA	322008109523401	616780	32° 20' 11.7"	109° 52' 31.8"	4219	11/4/2019	158.9	S			11/3/2020	159.2	S			-0.3
WILLCOX BASIN	WILLCOX	D-13-24 05CCB2	321941109553101	619477	32° 19' 43.7"	109° 55' 34.2"	4221	11/4/2019	179.9	V			11/2/2020	186.9	V			-7.0
WILLCOX BASIN	WILLCOX	D-12-23 12CBB	322418109573501	608319	32° 24' 20.4"	109° 57' 35.4"	4278	11/4/2019	268.1	V			11/2/2020	274.8	V			-6.7
WILLCOX BASIN	WILLCOX	D-11-24 30AAA	322718109554101	604191	32° 27' 22.1"	109° 55' 43.2"	4369	11/4/2019	352.9	V			11/3/2020	361.9	V			-9.0
WILLCOX BASIN	WILLCOX	D-11-24 17CAA	322741109550801	621281	32° 28' 40.9"	109° 55' 8.5"	4447	11/4/2019	428.1	V			11/3/2020	435.7	V			-7.6
WILLCOX BASIN	WILLCOX	D-11-24 07DBA	322933109555701		32° 29' 33.1"	109° 55' 57.3"	4455	11/4/2019	424.7	V			11/3/2020	432.1	V			-7.4
WILLCOX BASIN	WILLCOX	D-10-23 10BBA	323511109591401	627747	32° 35' 12.7"	109° 59' 15.7"	4543	11/4/2019	438.9	V			11/3/2020	445.7	V			-6.8
WILLCOX BASIN	WILLCOX	D-09-23 08BAA	324018110005401	805360	32° 40' 20.3"	110° 1' 1.3"	5158	11/4/2019	254.5	V			11/3/2020	279.1	V		CHECKED 2X!	-24.6
WILLCOX BASIN	WILLCOX	D-16-25 36BAA	320024109451801	224353	32° 0' 24.1"	109° 45' 15.7"	4227	11/5/2019	377.7	V			11/4/2020	386.7	V			-9.0
WILLCOX BASIN	WILLCOX	D-16-24 09CBB	320328109544901		32° 3' 28"	109° 54' 48.9"	4261	11/4/2019	318.6	V			11/2/2020	325.2	V			-6.6
WILLCOX BASIN	WILLCOX	D-21-28 21BCB1	313533109301801	203421	31° 35' 29.87"	109° 30' 18"	4647.8	2/5/2020	12.1	VT		TAKEN AT 16:00 WITH BLACK 500	2/9/2021	7.39	VT		TAKEN AT 13:40 WITH BLACK 500	4.7
WILLCOX BASIN	WILLCOX	D-18-28 17BAA	315228109310301	505333	31° 52' 26.1"	109° 31' 1.7"	4750	11/6/2019	386.7	V			11/5/2020	386.1	V			0.6
WILLCOX BASIN	WILLCOX	D-17-27 31CDD2	315421109380401	618485	31° 54' 22.8"	109° 38' 7.4"	4366	11/6/2019	351.1	V			11/5/2020	368.8	V			-17.7
WILLCOX BASIN	WILLCOX	D-17-27 35BCB	315454109343001	626140	31° 54' 57.4"	109° 34' 31.8"	4499	11/6/2019	252	V			11/5/2020	257.3	V			-5.3
WILLCOX BASIN	WILLCOX	D-18-27 08BAC	315318109372101	648836	31° 53' 18.7"	109° 37' 13.9"	4395	11/4/2019	303.3	V			11/2/2020	311.4	V			-8.1
WILLCOX BASIN	WILLCOX	D-17-27 28BAA	315602109360701	627815	31° 56' 2.6"	109° 36' 4.7"	4427	11/6/2019	323.4	V			11/5/2020	335.2	V			-11.8
WILLCOX BASIN	WILLCOX	D-17-27 20DAA2	315626109363601	606029	31° 56' 24.4"	109° 36' 35.5"	4413	11/6/2019	327.4	V			11/5/2020	338.9	V			-11.5
WILLCOX BASIN	WILLCOX	D-17-28 06BDA	315914109320001	609167	31° 59' 16.5"	109° 31' 59.6"	4652	11/6/2019	309.5	V			11/5/2020	310.3	V			-0.8
WILLCOX BASIN	WILLCOX	D-17-26 06BAD	315920109441601	805118	31° 59' 23.2"	109° 44' 14.4"	4254	11/5/2019	289.5	S			11/4/2020	295.4	S			-5.9
WILLCOX BASIN	WILLCOX	D-17-24 11DCC	315748109521501	617434	31° 57' 48"	109° 52' 14"	4342	3/10/2020	341.9	V			11/2/2020	338.1	V			3.8
WILLCOX BASIN	WILLCOX	D-17-25 08BCC2	315816109494501		31° 58' 15.4"	109° 49' 47.3"	4222	11/4/2019	242.7	V	K		11/2/2020	237.9	V	K		4.8
WILLCOX BASIN	WILLCOX	D-16-27 30BAC	320105109382001	608128	32° 1' 4.11"	109° 38' 32.76"	4397.28	2/6/2020	380.67	VT		TAKEN WITH BLACK 500 AT 11:45	2/9/2021	385.38	VT		TAKEN AT 15:47 WITH BLACK 500	-4.7
WILLCOX BASIN	WILLCOX	D-16-28 20ADC2	320144109303801	643341	32° 1' 44.4"	109° 30' 36.7"	4696	11/6/2019	337	V			11/5/2020	338.6	V			-1.6
WILLCOX BASIN	WILLCOX	D-16-26 32AAA	320022109424601	810110	32° 0' 23.6"	109° 42' 42.8"	4285	11/5/2019	344.5	V			11/4/2020	351.6	V			-7.1
WILLCOX BASIN	WILLCOX	D-16-29 26CCC2	320029109221601	629083	32° 0' 29.8"	109° 22' 14.32"	5216.03	2/6/2020	10.43	VT		TAKEN AT 13:00 WITH BLACK 500	2/9/2021	16.75	VT		TAKEN WITH BLACK 500 AT 12:30	-6.3
WILLCOX BASIN	WILLCOX	D-16-25 09ADD	320330109475101	574801	32° 3' 33.9"	109° 47' 46.2"	4186	11/5/2019	99.5	S			11/4/2020	100.5	S			-1.0
WILLCOX BASIN	WILLCOX	D-16-26 04CDC	320356109422701	609969	32° 3' 55.1"	109° 42' 27.3"	4289	11/5/2019	446.3	V			11/4/2020	459	V			-12.7
WILLCOX BASIN	WILLCOX	D-16-25 13CDD	320213109451601	609188	32° 2' 9.9"	109° 45' 12.2"	4227	11/5/2019	392.1	V			11/4/2020	402.9	V			-10.8
