ARIZONA DEPARTMENT OF WATER RESOURCES
Hydrology Division / Field Services Section

STATEWIDE GROUNDWATER LEVEL CHANGES IN ARIZONA WATER YEARS 1993 TO 2013, 2003 TO 2013, AND 2012 TO 2013

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By
Teri Davis, James Dieckhoff and Scott Stuk

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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 ("groundwater levels") within wells located throughout Arizona and parts of New Mexico for the last 20-year, 10-year, and one-year time periods (1993-2013, 2003-2013, and 2012-2013). This report highlights noteworthy recent groundwater level trends and compiles data for additional analysis and future investigations. Hydrologic interpretations (for causes of observed groundwater level changes) or interpolation of groundwater level changes between wells were not within the scope of this report.

Information provided in this report includes:

- measured groundwater level data for each year (1993, 2003, 2012, and 2013) at each well
- calculated groundwater level change for each time interval for each well
- maps showing groundwater level change statewide and for each Active Management Area (AMA) for each time interval
- descriptions of observed groundwater level changes on a well-by-well basis
- groundwater level change statistics for each Basin, Sub-basin, and Water Planning Area.

Other recent ADWR reports include (Corkhill, 2012) which 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. A listing of groundwater basins, AMAs, and sub-basins in Arizona is provided in Appendix 1. Figure 1 shows the boundaries of groundwater basins, sub-basins, and Water Planning Areas (Arizona Department of Water Resources, 2010).

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 four water years: 1993, 2003, 2012, and 2013. Note that the term Water Year (WY), generally a term associated with surface water data, is used to denote the beginning of the field data collection season, from October 1st of each year to September 30th of the next year. 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.

As noted above, data from the following WYs are compared in the report for groundwater level change: 1993-2013, 2003-2013, and 2012 -2013. Initial datasets queried from GWSI contain all WL measurements for a well for a WY of interest. Data sets were then reduced to measurements within comparable timeframes between WYs such as same month or season. Timeframes believed to represent "static" aquifer conditions were selected for analysis.

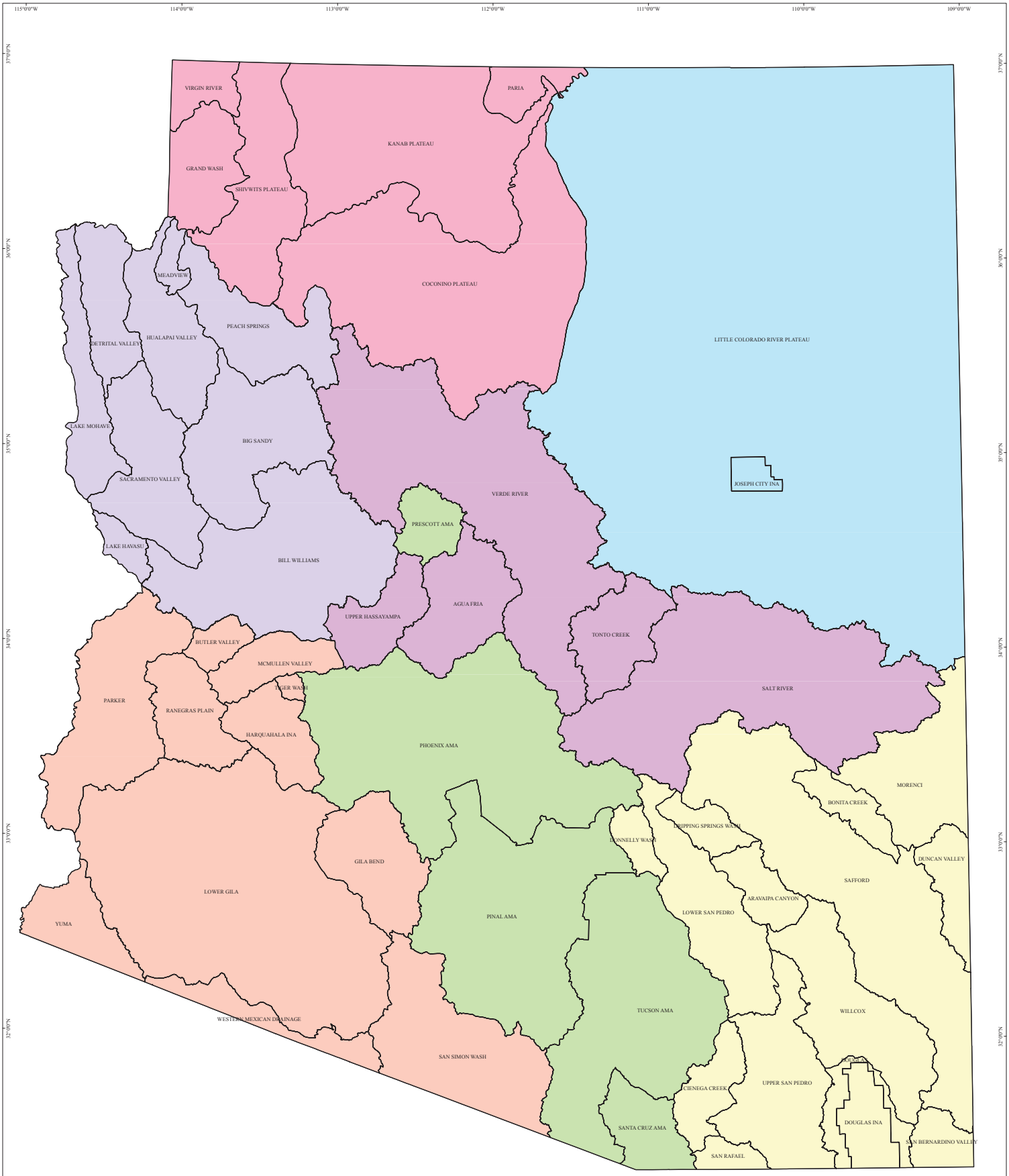


Figure 1 - Arizona Groundwater Basins, Sub-basins and Water Atlas Planning Areas

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

When multiple WL measurements were made during the timeframe 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 timeframes (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. A review of the WL changes was made to identify any major anomalies and potential measurement errors. Also, based upon a hydrograph review, WL records may have been chosen to more accurately reflect general groundwater level trends. Additional factors such as source and measurement method were also considered in selecting measurements for WL change comparison.

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 2 - 4 contain groundwater level datasets along with groundwater level changes for time periods 1993 - 2013, 2003-2013, and 2012-2013, respectively. Statewide WL change statistics per sub-basin are provided for time periods 1993 -2013, 2003-2013, and 2012-2013 in Appendix 5. WL change distribution graphs are compiled by AMA/Basin and sub-basin for time periods 1993 -2013, 2003-2013, and 2012-2013 in Appendix 6.

GROUNDWATER LEVEL DATA

The summaries below represent all WL data per WY as queried from GWSI prior to data reduction. As previously mentioned, datasets were further reduced to remove multiple groundwater level measurements for a specific well during the timeframe of interest. 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, a count of wells Unable to Measure (UTM), and an itemization 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 data sets used in this analysis are available for download through the ADWR GWSI website: https://gisweb.azwater.gov/waterresourcedata/GWSI.aspx.

Summary WY 1993

WY 1993 WL Data (10/1/1992 – 9/30/1993)				
Count of WL Records	*Range WL [ft]	Measurement Source	Unable to Measure (UTM)	Count of Remarked WLs
4134	-46.4 to 1337.9	ADWR (A) - 3610; USBR (B) - 156; Consultant (C) - 15; New Mexico Office of the State Engineer (E) - 7; Owner (O) - 123; SRP (S) - 3; City of Tucson (T) - 9; USGS (U) - 211	123	493

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

Remark Code	D	F	K	O	P	R	S	V	W	X	Z
Remark Description	Dry	Flowing	Cascading	Obstructed	Pumping	Recently Pumped	Nearby Pumping	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	52	3	10	40	275	32	17	30	31	1	2

Summary WY 2003

WY 2003 WL Data (10/1/2002 – 9/30/2003)				
Count of WL Records	Range WL [ft]	Measurement Source	Unable to Measure (UTM)	Count of Remarked WLs
4842	0 to 1961.7	ADWR (A) - 3609; USBR (B) - 24; Consultant (C) - 4; New Mexico Office of the State Engineer (E) - 4; APS (F) – 1; Military (J) – 36; Owner (O) - 237; Other Reported (R) – 1; City of Tucson (T) - 633; USGS (U) - 293	277	560

Remark Code	D	F	K	O	P	R	S	T	U	V	W	X	Z
Remark Description	Dry	Flowing	Cascading	Obstructed	Pumping	Recently Pumped	Nearby Pumping	Nearby Recently Pumped	Undetermined	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	71	2	32	75	75	79	26	3	4	70	121	1	1

Summary WY 2012

WY 2012 WL Data (10/6/2011 – 9/30/2012)				
Count of WL Records	Range WL [ft]	Measurement Source	Unable to Measure (UTM)	Count of Remarked WLs
2746	1.1 to 2844.4	ADWR (A) - 2013; Owner (O) - 2; Other Reported (R) – 1; City of Tucson (T) - 692	65	238

Remark Code	D	K	O	P	R	S	V	W	X	Z
Remark Description	Dry	Cascading	Obstructed	Pumping	Recently Pumped	Nearby Pumping	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	23	32	24	59	36	27	11	3	5	18

Summary WY 2013

WY 2013 WL Data (10/1/2012 – 9/26/2013)				
Count of WL Records	Range WL [ft]	Measurement Source	Unable to Measure (UTM)	Count of Remarked WLs
2197	1.5 to 2845.1	ADWR (A) - 2156; Owner (O) - 4; SRP (S) - 37	76	231

Remark Code	D	K	M	O	P	R	S	V	W	X	Z
Remark Description	Dry	Cascading	Well Plugged	Obstructed	Pumping	Recently Pumped	Nearby Pumping	Foreign Material (Oil)	Well Destroyed	Surface Water Effects	Other
Remark Frequency	18	19	1	20	66	35	27	16	3	5	21

GROUNDWATER LEVEL CHANGE

Statewide: Water Years 1993 -2013

General Observations

Appendix 2 provides a table of information for WL measurements made in Arizona for WYs 1993 and 2013. The table is sorted by AMA, then sub-basin, then cadastral or well site. Groundwater level change data is provided for each comparable WL measurement per well site for which a WL was collected and available in GWSI. This summary consists of 844 records that include all reduced data and all remarked comparable measurements (see previous section for method).

Plate 1 shows long term (20 year) WL change statewide (from data in Appendix 2). Rises in groundwater level are shown in blue, declines in red, and no change (less than one foot) are shown in green. The sizes of the well symbols are proportional to the magnitude of groundwater level changes. WL measurements with remarks were plotted when 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.

Clusters of wells with either rising or declining WLs are shown in Plate 1. In general, large declines occurred in the southeastern portion of the state, the Gila Bend Basin, and portions of the Little Colorado River Plateau and in parts of the Payson area and Tonto Creek Basin. Moderate declines occurred in the Prescott AMA and lower portions of the Verde River Basin, as well as Parker, Ranegras Plain, Butler Valley, and McMullen Basins. Moderate to small declines occurred in the southern and southwestern areas of the Lower Gila, eastern and southern Tucson AMA, and upper portions of the Santa Cruz AMA. Additional declines were observed in portions of the Hualapai Valley Basin, Big Sandy Basin, and some areas in the northeastern portion of the state.

Large rises in WLs generally occurred in the eastern, north central and southeastern portions of the Phoenix AMA, western, northwestern and southeastern portions of Pinal AMA, and the western portion of the Tucson AMA. Moderate rises were observed in the Harquahala Irrigation Non-Expansion Area (INA) while additional clustering of groundwater level rises occurred in the east-central and south-central portions of the Phoenix AMA. Additional rises occurred in the Bill Williams Basin, northeastern Lower Gila Basin and some portions of northeastern Arizona.

Generally, wells showing little or no groundwater level change were randomly located throughout the state. However, small areas of little or no change in groundwater level were noted in the eastern Flagstaff area and in the southwest Tucson and central Phoenix AMAs.

Statistics by Sub-basin

Appendix 2 data were further reduced by removing selected measurements that were inappropriate for statistical analyses. A total of 110 records were not used in statistical calculations, leaving 734 comparable groundwater level measurements for WL change statistics (Table 1).

Table 1 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;
- minimum, maximum, median and mean depth-to-groundwater per sub-basin.

The Eloy (ELO) Sub-basin of the Pinal AMA had the largest number of rising groundwater level measurements (78) of any sub-basin in the state. The West Salt River (WSR) Sub-basin of the Phoenix AMA had the largest number of declining groundwater level measurements (36) of any sub-basin during the 1993-2013 time interval.

Statewide, WL change ranged from a maximum decline of -251.1 feet in the McMullen (MMU) Basin to a maximum rise of 485 feet in the East Salt River (ESR) Basin. The mean WL change was negative in 61 percent of the basins measured, while 32 percent of the basins showed a mean WL rise. Negligible (< +/- 1 foot) groundwater level changes occurred in 7 percent of the basins measured. The greatest median (-63.5 feet) and mean (-73.5 feet) groundwater level declines occurred in the Verde Canyon Sub-basin of the Verde River Basin (for the time period WY 1993 - WY 2013). The greatest median rise in groundwater level (65.4 feet) occurred in the Maricopa-Stanfield Sub-basin of the Pinal AMA, and greatest mean rise in groundwater level (62.2 feet) occurred in the Fountain Hills Sub-basin of the Phoenix AMA.

Statewide statistics shown in Table 1 include a well count of 734 wells: 282 wells with rising WLs; 450 wells with declining WLs; and 2 wells with no change in WL.

Other statewide statistics include:

- range of WL change from -251.1 to 485 feet;
- median WL change of -2.6 feet, mean WL change of -0.3 feet, standard deviation of WL change of 47.9 feet;
- mean rate of WL change of 0 feet per year;
- minimum WL of 5 feet, maximum WL of 1042 feet, median WL of 164.9 feet, and mean WL of 214.66 feet.

Statistics by Water Atlas Planning Area

A similar statistical summary of groundwater level change data is provided in Table 2 for Water Atlas Planning Areas. For WY 1993 - WY 2013, the Southeastern Planning Area had the greatest percentage of wells with declining groundwater levels; out of 119 measured, 104 had declining groundwater levels (87 percent). New Mexico had the greatest percent of rise in groundwater levels at 57 percent or 4 out of 7 wells measured, and then the AMAs had the next greatest percent of rise with 53 percent or 198 out of 374 wells measured.

Table 1 Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by Sub-basin – WYs 1993 to 2013

Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
AGF	AGF	4	0	4	0	-24.2 to -0.4	-6.7	-9.5	10.3	-0.5	22.3	65.1	42.4	43.0
ARA	ARA	1	0	1	0	-28.5 to -28.5	-28.5	-28.5	N/A	-1.4	135.3	135.3	135.3	135.3
BIS	FTR	1	1	0	0	4.6 to 4.6	4.6	4.6	N/A	0.2	123.6	123.6	123.6	123.6
BIS	WIK	6	2	3	1	-27.72 to 4.8	-1.0	-6.5	12.3	-0.3	14.7	372.5	101.8	149.9
BUT	BUT	7	0	7	0	-44.9 to -1.5	-8.8	-12.9	14.6	-0.6	94.0	514.2	221.2	252.0
BWM	ALR	3	3	0	0	2.1 to 4.2	2.6	3.0	1.1	0.1	51.1	639.9	137.3	276.1
BWM	CLA	1	1	0	0	2.8 to 2.8	2.8	2.8	N/A	0.1	20.5	20.5	20.5	20.5
BWM	SKU	7	2	5	0	-54.1 to 13.8	-2.6	-7.5	21.6	-0.4	81.8	248.5	111.7	155.8
BWM	SMR	4	1	3	0	-9.5 to 2.5	-1.8	-2.6	5.1	-0.1	17.9	75.5	47.5	47.1
CCK	CCK	5	1	4	0	-8.4 to 0.8	-3.9	-3.6	3.4	-0.2	26.6	204.7	178.4	146.5
DET	DET	5	3	2	0	-1.1 to 1.9	1.2	0.7	1.3	0.0	57.5	594.5	303.5	322.5
DOU	DIN	19	1	18	0	-100.3 to 8.9	-19.0	-25.7	28.3	-1.3	69.5	377.9	130.7	169.9
DOU	DOU	1	1	0	0	23.6 to 23.6	23.6	23.6	N/A	1.2	232.2	232.2	232.2	232.2
DSW	DSW	2	0	2	0	-65.3 to -55.73	-60.5	-60.5	6.8	-3.0	75.6	98.9	87.3	87.3
DUN	DNM	3	2	1	0	-0.6 to 1.6	1.5	0.8	1.2	0.0	126.1	317.3	275.7	239.7
DUN	DUN	7	0	7	0	-22.3 to -1	-8.3	-10.3	6.9	-0.5	23.7	192.8	54.1	79.4
GIL	GIL	16	1	15	0	-146.7 to 18.4	-39.8	-47.2	41.6	-2.4	37.5	656.1	277.2	306.9
HAR	HAR	26	16	10	0	-44.5 to 41.1	5.8	3.9	25.0	0.2	38.6	607.6	384.3	343.0
HUA	HUA	3	0	3	0	-33.3 to -1.3	-10.3	-15.0	16.5	-0.7	558.8	929.2	587.3	691.8
KAN	KAN	3	1	2	0	-4.2 to 1	-0.6	-1.3	2.7	-0.1	87.6	611.3	484.7	394.5
LCR	JCI	2	0	2	0	-31.4 to -16.1	-23.8	-23.8	10.8	-1.2	44.3	50.9	47.6	47.6
LCR	LCR	28	4	24	0	-84.05 to 4.4	-5.0	-11.2	18.7	-0.6	27.6	710.3	155.8	209.2
LGB	CHV	1	1	0	0	17.1 to 17.1	17.1	17.1	N/A	0.9	672.9	672.9	672.9	672.9
LGB	WEM	21	8	13	0	-121.1 to 10.8	-1.9	-8.3	28.7	-0.4	13.1	388.0	106.7	138.6
LKH	LKH	1	1	0	0	29.8 to 29.8	29.8	29.8	N/A	1.5	25.8	25.8	25.8	25.8
LSP	CGW	1	0	1	0	-37.4 to -37.4	-37.4	-37.4	N/A	-1.9	72.8	72.8	72.8	72.8
LSP	MAM	5	1	4	0	-30.51 to 6.2	-2.6	-6.3	14.0	-0.3	16.1	490.1	44.7	177.8
MEA	MEA	1	0	1	0	-30.83 to -30.83	-30.8	-30.8	N/A	-1.5	424.0	424.0	424.0	424.0
MHV	MHV	2	1	1	0	-2 to 19.5	8.8	8.8	15.2	0.4	345.0	427.1	386.1	386.1
MMU	MMU	16	2	14	0	-251.1 to 39.5	-31.2	-41.6	60.8	-2.1	44.3	676.6	445.2	429.1
MOR	MOR	3	1	2	0	-8.6 to 8.8	-0.7	-0.2	8.7	0.0	14.3	503.8	81.3	199.8
PAR	PAR	2	1	1	0	-20.3 to 0.2	-10.5	-10.1	14.5	-0.5	131.6	498.9	315.3	315.3
PHX	CRF	4	3	1	0	-55.3 to 124.6	32.6	33.6	73.7	1.7	108.8	339.7	205.2	214.7
PHX	ESR	57	40	17	0	-55.2 to 485	52.8	54.4	84.1	2.7	59.8	847.7	325.3	329.5
PHX	FNH	6	3	3	0	-6.7 to 350.8	3.7	62.2	141.8	3.1	14.0	326.4	119.2	133.0
PHX	HAS	20	9	11	0	-13.85 to 138.85	-0.3	14.5	37.4	0.7	28.7	426.3	154.7	178.9

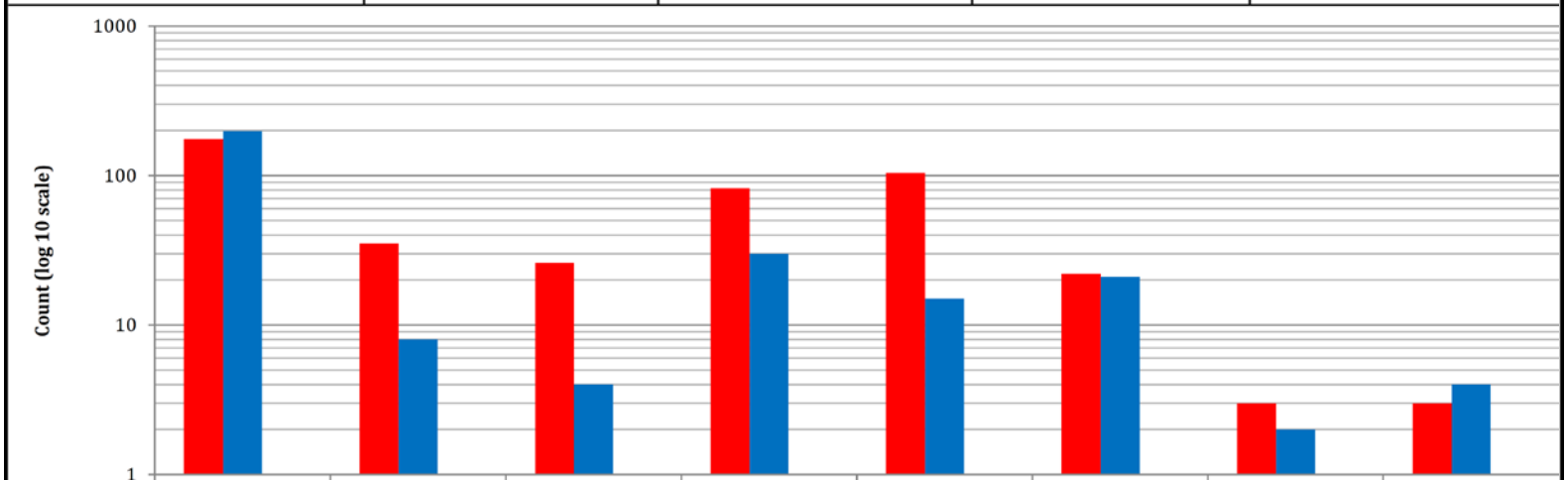
Table 1 Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by Sub-basin – WYs 1993 to 2013

Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
PHX	LKP	4	3	1	0	-12.4 to 25.1	9.5	7.9	15.5	0.4	58.7	277.2	208.0	188.0
PHX	WAT	14	5	9	0	-67.6 to 54.3	-3.9	-7.4	31.0	-0.4	250.1	576.6	369.8	370.7
PHX	WSR	62	25	36	1	-52.1 to 142.7	-1.5	5.8	36.1	0.3	15.7	597.6	174.1	214.0
PIN	ELO	78	50	28	0	-111.6 to 102.9	16.5	9.9	39.7	0.5	38.1	459.9	211.8	226.0
PIN	MST	22	19	3	0	-49.7 to 144	65.4	58.1	49.8	2.9	64.9	664.8	362.1	336.3
PKB	CIB	1	0	1	0	-0.7 to -0.7	-0.7	-0.7	N/A	0.0	312.5	312.5	312.5	312.5
PKB	CRI	1	0	1	0	-1.5 to -1.5	-1.5	-1.5	N/A	-0.1	77.4	77.4	77.4	77.4
PKB	LPC	2	0	2	0	-15.9 to -5.8	-10.9	-10.9	7.1	-0.5	65.7	139.3	102.5	102.5
PRE	LIC	15	0	15	0	-38.8 to -12.6	-27.8	-27.0	8.2	-1.3	43.5	437.8	186.8	187.9
PRE	UAG	10	3	7	0	-80.6 to 8.41	-8.5	-15.4	26.0	-0.8	43.8	339.4	215.3	204.0
PSC	PSC	2	1	1	0	-1.7 to 0.1	-0.8	-0.8	1.3	0.0	146.5	221.8	184.2	184.2
RAN	RAN	16	1	15	0	-62.2 to 0.3	-9.6	-19.3	22.2	-1.0	85.2	438.1	264.3	261.7
SAC	SAC	8	5	3	0	-6.3 to 16.3	0.9	2.1	6.6	0.1	59.0	1042.0	596.3	574.6
SAF	SAF	11	2	9	0	-33.1 to 12.8	-11.0	-9.5	12.6	-0.5	25.6	636.7	59.1	121.1
SAF	SSI	19	6	13	0	-72.8 to 4.95	-9.8	-16.5	23.2	-0.8	47.7	542.0	131.8	164.4
SBV	SBV	1	0	1	0	-2 to -2	-2.0	-2.0	N/A	-0.1	30.7	30.7	30.7	30.7
SCA	SCA	7	1	6	0	-46.8 to 12	-5.0	-12.5	19.6	-0.6	25.7	203.6	84.6	111.1
SRB	USR	1	0	1	0	-5.8 to -5.8	-5.8	-5.8	N/A	-0.3	21.1	21.1	21.1	21.1
SRF	SRF	3	1	2	0	-25.5 to 0.63	-2.2	-9.0	14.3	-0.5	6.3	214.2	30.7	83.7
TIG	TIG	1	1	0	0	4.4 to 4.4	4.4	4.4	N/A	0.2	217.8	217.8	217.8	217.8
TON	TON	9	1	8	0	-31.3 to 0.26	-7.3	-10.3	10.3	-0.5	5.0	122.9	39.2	51.4
TUC	AVR	44	35	9	0	-18.9 to 79.8	23.8	23.4	26.0	1.2	14.7	601.2	248.3	263.8
TUC	USC	31	2	29	0	-72.6 to 56.7	-24.0	-23.6	25.4	-1.2	25.5	587.3	245.9	251.5
UHA	UHA	4	2	2	0	-2 to 7.2	1.6	2.1	4.4	0.1	8.9	814.6	413.1	412.4
USP	SEV	21	2	19	0	-20.6 to 26.6	-6.5	-6.6	10.8	-0.3	15.8	563.5	140.1	195.6
VRB	BIC	7	4	3	0	-5.4 to 21.5	4.7	5.2	8.8	0.3	23.0	190.8	67.1	99.5
VRB	LVR	8	0	8	0	-154.5 to -19.9	-63.5	-73.5	48.3	-3.7	91.6	351.1	204.4	220.9
VRB	VER	10	1	9	0	-64.7 to 14.3	-9.6	-16.7	23.8	-0.8	27.8	457.1	142.3	189.8
WIL	WIL	24	1	23	0	-143.2 to 8.8	-56.1	-61.1	42.0	-3.1	36.3	428.8	281.1	262.4
YUM	YUM	4	0	4	0	-14.6 to -1.9	-10.7	-9.5	5.8	-0.5	19.1	120.3	47.1	58.4
Statewide Statistics		734	282	450	2	-251.1 to 485	-2.6	-0.3	47.9	0.0	5.0	1042.0	164.9	214.7

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.

Table 2 Counts of wells with declines, rises, or no groundwater level change in Arizona by Water Atlas Areas – Water Years 1993 to 2013

Water Atlas Area	Total Well Count	Wells w/Declining WLs	Wells w/Rising WLs	Wells w/No Change in WLs
Active management areas	374	175	198	1
Central Highlands	43	35	8	0
Eastern Plateau	30	26	4	0
Lower Colorado River	112	82	30	0
SouthEastern Arizona	119	104	15	0
Upper Colorado River	44	22	21	1
Western Plateau	5	3	2	0
New Mexico	7	3	4	0
Total	**734**	**450**	**282**	**2**



	Active management areas	Central Highlands	Eastern Plateau	Lower Colorado River	SouthEastern Arizona	Upper Colorado River	Western Plateau	New Mexico
Declining	175	35	26	82	104	22	3	3
Rising	198	8	4	30	15	21	2	4
No change	1	0	0	0	0	1	0	0

Statewide: Water Years 2003 -2013

General Observations

Appendix 3 provides information for groundwater level measurements made in Arizona for Water Years 2003 and 2013. This summary includes 1,231 records for all reduced data and all remarked comparable measurements. Plate 2 shows long term WL change statewide as plotted from data in Appendix 3.

Clusters of wells showing groundwater level rises and declines are shown in Plate 2. In general, large declines are seen in the southeastern portion of the state, Gila Bend Basin, Harquahala INA, and the McMullen Basin. Large to moderate groundwater level declines occurred in the Prescott AMA; lower portions of the Verde River Basin; the Parker, Ranegras Plain, and Butler Valley Basins; the eastern portion of the Little Colorado River Plateau; as well as parts of the Payson area and Tonto Creek Basin. Moderate to smaller declines occurred in the southern and southwestern areas of the Lower Gila, eastern and southern Tucson AMA, and upper and lower portions of the Santa Cruz AMA. Additional declines occurred in portions of the Hualapai Valley Basin, Big Sandy Basin, and in other areas of the northern and northeastern portions of the state.

Large rises in groundwater levels generally occurred in southeastern, eastern, north central and northwestern portions of the Phoenix AMA, western, northwestern and southeastern portions of the Pinal AMA, as well as northwestern and central portions of the Tucson AMA. Moderate rises occurred in the northeastern Harquahala INA, while additional clustering of rises in the Phoenix AMA can be seen in both the east-central and south-central portions of the AMA. Additional rises are seen in the northern portion of the Big Chino Sub-basin, as well as parts of the Payson area and Tonto Creek Basin, Bill Williams Basin, Flagstaff area, northeastern Lower Gila Basin, and portions of the northeastern part of the state.

Minor changes in WLs (< +/-1 foot) were observed throughout the state, though not as geographically concentrated as rises and declines. Small exceptions were noted in the north-central and south-central portions of the Santa Cruz AMA, the lower portion of the Upper San Pedro Basin, and in portions of the southwestern Tucson and central Phoenix AMAs.

Statistics by Sub-Basin

Appendix 3 data was further reduced for statistical purposes by removing remarked measurements unconducive to statistical comparison. A total of 159 records were not used in statistical calculations, leaving 1,072 comparable WL measurements between well sites for WL change statistics summarized by sub-basin in Table 3.