WILLCOX BASIN	WILLCOX	D-16-26 09DDD	320303109414201	801769	32° 3' 2.7"	109° 41' 41.9"	4313	11/5/2019	459.4	V			11/4/2020	464.1	V			-4.7
WILLCOX BASIN	WILLCOX	D-16-26 02ADD	320435109394301	609041	32° 4' 26.7"	109° 39' 39.5"	4391	11/5/2019	318.1	V			11/4/2020	324.3	V			-6.2
WILLCOX BASIN	WILLCOX	D-16-25 01BBB	320441109453901	607558	32° 4' 41.65"	109° 45' 39.68"	4207.33	6/24/2020	97.33	VT			6/16/2021	98.95	VT		TAKEN WITH BLACK 500 AT 15:50	-1.6
WILLCOX BASIN	WILLCOX	D-15-26 23DCC2	320633109393901	611586	32° 6' 30.8"	109° 39' 43.6"	4461	11/4/2019	355.5	V			11/6/2020	357.5	V			-2.0
WILLCOX BASIN	WILLCOX	D-14-22 12CDC	321336110032801	615961	32° 13' 34.8"	110° 3' 26.8"	4645	11/6/2019	87	V			11/5/2020	143.8	V			-56.8
WILLCOX BASIN	WILLCOX	D-14-23 12BBB2	321414109573001	608286	32° 14' 15.7"	109° 57' 30.9"	4357	11/7/2019	308.8	V			11/2/2020	313.1	V		CHECKED 2X	-4.3

Appendix 3. 1 Year Groundwater level change in Arizona - Water Years 2020 - 2021

BASIN	SUB-BASIN	CADASTRAL	GWSI SITE ID	REG 55 No.	LATITUDE (NAD27)	LONGITUDE (NAD27)	SITE ELEVATION	WL DATE 2020	WL 2020	WL METHOD 2020	WL REMARK 2020	WL COMMENT 2020	WL DATE 2021	WL 2021	WL METHOD 2021	WL REMARK 2021	WL COMMENT 2021	WL CHANGE
YUMA BASIN	YUMA	C-11-24 23BCB	322737114415301		32° 27' 36.77"	114° 41' 53.71"	159.4	10/29/2019	132.5	V			10/27/2020	131.5	S			1.0
YUMA BASIN	YUMA	C-10-23 31BBB2	323124114395601		32° 31' 24.2"	114° 39' 55.6"	173	10/29/2019	117.85	S			10/27/2020	116.75	S			1.1
YUMA BASIN	YUMA	C-10-25 26CDB1	323133114475501		32° 31' 36.83"	114° 47' 55.17"	88.64	10/29/2019	30.2	S			10/27/2020	31.95	S			-1.8
YUMA BASIN	YUMA	C-09-25 35CBD	323602114480401		32° 36' 1.5"	114° 48' 4.1"	104	10/29/2019	25.7	S			10/27/2020	25.1	V			0.6
YUMA BASIN	YUMA	C-08-22 25DAC3	324212114274801		32° 42' 12"	114° 27' 48.2"	155	10/28/2019	18	S			10/26/2020	16.5	S			1.5
YUMA BASIN	YUMA	C-08-21 21BCA	324330114252601	612897	32° 43' 28.96"	114° 25' 29.3"	169.26	10/29/2019	25.3	S			10/26/2020	24.2	S			1.1
YUMA BASIN	YUMA	C-12-22 06DAA2	322449114323901	212452	32° 24' 48.86"	114° 32' 39.4"	204.57	10/29/2019	178.3	V			10/27/2020	179.2	S			-0.9

Appendix 4

Statewide groundwater level change statistics in Arizona by sub-basin – Water Years 2001 - 2021, 2011 - 2021, 2020 - 2021

Appendix 4. Statewide Groundwater level change statistics in Arizona by Sub-basin - Water Years 2001 to 2021, 2011 to 2021, and 2020 to 2021

WL Change	WL Change Time Period	Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
20 Year	9/30/2001-10/1/2021	AGUA FRIA BASIN	AGUA FRIA	4	0	2	2	-23.8 to 0.6	-1.0	-6.3	11.7	-0.3	-0.1
10 Year	9/30/2011-10/1/2021	AGUA FRIA BASIN	AGUA FRIA	6	0	5	1	-30.3 to -0.6	-1.8	-6.3	11.7	-0.6	-0.2
1 Year	9/30/2020-10/1/2021	AGUA FRIA BASIN	AGUA FRIA	8	0	3	5	-4.9 to 0.2	-0.8	-1.2	1.6	-1.2	-0.8
20 Year	9/30/2001-10/1/2021	ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	0	2	0	-24 to -15.4	-19.7	-19.7	6.1	-1.0	-1.0
10 Year	9/30/2011-10/1/2021	ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	0	2	0	-16.1 to -6.3	-11.2	-11.2	6.9	-1.1	-1.1
1 Year	9/30/2020-10/1/2021	ARAVAIPA CANYON BASIN	ARAVAIPA CANYON	2	1	1	0	-5.6 to 29.3	11.9	11.9	24.7	11.9	11.9
20 Year	9/30/2001-10/1/2021	BIG SANDY BASIN	FORT ROCK	2	0	1	1	-3.8 to 0.9	-1.5	-1.5	3.3	-0.1	-0.1
10 Year	9/30/2011-10/1/2021	BIG SANDY BASIN	FORT ROCK	2	0	2	0	-3.7 to -3	-3.4	-3.4	0.5	-0.3	-0.3
1 Year	9/30/2020-10/1/2021	BIG SANDY BASIN	FORT ROCK	1	0	0	1	0 to 0	0.0	0.0	N/A	0.0	0.0
20 Year	9/30/2001-10/1/2021	BIG SANDY BASIN	WIKIEUP	3	2	1	0	-2.2 to 3.2	1.2	0.7	2.7	0.0	0.1
10 Year	9/30/2011-10/1/2021	BIG SANDY BASIN	WIKIEUP	9	1	7	1	-22.6 to 1.2	-2.6	-7.9	9.7	-0.8	-0.3
1 Year	9/30/2020-10/1/2021	BIG SANDY BASIN	WIKIEUP	8	1	4	3	-2.6 to 4	-0.7	-0.2	2.0	-0.2	-0.7
20 Year	9/30/2001-10/1/2021	BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	2	0	2	-0.9 to 11.2	1.0	3.1	5.5	0.2	0.0
10 Year	9/30/2011-10/1/2021	BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	1	1	2	-2.4 to 5.2	0.0	0.7	3.2	0.1	0.0
1 Year	9/30/2020-10/1/2021	BILL WILLIAMS BASIN	ALAMO RESERVOIR	4	1	1	2	-1.8 to 2.8	-0.3	0.1	1.9	0.1	-0.3