Table 3 Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by Sub-basin – WYs 2003 to 2013

Basin/AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
AGF	AGF	6	4	2	0	-25.8 to 5	1.2	-4.5	11.8	-0.5	22.3	448.8	55.8	123.7
ARA	ARA	2	0	2	0	-13.9 to -5.5	-9.7	-9.7	5.9	-1.0	66.0	135.3	100.7	100.7
BIS	FTR	1	1	0	0	4.5 to 4.5	4.5	4.5	N/A	0.5	123.6	123.6	123.6	123.6
BIS	WIK	5	3	2	0	-4.7 to 3.5	0.1	-0.7	3.4	-0.1	14.7	372.5	105.8	170.8
BUT	BUT	8	0	8	0	-30.5 to -0.7	-7.7	-10.8	10.1	-1.1	94.0	514.2	221.1	245.2
BWM	ALR	4	4	0	0	0.6 to 6.1	1.0	2.2	2.6	0.2	51.1	639.9	386.7	366.1
BWM	CLA	1	1	0	0	3.5 to 3.5	3.5	3.5	N/A	0.4	98.3	98.3	98.3	98.3
BWM	SKU	7	2	5	0	-3.5 to 12.6	-0.1	1.2	5.7	0.1	35.4	248.5	111.7	149.2
BWM	SMR	4	2	2	0	-1.5 to 3.53	-0.3	0.4	2.2	0.0	17.9	75.5	47.5	47.1
CCK	CCK	8	1	7	0	-7.3 to 0.27	-2.8	-3.3	2.4	-0.3	21.9	207.4	108.9	113.0
COP	COP	2	1	1	0	-0.4 to 16.25	7.9	7.9	11.8	0.8	91.9	269.4	180.7	180.7
DET	DET	4	2	2	0	-1.16 to 3	0.2	0.5	1.8	0.1	57.5	594.5	382.3	354.2
DOU	DIN	17	1	16	0	-58.67 to 4	-10.6	-14.2	14.9	-1.4	71.8	377.9	130.7	172.1
DSW	DSW	2	1	1	0	-0.7 to 10.8	5.5	5.1	8.1	0.5	75.6	98.9	87.3	87.3
DUN	DNM	3	1	2	0	-0.6 to 0.7	0.0	0.0	0.7	0.0	126.1	317.3	275.7	239.7
DUN	DUN	7	0	7	0	-17.1 to -0.11	-3.8	-5.2	6.0	-0.5	23.7	192.8	54.1	79.4
GIL	GIL	15	1	14	0	-73.65 to 3.39	-37.4	-36.5	21.3	-3.6	37.5	656.1	275.3	306.4
HAR	HAR	20	5	15	0	-59.76 to 32.1	-16.3	-16.6	25.6	-1.7	25.4	607.6	384.3	350.7
HUA	HUA	8	3	5	0	-17.9 to 1	-0.6	-2.5	6.3	-0.2	264.2	654.1	406.1	448.9
KAN	KAN	2	0	2	0	-1.3 to -0.21	-0.8	-0.8	0.8	-0.1	87.6	611.3	349.5	349.5
LCR	JCI	1	0	1	0	-8.9 to -8.9	-8.9	-8.9	N/A	-0.9	50.9	50.9	50.9	50.9
LCR	LCR	36	16	20	0	-54.45 to 162.4	-0.9	1.9	31.2	0.2	24.9	1960.5	175.2	372.3
LGB	CHV	1	1	0	0	6.5 to 6.5	6.5	6.5	N/A	0.7	672.9	672.9	672.9	672.9
LGB	WEM	20	6	14	0	-52 to 13.6	-1.4	-3.4	12.6	-0.3	14.8	631.3	104.9	167.4
LKH	LKH	1	1	0	0	47.1 to 47.1	47.1	47.1	N/A	4.7	25.8	25.8	25.8	25.8
LSP	MAM	7	4	3	0	-25.26 to 75.97	1.4	8.0	32.1	0.8	16.1	490.1	44.7	120.3
MEA	MEA	1	0	1	0	-18.93 to -18.93	-18.9	-18.9	N/A	-1.9	424.0	424.0	424.0	424.0
MHV	MHV	2	1	1	0	-2 to 4.1	1.1	1.1	4.3	0.1	338.5	345.0	341.8	341.8
MMU	MMU	14	2	12	0	-85.8 to 55.8	-14.8	-15.9	29.7	-1.6	44.3	676.6	445.2	424.4
MOR	MOR	3	1	2	0	-7.39 to 2.1	-0.8	-2.0	4.9	-0.2	14.3	503.8	81.3	199.8
PAR	PAR	2	0	2	0	-22.6 to -17.3	-20.0	-20.0	3.7	-2.0	131.6	498.9	315.3	315.3
PHX	CRF	5	4	1	0	-14.15 to 87.5	41.1	34.1	41.0	3.4	28.7	339.7	161.2	177.5
PHX	ESR	113	86	27	0	-67 to 106.3	24.1	23.4	29.7	2.3	14.7	847.7	273.7	289.8
PHX	FNH	6	5	1	0	-117.8 to 161.1	6.6	24.4	94.2	2.4	55.1	650.3	181.3	242.8
PHX	HAS	45	23	22	0	-39.41 to 200.09	1.2	14.7	47.0	1.5	28.7	655.9	208.8	241.1
PHX	LKP	7	4	3	0	-9.91 to 11.7	4.2	2.1	7.6	0.2	28.8	277.2	203.8	154.2

Table 3 Groundwater level change statistics and counts of wells with declines, rises, or no WL change in Arizona by Sub-basin – WYs 2003 to 2013

Basin/AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
PHX	WAT	18	10	8	0	-54.41 to 23.89	2.3	0.9	16.9	0.1	250.1	447.6	364.4	361.5
PHX	WSR	175	110	65	0	-262.9 to 225.2	2.2	8.6	35.8	0.9	15.0	613.5	134.0	179.0
PIN	ELO	67	37	30	0	-97.8 to 53.2	3.0	-1.5	26.1	-0.2	48.8	459.9	211.2	223.2
PIN	MST	19	14	5	0	-12.1 to 69.25	24.2	25.5	25.6	2.5	64.9	664.8	347.6	336.7
PIN	VEK	8	3	5	0	-0.9 to 1	-0.3	-0.1	0.8	0.0	213.2	526.1	336.4	348.3
PKB	CIB	1	1	0	0	18 to 18	18.0	18.0	N/A	1.8	312.5	312.5	312.5	312.5
PKB	CRI	1	0	1	0	-1.8 to -1.8	-1.8	-1.8	N/A	-0.2	77.4	77.4	77.4	77.4
PKB	LPC	1	1	0	0	0.39 to 0.39	0.4	0.4	N/A	0.0	65.7	65.7	65.7	65.7
PRE	LIC	53	4	49	0	-73.1 to 18.7	-12.9	-13.4	13.9	-1.3	22.1	507.6	225.9	232.4
PRE	UAG	19	4	15	0	-74.5 to 82.4	-5.7	-2.9	31.2	-0.3	43.8	755.0	303.0	291.3
PSC	PSC	2	2	0	0	0.7 to 1.3	1.0	1.0	0.4	0.1	146.5	221.8	184.2	184.2
RAN	RAN	13	1	12	0	-31.4 to 0.19	-4.2	-8.4	10.5	-0.8	85.2	438.1	214.3	246.1
SAC	SAC	10	6	4	0	-3.4 to 19.5	0.6	2.2	6.6	0.2	36.2	1042.0	504.7	481.4
SAF	GSK	2	0	2	0	-32 to -5.4	-18.7	-18.7	18.8	-1.9	678.4	724.3	701.4	701.4
SAF	SAF	9	0	9	0	-13.5 to -0.51	-6.0	-6.1	4.9	-0.6	25.6	636.7	75.8	137.3
SAF	SSI	18	2	16	0	-45.01 to 1.3	-7.8	-11.9	14.0	-1.2	47.7	542.0	126.3	152.2
SBV	SBV	1	0	1	0	-0.22 to -0.22	-0.2	-0.2	N/A	0.0	30.7	30.7	30.7	30.7
SCA	SCA	32	10	22	0	-30.6 to 13.7	-1.7	-3.8	7.5	-0.4	14.6	316.6	42.0	84.7
SRB	USR	1	1	0	0	0.6 to 0.6	0.6	0.6	N/A	0.1	21.1	21.1	21.1	21.1
SRF	SRF	4	1	3	0	-11.6 to 1.3	-6.4	-5.8	6.5	-0.6	6.3	214.2	79.1	94.6
TON	TON	9	7	2	0	-13.4 to 59.3	2.9	8.1	20.3	0.8	6.2	122.9	39.2	50.9
TUC	AVR	37	30	7	0	-11.9 to 69.4	18.7	16.3	18.9	1.6	14.7	601.2	250.2	269.3
TUC	USC	37	20	17	0	-72.4 to 32.1	1.1	-1.0	21.2	-0.1	25.5	587.3	167.7	215.7
UHA	UHA	4	2	2	0	-2.9 to 9.3	0.8	2.0	5.4	0.2	8.9	814.6	413.1	412.4
USP	SEV	38	6	32	0	-26.25 to 27.8	-4.1	-3.0	8.9	-0.3	5.3	563.5	197.7	224.9
VRB	BIC	23	9	14	0	-67.9 to 13	-1.5	-3.2	15.4	-0.3	20.8	996.7	131.4	186.9
VRB	LVR	10	8	2	0	-127.8 to 42.1	12.8	0.0	49.2	0.0	84.6	365.1	197.1	198.5
VRB	VER	41	14	27	0	-37.9 to 44.4	-1.8	-0.7	11.1	-0.1	4.2	816.0	104.0	215.4
VRG	VRG	1	1	0	0	0.59 to 0.59	0.6	0.6	N/A	0.1	266.8	266.8	266.8	266.8
WIL	WIL	21	0	21	0	-84.01 to -3.3	-27.0	-33.3	23.5	-3.3	36.3	419.6	278.0	259.8
WMD	WMD	1	0	1	0	-43.9 to -43.9	-43.9	-43.9	N/A	-4.4	380.5	380.5	380.5	380.5
YUM	YUM	6	0	6	0	-20.3 to -0.5	-7.7	-8.7	7.6	-0.9	19.1	210.3	25.6	46.8
Statewide Statistics		1072	491	581	0	-262.9 to 225.2	-0.7	2.5	29.2	0.3	4.2	1960.5	182.7	229.6

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

The greatest number of groundwater level measurements (175 measurements) occurred in the West Salt River (WSR) Sub-basin of the Phoenix AMA. The WSR Sub-basin had the largest number of WL declines (65) and the greatest number of WL rises (110).

Statewide WL change ranged between a maximum groundwater level decline of -262.9 feet in the WSR Sub-basin of the Phoenix AMA to a maximum rise of 225.2 feet in the WSR Sub-basin. The mean WL change was negative in 45 percent of the basins measured and positive in 36 percent of basins measured. No change (WL change less than one foot) was observed in 19 percent of basins measured.

The Western Mexican Drainage Basin had the greatest median and mean decline in WL (-43.9 feet) for the time period WY 2003 - WY 2013. However, the well count was only one. The second largest median (-37.4 feet) and mean (-36.5 feet) groundwater level declines occurred in the Gila Bend Basin. The greatest median and mean rise in WL occurred in the Lake Havasu Basin at 47.1 feet, but again at a well count of one. The second largest median (41.1 feet) and mean (34.1 feet) WL rises occurred in the Carefree Sub-basin of Phoenix AMA.

Statewide statistics shown in Table 3 include a well count of 1,072 wells, 491 wells with rising WLs, 581 wells with declining WLs, and 0 wells with no change in WL.
Other statewide statistics include:

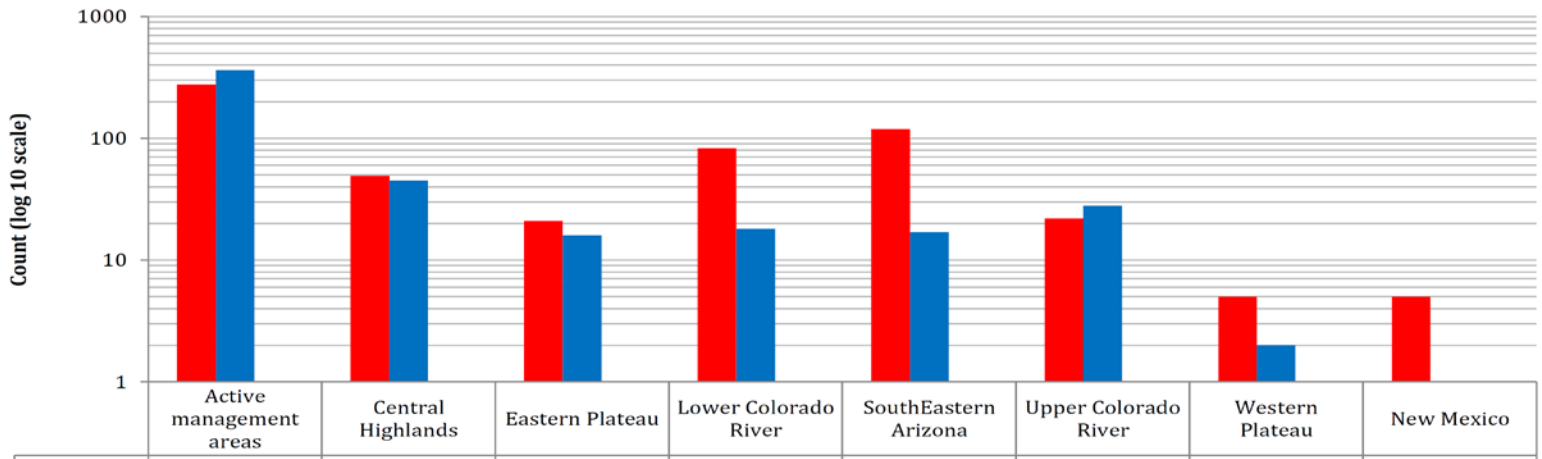
- range of WL change from -269.9 to 225.2 feet;
- median WL change of -0.7 feet, mean WL change of 2.5 feet, standard deviation of WL change of 29.2 feet;
- mean rate of WL change of 0.3 feet per year;
- minimum WL of 4.2 feet, maximum WL of 1960.5 feet, median WL of 182.7 feet, and mean WL of 229.7 feet.

Statistics by Water Atlas Planning Area

A summary of groundwater level change statistics by Water Atlas Planning Area is provided in Table 4. Table 4 includes the number of wells measured and the number of wells with declining, rising or no change in groundwater level. Table 4 also includes a bar chart of groundwater level change per Water Atlas Planning Area. For WY 2003 - WY 2013, the Southeastern Arizona Planning Area had the greatest percentage (88 percent) of wells with declining groundwater levels (or 119 out of 136 wells measured). The AMAs had the greatest percentage of wells with rising groundwater levels (57 percent, or 364 out of 641 measured). Plate 2 shows the distribution of statewide groundwater level changes for WY 2003 - WY 2013.

Table 4 Counts of wells with declines, rises, or no groundwater level change in Arizona by Water Atlas Areas – Water Years 2003 to 2013

Water Atlas Area	Total Well Count	Wells w/Declining WLs	Wells w/Rising WLs	Wells w/No Change in WLs
Active management areas	641	277	364	0
Central Highlands	94	49	45	0
Eastern Plateau	37	21	16	0
Lower Colorado River	101	83	18	0
SouthEastern Arizona	136	119	17	0
Upper Colorado River	50	22	28	0
Western Plateau	7	5	2	0
New Mexico	6	5	1	0
Total	**1072**	**581**	**491**	**0**



	Active management areas	Central Highlands	Eastern Plateau	Lower Colorado River	SouthEastern Arizona	Upper Colorado River	Western Plateau	New Mexico
Declining	277	49	21	83	119	22	5	5
Rising	364	45	16	18	17	28	2	1
No change	0	0	0	0	0	0	0	0

Statewide: Water Years 2012 -2013

General Observations

Appendix 4 provides information for groundwater level measurements made in Arizona for Water Years 2012 and 2013. This summary includes 1,457 records. Plate 3 shows short term statewide WL change trends from data in Appendix 4.

Geographic concentrations of both WL rises and declines are shown on Plate 3. In general, large to moderate one year declines are seen in the central Phoenix AMA and the eastern portion of the Pinal AMA. Moderate to small groundwater level declines occurred in the Prescott AMA, the central portion of the Big Chino Sub-basin, lower portions of the Verde River Basin, the western Butler Valley, the southern Ranegras Plain, the central portion of McMullen Valley, the western Harquahala INA, Gila Bend, the eastern portion of the Little Colorado River Plateau including the Show Low/ Pinetop area, parts of the Payson area and the Tonto Creek Basin. Moderate to small declines also occurred in the southern and southwestern part of the Lower Gila Basin, the eastern and southern Tucson AMA, the upper and lower portions of the Santa Cruz AMA, and southeastern Arizona. Additional declines occurred in portions of the Hualapai Valley and Big Sandy Basins.

Moderate rises in groundwater levels generally occurred in the southeastern, north central and northwestern portions of the Phoenix AMA, the northwestern and southeastern portions of the Pinal AMA, and central portions of the Tucson AMA. Moderate to small rises occurred in the central Santa Cruz AMA as well as parts of the Payson area and Tonto Creek Basin, central portions of the Little Colorado River Plateau, northern Lower Gila and portions of the northeastern part of the state.

No change in WL was observed in various wells located throughout the state. Small clusters of wells showing no change were located in the southwestern Tucson AMA, the Detrital and Sacramento Valleys, the eastern Pinal AMA, northern and southern portions of the Big Chino Sub-basin, and the northern Ranegras Plain Basin. Scattered wells with no groundwater level change were observed in all AMAs and in the southern portion of the Upper San Pedro Basin, northwestern and north-central Arizona.

Statistics by Sub-Basin

Appendix 4 data was further reduced for statistical purposes by removing remarked measurements unconducive to statistical comparison. A total of 210 records were not used in statistical calculations, leaving 1247 comparable WL measurements between well sites for WL change statistics as summarized by sub-basin in Table 5. Well counts per sub-basin were highest in Phoenix AMA WSR Sub-basin at 127 measurements. The Phoenix AMA WSR Sub-basin had the greatest number of declines observed (70 wells) while the East Salt River Sub-basin had the greatest number of rises in WL (61 wells).

WL change statewide ranged between a decline of -92.3 feet and a rise of 74.6 feet, both within the

Prescott AMA, Upper Agua Fria Sub-basin. Basins for which the mean WL change was declining totaled 45 percent, while rising mean WL change was observed in 9 percent of basins and no change (WL change less than one foot) was observed in 46 percent of basins. The basin with the greatest mean decline in WL was the Safford Basin, San Carlos Valley Sub-basin at -9.9 feet although the well count was only two. The next greatest mean decline in WL was in the Lower Colorado River Basin, Joseph City INA at -6.5 feet but again for only two wells. The Gila Bend Basin showed the next greatest mean decline in WL at -6.4 feet with a count of 20 wells. The greatest mean rise in WL was in the Pinal AMA, Eloy Sub-basin at 2.1 feet for a count of 73 wells.

Statewide statistics shown in Table 5 include a well count of 1,247 wells, 416 wells with rising WLs, 781 wells with declining WLs, and 53 wells with no change in WL.

Other statewide statistics include:

- the range of WL change from -92.3 to 74.6 feet;
- the median WL change of -0.6 feet, the mean WL change of -1.0 feet, the standard deviation of WL change of 8.9 feet;
- the mean rate of WL change of -1.0 feet per year;
- the minimum WL of 2.6 feet, the maximum WL of 2,842.9 feet, the median WL of 163.2 feet, and the mean WL of 232.1feet.

Statistics by Water Atlas Planning Area

Table 6 provides a summary of well measurements per Water Atlas Water Planning Area, including the number wells with declining, rising, or no change in groundwater level. For WY 2012 - WY 2013, southeastern Arizona had the greatest percentage of wells with declining groundwater levels (81 percent or 144 out of 178 wells measured). The AMAs had the greatest percentage of wells with rising groundwater levels (43 percent or 273 out of 640 well measured). Plate 3 shows the statewide distribution of WL changes for WY 2012 - WY 2013.

Table 5 Groundwater level change statistics and counts of wells with declines, rises, or no water level change in Arizona by Sub-basin – Water Years 2012 to 2013

Basin/AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
AGF	AGF	9	5	4	0	-2.3 to 2.66	0.1	0.0	1.4	0.0	4.9	448.8	38.3	88.2
ARA	ARA	2	1	1	0	-4 to 0.5	-1.8	-1.8	3.2	-1.8	37.1	66.0	51.6	51.6
BIS	FTR	1	0	0	1	0 to 0	0.0	0.0	N/A	0.0	123.6	123.6	123.6	123.6
BIS	WIK	10	0	9	1	-4.8 to 0	-1.1	-1.6	1.5	-1.6	14.7	520.4	120.1	174.4
BUT	BUT	6	0	6	0	-1.6 to -0.4	-1.3	-1.2	0.5	-1.2	94.0	514.2	238.5	257.2
BWM	ALR	4	2	2	0	-0.2 to 0.6	0.0	0.1	0.4	0.1	51.1	639.9	386.7	366.1
BWM	CLA	2	0	2	0	-0.83 to -0.72	-0.8	-0.8	0.1	-0.8	20.5	98.3	59.4	59.4
BWM	SKU	9	3	5	1	-1.67 to 2.7	-0.2	0.1	1.3	0.1	35.4	485.7	111.7	175.4
BWM	SMR	4	1	3	0	-2.2 to 2.8	-0.4	0.0	2.1	0.0	17.9	75.5	47.5	47.1
CCK	CCK	11	3	8	0	-11.8 to 0.8	-0.9	-2.6	4.0	-2.6	21.9	207.4	102.5	105.4
COP	COP	3	0	3	0	-0.6 to -0.4	-0.5	-0.5	0.1	-0.5	91.9	2842.9	269.4	1068.1
DET	DET	10	5	4	1	-0.3 to 3.3	0.0	0.5	1.1	0.5	57.5	736.9	382.3	377.3
DOU	DIN	19	2	16	1	-16 to 2.9	-1.3	-2.7	4.1	-2.7	69.5	377.9	130.7	169.5
DOU	DOU	2	1	1	0	-5.8 to 0.7	-2.6	-2.6	4.6	-2.6	132.0	232.2	182.1	182.1
DSW	DSW	1	0	1	0	-0.7 to -0.7	-0.7	-0.7	N/A	-0.7	98.9	98.9	98.9	98.9
DUN	DNM	2	0	2	0	-5.5 to -0.4	-3.0	-3.0	3.6	-3.0	275.7	317.3	296.5	296.5
DUN	DUN	6	0	6	0	-8.9 to -0.1	-1.2	-2.7	3.4	-2.7	31.4	192.8	63.2	88.7
GIL	GIL	20	0	20	0	-19.9 to -0.1	-4.0	-6.4	5.6	-6.4	37.5	656.1	277.2	295.0
HAR	HAR	25	7	17	1	-21.6 to 10.3	-2.1	-4.7	7.1	-4.7	25.4	607.6	371.0	338.5
HUA	HUA	14	1	14	2	-2.9 to 2.8	-0.6	-0.6	1.3	-0.6	264.2	959.0	549.5	538.6
KAN	KAN	3	1	1	1	-0.1 to 0.1	0.0	0.0	0.1	0.0	87.6	611.3	484.7	394.5
LCR	JCI	2	0	2	0	-12.84 to -0.1	-6.5	-6.5	9.0	-6.5	44.3	50.9	47.6	47.6
LCR	LCR	66	25	41	0	-36.9 to 14.7	-0.1	-1.8	7.7	-1.8	2.6	1960.3	155.8	299.9
LGB	CHV	1	1	0	0	0.5 to 0.5	0.5	0.5	N/A	0.5	672.9	672.9	672.9	672.9
LGB	WEM	23	5	16	2	-6.7 to 7.1	-0.6	-0.5	2.7	-0.5	13.1	631.3	106.7	171.3
LKH	LKH	1	1	0	0	0.8 to 0.8	0.8	0.8	N/A	0.8	25.8	25.8	25.8	25.8
LSP	CGW	1	0	1	0	-1.6 to -1.6	-1.6	-1.6	N/A	-1.6	72.8	72.8	72.8	72.8
LSP	MAM	10	3	7	0	-12.4 to 1	-0.6	-1.8	3.9	-1.8	16.1	490.1	44.2	121.4
MEA	MEA	2	1	1	0	-0.33 to 0.1	-0.1	-0.1	0.3	-0.1	133.0	424.0	278.5	278.5
MHV	MHV	2	0	2	0	-0.2 to -0.1	-0.2	-0.2	0.1	-0.2	338.5	427.1	382.8	382.8
MMU	MMU	19	7	12	0	-22.5 to 63.2	-1.2	2.0	16.2	2.0	44.3	676.6	487.2	432.4
MOR	MOR	5	0	5	0	-7.6 to -0.3	-1.7	-3.6	3.5	-3.6	20.1	503.8	81.3	148.5
PAR	PAR	1	0	1	0	-4.7 to -4.7	-4.7	-4.7	N/A	-4.7	498.9	498.9	498.9	498.9
PHX	CRF	5	2	3	0	-10.6 to 8.39	-3.2	-0.7	8.0	-0.7	28.7	339.7	161.2	177.5
PHX	ESR	108	61	47	0	-21.7 to 17.4	0.9	0.1	5.8	0.1	14.7	847.7	261.5	283.4
PHX	FNH	9	0	9	0	-4.2 to -0.6	-1.5	-1.7	1.1	-1.7	14.0	340.2	62.2	139.1

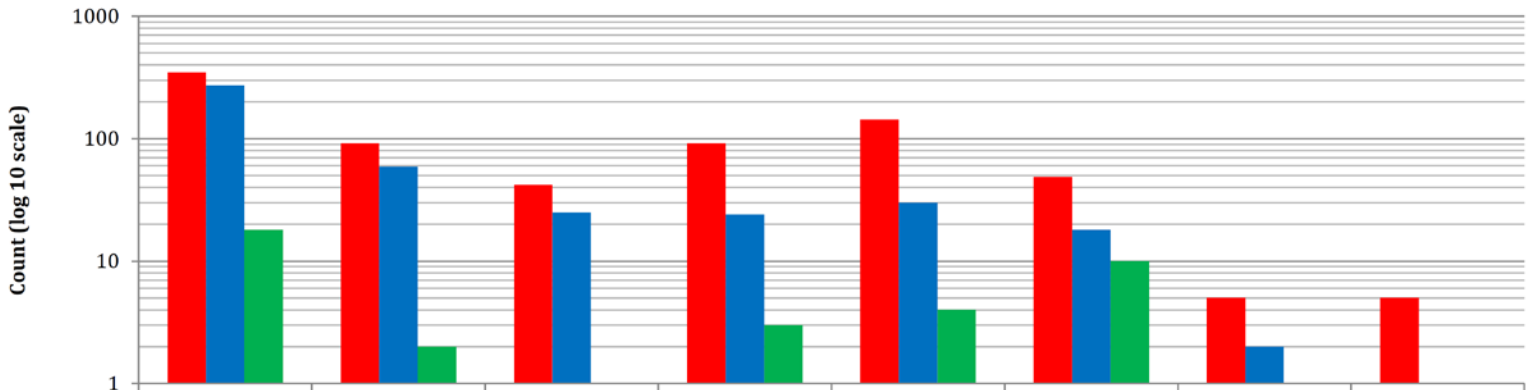
Table 5 Groundwater level change statistics and counts of wells with declines, rises, or no water level change in Arizona by Sub-basin – Water Years 2012 to 2013

Basin/AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
PHX	HAS	47	25	20	2	-14 to 14.2	0.2	1.2	5.0	1.2	17.5	655.9	165.2	218.8
PHX	LKP	7	4	3	0	-7.3 to 2.2	0.3	-1.6	3.5	-1.6	28.8	277.2	203.8	154.2
PHX	WAT	20	2	17	1	-8.7 to 2.8	-1.3	-1.9	3.0	-1.9	250.1	491.6	364.4	364.8
PHX	WSR	127	54	70	3	-88 to 60	-0.7	-1.2	15.0	-1.2	15.0	613.5	167.8	215.3
PIN	ELO	73	49	24	0	-86 to 59.4	1.5	2.1	17.5	2.1	38.1	459.9	212.4	228.7
PIN	MST	25	19	6	0	-3.4 to 8	2.1	2.0	2.5	2.0	64.9	664.8	347.6	329.8
PIN	VEK	8	2	4	2	-0.4 to 0.3	-0.1	-0.1	0.2	-0.1	213.2	526.1	336.4	348.3
PKB	CRI	1	0	1	0	-0.3 to -0.3	-0.3	-0.3	N/A	-0.3	77.4	77.4	77.4	77.4
PKB	LPC	1	0	1	0	-0.6 to -0.6	-0.6	-0.6	N/A	-0.6	65.7	65.7	65.7	65.7
PRE	LIC	55	2	52	1	-14.8 to 48.8	-1.3	-1.3	7.5	-1.3	3.4	507.6	225.9	227.8
PRE	UAG	20	8	12	0	-92.3 to 74.6	-0.6	-2.8	28.2	-2.8	43.8	755.0	141.5	235.1
PSC	PSC	2	1	0	1	0 to 0.1	0.1	0.1	0.1	0.1	146.5	221.8	184.2	184.2
RAN	RAN	14	2	12	0	-9 to 0.6	-0.7	-1.5	2.6	-1.5	85.2	438.1	228.1	252.4
SAC	SAC	16	3	10	3	-3.1 to 2.7	-0.1	0.0	1.4	0.0	36.2	1066.9	411.1	448.7
SAF	GSK	2	0	1	1	-19.8 to 0	-9.9	-9.9	14.0	-9.9	678.4	724.3	701.4	701.4
SAF	SAF	14	2	12	0	-14.3 to 2.25	-2.0	-3.0	4.7	-3.0	25.6	636.7	52.9	96.1
SAF	SSI	21	1	19	1	-15 to 0.5	-1.2	-2.8	4.1	-2.8	47.7	586.8	131.8	180.0
SBV	SBV	2	1	1	0	-0.6 to 0.6	0.0	0.0	0.8	0.0	30.7	204.4	117.6	117.6
SCA	SCA	40	12	26	2	-8.25 to 6.6	-0.6	-0.5	2.9	-0.5	9.7	316.6	54.7	91.0
SRB	SRL	1	0	1	0	-0.74 to -0.74	-0.7	-0.7	N/A	-0.7	33.4	33.4	33.4	33.4
SRB	USR	1	0	1	0	-1.1 to -1.1	-1.1	-1.1	N/A	-1.1	21.1	21.1	21.1	21.1
SRF	SRF	5	2	3	0	-12.5 to 0.5	-1.9	-3.4	5.3	-3.4	6.3	214.2	124.4	100.6
TIG	TIG	1	1	0	0	0.7 to 0.7	0.7	0.7	N/A	0.7	217.8	217.8	217.8	217.8
TON	TON	14	2	12	0	-19.7 to 1.42	-1.6	-3.4	5.2	-3.4	5.0	122.9	60.4	62.9
TUC	AVR	44	5	19	20	-2.4 to 19.4	0.0	1.5	4.8	1.5	14.7	601.2	248.3	262.0
TUC	USC	51	11	38	2	-20.8 to 6.7	-2.1	-3.3	5.5	-3.3	9.6	587.3	167.7	201.1
UHA	UHA	4	3	1	0	-1.1 to 7.3	0.6	1.9	3.7	1.9	8.9	814.6	413.1	412.4
USP	SEV	44	12	31	1	-6.1 to 9.64	-0.3	-0.2	2.5	-0.2	4.9	563.5	186.9	214.0
VRB	BIC	60	22	36	2	-7.4 to 4.99	-0.4	-0.5	1.8	-0.5	3.6	463.7	133.1	142.5
VRB	LVR	14	7	7	0	-16.9 to 6.03	0.0	-1.5	6.2	-1.5	19.1	365.1	148.2	166.0
VRB	VER	50	22	28	0	-14.6 to 39.1	-0.4	0.3	7.8	0.3	4.2	816.0	106.3	236.4
VRG	VRG	1	1	0	0	0.13 to 0.13	0.1	0.1	N/A	0.1	266.8	266.8	266.8	266.8
WIL	WIL	36	2	34	0	-28.2 to 6.43	-5.7	-6.2	6.1	-6.2	11.1	428.8	277.4	257.0
YUM	YUM	8	1	7	0	-4.3 to 13	-0.8	0.4	5.3	0.4	19.1	168.0	47.6	68.3
Statewide Statistcis		1247	416	781	53	-92.3 to 74.6	-0.6	-1.0	8.9	-1.0	2.6	2842.9	163.2	232.1

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

Table 6 Counts of wells with declines, rises, or no groundwater level change in Arizona by Water Atlas Areas – Water Years 2012 to 2013

Water Atlas Area	Total Well Count	Wells w/Declining WLs	Wells w/Rising WLs	Wells w/No Change in WLs
Active management areas	640	349	273	18
Central Highlands	153	92	59	2
Eastern Plateau	67	42	25	0
Lower Colorado River	119	92	24	3
SouthEastern Arizona	178	144	30	4
Upper Colorado River	77	49	18	10
Western Plateau	8	5	2	1
New Mexico	5	5	0	0
Total	**1247**	**778**	**431**	**38**



	Active management areas	Central Highlands	Eastern Plateau	Lower Colorado River	SouthEastern Arizona	Upper Colorado River	Western Plateau	New Mexico
Declining	349	92	42	92	144	49	5	5
Rising	273	59	25	24	30	18	2	0
No change	18	2	0	3	4	10	1	0

Active Management Area Groundwater Level Changes

Prescott Active Management Area

Groundwater level changes for the Prescott AMA for 20-year, 10-year, and one-year intervals are shown in Plates 4 - 6 and statistics are in compared in Table 7 and Figure 2. For the Little Chino Sub-basin, the average short term WL decline rate of approximately -1.3 feet per year has remained constant over time as shown in both the 10-year and 20-year comparison of mean WL change. The Upper Agua Fria Sub-basin has a mean short term WL change of -2.8 feet, while the 10-year average WL declines -2.9 feet and the 20-year analysis shows an average WL decline of -15.4 or -0.8 feet per year.