20 Year	9/30/2001-10/1/2021	BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	BILL WILLIAMS BASIN	BURRO CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	BILL WILLIAMS BASIN	CLARA PEAK	1	1	0	0	4 to 4	4.0	4.0	N/A	0.2	0.2
10 Year	9/30/2011-10/1/2021	BILL WILLIAMS BASIN	CLARA PEAK	2	1	1	0	-1.3 to 2.1	0.4	0.4	2.4	0.0	0.0
1 Year	9/30/2020-10/1/2021	BILL WILLIAMS BASIN	CLARA PEAK	2	2	0	0	5.3 to 6.4	5.9	5.9	0.8	5.9	5.9
20 Year	9/30/2001-10/1/2021	BILL WILLIAMS BASIN	SANTA MARIA	4	1	3	0	-6.1 to 1.6	-3.7	-3.0	3.3	-0.1	-0.2
10 Year	9/30/2011-10/1/2021	BILL WILLIAMS BASIN	SANTA MARIA	4	1	3	0	-6.1 to 2.7	-3.7	-2.7	3.8	-0.3	-0.4
1 Year	9/30/2020-10/1/2021	BILL WILLIAMS BASIN	SANTA MARIA	3	1	0	2	-1 to 2.4	-0.5	0.3	1.8	0.3	-0.5
20 Year	9/30/2001-10/1/2021	BILL WILLIAMS BASIN	SKULL VALLEY	7	2	5	0	-8.1 to 33.9	-3.9	1.7	14.7	0.1	-0.2
10 Year	9/30/2011-10/1/2021	BILL WILLIAMS BASIN	SKULL VALLEY	7	0	6	1	-17.2 to -0.1	-2.2	-4.5	5.8	-0.4	-0.2
1 Year	9/30/2020-10/1/2021	BILL WILLIAMS BASIN	SKULL VALLEY	9	2	2	5	-3.8 to 14.8	-0.4	1.7	5.7	1.7	-0.4
20 Year	9/30/2001-10/1/2021	BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	BONITA CREEK BASIN	BONITA CREEK	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	BUTLER VALLEY BASIN	BUTLER VALLEY	6	0	6	0	-116.9 to -2	-19.4	-31.2	42.9	-1.6	-1.0
10 Year	9/30/2011-10/1/2021	BUTLER VALLEY BASIN	BUTLER VALLEY	7	0	7	0	-106.5 to -1.4	-13.5	-35.8	46.0	-3.6	-1.4
1 Year	9/30/2020-10/1/2021	BUTLER VALLEY BASIN	BUTLER VALLEY	7	0	4	3	-7.6 to 1	-1.6	-2.1	3.0	-2.1	-1.6
20 Year	9/30/2001-10/1/2021	CIENEGA CREEK BASIN	CIENEGA CREEK	4	1	3	0	-12.1 to 11	-4.1	-2.3	9.7	-0.1	-0.2
10 Year	9/30/2011-10/1/2021	CIENEGA CREEK BASIN	CIENEGA CREEK	9	2	2	5	-4.8 to 2.3	0.4	-0.2	2.2	0.0	0.0
1 Year	9/30/2020-10/1/2021	CIENEGA CREEK BASIN	CIENEGA CREEK	18	0	5	13	-4.4 to 0.2	-0.6	-0.8	1.0	-0.8	-0.6
20 Year	9/30/2001-10/1/2021	COCONINO PLATEAU BASIN	COCONINO PLATEAU	1	0	0	1	-0.8 to -0.8	-0.8	-0.8	N/A	0.0	0.0
10 Year	9/30/2011-10/1/2021	COCONINO PLATEAU BASIN	COCONINO PLATEAU	1	1	0	0	1.3 to 1.3	1.3	1.3	N/A	0.1	0.1
1 Year	9/30/2020-10/1/2021	COCONINO PLATEAU BASIN	COCONINO PLATEAU	2	1	0	1	0.1 to 2.2	1.2	1.2	1.5	1.2	1.2
20 Year	9/30/2001-10/1/2021	DETRITAL VALLEY BASIN	DETRITAL VALLEY	2	0	0	2	-0.4 to 0.2	-0.1	-0.1	0.4	0.0	0.0
10 Year	9/30/2011-10/1/2021	DETRITAL VALLEY BASIN	DETRITAL VALLEY	9	1	2	6	-13.7 to 4.4	0.4	-2.1	6.1	-0.2	0.0
1 Year	9/30/2020-10/1/2021	DETRITAL VALLEY BASIN	DETRITAL VALLEY	9	0	2	7	-5.5 to 1	-0.2	-0.7	1.9	-0.7	-0.2
20 Year	9/30/2001-10/1/2021	DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	DONNELLY WASH BASIN	DONNELLY WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	DOUGLAS BASIN	DOUGLAS	1	0	1	0	-14.6 to -14.6	-14.6	-14.6	N/A	-0.7	-0.7
10 Year	9/30/2011-10/1/2021	DOUGLAS BASIN	DOUGLAS	1	0	1	0	-54.5 to -54.5	-54.5	-54.5	N/A	-5.5	-5.5
1 Year	9/30/2020-10/1/2021	DOUGLAS BASIN	DOUGLAS	8	1	6	1	-13.9 to 1.2	-2.2	-4.0	4.9	-4.0	-2.2
20 Year	9/30/2001-10/1/2021	DOUGLAS BASIN	DOUGLAS INA	15	0	15	0	-115.2 to -2	-29.6	-35.5	30.6	-1.8	-1.5
10 Year	9/30/2011-10/1/2021	DOUGLAS BASIN	DOUGLAS INA	12	0	12	0	-83.9 to -2.1	-26.6	-30.8	22.1	-3.1	-2.7
1 Year	9/30/2020-10/1/2021	DOUGLAS BASIN	DOUGLAS INA	13	0	11	2	-8.4 to -0.4	-2.7	-3.5	2.6	-3.5	-2.7
20 Year	9/30/2001-10/1/2021	DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	2	0	-7.8 to -7	-7.4	-7.4	0.5	-0.4	-0.4
10 Year	9/30/2011-10/1/2021	DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	2	0	-4.2 to -2.2	-3.2	-3.2	1.4	-0.3	-0.3
1 Year	9/30/2020-10/1/2021	DRIPPING SPRING WASH BASIN	DRIPPING SPRING WASH	2	0	0	2	0.1 to 0.7	0.4	0.4	0.4	0.4	0.4
20 Year	9/30/2001-10/1/2021	DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	0	5	1	-16 to -0.6	-3.4	-5.9	5.9	-0.3	-0.2
10 Year	9/30/2011-10/1/2021	DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	1	4	1	-6.8 to 1.8	-2.7	-2.5	2.9	-0.3	-0.3
1 Year	9/30/2020-10/1/2021	DUNCAN VALLEY BASIN	DUNCAN VALLEY	6	0	2	4	-3.4 to 0.9	-0.5	-0.6	1.6	-0.6	-0.5
20 Year	9/30/2001-10/1/2021	DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	3	1	2	0	-22 to 2.1	-2.8	-7.6	12.7	-0.4	-0.1
10 Year	9/30/2011-10/1/2021	DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	2	1	1	0	-7.5 to 1.2	-3.2	-3.2	6.2	-0.3	-0.3
1 Year	9/30/2020-10/1/2021	DUNCAN VALLEY BASIN	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NM)	3	1	1	1	-22.7 to 3.5	-0.1	-6.4	14.2	-6.4	-0.1
20 Year	9/30/2001-10/1/2021	GILA BEND BASIN	GILA BEND	8	1	7	0	-105.2 to 10.1	-56.5	-54.3	36.3	-2.7	-2.8
10 Year	9/30/2011-10/1/2021	GILA BEND BASIN	GILA BEND	11	1	10	0	-145.5 to 11.6	-38.5	-53.9	45.5	-5.4	-3.9
1 Year	9/30/2020-10/1/2021	GILA BEND BASIN	GILA BEND	15	1	12	2	-30.1 to 5	-5.2	-6.3	7.9	-6.3	-5.2
20 Year	9/30/2001-10/1/2021	GRAND WASH BASIN	GRAND WASH	1	0	0	1	0 to 0	0.0	0.0	N/A	0.0	0.0
10 Year	9/30/2011-10/1/2021	GRAND WASH BASIN	GRAND WASH	2	0	0	2	0 to 0.2	0.1	0.1	0.1	0.0	0.0
1 Year	9/30/2020-10/1/2021	GRAND WASH BASIN	GRAND WASH	2	0	0	2	0 to 0.3	0.2	0.2	0.2	0.2	0.2
20 Year	9/30/2001-10/1/2021	HARQUAHALA BASIN	HARQUAHALA INA	20	6	14	0	-128.2 to 25.2	-7.5	-29.2	45.8	-1.5	-0.4
10 Year	9/30/2011-10/1/2021	HARQUAHALA BASIN	HARQUAHALA INA	20	3	17	0	-91.1 to 16.4	-18.2	-35.7	35.8	-3.6	-1.8
1 Year	9/30/2020-10/1/2021	HARQUAHALA BASIN	HARQUAHALA INA	20	3	14	3	-26.8 to 40.6	-2.1	-0.6	12.8	-0.6	-2.1

Appendix 4. Statewide Groundwater level change statistics in Arizona by Sub-basin - Water Years 2001 to 2021, 2011 to 2021, and 2020 to 2021

WL Change	WL Change Time Period	Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
20 Year	9/30/2001-10/1/2021	HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	6	0	3	3	-25.8 to 0.3	-1.2	-5.6	10.1	-0.3	-0.1
10 Year	9/30/2011-10/1/2021	HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	12	1	8	3	-15.4 to 10.9	-4.7	-5.4	7.8	-0.5	-0.5
1 Year	9/30/2020-10/1/2021	HUALAPAI VALLEY BASIN	HUALAPAI VALLEY	17	3	3	11	-4.6 to 4.6	-0.2	-0.1	1.8	-0.1	-0.2
20 Year	9/30/2001-10/1/2021	KANAB PLATEAU BASIN	KANAB PLATEAU	2	0	1	1	-11.7 to 0.7	-5.5	-5.5	8.8	-0.3	-0.3
10 Year	9/30/2011-10/1/2021	KANAB PLATEAU BASIN	KANAB PLATEAU	2	2	0	0	1.7 to 1.9	1.8	1.8	0.1	0.2	0.2
1 Year	9/30/2020-10/1/2021	KANAB PLATEAU BASIN	KANAB PLATEAU	3	0	1	2	-5.3 to 1	-0.3	-1.5	3.3	-1.5	-0.3
20 Year	9/30/2001-10/1/2021	LAKE HAVASU BASIN	LAKE HAVASU	1	1	0	0	33 to 33	33.0	33.0	N/A	1.7	1.7
10 Year	9/30/2011-10/1/2021	LAKE HAVASU BASIN	LAKE HAVASU	1	0	0	1	-0.9 to -0.9	-0.9	-0.9	N/A	-0.1	-0.1
1 Year	9/30/2020-10/1/2021	LAKE HAVASU BASIN	LAKE HAVASU	1	0	0	1	0.4 to 0.4	0.4	0.4	N/A	0.4	0.4
20 Year	9/30/2001-10/1/2021	LAKE MOHAVE BASIN	LAKE MOHAVE	2	0	1	1	-3.5 to 0	-1.8	-1.8	2.5	-0.1	-0.1
10 Year	9/30/2011-10/1/2021	LAKE MOHAVE BASIN	LAKE MOHAVE	2	1	1	0	-1.8 to 1.6	-0.1	-0.1	2.4	0.0	0.0
1 Year	9/30/2020-10/1/2021	LAKE MOHAVE BASIN	LAKE MOHAVE	1	0	0	1	-0.5 to -0.5	-0.5	-0.5	N/A	-0.5	-0.5
20 Year	9/30/2001-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	3	0	2	1	-6.2 to 0.8	-5.9	-3.8	4.0	-0.2	-0.3
10 Year	9/30/2011-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	3	2	1	0	-2.3 to 2.5	1.5	0.6	2.5	0.1	0.2
1 Year	9/30/2020-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	JOSEPH CITY INA	5	2	0	3	-0.3 to 5.3	0.5	1.5	2.2	1.5	0.5
20 Year	9/30/2001-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	49	19	28	2	-105.5 to 49.8	-2.7	-8.4	25.9	-0.4	-0.1
10 Year	9/30/2011-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	63	16	43	4	-59.9 to 35.4	-3.4	-6.5	15.2	-0.7	-0.3
1 Year	9/30/2020-10/1/2021	LITTLE COLORADO RIVER PLATEAU BASIN	LITTLE COLORADO RIVER	78	15	31	32	-29.9 to 32.1	-0.4	-1.2	9.1	-1.2	-0.4
20 Year	9/30/2001-10/1/2021	LOWER GILA BASIN	CHILDS VALLEY	1	1	0	0	12.6 to 12.6	12.6	12.6	N/A	0.6	0.6
10 Year	9/30/2011-10/1/2021	LOWER GILA BASIN	CHILDS VALLEY	1	1	0	0	5.3 to 5.3	5.3	5.3	N/A	0.5	0.5
1 Year	9/30/2020-10/1/2021	LOWER GILA BASIN	CHILDS VALLEY	1	0	0	1	0.6 to 0.6	0.6	0.6	N/A	0.6	0.6
20 Year	9/30/2001-10/1/2021	LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	LOWER GILA BASIN	DENDORA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	LOWER GILA BASIN	WELLTON - MOHAWK	17	3	11	3	-41.5 to 67.1	-3.8	-4.2	22.3	-0.2	-0.2