The depth to groundwater in the Prescott AMA has declined about -22 feet over the long term 20-year period, an average rate of -1.1 feet per year. The 10-year groundwater level decline observed for the Prescott AMA is -10.6 feet, also an average rate of -1.1 feet per year. The one-year groundwater level change was -1.7 feet. While the well count tripled from the 20-year to the 10-year and one-year comparisons, the overall decline rate in the Prescott AMA increased over the short term.

Table 7 Groundwater level change statistics in Prescott AMA, Arizona – Water Years 1993 to 2013, 2003 to 2013, 2012 to 2013

WL Change	WL Change Time Period	AMA[1]	Sub-basin[1]	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	WL Change Range	WL Change Median	WL Change Mean	WL Change Standard Deviation	Mean Rate of WL Change [ft/yr]
20 Year	9/30/1993 - 10/1/2013	PRE	LIC	15	0	15	0	-38.8 to -12.6	-27.8	-27.0	8.2	-1.3
		PRE	UAG	10	3	7	0	-80.6 to 8.41	-8.5	-15.4	26.0	-0.8
	Totals			25	3	22	0	-80.6 to 8.41	-22.7	-22.3	17.7	-1.1
10 Year	9/30/2003 - 10/1/2013	PRE	LIC	53	4	49	0	-73.1 to 18.7	-12.9	-13.4	13.9	-1.3
		PRE	UAG	19	4	15	0	-74.5 to 82.4	-5.7	-2.9	31.2	-0.3
	Totals			72	8	64	0	-74.5 to 82.4	-12.2	-10.6	20.1	-1.1
1 Year	9/30/2012 - 10/1/2013	PRE	LIC	55	2	52	1	-14.8 to 48.8	-1.3	-1.3	7.5	-1.3
		PRE	UAG	20	8	12	0	-92.3 to 74.6	-0.6	-2.8	28.2	-2.8
	Totals			75	10	64	1	-92.3 to 74.6	-1.2	-1.7	15.6	-1.7

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

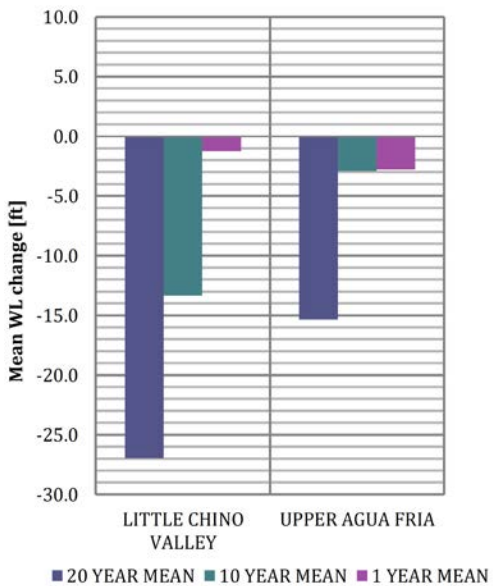


Figure 2 Prescott AMA mean groundwater level change per Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 -2013

Phoenix AMA

Groundwater level changes within the Phoenix AMA over 20-year, 10-year, and one-year intervals are shown in Plates 7 – 9 and statistics are compared in Table 8 and Figure 3. The Phoenix AMA is comprised of seven sub-basins with mean WL change ranging from a 20-year decline of -7.4 feet in the Rainbow Valley Sub-basin to a rise of 62.2 feet in the Fountain Hills Sub-basin. Well counts have slightly increased over 20-years in the four geographically smaller Sub-basins (Carefree, Fountain Hills, Rainbow Valley and Lake Pleasant). Well counts have at least doubled, from the 20-year to 10-year time periods in the larger sub-basins, such as in the WSR Sub-basin where the well count increased from 62 to 175 wells measured.

The Carefree Sub-basin has a median short term WL change of -3.2 feet, while the opposite trend exists for the 10-year median and 20-year median, showing a WL rise of 41.1feet and 32.6 feet, respectively. The East Salt River Sub-basin has a mean short term WL change of 0.1 feet (or no change) while the 10-year mean WL rises 23.4 feet (2.3 feet per year), and the 20-year interval shows a mean WL rise of 54.4 feet (2.7 feet per year).

The Fountain Hills Sub-basin shows similar statistics to the Carefree Sub-basin in that the median short term WL change declines -1.5 feet while the median 10-year WL change rises 6.6 feet (0.7 feet per year), and the 20-year median WL change rises 3.7 feet (0.2 feet per year). The median values are discussed for the Carefree and Fountain Hills Sub-basins because the standard deviation for the WL change in those two sub-basins is quite high. The mean 20-year WL change of 62.2 feet in the Fountain Hills Sub-basin is considered less representative of change within the basin as a whole.

The Hassayampa Sub-basin has a short term mean WL change of 1.2 feet. The 10-year mean WL experienced a 14.7 feet rise while the 20-year mean groundwater level change was 14.5 feet (0.7 feet per year). The Lake Pleasant Sub-basin one-year mean WL change is -1.6 feet while the 10-year mean WL change rose 2.1 feet or 0.2 feet per year, and the 20-year mean WL rose 7.9 feet or 0.4 feet per year.

The Rainbow Valley Sub-basin has a mean short term declining WL change of -1.9 feet while the 10-year mean WL shows a 0.9 feet rise, and the 20-year mean WL shows a decline of -7.40 feet or -0.4 feet per year. The West Salt River Sub-basin had a mean short term WL change of -1.2 feet while the 10-year mean WL change was 8.6 feet and the 20-year mean groundwater level change was 5.8 feet or 0.3 feet per year.

Both the Hassayampa and Lake Pleasant Sub-basins have almost equal numbers of wells showing either declining or rising WL changes for all three time intervals reviewed. Significant differences in the number of wells showing either declining or rising WL change for all three time periods reviewed in the Phoenix AMA are most evident in the East Salt River, and to some extent, in the West Salt River Valley Sub-basins.

The average groundwater level in the Phoenix AMA has risen nearly 25.1 feet over the long term 20-year period, at a rate of approximately 1.3 feet per year. The 10-year mean WL change observed for

the Phoenix AMA is 14.0 feet or a rate of 1.4 feet per year. The mean one-year WL change in the Phoenix AMA is -0.5 feet.

Table 8 Groundwater level change statistics in Phoenix AMA, Arizona – Water Years 1993 to 2013, 2003 to 2013, 2012 to 2013

WL Change	WL Change Time Period	AMA[1]	Sub-basin[1]	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	WL Change Range	WL Change Median	WL Change Mean	WL Change Standard Deviation	Mean Rate of WL Change [ft/yr]
20 Year	9/30/1993 - 10/1/2013	PHX	CRF	4	3	1	0	-55.3 to 124.6	32.6	33.6	73.7	1.7
		PHX	ESR	57	40	17	0	-55.2 to 485	52.8	54.4	84.1	2.7
		PHX	FNH	6	3	3	0	-6.7 to 350.8	3.7	62.2	141.8	3.1
		PHX	HAS	20	9	11	0	-13.85 to 138.85	-0.3	14.5	37.4	0.7
		PHX	LKP	4	3	1	0	-12.4 to 25.1	9.5	7.9	15.5	0.4
		PHX	WAT	14	5	9	0	-67.6 to 54.3	-3.9	-7.4	31.0	-0.4
		PHX	WSR	62	25	36	1	-52.1 to 142.7	-1.5	5.8	36.1	0.3
	Totals			167	88	78	1	-67.6 to 485	3.9	25.1	66.2	1.3
10 Year	9/30/2003 - 10/1/2013	PHX	CRF	5	4	1	0	-14.15 to 87.5	41.1	34.1	41.0	3.4
		PHX	ESR	113	86	27	0	-67 to 106.3	24.1	23.4	29.7	2.3
		PHX	FNH	6	5	1	0	-117.8 to 161.1	6.6	24.4	94.2	2.4
		PHX	HAS	45	23	22	0	-39.41 to 200.09	1.2	14.7	47.0	1.5
		PHX	LKP	7	4	3	0	-9.91 to 11.7	4.2	2.1	7.6	0.2
		PHX	WAT	18	10	8	0	-54.41 to 23.89	2.3	0.9	16.9	0.1
		PHX	WSR	175	110	65	0	-262.9 to 225.2	2.2	8.6	35.8	0.9
	Totals			369	242	127	0	-262.9 to 225.2	5.8	14.0	36.7	1.4
1 Year	9/30/2012 - 10/1/2013	PHX	CRF	5	2	3	0	-10.6 to 8.39	-3.2	-0.7	8.0	-0.7
		PHX	ESR	108	61	47	0	-21.7 to 17.4	0.9	0.1	5.8	0.1
		PHX	FNH	9	0	9	0	-4.2 to -0.6	-1.5	-1.7	1.1	-1.7
		PHX	HAS	47	25	20	2	-14 to 14.2	0.2	1.2	5.0	1.2
		PHX	LKP	7	4	3	0	-7.3 to 2.2	0.3	-1.6	3.5	-1.6
		PHX	WAT	20	2	17	1	-8.7 to 2.8	-1.3	-1.9	3.0	-1.9
		PHX	WSR	127	54	70	3	-88 to 60	-0.7	-1.2	15.0	-1.2
	Totals			323	148	169	6	-88 to 60	-0.2	-0.5	10.2	-0.5

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

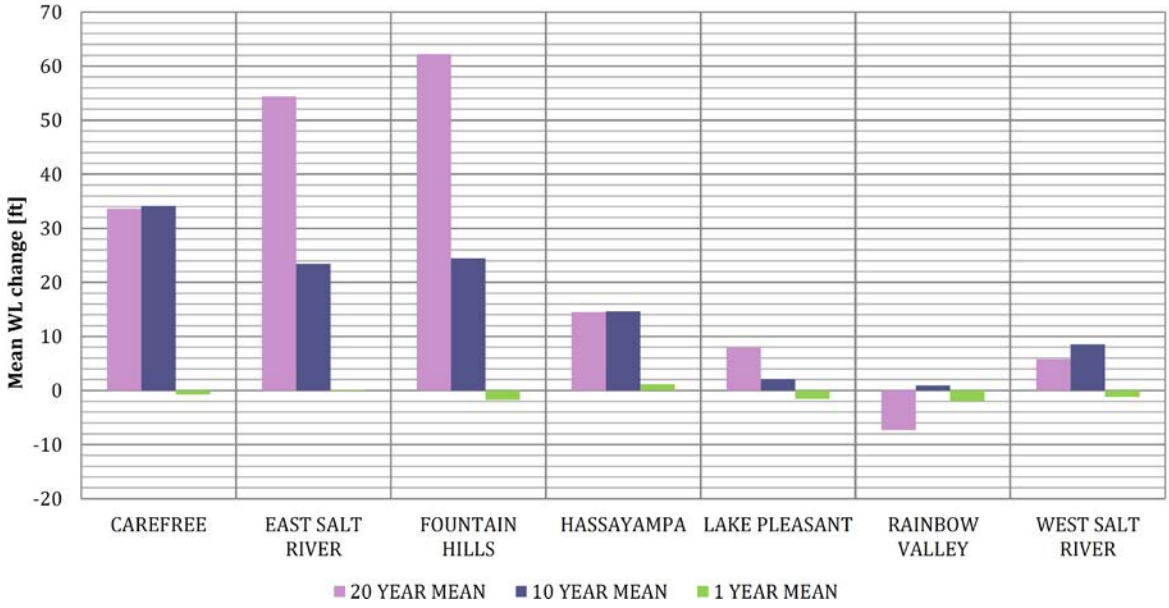


Figure 3 Phoenix AMA mean groundwater level change per Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 -2013

Pinal AMA

Groundwater level changes for the Pinal AMA for 20-year, 10-year, and one-year time periods are shown in Plates 10 - 12 and statistics are in compared in Table 9 and Figure 4. Well counts within the Pinal AMA have remained fairly constant over the 20-year comparisons at approximately 100 wells measured, although the Vekol Valley Sub-basin had no comparable measurements in the 20-year analysis.

The Eloy Sub-basin had a mean short term WL change of 2.1 feet while the 10-year mean WL declined by -1.5 feet, and the 20-year mean WL change was an increase of 9.9 feet or approximately 0.5 feet per year. The Maricopa-Stanfield Sub-basin had a short term mean WL change of 2.0 feet while the 10-year mean WL changed 25.5 feet and the 20-year mean WL change was 58.1 feet or an increase of 2.9 feet per year. Comparable measurements in Vekol Valley Sub-basin were available to calculate the short term mean WL change and 10-year mean WL change of about -0.1 feet, or no change.

The average groundwater level in the Pinal AMA rose nearly 20.5 feet over the long term 20-year period, at a rate of 1.0 feet per year. The Pinal AMA had a 10-year WL change mean of 4.0 feet or a rate of 0.4 feet per year. The one-year mean WL change in the Pinal AMA was 1.9 feet.

Table 9 Groundwater level change statistics in Pinal AMA, Arizona – Water Years 1993 to 2013, 2003 to 2013, 2012 to 2013

WL Change	WL Change Time Period	AMA[1]	Sub-basin[1]	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	WL Change Range	WL Change Median	WL Change Mean	WL Change Standard Deviation	Mean Rate of WL Change [ft/yr]
20 Year	9/30/1993 - 10/1/2013	PIN	ELO	78	50	28	0	-111.6 to 102.9	16.5	9.9	39.7	0.5
		PIN	MST	22	19	3	0	-49.7 to 144	65.4	58.1	49.8	2.9
	Totals			100	69	31	0	-111.6 to 144	21.8	20.5	46.2	1.0
10 Year	9/30/2003 - 10/1/2013	PIN	ELO	67	37	30	0	-97.8 to 53.2	3.0	-1.5	26.1	-0.2
		PIN	MST	19	14	5	0	-12.1 to 69.25	24.2	25.5	25.6	2.5
		PIN	VEK	8	3	5	0	-0.9 to 1	-0.3	-0.1	0.8	0.0
	Totals			94	54	40	0	-97.8 to 69.25	3.1	4.0	26.8	0.4
1 Year	9/30/2012 - 10/1/2013	PIN	ELO	73	49	24	0	-86 to 59.4	1.5	2.1	17.5	2.1
		PIN	MST	25	19	6	0	-3.4 to 8	2.1	2.0	2.5	2.0
		PIN	VEK	8	2	4	2	-0.4 to 0.3	-0.1	-0.1	0.2	-0.1
	Totals			106	70	34	2	-86 to 59.4	1.4	1.9	14.5	1.9

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

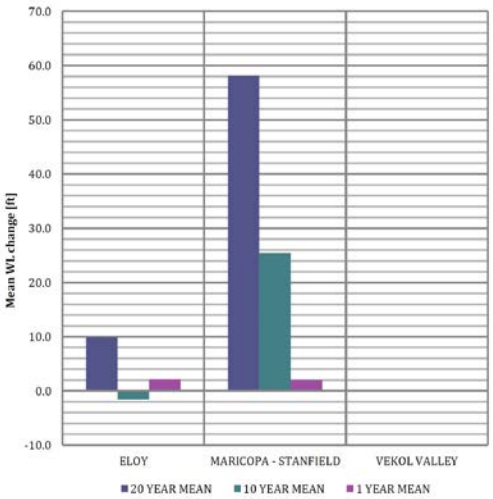


Figure 4 Pinal AMA mean groundwater level change per Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 -2013

Tucson AMA

Groundwater level changes for the Tucson AMA for 20-year, 10-year, and one-year time periods are shown in Plates 13 - 15 and statistics are in compared in Table 10 and Figure 5. As with the Pinal AMA, the number of available groundwater level measurements remained fairly constant within the Tucson AMA over the 20 and 10-year comparisons at approximately 75 wells, increasing in the one-year comparison to approximately 95 wells.

The Avra Valley Sub-basin had a short term mean WL change of 1.5 feet while the 10-year mean change was 16.3 feet or a 1.6 feet rise per year, and the 20-year mean groundwater level change was 23.4 feet or 1.2 feet per year. The Upper Santa Cruz Sub-basin had a short term mean WL change of -3.3 feet while the 10-year mean was -1.0 feet, and the 20-year mean was -23.6 feet or -1.2 feet per year.

The average WL change in the Tucson AMA was 4.0 feet over the long term 20-year period, or a rate of 0.2 feet per year. The 10-year mean WL change observed for the Tucson AMA was 7.6 feet or 0.8 feet per year. The one-year mean WL change in the Tucson AMA was -1.0 feet.

Table 10 Groundwater level change statistics in Tucson AMA, Arizona – Water Years 1993 to 2013, 2003 to 2013, 2012 to 2013

WL Change	WL Change Time Period	AMA[1]	Sub-basin[1]	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	WL Change Range	WL Change Median	WL Change Mean	WL Change Standard Deviation	Mean Rate of WL Change [ft/yr]
20 Year	9/30/1993 - 10/1/2013	TUC	AVR	44	35	9	0	-18.9 to 79.8	23.8	23.4	26.0	1.2
		TUC	USC	31	2	29	0	-72.6 to 56.7	-24.0	-23.6	25.4	-1.2
	Totals			75	37	38	0	-72.6 to 79.8	-0.2	4.0	34.3	0.2
10 Year	9/30/2003 - 10/1/2013	TUC	AVR	37	30	7	0	-11.9 to 69.4	18.7	16.3	18.9	1.6
		TUC	USC	37	20	17	0	-72.4 to 32.1	1.1	-1.0	21.2	-0.1
	Totals			74	50	24	0	-72.4 to 69.4	8.0	7.6	21.6	0.8
1 Year	9/30/2012 - 10/1/2013	TUC	AVR	44	5	19	20	-2.4 to 19.4	0.0	1.5	4.8	1.5
		TUC	USC	51	11	38	2	-20.8 to 6.7	-2.1	-3.3	5.5	-3.3
	Totals			95	16	57	22	-20.8 to 19.4	-0.5	-1.0	5.6	-1.0

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

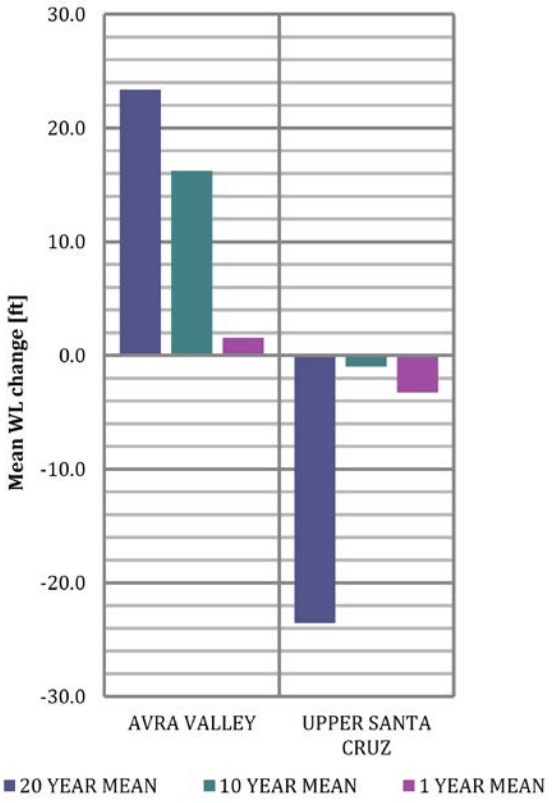


Figure 5 Tucson AMA mean groundwater level change per Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 -2013

Santa Cruz AMA

Groundwater level changes for the Santa Cruz AMA for 20-year, 10-year, and one-year time periods are shown in Plates 16 - 18 and statistics are in compared in Table 11 and Figure 6. Groundwater level measurements increased from 7 wells in the 20-year comparison to around 35 wells in both the one and 10-year groundwater level change comparisons.

The Santa Cruz AMA had a short term mean WL change of -0.5 feet while the 10-year mean change was -3.8 feet or -0.4 feet per year. The 20-year mean WL change was -12.5 feet or -0.6 feet per year.

Table 11 Groundwater level change statistics in Santa Cruz AMA, Arizona – Water Years 1993 to 2013, 2003 to 2013, 2012 to 2013

WL Change Time Period	AMA_1	Sub-$basin_1$	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	WL Change Range	WL Change Median	WL Change Mean	WL Change Standard Deviation	Mean Rate of WL Change [ft/yr]
9/30/1993 - 10/1/2013	SCA	SCA	7	1	6	0	-46.8 to 12	-5.0	-12.5	18.2	-0.6
9/30/2003 - 10/1/2013	SCA	SCA	32	10	22	0	-30.6 to 13.7	-1.7	-3.8	7.4	-0.4
9/30/2012 - 10/1/2013	SCA	SCA	40	12	26	2	-8.25 to 6.6	-0.6	-0.5	2.8	-0.5

Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

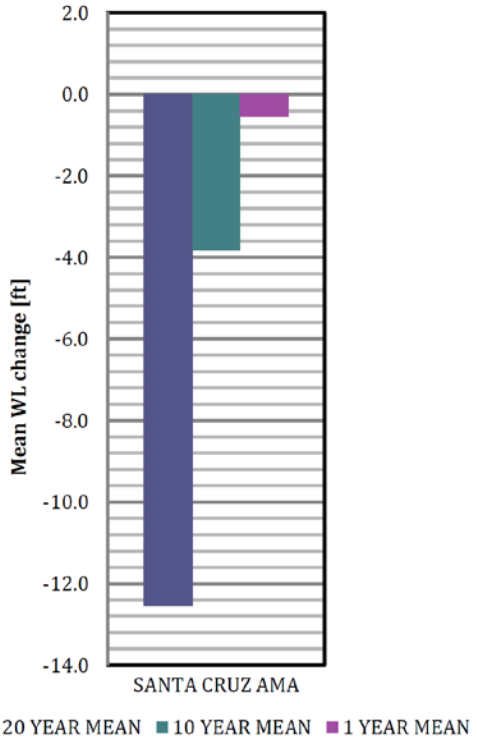


Figure 6 Santa Cruz AMA mean groundwater level change – Water Years 1993 to 2013, 2003 – 2013, 2012 - 2013

SUMMARY

Appendix 5 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 sub-basin over the various time periods. Appendix 6 contains graphs of WL change distribution per well for 20-year, 10-year, and one-year time periods. The graphs provide an understanding of declining or rising WLs per time period. Averages can be deduced for either WL declines or rises and seen from an AMA/basin or sub-basin perspective.

Compilation of these data allows for the identification of basins or sub-basins within the State that may be in need of additional groundwater level monitoring. Basins with large WL changes (especially those with significantly declining groundwater levels) and sub-basins with no or low well counts will be considered for additional or increased monitoring.

Adequate spatial coverage of basins 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 sites may be discontinued if analysis of the existing network reveals that data are either redundant, ambiguous or fluctuate too widely to discern static conditions. For example, several wells may be monitored in the same general area, or wells screened over multiple hydrogeologic units or aquifer systems can exhibit groundwater levels that are not representative of any one particular system. Also, WLs obtained from actively pumping wells may be of marginal value, even if pumping cycles are known. 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 nature of aquifer systems. 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, would be the next step in improving and optimizing the statewide groundwater monitoring network.

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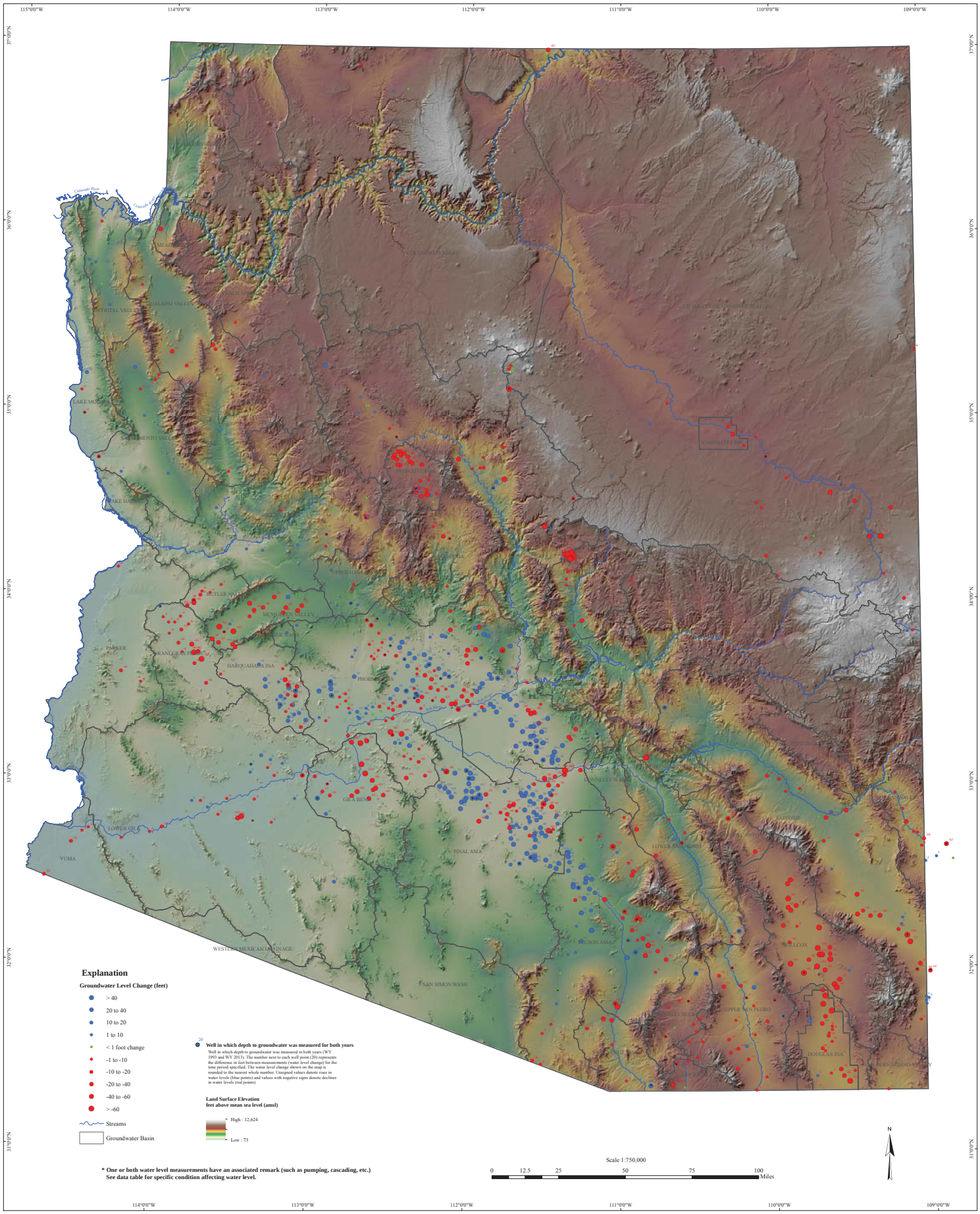
PLATE FIGURES

The following plates have been constructed for a visual and special reference to the data tables included in this report. The plates are visible within this report on 8.5 x 11 sheets however; the original copies can be viewed by opening the companion files link where the report is posted online.