10 Year	9/30/2011-10/1/2021	LOWER GILA BASIN	WELLTON - MOHAWK	21	5	14	2	-60.5 to 67.9	-2.8	-8.0	25.8	-0.8	-0.3
1 Year	9/30/2020-10/1/2021	LOWER GILA BASIN	WELLTON - MOHAWK	26	1	6	19	-5.4 to 3.5	-0.4	-0.8	1.8	-0.8	-0.4
20 Year	9/30/2001-10/1/2021	LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	0	1	-0.8 to -0.8	-0.8	-0.8	N/A	0.0	0.0
10 Year	9/30/2011-10/1/2021	LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	1	0	-4.6 to -4.6	-4.6	-4.6	N/A	-0.5	-0.5
1 Year	9/30/2020-10/1/2021	LOWER SAN PEDRO BASIN	CAMP GRANT WASH	1	0	0	1	0.3 to 0.3	0.3	0.3	N/A	0.3	0.3
20 Year	9/30/2001-10/1/2021	LOWER SAN PEDRO BASIN	MAMMOTH	9	3	6	0	-37.3 to 60.7	-2.3	-0.7	28.2	0.0	-0.1
10 Year	9/30/2011-10/1/2021	LOWER SAN PEDRO BASIN	MAMMOTH	10	3	6	1	-6.5 to 16.3	-1.6	0.2	7.6	0.0	-0.2
1 Year	9/30/2020-10/1/2021	LOWER SAN PEDRO BASIN	MAMMOTH	12	3	2	7	-1.6 to 4.2	0.2	0.5	1.8	0.5	0.2
20 Year	9/30/2001-10/1/2021	MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	20	1	18	1	-155.9 to 1.5	-25.4	-38.3	42.0	-1.9	-1.3
10 Year	9/30/2011-10/1/2021	MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	21	5	15	1	-53.3 to 41.1	-11.5	-8.4	19.2	-0.8	-1.2
1 Year	9/30/2020-10/1/2021	MCMULLEN VALLEY BASIN	MCMULLEN VALLEY	18	0	14	4	-12 to 0.9	-1.8	-2.5	3.0	-2.5	-1.8
20 Year	9/30/2001-10/1/2021	MEADVIEW BASIN	MEADVIEW	1	0	1	0	-29.5 to -29.5	-29.5	-29.5	N/A	-1.5	-1.5
10 Year	9/30/2011-10/1/2021	MEADVIEW BASIN	MEADVIEW	1	0	1	0	-2.6 to -2.6	-2.6	-2.6	N/A	-0.3	-0.3
1 Year	9/30/2020-10/1/2021	MEADVIEW BASIN	MEADVIEW	2	0	2	0	-6.8 to -1.7	-4.2	-4.2	3.6	-4.2	-4.2
20 Year	9/30/2001-10/1/2021	MORENCI BASIN	MORENCI	5	1	4	0	-34.9 to 16.1	-1.9	-5.1	18.5	-0.3	-0.1
10 Year	9/30/2011-10/1/2021	MORENCI BASIN	MORENCI	5	0	4	1	-25.4 to -0.6	-4.5	-8.8	10.4	-0.9	-0.5
1 Year	9/30/2020-10/1/2021	MORENCI BASIN	MORENCI	6	0	3	3	-13.6 to 0.7	-1.2	-4.4	6.0	-4.4	-1.2
20 Year	9/30/2001-10/1/2021	PARIA BASIN	PARIA	1	0	1	0	-60.7 to -60.7	-60.7	-60.7	N/A	-3.0	-3.0
10 Year	9/30/2011-10/1/2021	PARIA BASIN	PARIA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	PARIA BASIN	PARIA	3	1	1	1	-22.1 to 2.4	-0.5	-6.7	13.4	-6.7	-0.5
20 Year	9/30/2001-10/1/2021	PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	PARKER BASIN	CIBOLA VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	-0.9 to -0.9	-0.9	-0.9	N/A	0.0	0.0
10 Year	9/30/2011-10/1/2021	PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	0.3 to 0.3	0.3	0.3	N/A	0.0	0.0
1 Year	9/30/2020-10/1/2021	PARKER BASIN	COLORADO RIVER INDIAN RESERVATION	1	0	0	1	-0.1 to -0.1	-0.1	-0.1	N/A	-0.1	-0.1
20 Year	9/30/2001-10/1/2021	PARKER BASIN	LA POSA PLAINS	2	0	2	0	-9.1 to -2.1	-5.6	-5.6	4.9	-0.3	-0.3
10 Year	9/30/2011-10/1/2021	PARKER BASIN	LA POSA PLAINS	2	0	2	0	-7.6 to -2.6	-5.1	-5.1	3.5	-0.5	-0.5
1 Year	9/30/2020-10/1/2021	PARKER BASIN	LA POSA PLAINS	2	0	0	2	-0.8 to 0	-0.4	-0.4	0.6	-0.4	-0.4
20 Year	9/30/2001-10/1/2021	PEACH SPRINGS BASIN	PEACH SPRINGS	1	0	1	0	-14.3 to -14.3	-14.3	-14.3	N/A	-0.7	-0.7
10 Year	9/30/2011-10/1/2021	PEACH SPRINGS BASIN	PEACH SPRINGS	2	0	2	0	-26.5 to -14.8	-20.7	-20.7	8.3	-2.1	-2.1
1 Year	9/30/2020-10/1/2021	PEACH SPRINGS BASIN	PEACH SPRINGS	4	1	1	2	-14 to 4.2	0.3	-2.3	8.0	-2.3	0.3
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	CAREFREE	5	4	1	0	-44 to 141	99.3	66.4	77.4	3.3	5.0
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	CAREFREE	7	3	3	1	-28.4 to 63.4	-0.8	20.8	38.8	2.1	-0.1
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	CAREFREE	7	0	5	2	-13 to 0.9	-2.7	-4.7	5.0	-4.7	-2.7
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	EAST SALT RIVER	53	41	11	1	-39.6 to 111	34.5	33.1	35.0	1.7	1.7
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	EAST SALT RIVER	86	55	30	1	-57.3 to 54.5	5.9	5.4	19.1	0.5	0.6
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	EAST SALT RIVER	92	40	31	21	-32.4 to 29.2	0.5	0.0	8.3	0.0	0.5
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	FOUNTAIN HILLS	5	0	5	0	-120 to -1.6	-4.8	-28.1	51.5	-1.4	-0.2
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	FOUNTAIN HILLS	6	1	4	1	-15.6 to 5	-1.7	-4.4	7.7	-0.4	-0.2
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	FOUNTAIN HILLS	6	2	3	1	-9.3 to 5.6	-0.9	-0.7	5.1	-0.7	-0.9
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	HASSAYAMPA	30	16	14	0	-45.8 to 145.3	3.8	15.9	52.0	0.8	0.2
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	HASSAYAMPA	35	12	18	5	-38.9 to 62.1	-1.5	-2.5	19.5	-0.3	-0.2
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	HASSAYAMPA	55	9	19	27	-24.8 to 25.5	-0.7	-0.9	5.6	-0.9	-0.7
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	LAKE PLEASANT	3	2	1	0	-30.9 to 9.8	8.8	-4.1	23.2	-0.2	0.4

Appendix 4. Statewide Groundwater level change statistics in Arizona by Sub-basin - Water Years 2001 to 2021, 2011 to 2021, and 2020 to 2021

WL Change	WL Change Time Period	Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	LAKE PLEASANT	9	1	6	2	-19.2 to 3	-1.4	-4.4	6.9	-0.4	-0.1
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	LAKE PLEASANT	9	2	4	3	-19.8 to 15.8	-1.0	-2.7	9.8	-2.7	-1.0
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	RAINBOW VALLEY	16	2	14	0	-128.3 to 58.3	-13.4	-16.5	37.8	-0.8	-0.7
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	RAINBOW VALLEY	14	1	12	1	-61.7 to 24.7	-12.7	-18.8	23.5	-1.9	-1.3
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	RAINBOW VALLEY	16	0	8	8	-20.7 to -0.4	-1.1	-4.3	6.3	-4.3	-1.1
20 Year	9/30/2001-10/1/2021	PHOENIX AMA	WEST SALT RIVER	50	14	33	3	-34.1 to 170.4	-4.7	3.2	38.2	0.2	-0.2
10 Year	9/30/2011-10/1/2021	PHOENIX AMA	WEST SALT RIVER	102	39	59	4	-33 to 69.3	-3.2	0.0	18.0	0.0	-0.3
1 Year	9/30/2020-10/1/2021	PHOENIX AMA	WEST SALT RIVER	108	43	26	39	-22.2 to 13.5	0.3	0.1	4.4	0.1	0.3
20 Year	9/30/2001-10/1/2021	PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	PINAL AMA	AGUIRRE VALLEY	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	PINAL AMA	ELOY	81	26	53	2	-91.7 to 106.1	-8.7	-11.4	36.3	-0.6	-0.4
10 Year	9/30/2011-10/1/2021	PINAL AMA	ELOY	68	23	44	1	-57.1 to 48.6	-5.8	-6.9	17.9	-0.7	-0.6
1 Year	9/30/2020-10/1/2021	PINAL AMA	ELOY	96	19	43	34	-25.8 to 34.3	-0.8	-0.8	6.1	-0.8	-0.8
20 Year	9/30/2001-10/1/2021	PINAL AMA	MARICOPA - STANFIELD	19	14	5	0	-18.4 to 130.8	46.4	39.7	47.0	2.0	2.3
10 Year	9/30/2011-10/1/2021	PINAL AMA	MARICOPA - STANFIELD	30	18	12	0	-70.7 to 35.4	12.2	6.7	22.0	0.7	1.2
1 Year	9/30/2020-10/1/2021	PINAL AMA	MARICOPA - STANFIELD	31	10	9	12	-15.9 to 5.6	0.5	-0.6	4.3	-0.6	0.5
20 Year	9/30/2001-10/1/2021	PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	PINAL AMA	SANTA ROSA	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	PINAL AMA	VEKOL VALLEY	8	3	3	2	-3 to 7.6	0.5	0.8	3.5	0.0	0.0
10 Year	9/30/2011-10/1/2021	PINAL AMA	VEKOL VALLEY	9	4	3	2	-6.3 to 7.5	1.0	0.2	3.9	0.0	0.1
1 Year	9/30/2020-10/1/2021	PINAL AMA	VEKOL VALLEY	8	0	2	6	-7.9 to 0.7	0.1	-1.2	2.9	-1.2	0.1
20 Year	9/30/2001-10/1/2021	PRESCOTT AMA	LITTLE CHINO VALLEY	34	4	30	0	-143.9 to 31.5	-28.2	-32.2	35.8	-1.6	-1.4
10 Year	9/30/2011-10/1/2021	PRESCOTT AMA	LITTLE CHINO VALLEY	41	1	38	2	-69.8 to 1.4	-9.5	-12.5	13.8	-1.3	-0.9
1 Year	9/30/2020-10/1/2021	PRESCOTT AMA	LITTLE CHINO VALLEY	35	3	22	10	-14.2 to 10	-1.3	-1.6	3.9	-1.6	-1.3
20 Year	9/30/2001-10/1/2021	PRESCOTT AMA	UPPER AGUA FRIA	19	4	13	2	-51.4 to 81.4	-6.3	-1.5	28.4	-0.1	-0.3
10 Year	9/30/2011-10/1/2021	PRESCOTT AMA	UPPER AGUA FRIA	21	5	14	2	-16 to 55.4	-3.2	0.9	18.0	0.1	-0.3
1 Year	9/30/2020-10/1/2021	PRESCOTT AMA	UPPER AGUA FRIA	12	1	2	9	-10.4 to 29.3	0.2	1.0	9.7	1.0	0.2
20 Year	9/30/2001-10/1/2021	RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	15	1	13	1	-130.9 to 21.8	-13.7	-28.3	40.4	-1.4	-0.7
10 Year	9/30/2011-10/1/2021	RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	14	1	13	0	-104.6 to 32.3	-7.8	-17.7	31.7	-1.8	-0.8
1 Year	9/30/2020-10/1/2021	RANEGRAS PLAIN BASIN	RANEGRAS PLAIN	15	3	7	5	-4.8 to 7.5	-0.6	-0.9	3.0	-0.9	-0.6
20 Year	9/30/2001-10/1/2021	SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	9	3	3	3	-18.1 to 30.3	-0.7	-0.1	13.1	0.0	0.0