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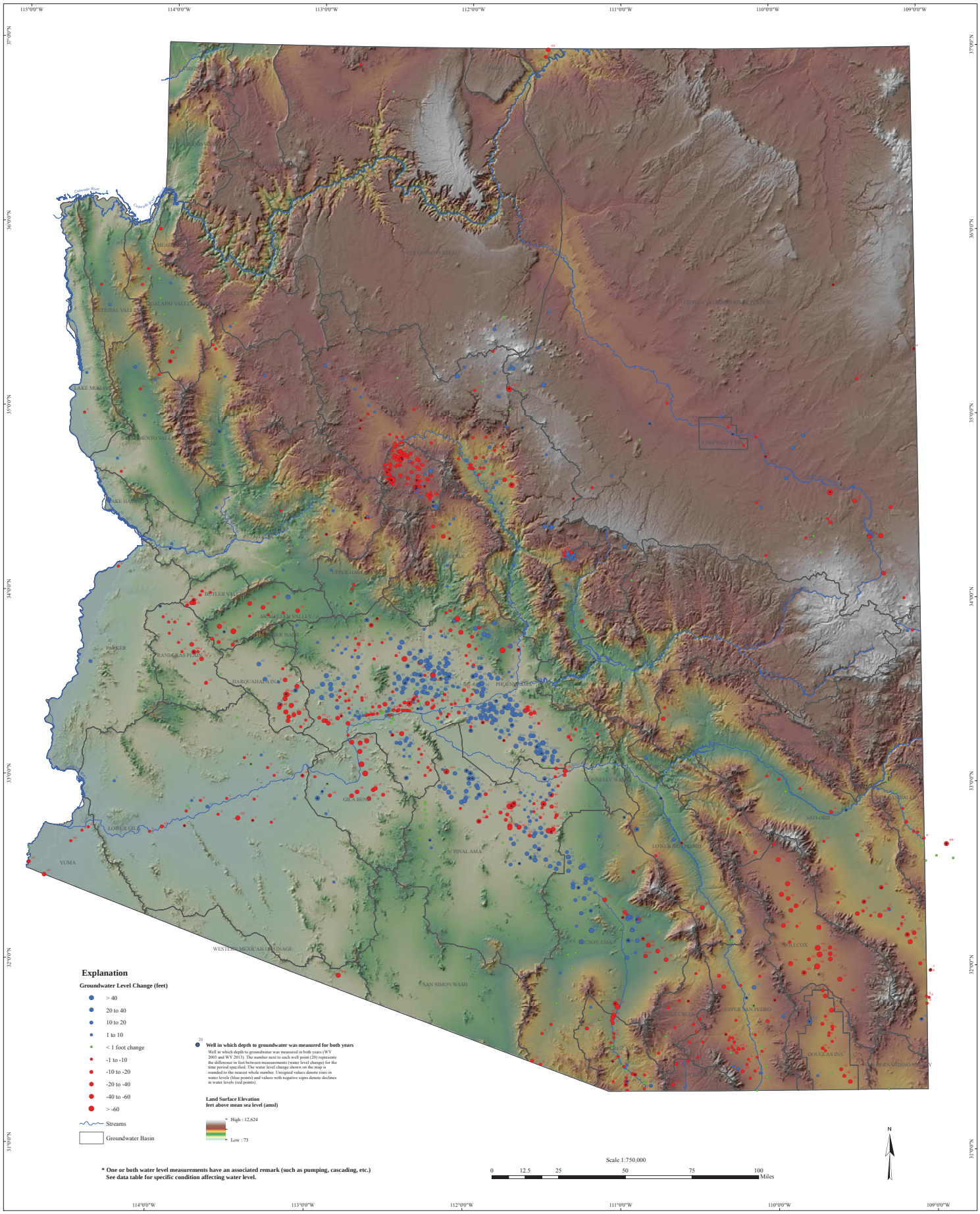

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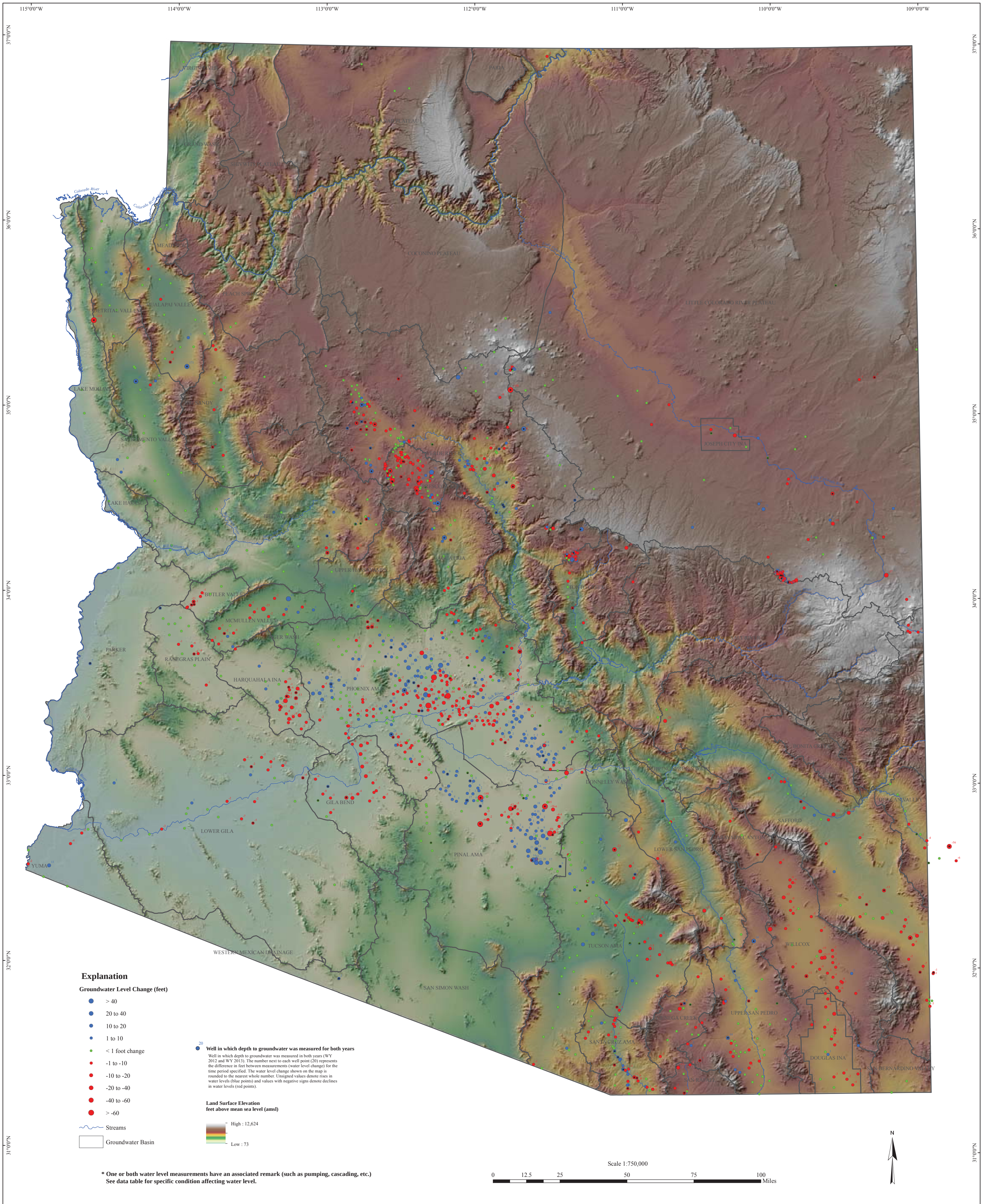

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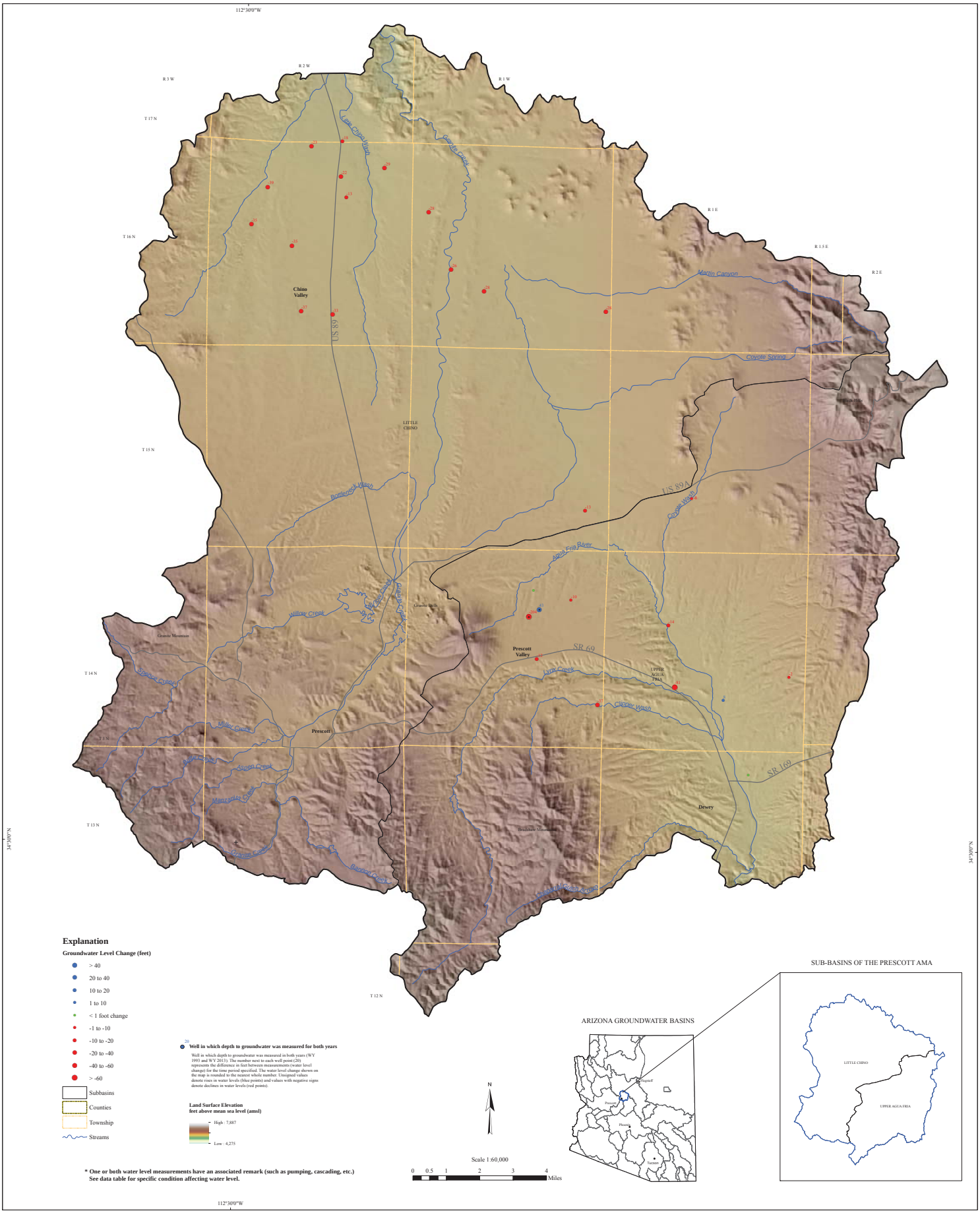

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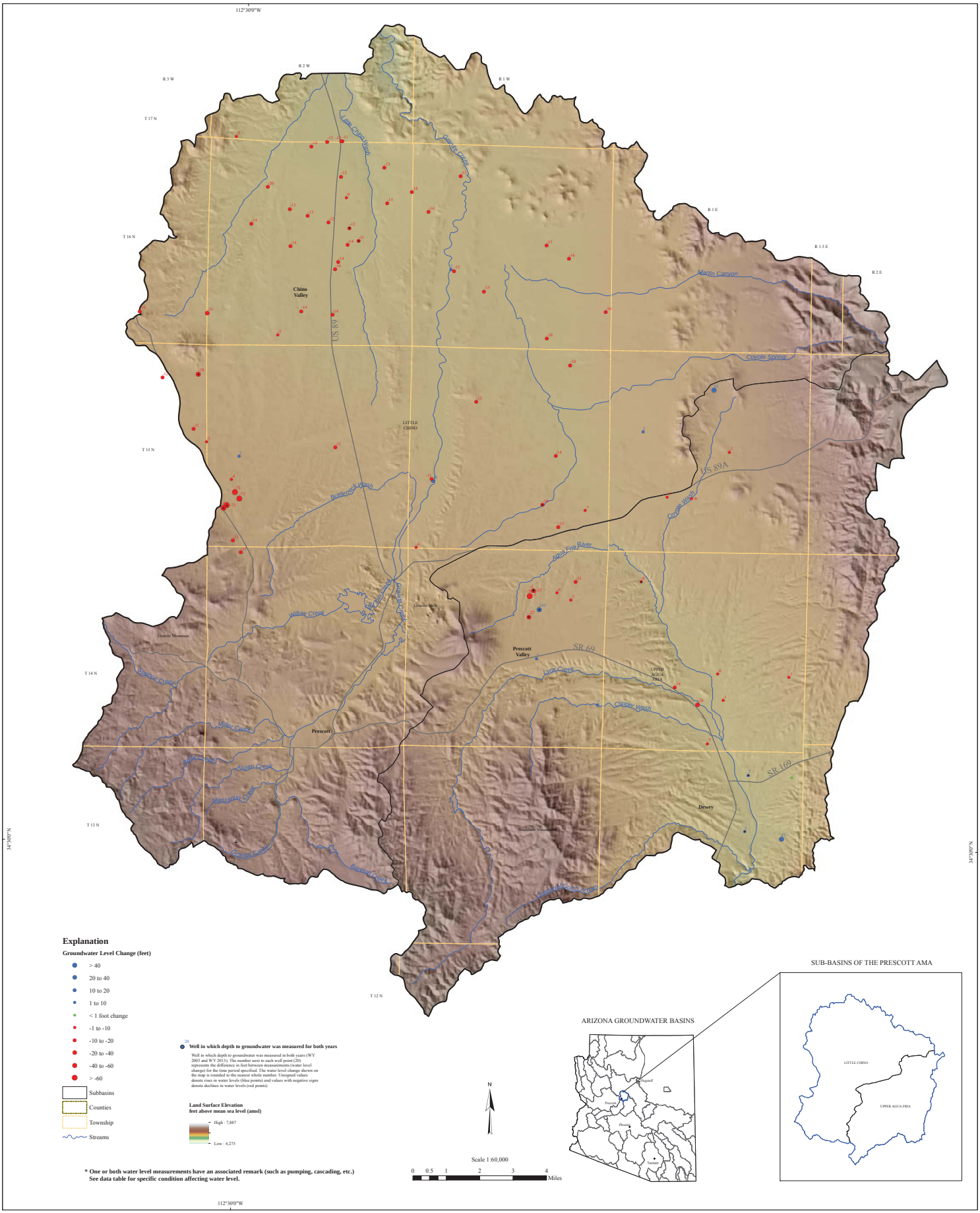

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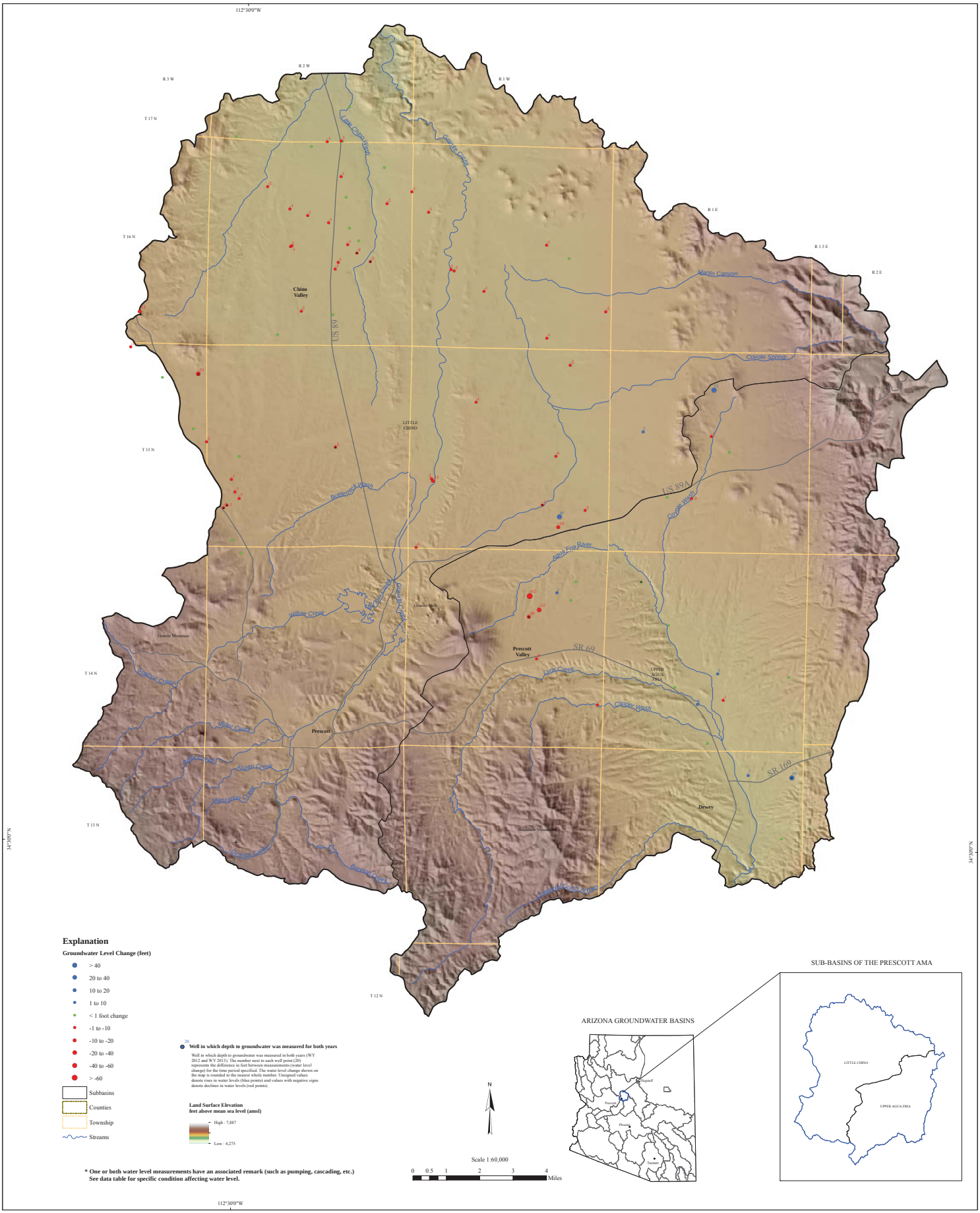

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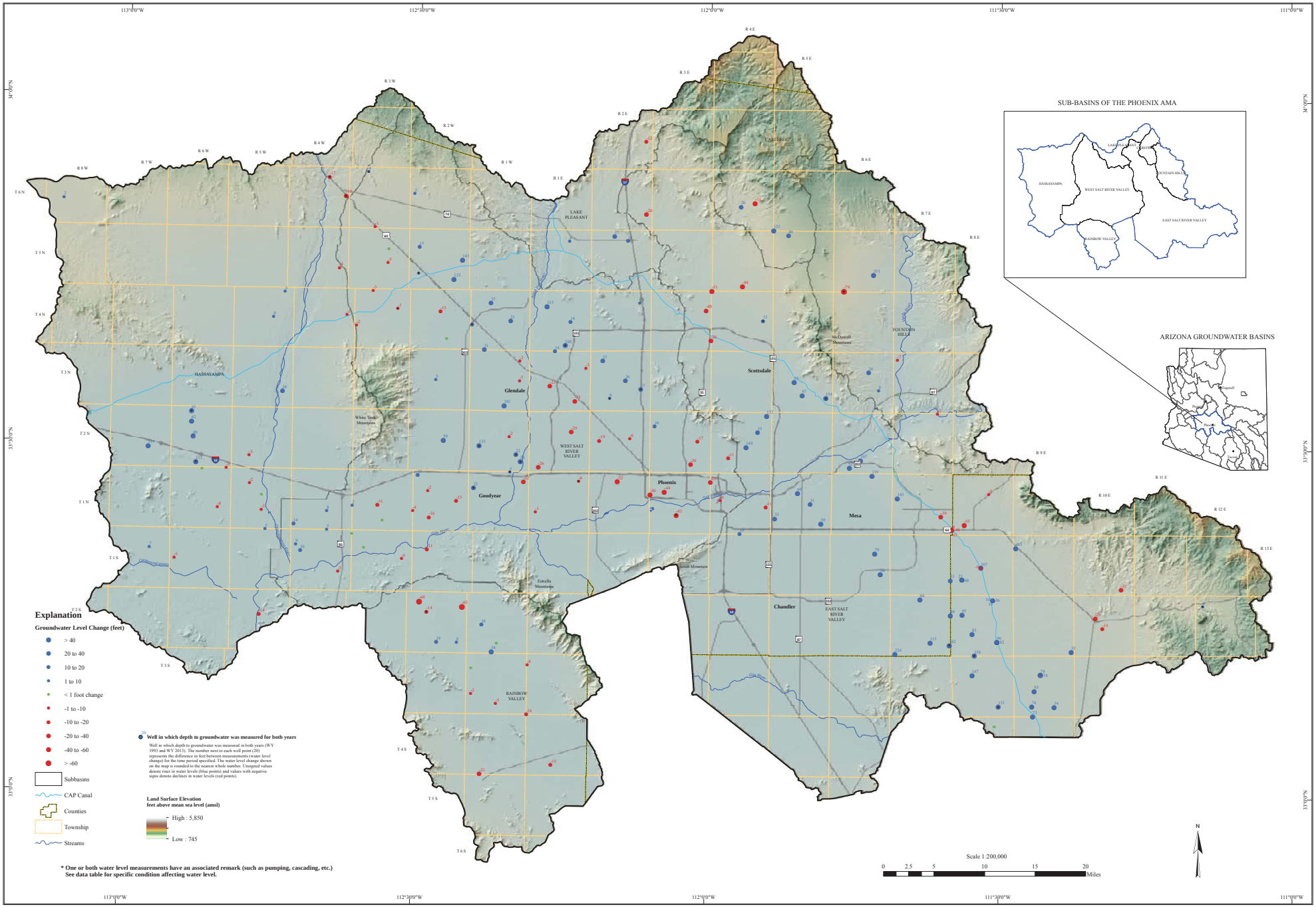

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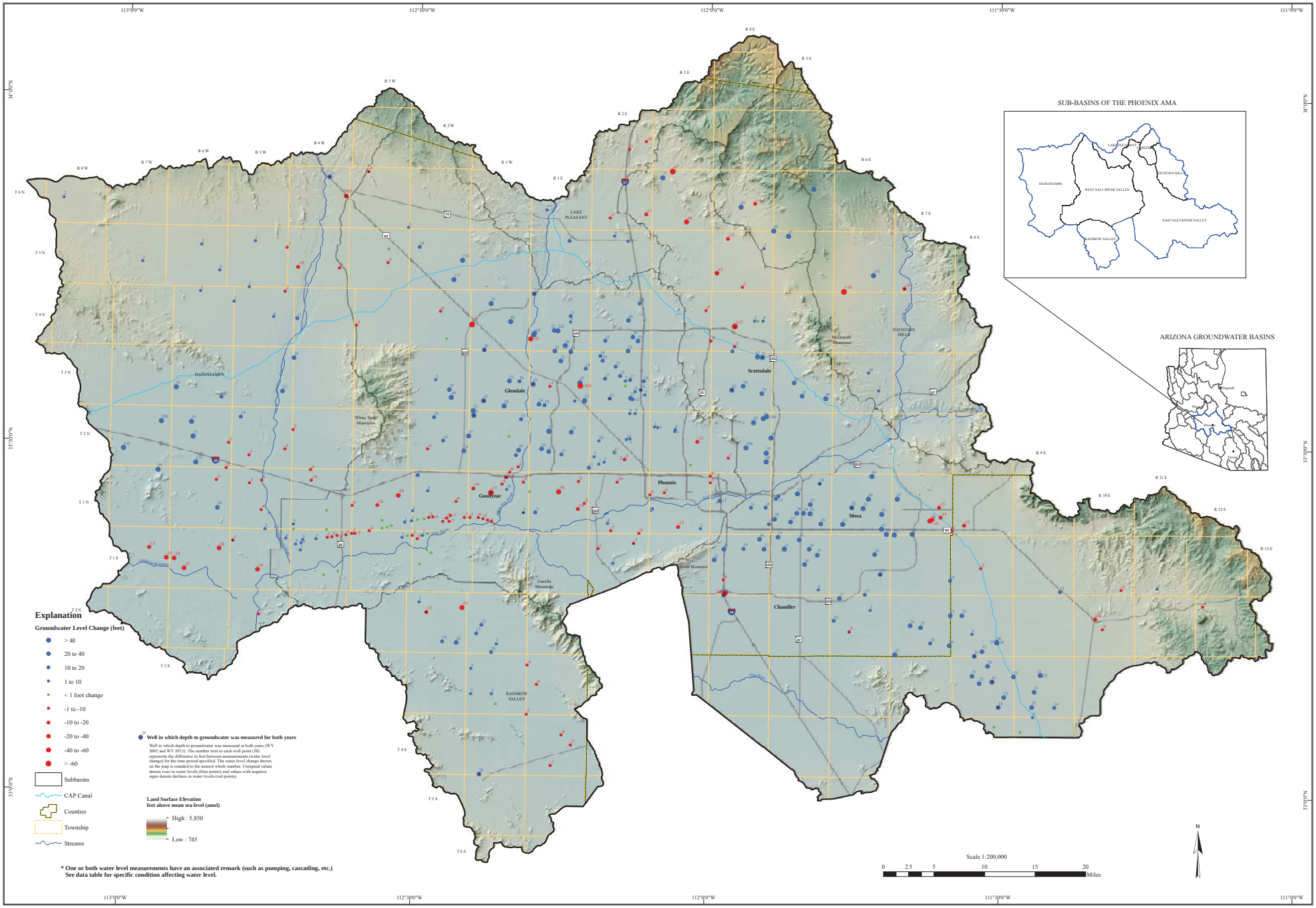

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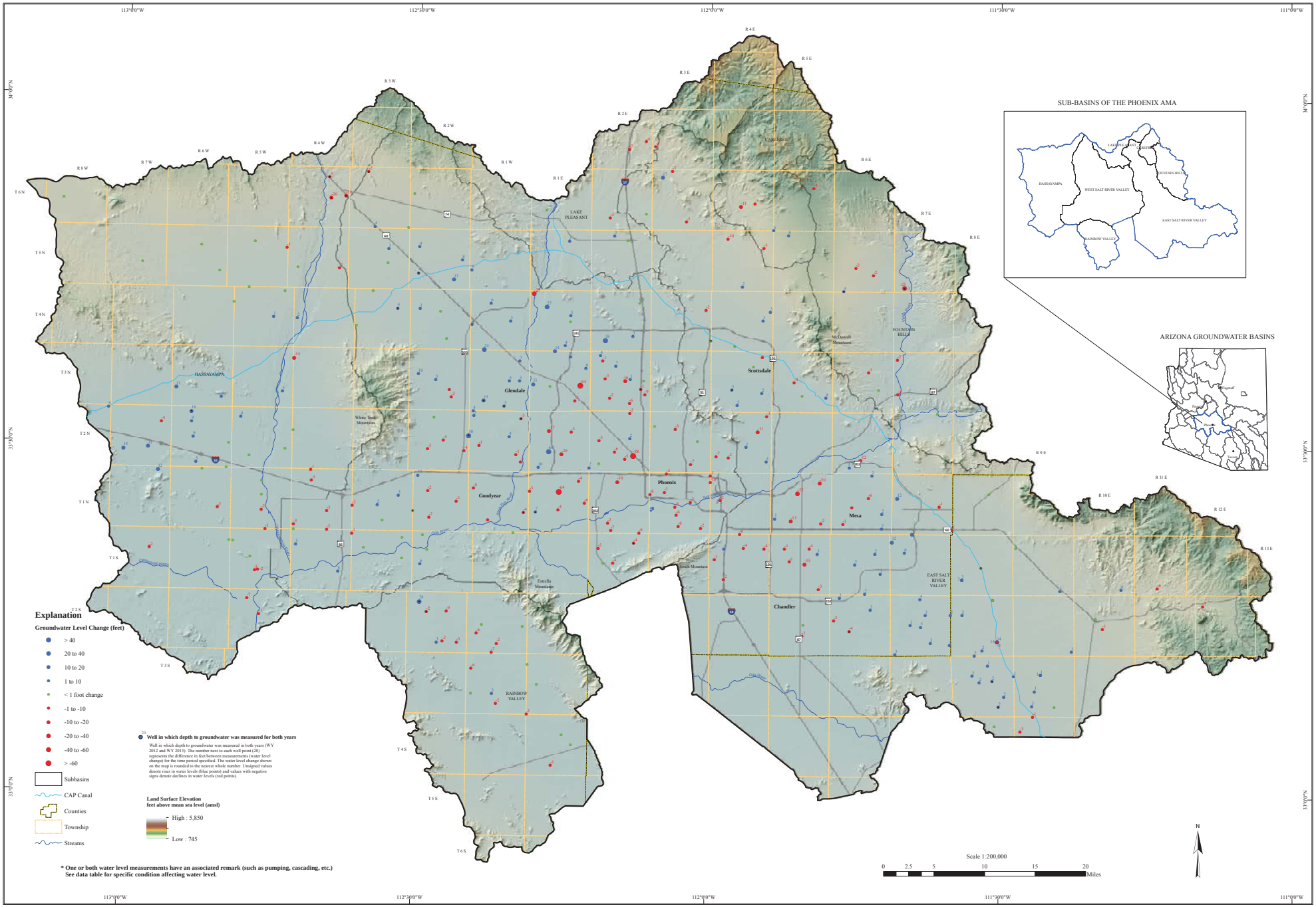

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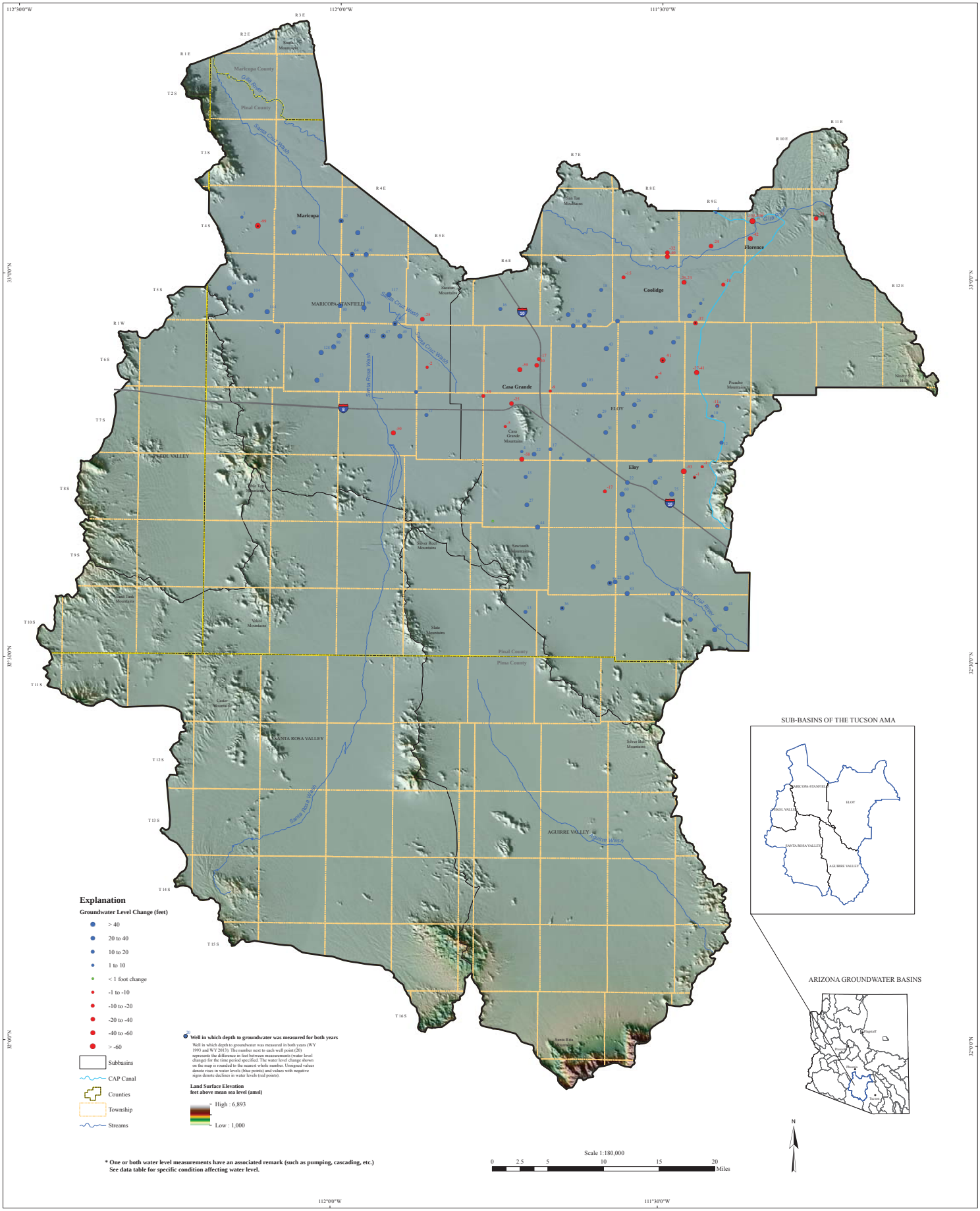

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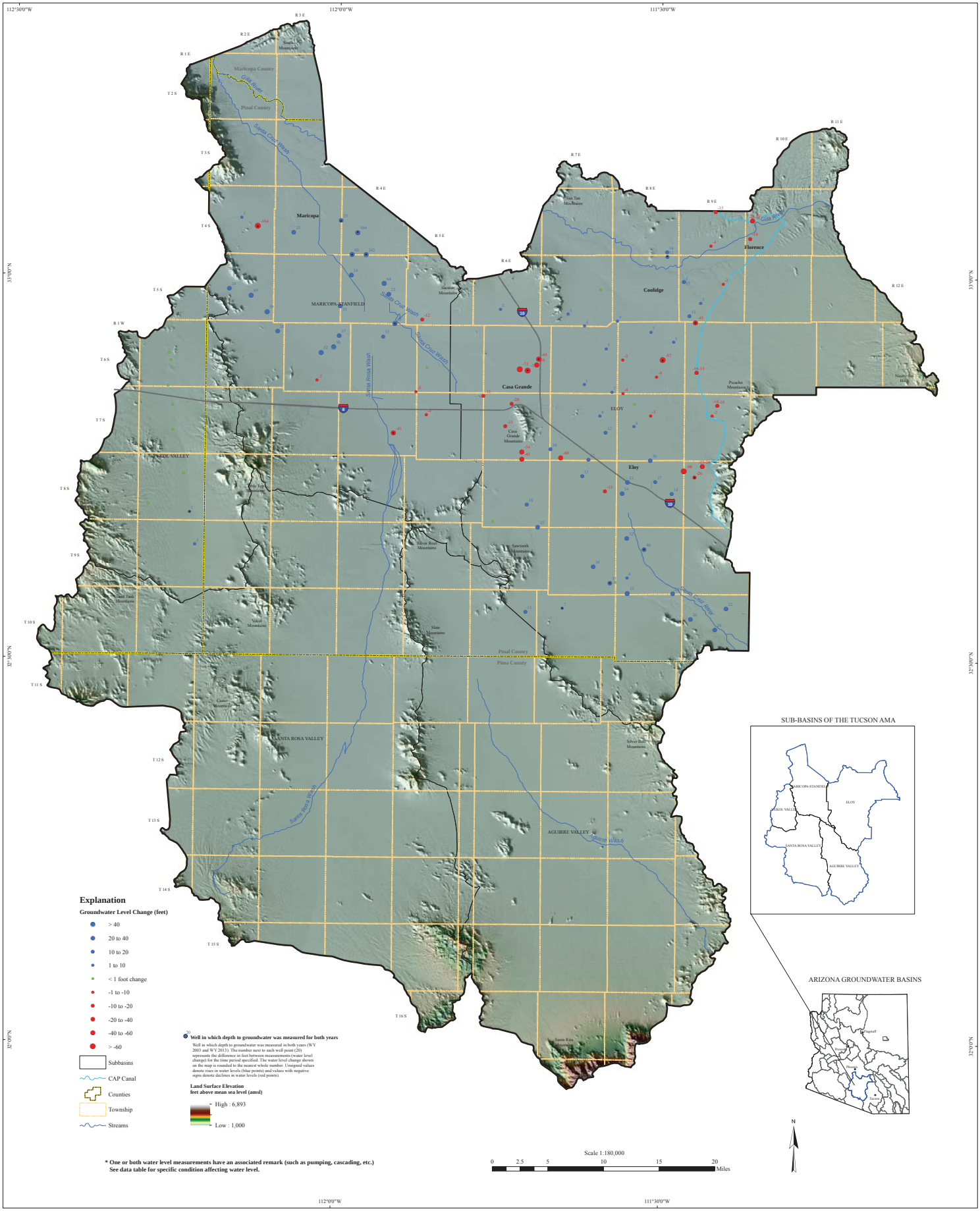

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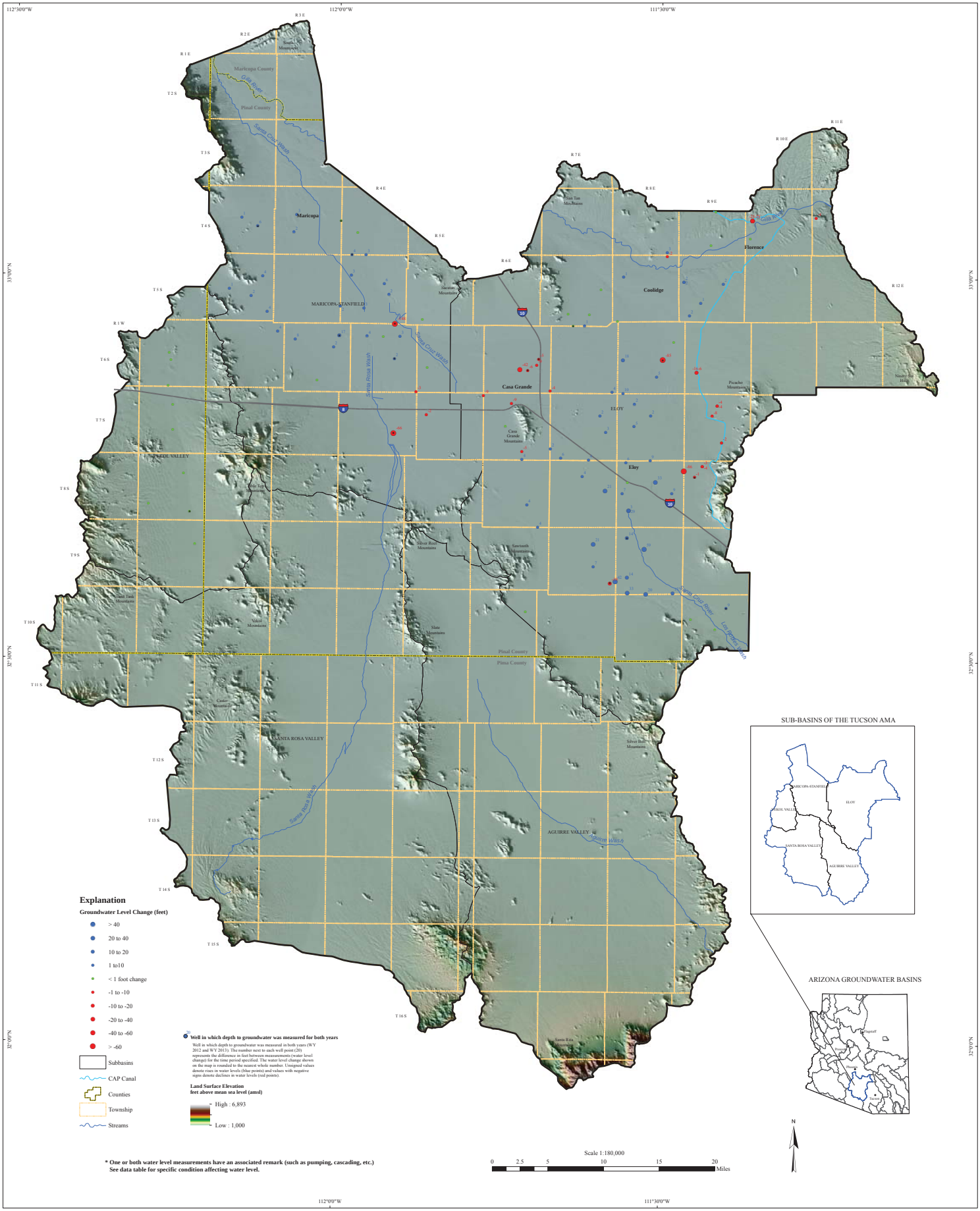

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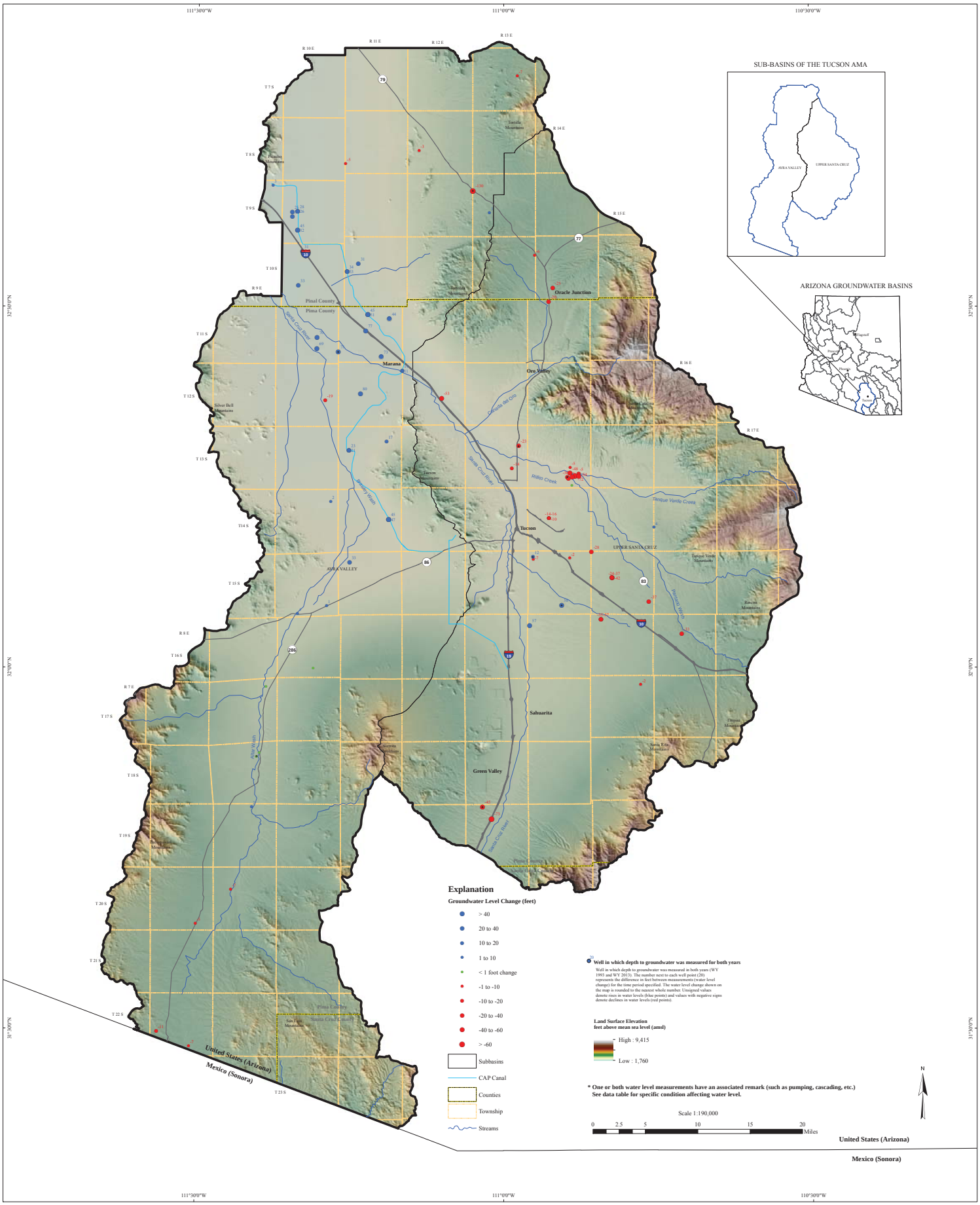

GROUNDWATER LEVEL CHANGES IN TUCSON AMA
WATER YEARS 1993 - 2013

By

Teri Davis, James Dieckhoff & Scott Stuk

March 2014

Created on March 28th, 2014
Created By: Scott Stuk
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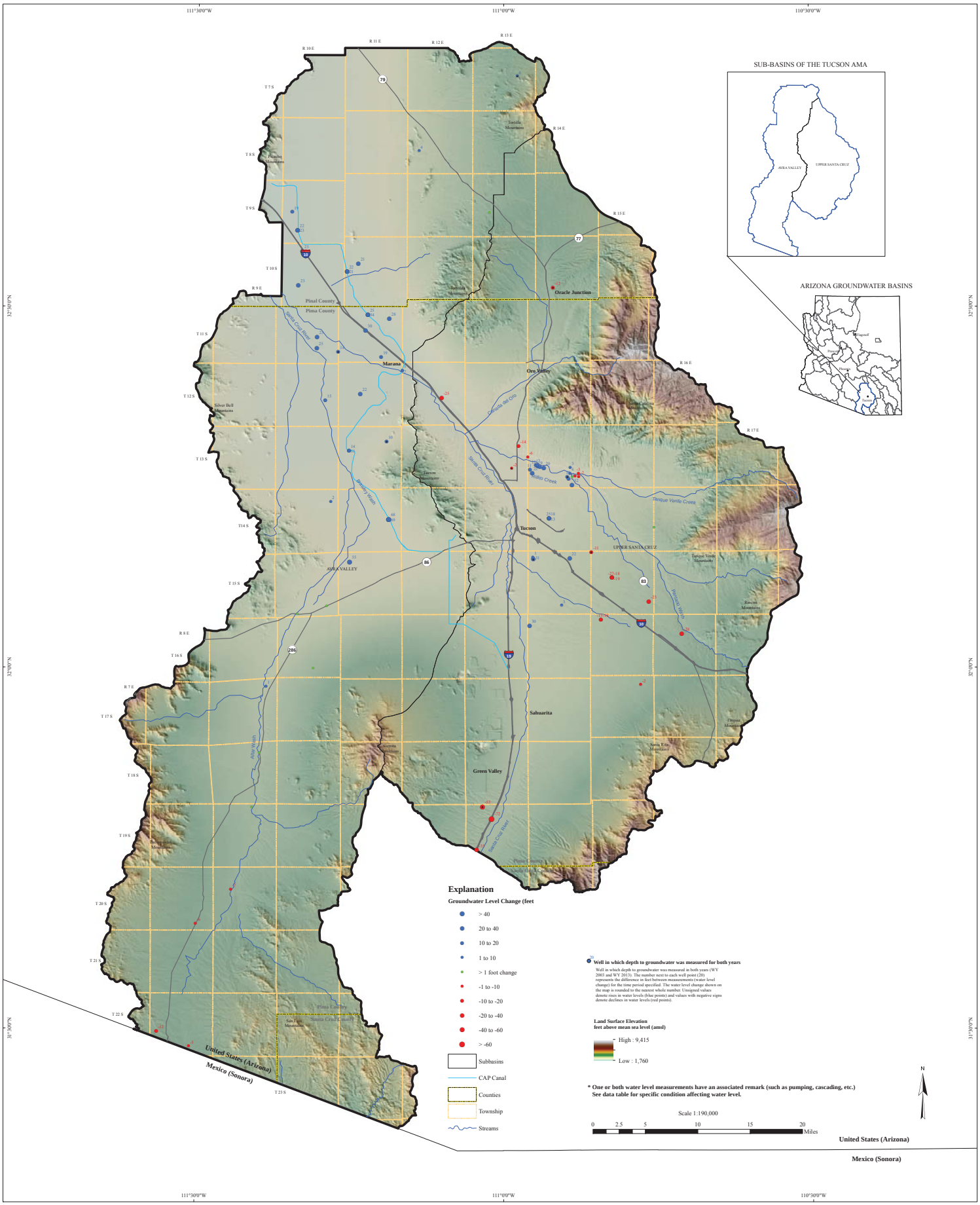

GROUNDWATER LEVEL CHANGES IN TUCSON AMA
WATER YEARS 2003 - 2013

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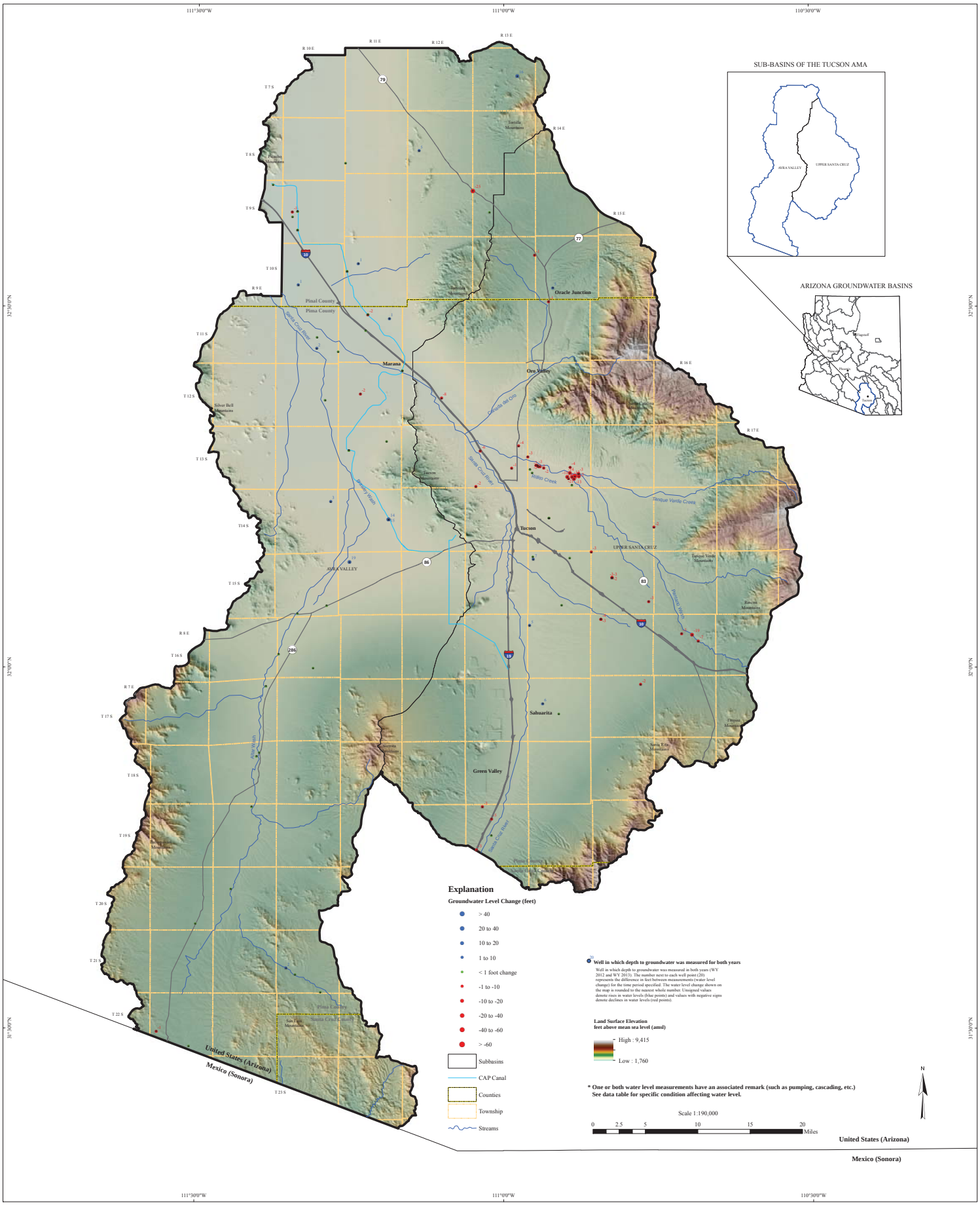

GROUNDWATER LEVEL CHANGES IN TUCSON AMA
WATER YEARS 2012 - 2013

By

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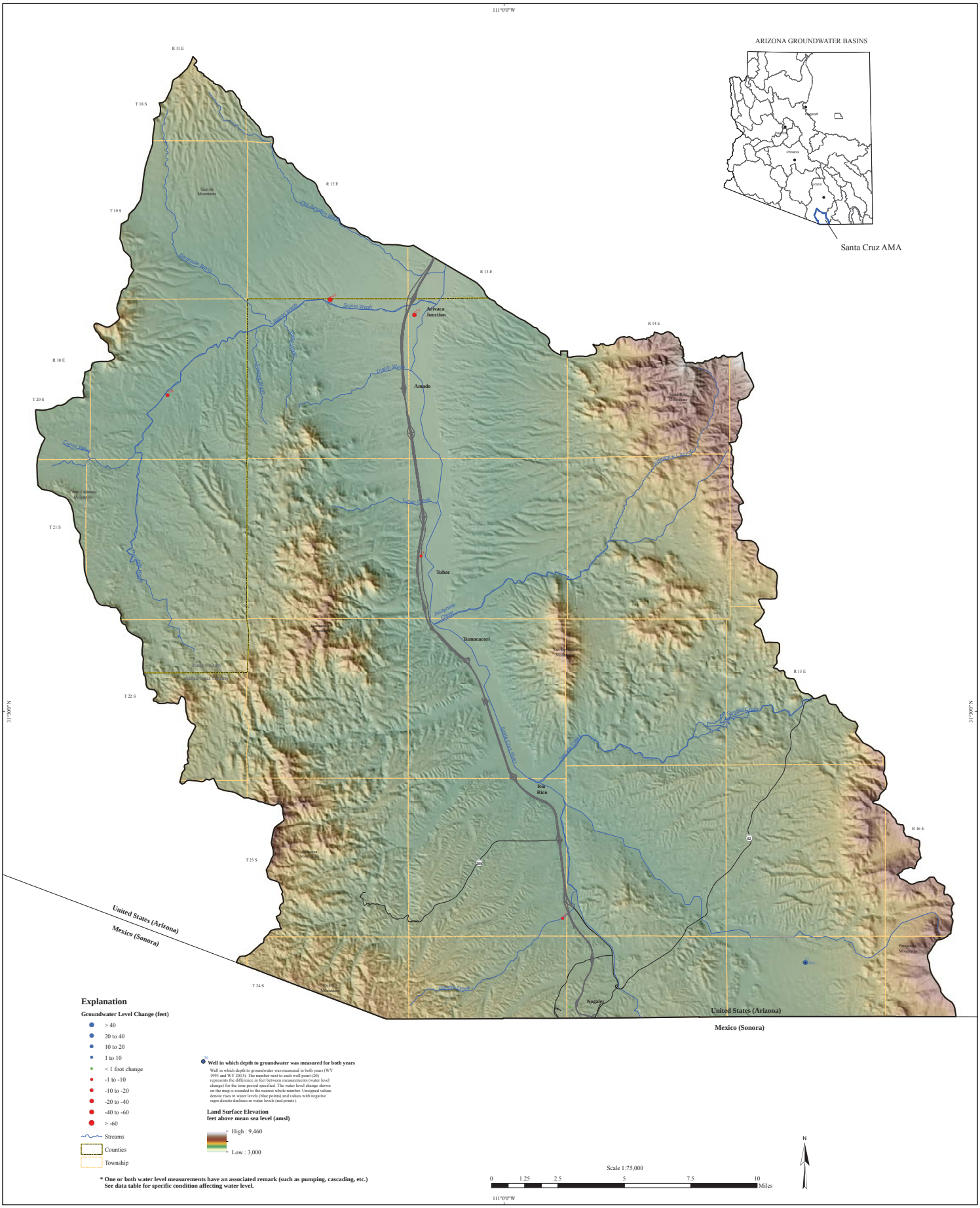

GROUNDWATER LEVEL CHANGES IN SANTA CRUZ AMA
WATER YEARS 1993 - 2013

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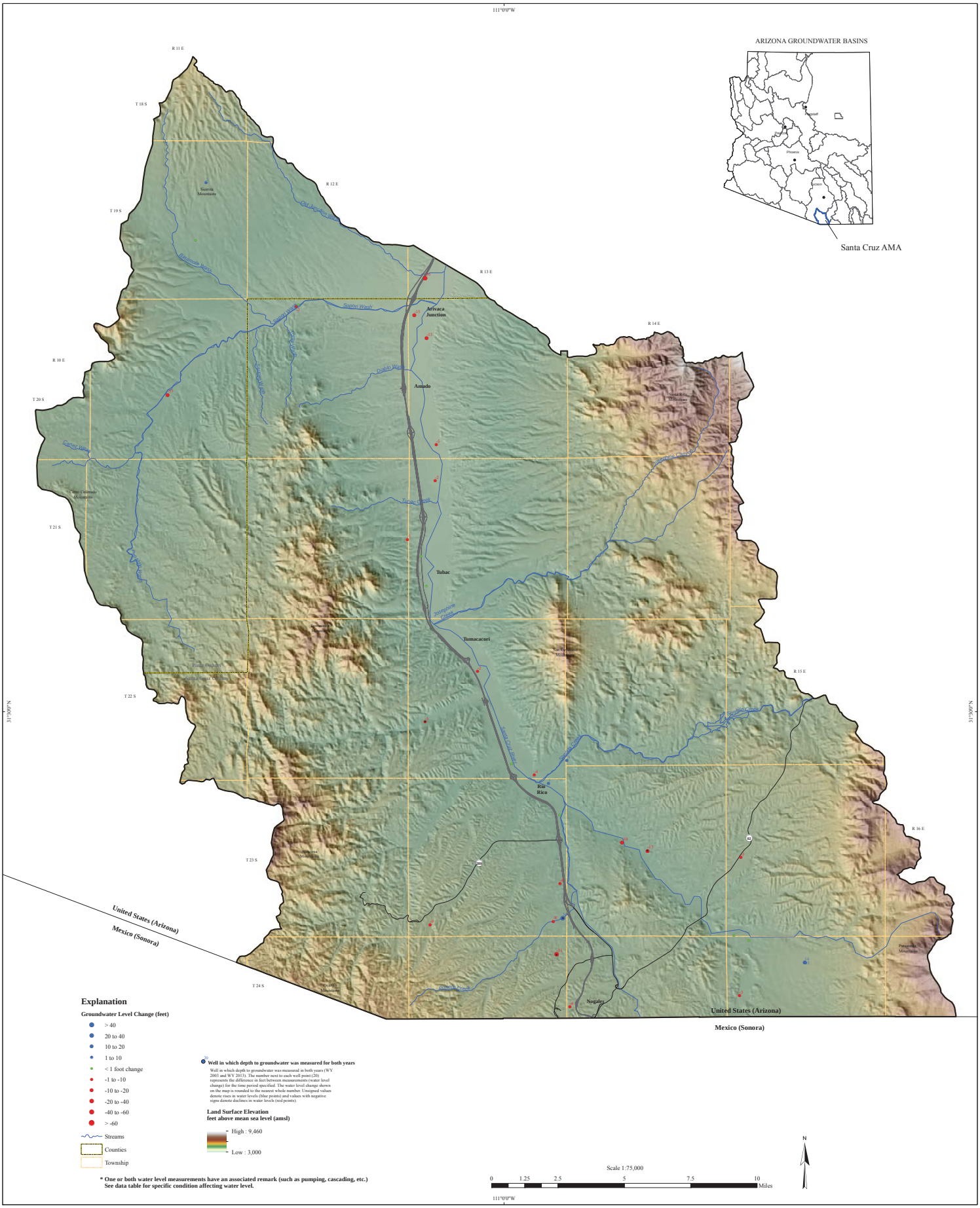

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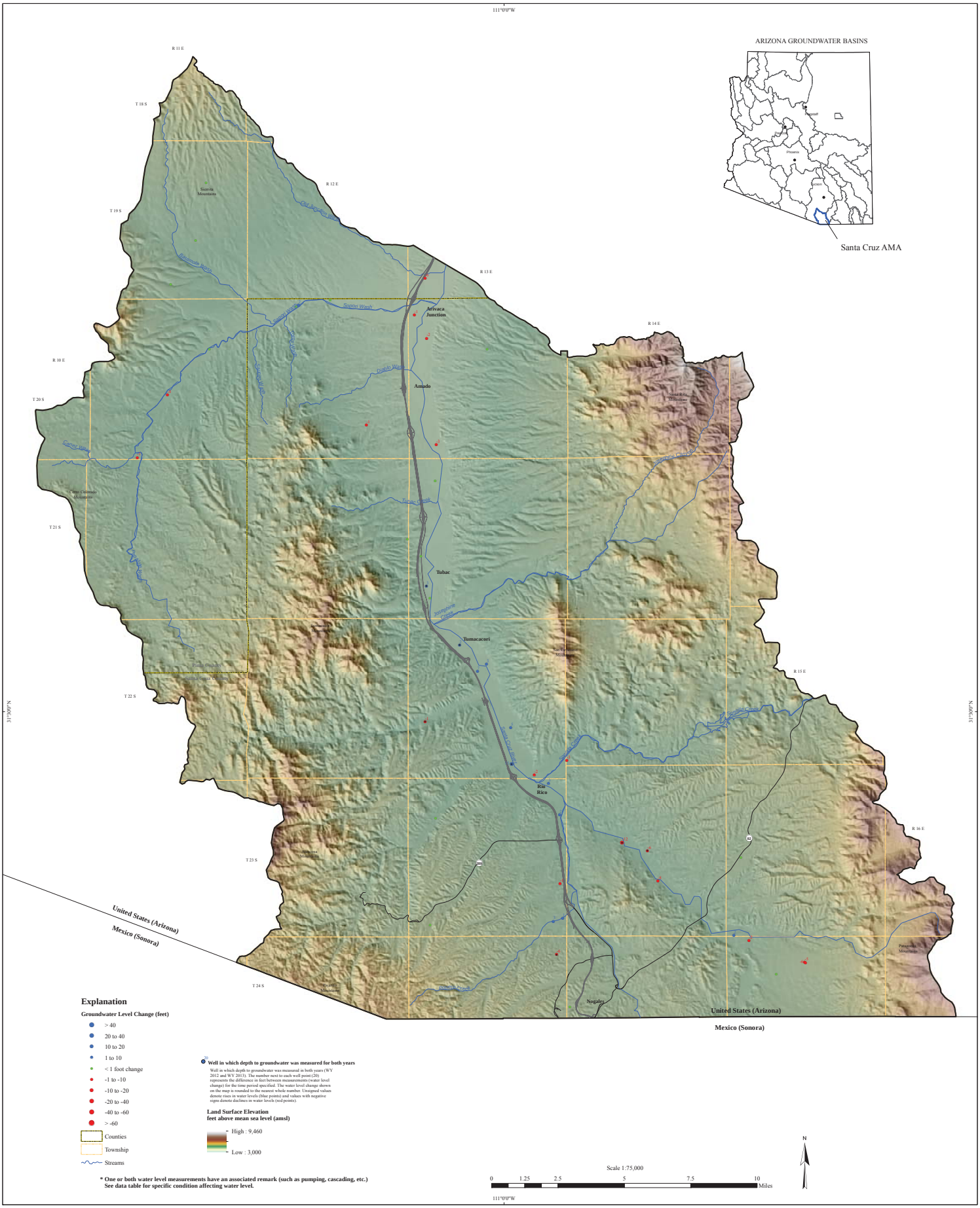

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Appendix 1

Groundwater Basins, AMAs and Sub-basins in Arizona.

Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.

Basin/AMA Code	Basin/AMA Code Description	Sub-Basin Code	Sub-Basin Code Description
AGF	AGUA FRIA BASIN	AGF	AGUA FRIA
ARA	ARAVAIPA CANYON BASIN	ARA	ARAVAIPA CANYON
BIS	BIG SANDY BASIN	FTR	FORT ROCK
BIS	BIG SANDY BASIN	WIK	WIKIEUP
BON	BONITA CREEK BASIN	BON	BONITA CREEK
BUT	BUTLER VALLEY BASIN	BUT	BUTLER VALLEY
BWM	BILL WILLIAMS BASIN	ALR	ALAMO RESERVOIR
BWM	BILL WILLIAMS BASIN	BUR	BURRO CREEK
BWM	BILL WILLIAMS BASIN	CLA	CLARA PEAK
BWM	BILL WILLIAMS BASIN	SKU	SKULL VALLEY
BWM	BILL WILLIAMS BASIN	SMR	SANTA MARIA
CCK	CIENEGA CREEK BASIN	CCK	CIENEGA CREEK
COP	COCONINO PLATEAU BASIN	COP	COCONINO PLATEAU
DET	DETRITAL VALLEY BASIN	DET	DETRITAL VALLEY
DON	DONNELLY WASH BASIN	DON	DONNELLY WASH
DOU	DOUGLAS BASIN	DIN	DOUGLAS INA
DOU	DOUGLAS BASIN	DOU	DOUGLAS
DSW	DRIPPING SPRING WASH BASIN	DSW	DRIPPING SPRING WASH
DUN	DUNCAN VALLEY BASIN	DNM	VIRDEN VALLEY, NEW MEXICO (DUNCAN - NEW MEXICO)
DUN	DUNCAN VALLEY BASIN	DUN	DUNCAN VALLEY
GIL	GILA BEND BASIN	GIL	GILA BEND
GWA	GRAND WASH BASIN	GWA	GRAND WASH
HAR	HARQUAHALA BASIN	HAR	HARQUAHALA INA
HUA	HUALAPAI VALLEY BASIN	HUA	HUALAPAI VALLEY
KAN	KANAB PLATEAU BASIN	KAN	KANAB PLATEAU
LCR	LITTLE COLORADO RIVER PLATEAU BASIN	JCI	JOSEPH CITY INA
LCR	LITTLE COLORADO RIVER PLATEAU BASIN	LCR	LITTLE COLORADO RIVER
LGB	LOWER GILA BASIN	CHV	CHILDS VALLEY
LGB	LOWER GILA BASIN	DEN	DENDORA VALLEY
LGB	LOWER GILA BASIN	WEM	WELLTON - MOHAWK
LKH	LAKE HAVASU BASIN	LKH	LAKE HAVASU
LSP	LOWER SAN PEDRO BASIN	CGW	CAMP GRANT WASH
LSP	LOWER SAN PEDRO BASIN	MAM	MAMMOTH
MEA	MEADVIEW BASIN	MEA	MEADVIEW
MHV	LAKE MOHAVE BASIN	MHV	LAKE MOHAVE

Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.