10 Year	9/30/2011-10/1/2021	SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	17	2	9	6	-14.2 to 6.9	-1.1	-2.0	4.5	-0.2	-0.1
1 Year	9/30/2020-10/1/2021	SACRAMENTO VALLEY BASIN	SACRAMENTO VALLEY	17	0	3	14	-11.7 to 0.9	0.1	-0.9	3.0	-0.9	0.1
20 Year	9/30/2001-10/1/2021	SAFFORD BASIN	GILA VALLEY	13	1	11	1	-24.8 to 17.5	-8.8	-9.0	11.5	-0.4	-0.4
10 Year	9/30/2011-10/1/2021	SAFFORD BASIN	GILA VALLEY	12	0	9	3	-13.4 to -0.2	-7.1	-5.7	4.1	-0.6	-0.7
1 Year	9/30/2020-10/1/2021	SAFFORD BASIN	GILA VALLEY	20	4	7	9	-8 to 3.3	-0.6	-0.8	2.5	-0.8	-0.6
20 Year	9/30/2001-10/1/2021	SAFFORD BASIN	SAN CARLOS VALLEY	1	0	1	0	-64.9 to -64.9	-64.9	-64.9	N/A	-3.2	-3.2
10 Year	9/30/2011-10/1/2021	SAFFORD BASIN	SAN CARLOS VALLEY	1	0	1	0	-27.9 to -27.9	-27.9	-27.9	N/A	-2.8	-2.8
1 Year	9/30/2020-10/1/2021	SAFFORD BASIN	SAN CARLOS VALLEY	1	1	0	0	5.4 to 5.4	5.4	5.4	N/A	5.4	5.4
20 Year	9/30/2001-10/1/2021	SAFFORD BASIN	SAN SIMON VALLEY	14	0	14	0	-172.9 to -1.9	-18.1	-35.7	47.6	-1.8	-0.9
10 Year	9/30/2011-10/1/2021	SAFFORD BASIN	SAN SIMON VALLEY	18	0	17	1	-144.5 to -0.7	-16.5	-39.2	46.8	-3.9	-1.7
1 Year	9/30/2020-10/1/2021	SAFFORD BASIN	SAN SIMON VALLEY	15	2	7	6	-7.8 to 2.9	-0.6	-1.2	2.7	-1.2	-0.6
20 Year	9/30/2001-10/1/2021	SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	SALT RIVER BASIN	BLACK RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	SALT RIVER BASIN	SALT RIVER CANYON	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	SALT RIVER BASIN	SALT RIVER CANYON	1	0	1	0	-21.4 to -21.4	-21.4	-21.4	N/A	-2.1	-2.1
1 Year	9/30/2020-10/1/2021	SALT RIVER BASIN	SALT RIVER CANYON	1	0	0	1	0.1 to 0.1	0.1	0.1	N/A	0.1	0.1
20 Year	9/30/2001-10/1/2021	SALT RIVER BASIN	SALT RIVER LAKES	1	1	0	0	6.1 to 6.1	6.1	6.1	N/A	0.3	0.3
10 Year	9/30/2011-10/1/2021	SALT RIVER BASIN	SALT RIVER LAKES	1	0	1	0	-2.3 to -2.3	-2.3	-2.3	N/A	-0.2	-0.2
1 Year	9/30/2020-10/1/2021	SALT RIVER BASIN	SALT RIVER LAKES	2	1	1	0	-7.9 to 4.1	-1.9	-1.9	8.5	-1.9	-1.9
20 Year	9/30/2001-10/1/2021	SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	SALT RIVER BASIN	WHITE RIVER	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	1	0	1	0	-2.2 to -2.2	-2.2	-2.2	N/A	-0.1	-0.1
10 Year	9/30/2011-10/1/2021	SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	1	0	0	1	-0.4 to -0.4	-0.4	-0.4	N/A	0.0	0.0
1 Year	9/30/2020-10/1/2021	SAN BERNADINO VALLEY BASIN	SAN BERNADINO VALLEY	11	0	0	11	-0.5 to 0.7	-0.1	0.0	0.4	0.0	-0.1
20 Year	9/30/2001-10/1/2021	SAN RAFAEL BASIN	SAN RAFAEL	4	0	4	0	-19.6 to -2.1	-9.1	-10.0	7.3	-0.5	-0.5
10 Year	9/30/2011-10/1/2021	SAN RAFAEL BASIN	SAN RAFAEL	5	0	3	2	-5.4 to -0.5	-1.4	-1.9	2.0	-0.2	-0.1
1 Year	9/30/2020-10/1/2021	SAN RAFAEL BASIN	SAN RAFAEL	5	0	3	2	-9.4 to 0.2	-1.9	-3.9	4.6	-3.9	-1.9
20 Year	9/30/2001-10/1/2021	SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	SAN SIMON WASH BASIN	SAN SIMON WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	SANTA CRUZ AMA	SANTA CRUZ AMA	29	3	23	3	-36 to 2.6	-6.3	-11.1	11.5	-0.6	-0.3
10 Year	9/30/2011-10/1/2021	SANTA CRUZ AMA	SANTA CRUZ AMA	39	11	17	11	-12.3 to 13.2	-0.7	-1.0	4.9	-0.1	-0.1
1 Year	9/30/2020-10/1/2021	SANTA CRUZ AMA	SANTA CRUZ AMA	54	16	18	20	-19 to 17.6	-0.3	-0.7	6.0	-0.7	-0.3
20 Year	9/30/2001-10/1/2021	SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A

Appendix 4. Statewide Groundwater level change statistics in Arizona by Sub-basin - Water Years 2001 to 2021, 2011 to 2021, and 2020 to 2021

WL Change	WL Change Time Period	Basin/AMA	Sub-basin	WL Change Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Median Rate of WL Change [ft/yr]
1 Year	9/30/2020-10/1/2021	SHIVWITS PLATEAU BASIN	SHIVWITS PLATEAU	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	TIGER WASH BASIN	TIGER WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	TIGER WASH BASIN	TIGER WASH	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	TIGER WASH BASIN	TIGER WASH	2	0	1	1	-6.8 to -0.5	-3.7	-3.7	4.5	-3.7	-3.7
20 Year	9/30/2001-10/1/2021	TONTO CREEK BASIN	TONTO CREEK	6	3	2	1	-2.9 to 10.1	1.3	2.7	5.3	0.1	0.1