Basin/AMA Code	Basin/AMA Code Description	Sub-Basin Code	Sub-Basin Code Description
MMU	MCMULLEN VALLEY BASIN	MMU	MCMULLEN VALLEY
MOR	MORENCI BASIN	MOR	MORENCI
PAR	PARIA BASIN	PAR	PARIA
PHX	PHOENIX AMA	CRF	CAREFREE
PHX	PHOENIX AMA	ESR	EAST SALT RIVER
PHX	PHOENIX AMA	FNH	FOUNTAIN HILLS
PHX	PHOENIX AMA	HAS	HASSAYAMPA
PHX	PHOENIX AMA	LKP	LAKE PLEASANT
PHX	PHOENIX AMA	WAT	RAINBOW VALLEY
PHX	PHOENIX AMA	WSR	WEST SALT RIVER
PIN	PINAL AMA	AGV	AGUIRRE VALLEY
PIN	PINAL AMA	ELO	ELOY
PIN	PINAL AMA	MST	MARICOPA - STANFIELD
PIN	PINAL AMA	SRO	SANTA ROSA
PIN	PINAL AMA	VEK	VEKOL VALLEY
PKB	PARKER BASIN	CIB	CIBOLA VALLEY
PKB	PARKER BASIN	CRI	COLORADO RIVER INDIAN RESERVATION
PKB	PARKER BASIN	LPC	LA POSA PLAINS
PRE	PRESCOTT AMA	LIC	LITTLE CHINO VALLEY
PRE	PRESCOTT AMA	UAG	UPPER AGUA FRIA
PSC	PEACH SPRINGS BASIN	PSC	PEACH SPRINGS
RAN	RANEGRAS PLAIN BASIN	RAN	RANEGRAS PLAIN
SAC	SACRAMENTO VALLEY BASIN	SAC	SACRAMENTO VALLEY
SAF	SAFFORD BASIN	GSK	SAN CARLOS VALLEY
SAF	SAFFORD BASIN	SAF	GILA VALLEY
SAF	SAFFORD BASIN	SSI	SAN SIMON VALLEY
SBV	SAN BERNADINO VALLEY BASIN	SBV	SAN BERNADINO VALLEY
SCA	SANTA CRUZ AMA	SCA	SANTA CRUZ AMA
SHV	SHIVWITS PLATEAU BASIN	SHV	SHIVWITS PLATEAU
SRB	SALT RIVER BASIN	BRB	BLACK RIVER
SRB	SALT RIVER BASIN	SRL	SALT RIVER LAKES
SRB	SALT RIVER BASIN	USR	SALT RIVER CANYON
SRB	SALT RIVER BASIN	WRB	WHITE RIVER
SRF	SAN RAFAEL BASIN	SRF	SAN RAFAEL
SSW	SAN SIMON WASH	SSW	SAN SIMON WASH

Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.

Basin/AMA Code	Basin/AMA Code Description	Sub-Basin Code	Sub-Basin Code Description
TIG	TIGER WASH BASIN	TIG	TIGER WASH
TON	TONTO CREEK BASIN	TON	TONTO CREEK
TUC	TUCSON AMA	AVR	AVRA VALLEY
TUC	TUCSON AMA	USC	UPPER SANTA CRUZ
UHA	UPPER HASSAYAMPA BASIN	UHA	UPPER HASSAYAMPA
USP	UPPER SAN PEDRO BASIN	ALF	ALLEN FLAT
USP	UPPER SAN PEDRO BASIN	SEV	SIERRA VISTA
VRB	VERDE RIVER BASIN	BIC	BIG CHINO
VRB	VERDE RIVER BASIN	LVR	VERDE CANYON
VRB	VERDE RIVER BASIN	VER	VERDE VALLEY
VRG	VIRGIN RIVER BASIN	VRG	VIRGIN RIVER
WIL	WILLCOX BASIN	WIL	WILLCOX
WMD	WESTERN MEXICAN DRAINAGE BASIN	WMD	WESTERN MEXICAN DRAINAGE
YUM	YUMA BASIN	YUM	YUMA

Appendix 2

Groundwater level change in Arizona – Water Years 1993 to 2013.

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
340421112075801	A-09-02 34DDD	649365	2020	AGF	AGF	10/26/92	38.2	1981.8	A		V		10/22/12	46.4	1973.6	A		V		-8.2
342042112094501	A-11-02 09CCB	610557	3925	AGF	AGF	10/26/92	40.9	3884.1	A		V		10/22/12	65.1	3859.9	A		V		-24.2
341959112071601	A-11-02 14CAA	628102	3805	AGF	AGF	10/26/92	68.3	3736.7	A		V		10/22/12	73.9	3731.1	A	R	V		-5.6
342353112134501	A-12-01 26BAB1	802822	4375	AGF	AGF	10/26/92	17.2	4357.8	A		V		10/22/12	22.3	4352.7	A		V		-5.1
342450112071801	A-12-02 23BAA	614181	3870	AGF	AGF	10/26/92	37.9	3832.1	A		V		10/24/12	38.3	3831.7	A		V		-0.4
324902110184901	D-07-20 21BDB	613297	3515	ARA	ARA	01/27/93	12.9	3502.1	A	K	V		10/30/12	66	3449	A		V		-53.1
323753110080601	D-09-22 19DCC	627711	4280	ARA	ARA	01/27/93	106.8	4173.2	A		V		10/30/12	135.3	4144.7	A		V		-28.5
351153113214301	B-21-10 17CCD1		5058	BIS	FTR	10/27/92	128.2	4929.8	A		V		10/22/12	123.6	4934.4	A		V		4.6
344220113364901	B-16-13 21DDD2	642249	2040	BIS	WIK	10/26/92	97.8	1942.2	A		V		10/22/12	97.8	1942.2	A		V		0
344040113351001	B-16-13 36CCC		1880	BIS	WIK	10/26/92	12.7	1867.3	A		V		10/22/12	14.7	1865.3	A		V		-2
345332113390001	B-18-13 34CCD	614838	2479	BIS	WIK	10/30/92	50.1	2428.9	A		V		10/22/12	45.3	2433.7	A		V		4.8
351119113370801	B-21-13 24BCD	614875	3620	BIS	WIK	10/27/92	373.2	3246.8	A		V		11/13/12	372.5	3247.5	A		V		0.7
352135113423001	B-23-13 19DCB		3628	BIS	WIK	10/27/92	78.1	3549.9	A		V		11/13/12	105.82	3522.18	A		S		-27.72
352010113411501	B-23-13 32ACA	614897	3768	BIS	WIK	10/27/92	248.2	3519.8	A		V		11/13/12	263	3505	A		V		-14.8
335823113471501	B-07-15 02DDC	614536	1423	BUT	BUT	11/18/92	161	1262	A		V		11/02/12	200.3	1222.7	A	S	V		-39.3
335733113470301	B-07-15 11DDD	614539	1442	BUT	BUT	11/18/92	176	1266	A		V		04/01/13	220.9	1221.1	A		V		-44.9
335635113493001	B-07-15 16DCC		1346	BUT	BUT	11/18/92	94.9	1251.1	A		V		11/01/12	107	1239	A		V		-12.1
335620113494501	B-07-15 21BCA	516935	1330	BUT	BUT	11/18/92	85.2	1244.8	A		V		11/01/12	94	1236	A		V		-8.8
340333113363701	B-08-13 04DDD1	614575	1790	BUT	BUT	11/18/92	512.7	1277.3	A		V		11/02/12	514.2	1275.8	A		V		-1.5
340122113440301	B-08-14 20DAB	633680	1522	BUT	BUT	11/18/92	247.7	1274.3	A		V		11/02/12	255.7	1266.3	A		V		-8
340058113404701	B-08-14 23DDD	614576	1618	BUT	BUT	11/18/92	347	1271	A		V		11/02/12	351.3	1266.7	A		V		-4.3
340004113443601	B-08-14 29CDD	807275	1487	BUT	BUT	11/18/92	210.5	1276.5	A		V		11/02/12	221.2	1265.8	A		V		-10.7
341508113203801	B-11-10 31CBA		2160	BWM	ALR	11/18/92	642	1518	A		V		11/03/12	639.9	1520.1	A		V		2.1
341531113265801	B-11-11 31BBB1	614664	1350	BWM	ALR	11/18/92	53.7	1296.3	A		V		11/03/12	51.1	1298.9	A		V		2.6
342836113391301	B-13-13 07DDB2	644225	1770	BWM	ALR	10/30/92	141.5	1628.5	A		V		10/24/12	137.3	1632.7	A		V		4.2
341454113565501	B-11-16 32CDA	619413	615	BWM	CLA	10/29/92	23.3	591.7	A		V		11/01/12	20.5	594.5	A		V		2.8
342709112404501	B-13-04 21DB UNSPZ1	613853	4260	BWM	SKU	10/27/92	103.1	4156.9	A		V		05/06/13	105.7	4154.3	A		V		-2.6
342709112404502	B-13-04 21DB UNSPZ2	613853	4260	BWM	SKU	10/27/92	108.9	4151.1	A		V		05/06/13	111.7	4148.3	A		V		-2.8
342626112391401	B-13-04 26BCC1UNSURV	613867	4380	BWM	SKU	10/27/92	245.5	4134.5	A		V		05/07/13	244.7	4135.3	A		V		0.8
342639112394201	B-13-04 27AB UNSPZ1	613860	4360	BWM	SKU	10/27/92	152.9	4207.1	A		V		05/06/13	207	4153	A		V		-54.1
342639112394202	B-13-04 27AB UNSPZ2	613860	4360	BWM	SKU	10/27/92	262.3	4097.7	A		V		05/06/13	248.5	4111.5	A		V		13.8
342621112402301	B-13-04 28DA UNSURV	613852	4205	BWM	SKU	10/27/92	74.7	4130.3	A	P	V		05/06/13	81.8	4123.2	A	P	V		-7.1
344248112400801	B-14-04 22BAD	614731	4540	BWM	SKU	10/29/92	91.2	4448.8	A		V		04/09/13	91.4	4448.6	A		V		-0.2
341648112555201	B-11-06 19CBD	621558	3258	BWM	SMR	10/27/92	40.7	3217.3	A		V		10/25/12	43.8	3214.2	A		V		-3.1
341707113063901	B-11-08 20ADB	614653	2610	BWM	SMR	10/26/92	78	2532	A		V		10/23/12	75.5	2534.5	A		V		2.5
342044112554101	B-12-06W31AAD	613951	3470	BWM	SMR	10/27/92	94.2	3375.8	A		V		03/26/13	96.6	3373.4	A	V	S		-2.4
342828112531801	B-13-06 09DCD	625722	3500	BWM	SMR	10/27/92	17.5	3482.5	A		V		03/26/13	17.9	3482.1	A		V		-0.4
342801113134801	B-13-09 17BCC	611613	2590	BWM	SMR	10/26/92	41.7	2548.3	A		V		10/22/12	51.2	2538.8	A		V		-9.5
315816110310601	D-17-18 09BCC	601585	3843	CCK	CCK	01/04/93	293.5	3549.5	A	P	V		01/08/13	102.5	3740.5	A		V		191
314926110373501	D-18-17 32DBA	634321	4520	CCK	CCK	01/04/93	110.8	4409.2	A		V		01/10/13	115.2	4404.8	A		V		-4.4
314916110340401	D-18-17 36CBC	634356	4442	CCK	CCK	01/04/93	128.3	4313.7	A		V		01/10/13	136.8	4305.2	A	P	V		-8.5
314718110413801	D-19-16 15ABA	646557	4900	CCK	CCK	01/04/93	202.8	4697.2	A		V		01/08/13	204.7	4695.3	A		V		-1.9
314041110392001	D-20-16 24DAD2	623562	4875	CCK	CCK	01/05/93	208.2	4666.8	A		V		01/08/13	207.4	4667.6	A		V		0.8
314150110320401	D-20-18 17BCB	618570	4802	CCK	CCK	01/05/93	170	4632	A		V		01/09/13	178.4	4623.6	A		V		-8.4
313927110310401	D-20-18 33BBB	641932	4700	CCK	CCK	01/05/93	22.7	4677.3	A		V		01/09/13	26.6	4673.4	A		S		-3.9
313748110424501	D-21-16 09ABA		4420	CCK	CCK	01/06/93	44.7	4375.3	A	P	V		01/08/13	47.11	4372.89	A		S		-2.41
353337114235201	B-25-20 15AAA	637009	2820	DET	DET	10/27/92	596.4	2223.6	A		V		10/23/12	594.5	2225.5	A		V		1.9
354027114273101	B-26-20 06ACB	505703	2499.67	DET	DET	10/27/92	461	2038.67	A		V		01/23/13	461.16	2038.51	A		VT		-0.16
354838114323201	B-28-21 20ADB	505400	2347	DET	DET	10/27/92	304.7	2042.3	A		V		10/23/12	303.5	2043.5	A		V		1.2
354728114300501	B-28-21 26BBD	501132	2186	DET	DET	10/28/92	197.6	1988.4	A		V		10/23/12	195.9	1990.1	A		V		1.7

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 $SOURCE_2$	WY93 $REMARK_3$	WY93 $METHOD_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
360105114281101	B-30-20 06CAD UNSURV	629128	1339	DET	DET	10/27/92	56.4	1282.6	A		V		10/23/12	57.5	1281.5	A		V		-1.1
315231109423901	D-18-26 16BBB	616235	4281.9	DOU	DIN	01/27/93	153.5	4128.4	A		V		11/06/12	179	4102.9	A		V		-25.5
315042109414301	D-18-26 28AAA2		4268	DOU	DIN	01/27/93	189.5	4078.5	A		V		11/06/12	250.2	4017.8	A		V		-60.7
314806109423301	D-19-26 09BBB	625651	4237	DOU	DIN	01/27/93	162.6	4074.4	A		V		11/06/12	233.8	4003.2	A		V		-71.2
314557109392401	D-19-26 23DAA	618189	4300	DOU	DIN	01/27/93	277.6	4022.4	A		V		11/06/12	377.9	3922.1	A		V		-100.3
314358109414801	D-19-26 33CDA		4188.9	DOU	DIN	01/27/93	146.9	4042	A		V		11/06/12	168.4	4020.5	A		V		-21.5
314139109430401	D-20-26 17BDC	617290	4137	DOU	DIN	01/27/93	65.8	4071.2	A		V		11/06/12	86.8	4050.2	A		V		-21
314039109391501	D-20-26 23DAA2		4169	DOU	DIN	01/27/93	112	4057	A		V		11/06/12	120.3	4048.7	A		V		-8.3
313941109390601	D-20-26 25CBC	600023	4158	DOU	DIN	01/27/93	113.2	4044.8	A		V		11/06/12	120.8	4037.2	A		V		-7.6
313826109402301	D-21-26 02BAA		4130	DOU	DIN	01/27/93	100.5	4029.5	A		V		11/06/12	104.7	4025.3	A		V		-4.2
313740109403801	D-21-26 02CCD	609654	4141	DOU	DIN	01/27/93	120.4	4020.6	A		V		11/06/12	130.7	4010.3	A		V		-10.3
313550109392001	D-21-26 24ABB	632767	4196	DOU	DIN	01/27/93	185.3	4010.7	A		V		11/06/12	193.3	4002.7	A		V		-8
313332109430001	D-21-26 32DAD	602706	4077.24	DOU	DIN	01/28/93	70.7	4006.54	A		V		11/08/12	89.7	3987.54	A		V		-19
313107109461601	D-22-25 14ADD2		4125	DOU	DIN	01/28/93	100.5	4024.5	A		S		11/08/12			A	D	V		
313242109415501	D-22-26 04DAD		4095	DOU	DIN	01/28/93	118.4	3976.6	A		V		11/08/12	125.4	3969.6	A		V		-7
312527109395701	D-23-26 13CCC1	625680	4009	DOU	DIN	01/28/93	65.2	3943.8	A		S		11/08/12	71.8	3937.2	A		S		-6.6
312448109450001	D-23-26 19CBC2	603927	4158	DOU	DIN	01/29/93	132.7	4025.3	A		S		11/08/12	123.8	4034.2	A		V		8.9
312638109355901	D-23-27 09DAB	617653	4055	DOU	DIN	01/28/93	192	3863	A		V		11/08/12	217	3838	A		V		-25
312433109344901	D-23-27 22DDA2		4042	DOU	DIN	01/28/93	204.1	3837.9	A		V		11/07/12	239.2	3802.8	A		V		-35.1
312615109304201	D-23-28 08DDD		4258	DOU	DIN	01/27/93	65.8	4192.2	A		V		11/07/12	69.5	4188.5	A		V		-3.7
312248109323801	D-23-28 31CCC		4042	DOU	DIN	01/27/93	263.9	3778.1	A		V		11/07/12	326.1	3715.9	A		V		-62.2
314225109475401	D-20-25 09CAA	633787	4559.2	DOU	DOU	01/27/93	255.8	4303.4	A		V		11/06/12	232.2	4327	A		V		23.6
330858110495101	D-03-15 29AAB	624276	2715	DSW	DSW	03/10/93	43.17	2671.83	A		S		01/14/13	98.9	2616.1	A		S		-55.73
330845110501701	D-03-15 29BBD	607669	2710	DSW	DSW	03/10/93	10.3	2699.7	A		S		01/14/13	75.6	2634.4	A		S		-65.3
323938108541901	19S 20W 16 222		4097	DUN	DNM	01/26/93	84.6	4012.4	A		V		10/31/12	142	3955	A	P	V		-57.4
323438108514601	20S 20W 12 144		4206	DUN	DNM	01/26/93	275.1	3930.9	A		V		10/31/12	275.7	3930.3	A		V		-0.6
323555108581601	20S 21W 01 131		4153	DUN	DNM	01/26/93	318.8	3834.2	A		V		10/31/12	317.3	3835.7	A		V		1.5
323425109022101	20S 21W 17 111		3990	DUN	DNM	01/26/93	127.7	3862.3	A		V		10/31/12	126.1	3863.9	A		V		1.6
325655109135001	D-06-30 01BAA	637316	3645	DUN	DUN	01/26/93	186.2	3458.8	A		V		10/31/12	192.8	3452.2	A		V		-6.6
325114109105801	D-07-31 04BCC		3544	DUN	DUN	01/26/93	21.8	3522.2	A		V		10/31/12	31.4	3512.6	A		V		-9.6
324707109093901	D-07-31 34BAC		3590	DUN	DUN	01/26/93	31.8	3558.2	A		V		10/31/12	54.1	3535.9	A		V		-22.3
324348109064601	D-08-32 18CCD	628601	3655	DUN	DUN	01/26/93	15.4	3639.6	A		V		10/31/12	23.7	3631.3	A		V		-8.3
324355109051801	D-08-32 20ABB		3705	DUN	DUN	01/26/93	64	3641	A		V		10/31/12	72.2	3632.8	A		V		-8.2
324142109030001	D-08-32 34ADD	628592	3730	DUN	DUN	01/25/93	36.1	3693.9	A		V		10/31/12	51.9	3678.1	A		V		-15.8
323922109034501	D-09-32 15BBB	637313	3810	DUN	DUN	01/26/93	128.9	3681.1	A		V		10/31/12	129.9	3680.1	A		V		-1
331337112383401	C-02-04 26BDA		900	GIL	GIL	11/23/92	282	618	A		V		11/07/12	335.7	564.3	A		V		-53.7
331246112410801	C-02-04 32ADA		822	GIL	GIL	11/23/92	227.3	594.7	A		V		11/08/12	315.5	506.5	A		V		-88.2
331333112443001	C-02-05 26CBA		766	GIL	GIL	11/23/92	93.3	672.7	A		V		11/08/12	151.1	614.9	A		V		-57.8
330604112403101	C-04-04 09BAA1		705	GIL	GIL	11/23/92	83.3	621.7	A		V		11/07/12	230	475	A		V		-146.7
330258112385901	C-04-04 27DAA	622317	741	GIL	GIL	11/23/92	154.7	586.3	A		V		11/07/12	275.3	465.7	A		V		-120.6
330143112582201	C-04-07 34CDC	628201	580	GIL	GIL	11/24/92	25.6	554.4	A		V		11/14/12	37.5	542.5	A		S		-11.9
330047112361401	C-05-03 07ABB2	615044	930	GIL	GIL	11/23/92	357	573	A		V		11/08/12	412.8	517.2	A		V		-55.8
325813112345301	C-05-03 29AAA		1013.59	GIL	GIL	11/23/92	440.7	572.89	A		V		11/09/12	481	532.59	A		V		-40.3
325742112354601	C-05-03 29CBC2	650677	991	GIL	GIL	11/23/92	419.7	571.3	A		V		11/09/12	458.9	532.1	A		V		-39.2
325700112415901	C-05-04 31ADD	622309	742	GIL	GIL	11/23/92	186.6	555.4	A		V		11/07/12	229.6	512.4	A		V		-43
325920112533201	C-05-06 17DAD		658	GIL	GIL	11/24/92	86.3	571.7	A		V		11/14/12	90.9	567.1	A	K	V		-4.6
325650112552701	C-05-06 31CBB	622330	723	GIL	GIL	11/24/92	153	570	A		V		11/14/12	170.2	552.8	A		V		-17.2
325605112315001	C-06-03 02ADD	807428	1220.09	GIL	GIL	11/23/92	635.9	584.19	A		V		11/09/12	656.1	563.99	A		V		-20.2
325450112371501	C-06-04 12CDD	650671	980	GIL	GIL	11/23/92	413.9	566.1	A		V		11/09/12	437	543	A		V		-23.1
325627112433201	C-06-05 01BAA	622353	740	GIL	GIL	11/24/92	277.1	462.9	A	V	V		11/09/12			A	O	V		

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
325543112440201	C-06-05 02DDD	622362	755	GIL	GIL	11/24/92	193.7	561.3	A		V		11/09/12	230.6	524.4	A		V		-36.9
325540112523001	C-06-06 04DCD	622393	733	GIL	GIL	11/24/92	190	543	A		V		11/14/12	209.3	523.7	A		V		-19.3
325444112571901	C-06-07 11CCC	622333	721	GIL	GIL	11/24/92	130.4	590.6	A		V		11/14/12	83.4	637.6	A	V	V		47
324934112535201	C-07-06 08CDD1	611789	812	GIL	GIL	02/02/93	297.4	514.6	A		V		11/15/12	279	533	A		V		18.4
332749113063901	B-01-08 06AAA	612565	1117	HAR	HAR	11/23/92	390	727	A		V		12/20/12	417	700	A	K	V		-27
332450113073501	B-01-08 19BCC	600200	1093	HAR	HAR	11/23/92	55.7	1037.3	A		V		10/31/12	25.4	1067.6	A		V		30.3
332743113121801	B-01-09 05ABC	805455	1172	HAR	HAR	11/19/92	118	1054	A		V		10/30/12	87.6	1084.4	A		V		30.4
332637113134801	B-01-09 07BCC	635435	1201	HAR	HAR	11/19/92	446.6	754.4	A		V		12/20/12	440.5	760.5	A		V		6.1
332658113104001	B-01-09 10BBB	800152	1148	HAR	HAR	11/19/92	402.6	745.4	A		V		10/31/12	399.8	748.2	A		V		2.8
332513113124701	B-01-09 20BBB	616571	1175	HAR	HAR	11/19/92	94	1081	A		V		10/30/12	74.2	1100.8	A		V		19.8
332449113123001	B-01-09 20BDC	616572	1167	HAR	HAR	11/19/92	479.2	687.8	A	V	V		10/30/12	451.5	715.5	A	K	V		27.7
332449113080901	B-01-09 24CAA	635439	1103	HAR	HAR	11/23/92	392.6	710.4	A		V		10/31/12	400.7	702.3	A		V		-8.1
332357113124701	B-01-09 29BCC	603852	1183	HAR	HAR	11/19/92	483.1	699.9	A		V		10/30/12	473.2	709.8	A		V		9.9
332241113124801	B-01-09 32CCC	614409	1216	HAR	HAR	11/12/92	517.6	698.4	A		V		12/20/12			A	P	V		
332242113101601	B-01-09 34DCC1	627805	1153	HAR	HAR	11/19/92	447.6	705.4	A		V		10/30/12	452.2	700.8	A		V		-4.6
333057113060701	B-02-08 17CAA		1180	HAR	HAR	11/19/92	430.6	749.4	A		V		10/31/12	470	710	A		V		-39.4
332938113063901	B-02-08 30AAA2	608452	1144	HAR	HAR	11/19/92	476.1	667.9	A	P	V		12/20/12	432.3	711.7	A		V		43.8
333305113104301	B-02-09 03BBB		1260	HAR	HAR	11/19/92	484.5	775.5	A		V		10/29/12	529	731	A		V		-44.5
333212113131801	B-02-09 07ABB	627169	1260	HAR	HAR	11/19/92	300.4	959.6	A		V		10/29/12	297	963	A		V		3.4
333120113092501	B-02-09 14BAB	611129	1193	HAR	HAR	11/19/92	420.9	772.1	A	K	V		12/20/12	464.7	728.3	A	K	V		-43.8
333027113091001	B-02-09 23ABB	611131	1169	HAR	HAR	11/19/92	107.2	1061.8	A		V		10/29/12	66.1	1102.9	A		V		41.1
332819113094101	B-02-09 35CBB	803520	1142	HAR	HAR	11/19/92	24.7	1117.3	A		V		10/30/12	38.6	1103.4	A		V		-13.9
333301113182601	B-02-10 05ABB	648614	1330.37	HAR	HAR	11/09/92	395.7	934.67	A		V		06/05/13	368.79	961.58	A		VT		26.91
333035113181701	B-02-10 17DCA	621523	1296	HAR	HAR	11/17/92	368.7	927.3	A		V		10/29/12	341.7	954.3	A		V		27
333637113114701	B-03-09 08DDD2	520439	1501	HAR	HAR	11/18/92	600.1	900.9	A		V		11/01/12	607.6	893.4	A		V		-7.5
333802113210301	B-03-11 01BCB	520474	1490	HAR	HAR	11/17/92	525.7	964.3	A		V		10/29/12	506.7	983.3	A		V		19
333425113454901	B-03-13 28ADC	603145	1338	HAR	HAR	11/17/92	314.6	1023.4	A		V		11/13/12	315.9	1022.1	A		V		-1.3
334000113130301	B-04-09 30AAC	612687	1767	HAR	HAR	11/18/92	325.2	1441.8	A		V		11/01/12			A	Z	V	BEE'S AT MP	
334326113303401	B-04-12 05ADA		1663.8	HAR	HAR	11/17/92	463.4	1200.4	A		V		10/29/12	502.8	1161	A		V		-39.4
332216113050501	C-01-08 04BDA1		1060	HAR	HAR	11/23/92	355.6	704.4	A		V		10/31/12	335.7	724.3	A		V		19.9
332149113070301	C-01-08 06DCC	606843	1086	HAR	HAR	11/23/92	374.3	711.7	A		V		10/31/12	360.4	725.6	A		V		13.9
332005113022801	C-01-08 14DDD		990	HAR	HAR	11/23/92	253.6	736.4	A		V		10/31/12	214.3	775.7	A		V		39.3
331753113041001	C-01-08 34BCD	634099	1054	HAR	HAR	11/23/92	205.3	848.7	A		V		10/31/12	217.3	836.7	A		V		-12
332103113090401	C-01-09 11DCB	610098	1158	HAR	HAR	11/19/92	453.3	704.7	A		V		12/20/12	447.8	710.2	A		V		5.5
331940113092001	C-01-09 23BDB	807638	1197	HAR	HAR	11/19/92	499.2	697.8	A		V		10/31/12	478.8	718.2	A		V		20.4
351436113520201	B-22-15 33DBD	604197	3687	HUA	HUA	10/27/92	918.9	2768.1	A		V		11/16/12	929.2	2757.8	A		V		-10.3
351907113582801	B-22-16 03CBB	805941	3325	HUA	HUA	10/30/92	554	2771	A		V		11/15/12	587.3	2737.7	A		V		-33.3
352910111553001	B-24-16 01DDD1	619553	2961	HUA	HUA	10/30/92	450.4	2510.6	A		V		11/15/12			A	O	V	UTM - OBSTRUCTED AT 250' AND THEN 350 FT.	
354036114110601	B-26-18 03AAA1	641124	3300	HUA	HUA	10/27/92	557.5	2742.5	A		V		11/14/12	558.8	2741.2	A		V	PUMPED	-1.3
364632112261001	B-39-01 18DDB	637621	5585	KAN	KAN	10/29/92	484.1	5100.9	A		V		10/25/12	484.7	5100.3	A		V		-0.6
364540112315501	B-39-02 20CDD	805803	5272	KAN	KAN	10/29/92	612.3	4659.7	A		V		10/25/12	611.3	4660.7	A		V		1
365403112452801	B-40-04 06AAC		5140	KAN	KAN	10/29/92	83.4	5056.6	A		V		10/25/12	87.6	5052.4	A		V		-4.2
345414110153601	A-17-20 06ACB	620722	5040	LCR	JCI	10/28/92	12.9	5027.1	A		V		10/24/12	44.3	4995.7	A		V		-31.4
345635110173801	A-18-19 23DBD		5030	LCR	JCI	10/28/92	34.8	4995.2	A		V		10/24/12	50.9	4979.1	A		V		-16.1
340010109090101	A-07-30 14BDD		8021	LCR	LCR	10/27/92	153.7	7867.3	A		V		10/23/12	164.8	7856.2	A		S		-11.1
340752109581701	A-09-22 36CBB	620708	6745	LCR	LCR	10/26/92	21.6	6723.4	A		V		10/19/12	31	6714	A		S		-9.4
340808109165001	A-09-29 33BDA	623223	6970	LCR	LCR	10/26/92	148.2	6821.8	A		V		06/10/13	151.5	6818.5	A		V		-3.3
341429110025201	A-10-22 30ABA	620773	6520	LCR	LCR	10/26/92	526.5	5993.5	A		V		10/22/12	540	5980	A		V		-13.5