10 Year	9/30/2011-10/1/2021	TONTO CREEK BASIN	TONTO CREEK	8	3	5	0	-9.1 to 7	-1.6	-0.5	5.4	0.0	-0.2
1 Year	9/30/2020-10/1/2021	TONTO CREEK BASIN	TONTO CREEK	14	6	4	4	-37 to 6.9	0.5	-2.5	10.9	-2.5	0.5
20 Year	9/30/2001-10/1/2021	TUCSON AMA	AVRA VALLEY	42	28	10	4	-53.3 to 156.4	25.8	25.9	42.6	1.3	1.3
10 Year	9/30/2011-10/1/2021	TUCSON AMA	AVRA VALLEY	40	16	15	9	-67.5 to 130.2	0.1	9.5	36.1	1.0	0.0
1 Year	9/30/2020-10/1/2021	TUCSON AMA	AVRA VALLEY	48	16	10	22	-16.3 to 8	0.5	0.3	4.2	0.3	0.5
20 Year	9/30/2001-10/1/2021	TUCSON AMA	UPPER SANTA CRUZ	36	15	19	2	-92 to 110.7	-3.3	-0.4	35.7	0.0	-0.2
10 Year	9/30/2011-10/1/2021	TUCSON AMA	UPPER SANTA CRUZ	46	17	25	4	-25.8 to 77.5	-2.4	0.7	18.6	0.1	-0.2
1 Year	9/30/2020-10/1/2021	TUCSON AMA	UPPER SANTA CRUZ	59	13	35	11	-41.5 to 25.7	-1.4	-2.7	8.1	-2.7	-1.4
20 Year	9/30/2001-10/1/2021	UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	2	0	1	1	-16.2 to 0.1	-8.1	-8.1	11.5	-0.4	-0.4
10 Year	9/30/2011-10/1/2021	UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	3	0	3	0	-20.5 to -2.3	-4.6	-9.1	9.9	-0.9	-0.5
1 Year	9/30/2020-10/1/2021	UPPER HASSAYAMPA BASIN	UPPER HASSAYAMPA	2	0	0	2	-0.4 to 0.6	0.1	0.1	0.7	0.1	0.1
20 Year	9/30/2001-10/1/2021	UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2011-10/1/2021	UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	UPPER SAN PEDRO BASIN	ALLEN FLAT	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/2001-10/1/2021	UPPER SAN PEDRO BASIN	SIERRA VISTA	37	5	32	0	-60.8 to 11.6	-9.4	-11.1	13.1	-0.6	-0.5
10 Year	9/30/2011-10/1/2021	UPPER SAN PEDRO BASIN	SIERRA VISTA	43	4	32	7	-25.4 to 17.5	-4.1	-4.9	7.4	-0.5	-0.4
1 Year	9/30/2020-10/1/2021	UPPER SAN PEDRO BASIN	SIERRA VISTA	45	6	15	24	-8.8 to 8.1	-0.4	-0.6	2.5	-0.6	-0.4
20 Year	9/30/2001-10/1/2021	VERDE RIVER BASIN	BIG CHINO	18	4	14	0	-16 to 9.3	-8.4	-6.5	8.0	-0.3	-0.4
10 Year	9/30/2011-10/1/2021	VERDE RIVER BASIN	BIG CHINO	54	12	35	7	-32.4 to 14.8	-4.5	-3.4	7.3	-0.3	-0.4
1 Year	9/30/2020-10/1/2021	VERDE RIVER BASIN	BIG CHINO	75	18	17	40	-15.2 to 31.3	-0.2	-0.3	5.1	-0.3	-0.2
20 Year	9/30/2001-10/1/2021	VERDE RIVER BASIN	VERDE CANYON	11	9	1	1	-63.6 to 75.6	10.5	13.1	34.5	0.7	0.5
10 Year	9/30/2011-10/1/2021	VERDE RIVER BASIN	VERDE CANYON	19	12	5	2	-12 to 67.6	4.5	16.7	25.4	1.7	0.4
1 Year	9/30/2020-10/1/2021	VERDE RIVER BASIN	VERDE CANYON	17	11	2	4	-33.5 to 55.9	18.5	18.6	24.8	18.6	18.5
20 Year	9/30/2001-10/1/2021	VERDE RIVER BASIN	VERDE VALLEY	31	6	22	3	-50.2 to 31.5	-5.2	-7.1	15.8	-0.4	-0.3
10 Year	9/30/2011-10/1/2021	VERDE RIVER BASIN	VERDE VALLEY	45	5	28	12	-53.2 to 33.1	-2.0	-4.3	12.7	-0.4	-0.2
1 Year	9/30/2020-10/1/2021	VERDE RIVER BASIN	VERDE VALLEY	48	11	14	23	-26.8 to 21.6	0.0	-1.3	6.8	-1.3	0.0
20 Year	9/30/2001-10/1/2021	VIRGIN RIVER BASIN	VIRGIN RIVER	3	0	2	1	-2.8 to -0.1	-1.7	-1.5	1.4	-0.1	-0.1
10 Year	9/30/2011-10/1/2021	VIRGIN RIVER BASIN	VIRGIN RIVER	4	0	4	0	-4.6 to -1.1	-2.2	-2.5	1.5	-0.2	-0.2
1 Year	9/30/2020-10/1/2021	VIRGIN RIVER BASIN	VIRGIN RIVER	5	1	1	3	-1.5 to 1.2	-0.3	-0.3	1.0	-0.3	-0.3
20 Year	9/30/2001-10/1/2021	WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	1	0	1	0	-17.9 to -17.9	-17.9	-17.9	N/A	-0.9	-0.9
10 Year	9/30/2011-10/1/2021	WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	0	0	0	0	0 to 0	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2020-10/1/2021	WESTERN MEXICAN DRAINAGE BASIN	WESTERN MEXICAN DRAINAGE	4	0	2	2	-6.8 to -0.4	-2.8	-3.2	3.1	-3.2	-2.8
20 Year	9/30/2001-10/1/2021	WILLCOX BASIN	WILLCOX	18	1	17	0	-149.2 to 7.1	-58.8	-64.0	42.7	-3.2	-2.9
10 Year	9/30/2011-10/1/2021	WILLCOX BASIN	WILLCOX	25	2	22	1	-108.5 to 7.3	-31.5	-32.0	28.9	-3.2	-3.2
1 Year	9/30/2020-10/1/2021	WILLCOX BASIN	WILLCOX	37	3	30	4	-56.8 to 4.8	-6.2	-7.1	10.2	-7.1	-6.2
20 Year	9/30/2001-10/1/2021	YUMA BASIN	YUMA	5	0	4	1	-35.7 to 0.1	-6.1	-13.0	15.5	-0.6	-0.3
10 Year	9/30/2011-10/1/2021	YUMA BASIN	YUMA	7	0	5	2	-15.4 to -0.2	-6.8	-7.4	6.2	-0.7	-0.7
1 Year	9/30/2020-10/1/2021	YUMA BASIN	YUMA	7	3	1	3	-1.8 to 1.5	1.0	0.4	1.2	0.4	1.0