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
341516109412401	A-10-25 22BBD2	532224	6930	LCR	LCR	10/28/92	267.6	6662.4	A		V		10/23/12	270.8	6659.2	A		V		-3.2
342006109470801	A-11-24 22DBC	801337	6650	LCR	LCR	10/26/92	708	5942	A		V		10/22/12	710.3	5939.7	A		V		-2.3
342044109440001	A-11-25 18DCC2	806050	6430	LCR	LCR	10/26/92	26.8	6403.2	A		V		10/22/12	27.6	6402.4	A		S		-0.8
342024109220301	A-11-28 22BDD2	085863	6062	LCR	LCR	10/28/92	67.09	5994.91	A		V		10/02/12	107.46	5954.54	A		VT		-40.37
342033109174101	A-11-29 20ABB	611373	6521	LCR	LCR	10/28/92	543.65	5977.35	A		V		10/24/12	627.7	5893.3	A		V		-84.05
343150110063001	A-13-21 10CDA	600370	5632	LCR	LCR	10/27/92	155.3	5476.7	A		V		10/22/12	160	5472	A		S		-4.7
343009110043501	A-13-21 24CCB	604441	5618	LCR	LCR	10/27/92	91.95	5526.05	A		V		10/22/12	97.15	5520.85	A		S		-5.2
343302109372001	A-13-26 06DCB	617800	5640	LCR	LCR	10/26/92	202.35	5437.65	A		V		10/24/12	249.1	5390.9	A		V		-46.75
343200109275801	A-13-27 15BDC	617786	5845	LCR	LCR	10/26/92	265.6	5579.4	A		V		10/24/12	295.1	5549.9	A		V		-29.5
342946109133501	A-13-29 35AAA	632094	6176	LCR	LCR	10/27/92	201.26	5974.74	A		S		10/24/12	221.6	5954.4	A		V		-20.34
344058111033101	A-15-12 15DDC	631365	6503	LCR	LCR	10/29/92	670.3	5832.7	A		V		10/24/12	665.9	5837.1	A		V		4.4
343950109544001	A-15-23 28DCC1	618874	5352	LCR	LCR	10/27/92	34.3	5317.7	A		V		10/22/12	37.3	5314.7	A		V		-3
344644110024201	A-16-22 17CCD	607126	5165	LCR	LCR	10/27/92	52.2	5112.8	A		V		10/22/12	55.9	5109.1	A	V	V		-3.7
345023110111401	A-17-20 26DBC	632990	5361.75	LCR	LCR	10/27/92	300.8	5060.95	A		V		10/01/12	307.16	5054.59	A		VT		-6.36
345310110062501	A-17-21 10CBA		5141	LCR	LCR	10/27/92	54	5087	A		V		10/26/12	56.6	5084.4	A		V		-2.6
345750110482801	A-18-14 13ABD3	806154	5158	LCR	LCR	10/28/92	285.1	4872.9	A		V		10/24/12	282.3	4875.7	A		V		2.8
350417110413301	A-19-16 06CDB1	085761	4830	LCR	LCR	10/28/92	42.4	4787.6	A		V		10/26/12	45.4	4784.6	A		V		-3
350856111441601	A-20-06 02BBC	606205	7186	LCR	LCR	11/01/92	1121.9	6064.1	A		A		12/19/12	1297	5889	O	P	F		-175.1
351224109202401	A-21-28 23AAC	622724	5825	LCR	LCR	10/27/92	44.1	5780.9	A	P	V		10/23/12	43.6	5781.4	A	P	V		0.5
351620111433201	A-22-06 23DBC3	644021	7332	LCR	LCR	11/11/92	113.9	7218.1	A		V		01/25/13	123.5	7208.5	A		V		-9.6
351556111430401	A-22-06 25BBC1		7322	LCR	LCR	11/11/92	182	7140	A		V		10/17/12	182.7	7139.3	A		V		-0.7
351537111424801	A-22-06 25CAB3	600511	7310	LCR	LCR	08/18/93	165.7	7144.3	A		V		10/17/12	165.9	7144.1	A		V		-0.2
351551111434701	A-22-06 26BDB1	608396	7300	LCR	LCR	11/11/92	65.6	7234.4	A		V		01/25/13	75.1	7224.9	A		V		-9.5
351520111431601	A-22-06 26DDC2		7350	LCR	LCR	11/11/92	124.1	7225.9	A		V		10/17/12	123.2	7226.8	A		V		0.9
351523111443801	A-22-06 27DCB2	647022	7318	LCR	LCR	08/18/93	45.7	7272.3	A		V		10/17/12	52.2	7265.8	A		V		-6.5
352119109031601	A-23-31 33AAB	628127	6190	LCR	LCR	10/27/92	36.5	6153.5	A		V		10/23/12	42.9	6147.1	A		V		-6.4
322726112502001	C-11-06 24BDA1	600485	1420	LGB	CHV	11/11/92	690	730	A		V		11/01/12	672.9	747.1	A		V		17.1
330202113032101	C-04-08 35BDD	603564	543	LGB	DEN	11/16/92	65.2	477.8	A		V		10/31/12	96.6	446.4	A	S	V	PUMPING SOUTH OF HERE.	-31.4
330822113192101	C-03-10 29BCC	614970	793	LGB	WEM	11/18/92	398.8	394.2	A		V		10/31/12	388	405	A		V		10.8
330550113110701	C-04-09 09ADA	614989	623	LGB	WEM	04/01/93	202.6	420.4	A		V		10/31/12	200.2	422.8	A		V		2.4
330700113154701	C-04-10 02BAA	614990	732	LGB	WEM	11/17/92	320.7	411.3	A		V		10/31/12	311.6	420.4	A		V		9.1
330422113164301	C-04-10 22ABB	619482	608	LGB	WEM	11/17/92	136.6	471.4	A		V		10/31/12	137.6	470.4	A		V		-1
330514113231001	C-04-11 15BAB	618118	691	LGB	WEM	11/13/92	298.1	392.9	A		V		10/30/12	295.3	395.7	A	S	V	NEARBY PUMPING SOUTH OF HERE.	2.8
330239113232801	C-04-11 34BBB	615043	603	LGB	WEM	11/12/92	211	392	A		V		10/30/12	209.9	393.1	A		V		1.1
330140113140901	C-05-09 06BBB	633678	501	LGB	WEM	11/11/92	43.9	457.1	A		V		10/31/12	51.4	449.6	A		S		-7.5
325422113060801	C-06-08 17BDD	804050	708	LGB	WEM	04/26/93	235.7	472.3	A		V		10/29/12	232	476	A		V		3.7
325356113214201	C-06-11 14CDD		463	LGB	WEM	03/23/93	57.9	405.1	A		V		10/29/12	60.6	402.4	A		V		-2.7
325353113321101	C-06-12 19BBA		383	LGB	WEM	11/12/92	29.98	353.02	A		S		10/29/12	38.4	344.6	A		S		-8.42
325300113423201	C-06-14 28BAB	627175	408	LGB	WEM	11/11/92	105.1	302.9	A		V		10/30/12	108.3	299.7	A		V		-3.2
325300113455201	C-06-15 26AAA		410	LGB	WEM	11/11/92	107.3	302.7	A		V		10/30/12	101.4	308.6	A		V		5.9
324628113145301	C-07-10 36BCC	615112	623	LGB	WEM	11/11/92	167.7	455.3	A		V		10/29/12	169.6	453.4	A		V		-1.9
324658113220801	C-07-11 27DDD	610466	540	LGB	WEM	11/12/92	233.7	306.3	A		V		10/29/12	233.4	306.6	A	S	V		0.3
324750113275001	C-07-12 23CDD	615125	524	LGB	WEM	11/10/92	215.3	308.7	A		V		10/29/12	266.5	257.5	A		V		-51.2
324814113263501	C-07-12 24ACD	610478	512	LGB	WEM	11/09/92	204.4	307.6	A		V		10/29/12	325.5	186.5	A		V		-121.1
324839113353201	C-07-13 21AAA	803848	419	LGB	WEM	11/10/92	93	326	A		V		10/29/12	95.4	323.6	A		V		-2.4
325103113395001	C-07-14 02AAD		342	LGB	WEM	11/10/92	32.1	309.9	A		V		10/30/12	22.1	319.9	A		V		10
324929113475501	C-07-15 16AAA		335	LGB	WEM	11/04/92	34	301	A		V		10/30/12	33.2	301.8	A		S		0.8
324440113482601	C-08-15 09DBB	513657	379	LGB	WEM	11/06/92	106.5	272.5	A		V		10/29/12	106.7	272.3	A		V		-0.2

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
324415113171201	C-08-17 12DDD2	511059	263	LGB	WEM	11/05/92	14.2	248.8	A		V		10/30/12	24.7	238.3	A		V		-10.5
324229114014601	C-08-17 20DCC		248	LGB	WEM	11/13/92	10	238	A		V		10/30/12	14.8	233.2	A		S		-4.8
324014114123601	C-09-19 04DAA	609429	208.1	LGB	WEM	11/03/92	10.9	197.2	A		V		10/30/12	13.1	195	A		S		-2.2
343007114213101	B-13-20 04ABB1	606035	475	LKH	LKH	10/29/92	55.6	419.4	A		V		10/25/12	25.8	449.2	A		V		29.8
324525110534701	D-08-14 09AAD	615540	3965	LSP	CGW	03/11/93	35.4	3929.6	A		V		01/15/13	72.8	3892.2	A		V		-37.4
325526110433801	D-06-16 08DAB2		2040	LSP	MAM	03/10/93	36.32	2003.68	A		S		01/14/13			A	D	V	OWNER IS GETTING WELL DEEPENED	
324840110412001	D-07-16 22ADD	610320	2206.36	LSP	MAM	03/10/93	13.5	2192.86	A		V		01/15/13	16.1	2190.26	A		S		-2.6
324208110393301	D-08-16 25DCD		2910	LSP	MAM	03/10/93	496.3	2413.7	A		V		01/15/13	490.1	2419.9	A		V		6.2
324418110350001	D-08-17 15DAA		3045	LSP	MAM	03/11/93	292.4	2752.6	A		V		01/15/13	295.4	2749.6	A		V		-3
323644110461201	D-09-15 35AAD	649302	4480	LSP	MAM	03/10/93	14.19	4465.81	A		S		01/15/13	44.7	4435.3	A		S		-30.51
324058110361201	D-09-17 04ADC1	607867	2448.39	LSP	MAM	03/11/93	35.33	2413.06	A		S		01/15/13	49.7	2398.69	A	P	V		-14.37
321017110171401	D-14-20 34CAA1		3360	LSP	MAM	03/11/93	113.8	3246.2	A		V		12/07/12	118.6	3241.4	A	S	V	CAAA2 PUMPING	-4.8
321157110143001	D-14-21 19CAD	615955	4210	LSP	MAM	03/11/93	388.3	3821.7	A	P	V		12/08/12	86.13	4123.87	A		S		302.17
320836110172301	D-15-20 10CAB2	808718	3319	LSP	MAM	03/11/93	41.1	3277.9	A		V		12/07/12	42.8	3276.2	A		S		-1.7
355855114043501	B-30-17 14DCC	610730	3187.04	MEA	MEA	11/11/92	393.2	2793.84	A		V		01/23/13	424.03	2763.01	A		VT		-30.83
345824114321901	B-18-21 05CAB3	510925	810	MHV	MHV	10/29/92	335.2	474.8	A	R	V		10/25/12	338.5	471.5	A		V		-3.3
350557114334501	B-20-22 24DDD	506309	905	MHV	MHV	10/29/92	425.1	479.9	A		V		10/25/12	427.1	477.9	A		V		-2
351120114320001	B-21-21 21CBB		980	MHV	MHV	10/27/92	364.5	615.5	A		V		10/23/12	345	635	A		V		19.5
334845113312201	B-05-12 05AAD1	614500	1907	MMU	MMU	11/16/92	143.2	1763.8	A		V		10/31/12	394.3	1512.7	A		V		-251.1
334408113313401	B-05-12 32ADB		1697	MMU	MMU	11/17/92	115.1	1581.9	A		V		10/30/12	135.2	1561.8	A		V		-20.1
334827113335701	B-05-13 01BDA	625292	1859	MMU	MMU	11/17/92	402.7	1456.3	A		V		10/31/12			A	O	V		
334818113350001	B-05-13 02DBB		1861.45	MMU	MMU	11/17/92	19.8	1841.65	A		V		02/05/13	22.55	1838.9	A	S	VT		-2.75
334557113393201	B-05-13 19BBD2		1955	MMU	MMU	11/17/92	342.6	1612.4	A		V		10/30/12	384.1	1570.9	A		V		-41.5
334452113370401	B-05-13 28ACC	607056	1918.3	MMU	MMU	11/17/92	278.6	1639.7	A		V		10/30/12	315.7	1602.6	A		V		-37.1
335334113250701	B-06-11 05ADD	804122	1991.42	MMU	MMU	02/12/93	230.75	1760.67	A		V		02/05/13	246.58	1744.84	A		VT		-15.83
335053113224001	B-06-12 19DBB		1939.09	MMU	MMU	11/17/92	49.5	1889.59	A		V		10/31/12	44.3	1894.79	A		S		5.2
334955113365201	B-06-13 28DBD2	634103	2009	MMU	MMU	11/17/92	534.2	1474.8	A		V		10/30/12	597.5	1411.5	A		V		-63.3
335727113045101	B-07-08 15BAA	807721	2257	MMU	MMU	11/16/92	598.2	1658.8	A		V		11/06/12	630.7	1626.3	A		V		-32.5
335545113062501	B-07-08 20DDD		2224	MMU	MMU	11/16/92	621.2	1602.8	A		V		11/06/12	676.6	1547.4	A		V		-55.4
335635113110601	B-07-09 15CDD	604129	2153	MMU	MMU	11/16/92	544	1609	A		V		11/06/12	573.9	1579.1	A		V		-29.9
335449113120601	B-07-09 33ABB	612679	2235	MMU	MMU	11/16/92	614.6	1620.4	A		V		11/02/12	642.8	1592.2	A		V		-28.2
335633113195701	B-07-10 19AAA	604150	2056	MMU	MMU	11/16/92	348.4	1707.6	A		V		03/20/13	384.6	1671.4	A		V		-36.2
335741113251401	B-07-11 08DAD2	506602	2175	MMU	MMU	11/16/92	479	1696	A		V		11/02/12	528.6	1646.4	A		V		-49.6
335535113232701	B-07-11 27ABC	801549	2028	MMU	MMU	11/16/92	240.9	1787.1	A		V		11/02/12	262.5	1765.5	A		V		-21.6
340005113101801	B-08-09 26CCD	640729	2191	MMU	MMU	11/16/92	535.6	1655.4	A		V		11/06/12	496.1	1694.9	A		V		39.5
340003113154501	B-08-10 36BBB	614567	2198	MMU	MMU	11/16/92	524.3	1673.7	A		V		11/06/12	552.5	1645.5	A		V		-28.2
334929109075301	A-05-30 13DBC		8020	MOR	MOR	10/27/92	90.1	7929.9	A		V		10/23/12	81.3	7938.7	A		S		8.8
334943109055301	A-05-31 17CAA1	519013	7907	MOR	MOR	10/27/92	5.7	7901.3	A		V		10/23/12	14.3	7892.7	A		S		-8.6
330016109163701	D-05-30 17ABA	621098	3890	MOR	MOR	01/26/93	503.1	3386.9	A		V		10/31/12	503.8	3386.2	A		V		-0.7
365723111302801	A-41-08 14BCA	637389	4112	PAR	PAR	10/29/92	499.1	3612.9	A		V		10/24/12	498.9	3613.1	A		V	LAKE LEVEL 3620.04	0.2
365942111292501	A-42-08 36CBC		3735.84	PAR	PAR	10/22/92	111.3	3624.54	A		V		07/24/13	131.6	3604.24	A		V		-20.3
334822111515401	A-05-05 05CAA	087599	2670.16	PHX	CRF	09/28/93	379.4	2290.76	A		V		10/23/12	339.66	2330.5	A		VT		39.74
335052111564701	A-06-04 21DAC		2180	PHX	CRF	11/19/92	134.3	2045.7	A		V		11/27/12	108.8	2071.2	A		S		25.5
335108111551901	A-06-04 23BCA	636832	2405	PHX	CRF	09/28/93	105.9	2299.1	A		V		11/27/12	161.2	2243.8	A		S		-55.3
334850111532401	A-06-05 31CCC2	604782	2558	PHX	CRF	11/24/92	373.7	2184.3	A		V		11/28/12	249.1	2308.9	A		V		124.6
332510111535801	A-01-04 24ABC	628168	1182	PHX	ESR	01/15/93	79.9	1102.1	A		V		12/17/12	90.8	1091.2	A		V		-10.9
332614111503901	A-01-05 16ABB	607702	1244.78	PHX	ESR	12/01/92	206.6	1038.18	A		V		01/14/13	138.5	1106.28	S		V		68.1
332517111492301	A-01-05 22AAA	629619	1240.43	PHX	ESR	02/09/93	178.9	1061.53	A		V		03/07/13	148.2	1092.23	A		V		30.7
332337111481801	A-01-05 26DDD	607699	1225.12	PHX	ESR	12/01/92	156.8	1068.32	A		V		01/21/13	107	1118.12	S		V		49.8

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
332359111525701	A-01-05 30BDD	607741	1199	PHX	ESR	12/01/92	112.6	1086.4	A		V		01/10/13	80	1119	S		V		32.6
332746111430601	A-01-06 03ADA	629610	1400	PHX	ESR	01/11/93	415.6	984.4	A		V		12/03/12	276.3	1123.7	A		V		139.3
332547111402701	A-01-07 18ACC	500714	1481	PHX	ESR	03/09/93	518	963	A		V		03/07/13	373.5	1107.5	A		V		144.5
333345111360001	A-01-07 26AAC2	616590	1570	PHX	ESR	11/16/92	524.4	1045.6	A		V		11/29/12	563.4	1006.6	A		V		-39
332308111345001	A-01-07 36DAA2 PZ1		1564	PHX	ESR	06/09/93	509.3	1054.7	A		V		11/12/12	550.3	1013.7	A		V		-41
332308111345002	A-01-07 36DAA2 PZ2		1564	PHX	ESR	06/09/93	513.7	1050.3	A		V		11/12/12	553.7	1010.3	A		V		-40
332308111345003	A-01-07 36DAA2 PZ3		1564	PHX	ESR	06/09/93	506.8	1057.2	A		V		11/12/12	515.2	1048.8	A		V		-8.4
332614111311101	A-01-08 10DCC1	614002	1867	PHX	ESR	11/16/92	89.9	1777.1	A		V		11/27/12	92.4	1774.6	A		V		-2.5
332332111333401	A-01-08 32BBA	800843	1632	PHX	ESR	11/16/92	561.3	1070.7	A		V		11/27/12	616.5	1015.5	A		V		-55.2
333248111535801	A-02-04 01ACC	626816	1296.92	PHX	ESR	01/14/93	313.1	983.82	A		V		03/06/13	190.81	1106.11	A		VT		122.29
333127111544601	A-02-04 11DCC2	617843	1275	PHX	ESR	12/02/92	355.8	919.2	A		V		01/15/13	321	954	S		V		34.8
333009111560401	A-02-04 22BDD		1290	PHX	ESR	02/09/93	302.1	987.9	A		V		11/27/12	153.2	1136.8	A		S		148.9
332903111441901	A-02-06 28DDB	607739	1318	PHX	ESR	12/01/92	289.3	1028.7	A		V		01/30/13	182.5	1135.5	S		V		106.8
332828111452901	A-02-06 32ACD	617871	1298	PHX	ESR	12/02/92	257.5	1040.5	A		V		01/28/13	206	1092	S		V		51.5
333546111511201	A-03-05 21BBA	800809	1435	PHX	ESR	11/19/92	336.2	1098.8	A		V		11/27/12	276.8	1158.2	A		V		59.4
333427111475701	A-03-05 25CAB	600650	1555	PHX	ESR	11/20/92	549.7	1005.3	A	R	V		11/28/12	415.3	1139.7	A		V		134.4
333442111502101	A-03-05 28ADA	629249	1421	PHX	ESR	01/14/93	375.2	1045.8	A		V		11/27/12	278.5	1142.5	A		V		96.7
334154112001401	A-04-03 13BAA	503959	1615	PHX	ESR	11/17/92	459.9	1155.1	A		V		11/29/12	499.4	1115.6	A		V		-39.5
333917111594501	A-04-03 36AAA1	606354	1503	PHX	ESR	11/17/92	358.9	1144.1	A		V		11/27/12	384.8	1118.2	A		V		-25.9
334332111594201	A-04-04 06BBB	623687	1730	PHX	ESR	02/12/93	544.3	1185.7	A		V		02/01/13	595.7	1134.3	A		V		-51.4
334104111542501	A-04-04 13CCC		1798	PHX	ESR	11/19/92	693.7	1104.3	A	P	V		12/03/12	678.3	1119.7	A		V		15.4
334359111563401	A-05-04 33DAA	600117	1976.25	PHX	ESR	11/19/92	803.6	1172.65	A		V		10/24/12	847.67	1128.58	A		VT		-44.07
335010112063001	A-06-02 25BDD1		1822	PHX	ESR	11/17/92	283.1	1538.9	A		V		11/27/12	303.3	1518.7	A		V		-20.2
332240111564201	D-01-04 03BBB2	617852	1182	PHX	ESR	12/01/92	105.3	1076.7	A		V		01/09/13	86	1096	A		V		19.3
332102111424501	D-01-06 11CDD2	620513	1295	PHX	ESR	11/19/92	295.6	999.4	A		V		12/04/12	217.1	1077.9	A		V		78.5
331918111421101	D-01-06 24CCC2	620517	1312	PHX	ESR	11/19/92	261.9	1050.1	A		V		12/04/12	171.6	1140.4	A		V		90.3
331850111350001	D-01-07 25ADD		1458	PHX	ESR	11/16/92	336.4	1121.6	A		V		11/27/12	303	1155	A		V		33.4
331953111315001	D-01-08 21ADB PZ1		1565	PHX	ESR	11/16/92	442.1	1122.9	A		V		11/13/12	335.3	1229.7	A		V		106.8
331953111315002	D-01-08 21ADB PZ2		1565	PHX	ESR	11/16/92	325.8	1239.2	A		V		11/13/12	335.1	1229.9	A		V		-9.3
331848111334901	D-01-08 30DAA PZ1	615222	1492	PHX	ESR	11/16/92	372.8	1119.2	A		V		11/27/12	305.1	1186.9	A		V		67.7
331848111334902	D-01-08 30DAA PZ2	615222	1492	PHX	ESR	11/16/92	327.6	1164.4	A		V		11/27/12	306.3	1185.7	A		V		21.3
332135111281801	D-01-09 07BDC2	801811	1751	PHX	ESR	11/17/92	841.2	909.8	A		V		11/29/12	356.2	1394.8	A		V		485
331803111172901	D-01-10 35DBA	628140	2040	PHX	ESR	11/17/92	28.5	2011.5	A		V		11/28/12	59.8	1980.2	A		V		-31.3
331708111380501	D-02-07 04ADD	613581	1390	PHX	ESR	11/19/92	302.6	1087.4	A		V		12/05/12	234.3	1155.7	A		V		68.3
331548111345801	D-02-07 12DDD	607979	1457	PHX	ESR	11/16/92	330.6	1126.4	A		V		11/27/12	251.1	1205.9	A		V		79.5
331313111350301	D-02-07 25DDD3	612290	1464	PHX	ESR	11/17/92	456	1008	A	P	V		11/27/12	273.6	1190.4	A		V		182.4
331324111370001	D-02-07 27DDA	615228	1427	PHX	ESR	11/17/92	370.6	1056.4	A		V		11/27/12	255.3	1171.7	A		V		115.3
331224111403701	D-02-07 31CDA2	608807	1442	PHX	ESR	11/17/92	567	875	A		V		12/05/12	343	1099	A		V		224
331703111303401	D-02-08 02CBB PZ1		1573	PHX	ESR	11/16/92	448.2	1124.8	A		V		11/13/12	414.1	1158.9	A		V		34.1
331703111303402	D-02-08 02CBB PZ2		1573.3	PHX	ESR	11/16/92	445.1	1128.2	A		V		11/13/12	408.9	1164.4	A		V		36.2
331703111303403	D-02-08 02CBB PZ3		1573	PHX	ESR	06/09/93	417.3	1155.7	A		V		11/13/12	398.2	1174.8	A		V		19.1
331410111324401	D-02-08 20DDA	609158	1507	PHX	ESR	11/17/92	422.3	1084.7	A		V		11/27/12	339.5	1167.5	A		V		82.8
331329111301201	D-02-08 26CAD1 PZ1		1569	PHX	ESR	06/09/93			A	O			11/15/12	346.2	1222.8	A		V		
331329111301202	D-02-08 26CAD1 PZ2		1569	PHX	ESR	06/09/93	464.2	1104.8	A		V		11/15/12	382.6	1186.4	A		V		81.6
331329111301203	D-02-08 26CAD1 PZ3		1569	PHX	ESR	06/09/93	478	1091	A		V		11/15/12	381.9	1187.1	A		V		96.1
331550111334801	D-02-08E07DDD	619742	1480	PHX	ESR	11/16/92	358.7	1121.3	A		V		11/27/12	273.7	1206.3	A		V		85
331236111223901	D-02-09 36DBD	615235	1750	PHX	ESR	11/19/92	590.9	1159.1	A		V		11/26/12	538.1	1211.9	A		V		52.8
331532111200901	D-02-10 16BCB	610435	1884	PHX	ESR	11/17/92	346.5	1537.5	A		V		11/26/12	367.9	1516.1	A		V		-21.4
331440111192401	D-02-10 21ADB	615236	1903	PHX	ESR	11/18/92	548.5	1354.5	A		V		11/26/12	563.2	1339.8	A		V		-14.7
331640111090801	D-02-12 07ABA	624605	2440	PHX	ESR	11/18/92	22.3	2417.7	A	R	V		11/28/12	14.7	2425.3	A		V		7.6

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
331219111322901	D-03-08 04BBA	615275	1510	PHX	ESR	11/17/92	435.8	1074.2	A	K	V		11/29/12	278	1232	A		V		157.8
331037111324201	D-03-08 08DDD	615279	1491	PHX	ESR	11/17/92	447	1044	A		V		11/29/12	300.3	1190.7	A		V		146.7
330757111300001	D-03-08 35BAA	615302	1518	PHX	ESR	11/18/92	421.6	1096.4	A		V		11/29/12	290.3	1227.7	A	K	V		131.3
331042111254301	D-03-09 09DCD PZ1		1628	PHX	ESR	11/18/92	491.6	1136.4	A		V		11/29/12	417.5	1210.5	A		V		74.1
331042111254302	D-03-09 09DCD PZ2		1628	PHX	ESR	11/18/92	497.3	1130.7	A		V		11/29/12	418.6	1209.4	A		V		78.7
330916111262001	D-03-09 20DAA	610703	1595	PHX	ESR	11/18/92	468.6	1126.4	A		V		11/29/12	376.1	1218.9	A		V		92.5
330757111263401	D-03-09 32ABA		1566	PHX	ESR	11/18/92	413	1153	A		V		11/29/12	338.8	1227.2	A		V		74.2
330753111241901	D-03-09 34AAA	619399	1612	PHX	ESR	11/18/92	444.1	1167.9	A		V		11/26/12	390.3	1221.7	A		V		53.8
330617111302201	D-04-08 02CCC	610414	1532	PHX	ESR	11/18/92	240	1292	A		V		11/26/12	240.5	1291.5	A		V		-0.5
330704111262601	D-04-09 05AAB2	612176	1550	PHX	ESR	11/18/92	398.3	1151.7	A		V		11/26/12	325.3	1224.7	A		V		73
333309111362501	A-02-07 02BAA	600880	1382	PHX	FNH	11/20/92	60.6	1321.4	A		V		12/03/12	62.2	1319.8	A		V		-1.6
333639111433101	A-03-06 15ABA	604786	1674	PHX	FNH	11/20/92	349.9	1324.1	A		V		12/05/12	326.4	1347.6	A		V		23.5
333505111422101	A-03-06 23DCB2	604787	1517.8	PHX	FNH	11/20/92	184.2	1333.6	A		V		12/05/12	176.2	1341.6	A		V		8
333746111403101	A-03-07 06CDA		1415	PHX	FNH	11/20/92	26.1	1388.9	A		V		11/29/12	32.8	1382.2	A		S		-6.7
333447111402901	A-03-07 30BAD		1365	PHX	FNH	11/20/92	13.3	1351.7	A		V		11/29/12	14	1351	A		S		-0.7
334500111430501	A-05-06 27ADD	508186	1969	PHX	FNH	11/20/92	537.1	1431.9	A		V		11/28/12	186.3	1782.7	A		V		350.8
334341111461201	A-05-06 32CCC	808587	2351	PHX	FNH	11/20/92	571.8	1779.2	A	P	V		11/28/12	650.3	1700.7	A		V		-78.5
332634112470001	B-01-05 08DAB	800303	1056.8	PHX	HAS	11/18/92	94.3	962.5	A		V		12/11/12	96.3	960.5	A		V		-2
332541112454501	B-01-05 15CBB1	636568	980	PHX	HAS	11/18/92	44.7	935.3	A		V		12/04/12	44.9	935.1	A		V		-0.2
332416112454301	B-01-05 27BBC	639586	977.29	PHX	HAS	11/18/92	71.5	905.79	A		V		12/04/12	74.1	903.19	A		V		-2.6
332752112492301	B-01-06 01ABB	803547	1082	PHX	HAS	11/19/92	113.9	968.1	A		V		12/11/12	116.5	965.5	A		V		-2.6
332740112515801	B-01-06 03BBC	800798	1069	PHX	HAS	11/20/92	100.65	968.35	A		V		12/12/12	101	968	A		V		-0.35
332427112501301	B-01-06 23DCD	808647	987	PHX	HAS	11/19/92	145.1	841.9	A		V		12/12/12	153.1	833.9	A		V		-8
332858112470701	B-02-05 29DAC	804481	1127	PHX	HAS	11/18/92	142.75	984.25	A		V		12/04/12	145.7	981.3	A		V		-2.95
333237112530501	B-02-06 05DAA	629184	1201	PHX	HAS	11/20/92	346.1	854.9	A		V		01/03/13	281.4	919.6	A	R	V	WELL PUMPING IN A.M. RECHARGE FACILITY NW OF WELL SITE.	64.7
333147112530001	B-02-06 09CBB	617571	1175	PHX	HAS	11/20/92	307.7	867.3	A		V		12/04/12	245.4	929.6	A		V		62.3
333028112525101	B-02-06 21BBA	804552	1136	PHX	HAS	11/20/92	252.7	883.3	A		V		12/04/12	172.6	963.4	A		V		80.1
332817112523401	B-02-06 33CAA	617446	1075	PHX	HAS	11/20/92	205.5	869.5	A	K	V		12/12/12	93.4	981.6	A		S		112.1
332934112572801	B-02-07 27AAB	600199	1146.19	PHX	HAS	11/20/92	295.05	851.14	A		V		12/04/12	156.2	989.99	A		V		138.85
333430112435001	B-03-05 26ADD		1237	PHX	HAS	11/18/92	87.7	1149.3	A		V		12/05/12	62.1	1174.9	A		S		25.6
334112112371601	B-04-04 13CBD		1570	PHX	HAS	11/17/92	329.3	1240.7	A		V		12/11/12	331	1239	A		V		-1.7
334306112433801	B-04-05 01CBA	516563	1600.64	PHX	HAS	04/16/93	336.4	1264.24	A		V		06/28/13	332.55	1268.09	A		VT		3.85
334056112445001	B-04-05 22AAA	516565	1525	PHX	HAS	11/09/92	291.1	1233.9	A		V		12/12/12	282.4	1242.6	A		V		8.7
334513112380501	B-05-04 24CCD	802205	1720	PHX	HAS	11/16/92	422.35	1297.65	A		V		12/05/12	426.3	1293.7	A		V		-3.95
335303112391601	B-06-04 02CCC		1970	PHX	HAS	11/17/92	177.2	1792.8	A		V		03/22/13	193.9	1776.1	A	R	V	PUMP OFF 4 HOURS	-16.7
335120112372901	B-06-04 13DCD	632601	1970	PHX	HAS	11/17/92	441.8	1528.2	A		V		03/27/13	471.8	1498.2	A	R	V	RECOVERED TO 15 MIN	-30
335124113063701	B-06-08 20ADC	614493	2199	PHX	HAS	11/18/92	261.3	1937.7	A		V		11/01/12	258.9	1940.1	A		V		2.4
332236112452001	C-01-05 03BAA1		931	PHX	HAS	11/18/92	96.1	834.9	A		V		12/11/12	90.8	840.2	A		V		5.3
331751112445701	C-01-05 34ADC1	628196	778	PHX	HAS	11/18/92	17.9	760.1	A		V		12/18/12			A	Z	V	DRY - PROBE RETURNED WITH SEDIMENT IN TIP.	
332000112543801	C-01-06 19ABB	629644	890	PHX	HAS	11/19/92	202.5	687.5	A		V		12/13/12	207.9	682.1	A		V		-5.4
332053112570801	C-01-07 14BBB	604464	939	PHX	HAS	11/19/92	258.4	680.6	A		V		12/13/12	251.9	687.1	A		V		6.5
331518112454801	C-02-05 16DAA	805914	762	PHX	HAS	11/18/92	14.85	747.15	A		V		12/18/12	28.7	733.3	A		S		-13.85
334750112142901	A-05-01 10AAB	614032	1574	PHX	LKP	11/18/92	212	1362	A		V		11/30/12	203.8	1370.2	A		V		8.2
334814112094701	A-05-02 04CAB	623553	1615	PHX	LKP	11/18/92	237.2	1377.8	A		V		11/29/12	212.1	1402.9	A		V		25.1

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
334750112082001	A-05-02 10ABA	614028	1650	PHX	LKP	11/18/92	288	1362	A		V		11/29/12	277.2	1372.8	A		V		10.8
335623112063601	A-07-02 24BDA		2160	PHX	LKP	11/18/92	46.3	2113.7	A		V		11/30/12	58.7	2101.3	A		V		-12.4
331435112230201	C-02-01 20BAD		1130	PHX	WAT	11/17/92	351.6	778.4	A		V		12/06/12	335.5	794.5	A		V		16.1
331300112213201	C-02-01 33AAA	605576	1169	PHX	WAT	11/17/92	359	810	A		V		12/03/12	359.4	809.6	A		V		-0.4
331214112215501	C-02-01 33CDD	625645	1142	PHX	WAT	11/17/92	304.4	837.6	A		V		12/03/12	250.1	891.9	A		V		54.3
331637112291301	C-02-02 05CDC	800972	990	PHX	WAT	11/17/92	211.7	778.3	A		V		12/05/12	279.3	710.7	A		V		-67.6
331543112283801	C-02-02 09CCC	624775	1023	PHX	WAT	11/17/92	300.3	722.7	A		V		12/05/12	314.4	708.6	A	V	V		-14.1
331610112250201	C-02-02 12ACC	626153	1070	PHX	WAT	11/17/92	307.3	762.7	A		V		12/05/12	370.2	699.8	A		V		-62.9
331311112252901	C-02-02 25CCC	607451	1078	PHX	WAT	11/17/92	319.1	758.9	A		V		12/05/12	311.4	766.6	A		V		7.7
331307112273001	C-02-02 27CCC	803879	1135	PHX	WAT	11/17/92	389.7	745.3	A		V		12/05/12	370.3	764.7	A		V		19.4
331057112235801	C-03-01 07ACC		1153	PHX	WAT	11/16/92	325.6	827.4	A		V		12/05/12	325.2	827.8	A		V		0.4
330846112235501	C-03-01 19DCC	629000	1225	PHX	WAT	11/16/92	394.4	830.6	A		V		12/05/12	396.8	828.2	A		V		-2.4
330751112213401	C-03-01 28DDD	614966	1208	PHX	WAT	11/16/92	369.5	838.5	A		V		02/26/13	374.8	833.2	A		V		-5.3
330147112230201	C-04-01 32CDD	513868	1428	PHX	WAT	11/18/92	553.4	874.6	A		V		02/25/13	576.6	851.4	A		V		-23.2
331114112181701	D-03-01 07BBB2	615271	1272.3	PHX	WAT	11/15/92	425	847.3	A		V		12/05/12	433.2	839.1	A		V		-8.2
330700112181801	D-03-01 31CCC		1214.4	PHX	WAT	11/16/92	353.6	860.8	A		V		12/05/12	369.3	845.1	A		V		-15.7
330239112155201	D-04-01 28CDD	600522	1338	PHX	WAT	11/16/92	422.5	915.5	A		V		12/06/12	437.7	900.3	A		V		-15.2
332703112131001	A-01-01 12BBB	607206	1033.61	PHX	WSR	07/09/93	106.5	927.11	A	P	V		11/29/12	114.8	918.81	A		V		-8.3
332424112173501	A-01-01 19DCD1		965	PHX	WSR	11/19/92	27.6	937.4	A		V		12/13/12	28.9	936.1	A		V		-1.3
332702112091601	A-01-02 09AAB2	607201	1060.3	PHX	WSR	11/16/92	81.9	978.4	A		V		11/29/12	134	926.3	A		V		-52.1
332707111594101	A-01-03 01DDD	608430	1140.35	PHX	WSR	01/12/93	48.7	1091.65	A		V		01/08/13	69.5	1070.85	S		V		-20.8
332612112042401	A-01-03 08CDD	504684	1075.87	PHX	WSR	03/09/93	48.3	1027.57	A		V		11/27/12	92.6	983.27	A		V		-44.3
332600112054801	A-01-03 18BBC	607207	1058	PHX	WSR	01/11/93	48.6	1009.4	A		V		11/29/12	94.5	963.5	A		V		-45.9
332422112025001	A-01-03 28ABD	626567	1088.2	PHX	WSR	02/10/93	43.08	1045.12	A	V	V		01/08/13	86	1002.2	S		V		-42.92
332532111584001	A-01-04 18DAD		1131.22	PHX	WSR	11/18/92	29.4	1101.82	A		V		12/03/12	33.2	1098.02	A		V		-3.8
333122112140901	A-02-01 14BBA	617098	1085	PHX	WSR	12/02/92	136.3	948.7	A		V		01/07/13	165	920	S		V		-28.7
332816112172301	A-02-01 31DAA	619314	1018	PHX	WSR	11/19/92	98	920	A		V		01/03/13	124	894	S		V		-26
333048112075901	A-02-02 14CBC2	608376	1142.32	PHX	WSR	12/02/92	143.2	999.12	A		V		01/17/13	149.1	993.22	S		V		-5.9
333036112111001	A-02-02 18DDD	607674	1120.55	PHX	WSR	12/02/92	164.4	956.15	A		V		01/28/13	183.1	937.45	S		V		-18.7
333149112052901	A-02-03 07CAA		1160.4	PHX	WSR	11/16/92	106.7	1053.7	A		V		11/27/12	91	1069.4	A		V		15.7
333036112010401	A-02-03 14DCD	643681	1196	PHX	WSR	11/16/92	54.5	1141.5	A		V		11/27/12	71.6	1124.4	A		V		-17.1
332840112014301	A-02-03 35BBC	607726	1132	PHX	WSR	12/01/92	60.1	1071.9	A		V		01/22/13	80.5	1051.5	S		V		-20.4
332913111575301	A-02-04 29DAB	633954	1241	PHX	WSR	11/18/92	11.35	1229.65	A		V		12/03/12	22.4	1218.6	A		V		-11.05
333817112154801	A-03-01 04BAA2		1202	PHX	WSR	11/18/92	404.1	797.9	A		V		12/14/12	390.1	811.9	A		V		14
333648112131001	A-03-01 11DDA	607684	1191.54	PHX	WSR	12/02/92	301.5	890.04	A		V		01/15/13	304.9	886.64	S		V		-3.4
333513112161701	A-03-01 21CBB	621171	1127	PHX	WSR	11/20/92	247.9	879.1	A		V		12/05/12	269	858	A		V		-21.1
333358112134201	A-03-01 35ABB	607737	1128	PHX	WSR	12/02/92	192.9	935.1	A		V		01/17/13	223.5	904.5	S		V		-30.6
333730112110201	A-03-02 08BBA2	618731	1236	PHX	WSR	11/16/92	368.8	867.2	A		V		11/28/12	335.7	900.3	A		V		33.1
333546112083201	A-03-02 22BAA	617992	1249	PHX	WSR	11/16/92	323	926	A		V		11/28/12	293.8	955.2	A		V		29.2
333505112065401	A-03-02 24CCB	624791	1257	PHX	WSR	11/16/92	312.6	944.4	A		V		11/28/12	275.8	981.2	A	V	V		36.8
333415112100701	A-03-02 29DDA2	608402	1195	PHX	WSR	12/02/92	256.8	938.2	A	V	V		01/15/13	251.2	943.8	S		V		5.6
334205112163801	A-04-01 08DBD	629296	1310	PHX	WSR	11/18/92	350.8	959.2	A		V		12/13/12	238	1072	A		V		112.8
334052112141401	A-04-01 22AAA	804522	1280.59	PHX	WSR	11/17/92	474.5	806.09	A		V		11/28/12	460.5	820.09	A		V		14
333844112144501	A-04-01 34BDD2	622789	1214.22	PHX	WSR	11/18/92	570.8	643.42	A	P	V		10/12/12	382.92	831.3	A		VT		187.88
334230112070901	A-04-02 11ADB	614010	1430	PHX	WSR	11/18/92	360.9	1069.1	A		V		11/30/12	353.6	1076.4	A		V		7.3
332749112202101	B-01-01 02BBB	607157	994	PHX	WSR	07/06/93	113.4	880.6	A	P	V		02/06/13	108.3	885.7	A		V		5.1
332633112240801	B-01-01 07CAA2	607164	983	PHX	WSR	07/13/93	149.3	833.7	A	P	V		11/29/12	117.1	865.9	A		V		32.2
332656112184501	B-01-01 12BAA2	607580	980	PHX	WSR	11/23/92	54.3	925.7	A		V		12/13/12	76	904	A		V		-21.7
332725112294301	B-01-02 05CBB	804205	1063	PHX	WSR	11/23/92	217.5	845.5	A		V		12/12/12	202.5	860.5	A		V		15
332607112284001	B-01-02 16BBB	625579	987	PHX	WSR	11/23/92	131.6	855.4	A		V		12/12/12	133.3	853.7	A		V		-1.7

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
332515112254401	B-01-02 23AAB1	605111	943	PHX	WSR	11/23/92	61	882	A		V		12/12/12	75.5	867.5	A		V		-14.5
332348112283201	B-01-02 28CBD	619794	890	PHX	WSR	11/23/92	21.9	868.1	A		V		11/14/12	37.7	852.3	A		V		-15.8
332423112301201	B-01-02 30ABB	625903	930	PHX	WSR	11/23/92	69.4	860.6	A		V		03/27/13	73.6	856.4	A		V		-4.2
332445112362501	B-01-03 19CBB	607153	995	PHX	WSR	11/19/92	135.2	859.8	A		V		11/29/12	133.2	861.8	A		V		2
332452112335001	B-01-03 21DBB	605474	993.68	PHX	WSR	11/23/92	145.7	847.98	A		V		11/20/12	156.86	836.82	A		VT		-11.16
332330112331901	B-01-03 34BBB1	607172	917	PHX	WSR	11/23/92	67.2	849.8	A		V		11/29/12	67.5	849.5	A		V		-0.3
332416112390101	B-01-04 27ABB	604631	988	PHX	WSR	11/19/92	127.8	860.2	A		V		12/04/12	119.4	868.6	A		V		8.4
332302112423001	B-01-04 31BCD	607190	928	PHX	WSR	11/19/92	83.5	844.5	A		V		11/29/12	69.4	858.6	A		V		14.1
333052112202401	B-02-01 14CBB		1057	PHX	WSR	11/24/92	202.1	854.9	A		V		12/13/12	204.4	852.6	A		V		-2.3
333006112232601	B-02-01 20BCC	611717	1042	PHX	WSR	11/24/92	333.2	708.8	A	P	V		03/27/13	198.6	843.4	A		V		134.6
332918112193901	B-02-01 26ACA	607156	1013	PHX	WSR	07/13/93	166.6	846.4	A	P	V		11/29/12	144.4	868.6	A		V		22.2
332843112191601	B-02-01 36BBA3	608792	997	PHX	WSR	11/24/92	176.6	820.4	A	P	V		01/03/13	118.6	878.4	A		V		58
333028112270701	B-02-02 22ABB	612055	1119	PHX	WSR	11/23/92	344.1	774.9	A		V		12/13/12	284.9	834.1	A		V		59.2
333818112230401	B-03-01 05ABB	623681	1238	PHX	WSR	11/16/92	409.8	828.2	A		V		12/05/12	378.7	859.3	A		V		31.1
333723112192501	B-03-01 12BBB2	608647	1151	PHX	WSR	11/20/92	371.6	779.4	A		V		03/27/13	373.5	777.5	A		V	PVC TUBE	-1.9
333539112192301	B-03-01 24BBB3	603822	1118	PHX	WSR	11/24/92	331.3	786.7	A		V		12/13/12	338.1	779.9	A		V		-6.8
333330112205801	B-03-01 34DBB1		1100	PHX	WSR	11/24/92	320.4	779.6	A		V		12/05/12	219.2	880.8	A		V		101.2
333541112280101	B-03-02 21ABA	612994	1332	PHX	WSR	11/20/92	410.1	921.9	A		V		11/28/12	404.9	927.1	A		V		5.2
334218112222701	B-04-01 09BCD	612953	1341	PHX	WSR	11/18/92	401.3	939.7	A		V		11/28/12	363.9	977.1	A		V		37.4
334033112242801	B-04-01 19BDC	612965	1320	PHX	WSR	11/16/92	506.9	813.1	A	P	V		11/28/12	493.2	826.8	A		V		13.7
334055112202801	B-04-01 23BBB	610215	1262	PHX	WSR	11/18/92	393	869	A		V		12/14/12	371.6	890.4	A		V		21.4
334136112273901	B-04-02 16AAD	614444	1411	PHX	WSR	11/17/92	320	1091	A		V		12/13/12	334.7	1076.3	A		V		-14.7
333915112265501	B-04-02 27DCD	612957	1332	PHX	WSR	11/16/92	458.2	873.8	A		V		11/28/12	458.2	873.8	A		V		0
334314112343701	B-04-03 04BDB	804655	1595	PHX	WSR	11/17/92	359	1236	A		V		03/22/13	362.1	1232.9	A		V		-3.1
334147112320301	B-04-03 14ABA	505327	1500	PHX	WSR	11/16/92	309.1	1190.9	A		V		12/13/12	312.1	1187.9	A	R	V	PUMPED ~ 1 MIN WHILE IN WELL	-3
334028112361401	B-04-03 19DBA	621513	1607	PHX	WSR	11/16/92	382.4	1224.6	A		V		12/13/12	384.3	1222.7	A		V		-1.9
334708112295301	B-05-02 08CCB	060001	1707	PHX	WSR	11/17/92	520.7	1186.3	A		V		03/27/13	505.4	1201.6	A		V		15.3
334603112252701	B-05-02 24BAB		1580	PHX	WSR	11/16/92	504.8	1075.2	A		V		03/22/13	362.1	1217.9	A		V		142.7
334451112495601	B-05-02 30ADD		1571	PHX	WSR	11/16/92	392.8	1178.2	A		V		04/05/13	387.9	1183.1	A	R	V		4.9
334418112261701	B-05-02 35BAA	617007	1491	PHX	WSR	11/16/92	387.2	1103.8	A		V		03/13/13	262.4	1228.6	A		V		124.8
334654112330401	B-05-03 15AAA	640010	1710	PHX	WSR	11/17/92	481.4	1228.6	A		V		03/22/13	482.1	1227.9	A		V		-0.7
333038112330101	B-05-03 22ADD	087570	1649	PHX	WSR	11/17/92	423.2	1225.8	A		V		03/13/13	425.8	1223.2	A		V		-2.6
335138112302001	B-06-02 18DBB	651280	2105	PHX	WSR	11/17/92	516	1589	A		V		03/21/13	511.2	1593.8	A		V		4.8
335331112351501	B-06-03 05ADD	804224	2220	PHX	WSR	11/17/92	170.2	2049.8	A		V		03/21/13	166.7	2053.3	A	R	V		3.5
334848112342901	B-06-03 33DCB	634832	1850	PHX	WSR	11/17/92	596.3	1253.7	A		V		03/21/13	597.6	1252.4	A		V		-1.3
332102112291201	C-01-02 08CDA	614938	898.57	PHX	WSR	11/19/92	39.8	858.77	A		V		12/04/12	50.8	847.77	A		V		-11
332223112362201	C-01-03 06BCB	619815	878	PHX	WSR	11/23/92	40.7	837.3	A		V		11/13/12	40.1	837.9	A		V		0.6
332113112351301	C-01-03 08CBD		839.66	PHX	WSR	11/19/92	15.5	824.16	A		S		12/04/12	15.7	823.96	A		V		-0.2
332016112311601	C-01-03 14DAD	618942	888	PHX	WSR	11/19/92	42.2	845.8	A		V		12/04/12	48.4	839.6	A		V		-6.2
332238112385901	C-01-04 03ABB		900	PHX	WSR	11/19/92	60.8	839.2	A		V		12/04/12	55.7	844.3	A		V		5.1
332125112420301	C-01-04 07BDD	619803	867	PHX	WSR	11/19/92	44.2	822.8	A		V		11/13/12	35.1	831.9	A		V		9.1
332051112414001	C-01-04 18AAA	619827	848	PHX	WSR	04/16/93	31.3	816.7	A		V		11/13/12	21.1	826.9	A		V		10.2
331906112380001	C-01-04 26ABB	628186	823	PHX	WSR	11/19/92	22	801	A		V		12/04/12	25.3	797.7	A		V		-3.3
330204111292401	D-04-08 35DDA	621538	1420	PIN	ELO	11/18/92	88	1332	A		V		11/13/12	119.8	1300.2	A		V		-31.8
330515111245601	D-04-09 15BCA2 PZ1		1565	PIN	ELO	06/10/93	321	1244	A		V		11/15/12	316.7	1248.3	A		V		4.3
330235111252101	D-04-09 33AAD	627609	1456	PIN	ELO	11/18/92	153.9	1302.1	A		V		11/13/12	177.5	1278.5	A		V		-23.6
330522111160601	D-04-10 12DDD	621947	1553.8	PIN	ELO	11/17/92	15	1538.8	A		V		11/13/12	38.1	1515.7	A		V		-23.1
330435111212601	D-04-10 18DCD PZ1		1565	PIN	ELO	06/10/93	158.7	1406.3	A		V		11/15/12	266.2	1298.8	A		V		-107.5
330435111212602	D-04-10 18DCD PZ2		1565	PIN	ELO	06/10/93	154.1	1410.9	A		V		11/15/12	265.7	1299.3	A		V		-111.6

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 $SOURCE_2$	WY93 $REMARK_3$	WY93 $METHOD_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
330311111214201	D-04-10 30BDD	605530	1490	PIN	ELO	11/17/92	134.7	1355.3	A		V		11/16/12	176.8	1313.2	A		V		-42.1
325728111444901	D-05-06 28DBB	608103	1465	PIN	ELO	11/20/92	338.9	1126.1	A		V		10/29/12	322.7	1142.3	A		V		16.2
325711111363801	D-05-07 26CDD	622466	1401	PIN	ELO	11/18/92	117.1	1283.9	A		V		11/13/12	84.9	1316.1	A		V		32.2
325712111383001	D-05-07 28DCC2		1412	PIN	ELO	02/02/93	150.1	1261.9	A		V		11/13/12	118.2	1293.8	A		V		31.9
325618111380801	D-05-07 33DDD	609618	1402	PIN	ELO	11/18/92	142.9	1259.1	A		V		11/13/12	104.5	1297.5	A		V		38.4
325618111370501	D-05-07 34DDD	604184	1406	PIN	ELO	11/18/92	126.8	1279.2	A		V		11/13/12	91.3	1314.7	A		V		35.5
325908111355701	D-05-07W13CAD		1386	PIN	ELO	11/19/92	91.5	1294.5	A		V		11/13/12	73.5	1312.5	A		V		18
330146111292301	D-05-08 02AAA	621952	1419	PIN	ELO	11/18/92	76	1343	A		V		11/13/12	116.2	1302.8	A		V		-40.2
330008111332601	D-05-08 17BBB2	621935	1409	PIN	ELO	11/18/92	97.7	1311.3	A		V		11/13/12	113.1	1295.9	A		V		-15.4
325640111334501	D-05-08 31DCC2	622429	1415	PIN	ELO	11/18/92	104.5	1310.5	A		V		11/13/12	73.6	1341.4	A		V		30.9
325940111241001	D-05-09 14CBB	800875	1530	PIN	ELO	11/17/92	227.4	1302.6	A		V		11/13/12	245.5	1284.5	A		V		-18.1
325945111275101	D-05-09 18BDD1	601792	1464	PIN	ELO	11/18/92	129.8	1334.2	A		V		11/13/12	154.3	1309.7	A		V		-24.5
325944111275001	D-05-09 18BDD2	601789	1464	PIN	ELO	11/18/92	153.2	1310.8	A		V		11/13/12	176.1	1287.9	A		V		-22.9
325807111261601	D-05-09 29ADA	635611	1520	PIN	ELO	11/17/92	176.2	1343.8	A		V		11/13/12	168.4	1351.6	A		V		7.8
325707111271801	D-05-09 31ADD	621904	1505	PIN	ELO	11/18/92	177.5	1327.5	A		V		11/13/12	148.2	1356.8	A		V		29.3
325340111411801	D-06-06 14DDD2	621201	1415	PIN	ELO	11/20/92	281.2	1133.8	A		V		10/29/12	297.9	1117.1	A		V		-16.7
325201111430301	D-06-06 22CCD	503113	1410	PIN	ELO	11/20/92	228	1182	A		V		10/31/12	287	1123	A		V		-59
325316111412701	D-06-06 23ADC	621197	1417	PIN	ELO	11/20/92	271.7	1145.3	A		V		10/29/12	301.8	1115.2	A		V		-30.1
325112111401701	D-06-06 36DDA	605666	1443	PIN	ELO	11/20/92	128.8	1314.2	A		V		10/29/12	137.6	1305.4	A		S		-8.8
325432111350401	D-06-07 11DDD2		1431	PIN	ELO	11/19/92	126.3	1304.7	A		V		11/21/12	83.6	1347.4	A		V		42.7
325142111370501	D-06-07 34BBC	604669	1461	PIN	ELO	11/23/92	229.8	1231.2	A		V		11/21/12	126.9	1334.1	A		V		102.9
325503111284801	D-06-08 11ADA1	617559	1473	PIN	ELO	11/19/92	93.8	1379.2	A		V		11/14/12	64.1	1408.9	A		V		29.7
325342111294701	D-06-08 14CCC	625234	1456	PIN	ELO	11/20/92	100.8	1355.2	A		V		11/14/12	191.8	1264.2	A	P	V		-91
325339111333001	D-06-08 18CDD2	605546	1451	PIN	ELO	11/19/92	123.8	1327.2	A		V		11/15/12	98.4	1352.6	A		V		25.4
325220111302201	D-06-08 27BDD2	625232	1470	PIN	ELO	11/20/92	115.9	1354.1	A		V		11/14/12	120.1	1349.9	A		V		-4.2
325102111332901	D-06-08 31CDD	612214	1485	PIN	ELO	11/20/92	161.9	1323.1	A		V		11/21/12	140.1	1344.9	A		V		21.8
325531111285301	D-06-08S02DAD	617777	1472	PIN	ELO	11/19/92	125.9	1346.1	A		V		11/14/12			A	M	V	WELL HAS BEEN SEALED WITH CONCRETE	
325554111305201	D-06-08S04ADD1	605731	1432	PIN	ELO	11/19/92	84.6	1347.4	A		V		11/21/12	48.8	1383.2	A		V		35.8
325243111263901	D-06-09 29BBA3 PZ1		1542	PIN	ELO	05/26/93	223.8	1318.2	A		V		11/15/12	250.6	1291.4	A		V		-26.8
325243111264001	D-06-09 29BBA4		1542	PIN	ELO	05/26/93	255.2	1286.8	A		V		11/15/12	296.6	1245.4	A		V		-41.4
325634111264801	D-06-09N06DAA	604213	1522	PIN	ELO	11/20/92	208.8	1313.2	A		V		11/14/12	246.2	1275.8	A	K	V		-37.4
325047111462501	D-07-05 01ADA		1402	PIN	ELO	11/20/92	34.1	1367.9	A		V		10/29/12	53	1349	A		S		-18.9
325012111434801	D-07-06 04DCC		1430	PIN	ELO	11/23/92	71.2	1358.8	A		V		11/13/12	95.8	1334.2	A		V		-24.6
324825111442301	D-07-06 17DDD2		1440	PIN	ELO	11/23/92	115.8	1324.2	A		V		11/13/12	120.8	1319.2	A		V		-5
324626111425001	D-07-06 34BAD	604516	1470.28	PIN	ELO	08/16/93	415	1055.28	A		V		01/18/13	411.35	1058.93	A		VT		3.65
324550111424901	D-07-06 34CDD2	604518	1475	PIN	ELO	11/23/92	329	1146	A		V		11/13/12	387.1	1087.9	A		V		-58.1
324616111414301	D-07-06 35ACC	604510	1482	PIN	ELO	11/23/92	443	1039	A		V		11/13/12	421.3	1060.7	A		V		21.7
324917111353601	D-07-07 11CDD		1494	PIN	ELO	11/20/92	200.6	1293.4	A		V		11/14/12	171.7	1322.3	A		V		28.9
324757111350501	D-07-07 23ADD		1513	PIN	ELO	11/20/92	221.8	1291.2	A		V		11/14/12	191.3	1321.7	A		V		30.5
324640111401001	D-07-07 30CCC		1496	PIN	ELO	11/23/92	189.6	1306.4	A		V		11/14/12	172.3	1323.7	A		V		17.3
324558111391301	D-07-07 31DDA	608916	1509	PIN	ELO	11/23/92	466.2	1042.8	A		V		11/14/12	459.9	1049.1	A		V		6.3
324548111363901	D-07-07 34CDD2		1529	PIN	ELO	11/23/92	256.1	1272.9	A		V		11/14/12	223.3	1305.7	A		V		32.8
325011111322501	D-07-08 05DCC	800830	1501	PIN	ELO	11/20/92	170	1331	A		V		11/15/12	143.6	1357.4	A		V		26.4
324920111305701	D-07-08 09DDD	621868	1515	PIN	ELO	11/20/92	177.5	1337.5	A		V		11/15/12	150.7	1364.3	A		V		26.8
324827111323001	D-07-08 17CDD	621861	1520	PIN	ELO	11/20/92	207.5	1312.5	A		V		11/15/12	175.8	1344.2	A		V		31.7
324548111305601	D-07-08 33DDD		1564	PIN	ELO	11/20/92	259.5	1304.5	A		V		11/15/12	211.2	1352.8	A		V		48.3
324917111254701	D-07-09 08DDD PZ1	505967	1550	PIN	ELO	05/26/93	218.3	1331.7	A		V		11/15/12	208.6	1341.4	A		V		9.7
325007111244801	D-07-09 10BBB PZ1		1596	PIN	ELO	05/26/93	311.3	1284.7	A		V		11/15/12	322.7	1273.3	A		V		-11.4

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
325007111244802	D-07-09 10BBB PZ2		1596	PIN	ELO	05/26/93	272.6	1323.4	A		V		11/15/12	268.3	1327.7	A		V		4.3
324707111241901	D-07-09 27BDA PZ1		1660	PIN	ELO	05/26/93	385.1	1274.9	A		V		11/15/12	372.7	1287.3	A		V		12.4
324707111241902	D-07-09 27BDA PZ2		1660	PIN	ELO	05/26/93	350.2	1309.8	A		V		11/15/12	343.5	1316.5	A		V		6.7
324428111422701	D-08-06 10ADC	610572	1492	PIN	ELO	11/19/92	463.9	1028.1	A		V		04/25/13	451	1041	A		V	PUMP OFF FOR ONE WEEK. CAIDD ID#C.81-2	12.9
324216111421901	D-08-06 22DDD2		1518	PIN	ELO	11/19/92	175	1343	A		V		11/29/12	147.7	1370.3	A		V		27.3
324102111452801	D-08-06 31ADD	615508	1509	PIN	ELO	11/19/92	216.1	1292.9	A		V		04/25/13	217	1292	A		V		-0.9
324035111412301	D-08-06 35DDD2		1542	PIN	ELO	11/19/92	167.2	1374.8	A		V		11/29/12	122.8	1419.2	A		V		44.4
324320111350801	D-08-07 14DDA		1565	PIN	ELO	11/20/92	322.2	1242.8	A		V		11/28/12	339.1	1225.9	A		V		-16.9
324458111275001	D-08-08 01DDD	615519	1599	PIN	ELO	11/23/92	336.1	1262.9	A		V		11/28/12	428.6	1170.4	A		V		-92.5
324405111330101	D-08-08 07DDD1		1575	PIN	ELO	11/20/92	234.5	1340.5	A		V		11/28/12	212.4	1362.6	A		V		22.1
324405111302501	D-08-08 10CDD	618245	1587	PIN	ELO	11/23/92	318.9	1268.1	A		V		11/28/12	276.8	1310.2	A		V		42.1
324314111285501	D-08-08 14DDD	622438	1611	PIN	ELO	11/23/92	356.2	1254.8	A		V		11/28/12	281.7	1329.3	A		V		74.5
324312111333001	D-08-08 18CDD1	606865	1583	PIN	ELO	11/20/92	290.3	1292.7	A		V		11/28/12	230.8	1352.2	A		V		59.5
324154111325601	D-08-08 29BCC	618528	1607	PIN	ELO	11/20/92	369.6	1237.4	A		V		11/27/12	352.8	1254.2	A		V		16.8
324155111325501	D-08-08 29BCD	618535	1607	PIN	ELO	11/20/92	274.6	1332.4	A		V		11/27/12	236.9	1370.1	A		V		37.7
324523111260701	D-08-09 05ACD PZ1		1648	PIN	ELO	05/27/93	401.3	1246.7	A		V		11/15/12	401.9	1246.1	A		V		-0.6
324523111260702	D-08-09 05ACD PZ2		1648	PIN	ELO	05/27/93	402.5	1245.5	A		V		11/15/12	403.9	1244.1	A		V		-1.4
324432111265201	D-08-09 07ADD	622278	1635	PIN	ELO	11/23/92	399.8	1235.2	A		V		11/28/12	400.9	1234.1	A	V	V		-1.1
323727111361001	D-09-07 22DAA	615577	1614	PIN	ELO	11/19/92	246.1	1367.9	A		V		11/27/12	190.9	1423.1	A		V		55.2
323611111343401	D-09-07 25CDD	618276	1646	PIN	ELO	11/19/92	361.9	1284.1	A		V		11/26/12	303.8	1342.2	A	K	V		58.1
323611111340901	D-09-07 25DDA2	618267	1652	PIN	ELO	11/23/92	452.2	1199.8	A		V		11/27/12	430.4	1221.6	A		V		21.8
323943111330801	D-09-08 06DDD	604061	1630	PIN	ELO	11/20/92	327.5	1302.5	A		V		11/27/12	264.7	1365.3	A		V		62.8
323635111330001	D-09-08 29BCC	615602	1663.71	PIN	ELO	02/10/93	388.4	1275.31	A		V		01/18/13	334.77	1328.94	A		VT		53.63
323541111330501	D-09-08 31DAA	615607	1666	PIN	ELO	11/23/92	442.9	1223.1	A		V		11/27/12	360.3	1305.7	A		V		82.6
323545111285802	D-09-08 35ADD2	615616	1713	PIN	ELO	11/23/92	439.2	1273.8	A		V		11/27/12	369.3	1343.7	A		V		69.9
323354111422501	D-10-06 11DDD2	620687	1590	PIN	ELO	11/19/92	352.6	1237.4	A		V		11/26/12	339.8	1250.2	A		V		12.8
323442111392101	D-10-07 08AAA	608906	1593	PIN	ELO	11/19/92	509.6	1083.4	A		V		11/27/12	473.2	1119.8	A	K	V		36.4
323414111235001	D-10-09 10AAD1	620611	1800	PIN	ELO	11/29/92	290.2	1509.8	A		V		01/09/13	249	1551	A		V		41.2
323321111271001	D-10-09 18AAC2	622069	1764	PIN	ELO	11/29/92	311.9	1452.1	A		V		01/09/13	277.5	1486.5	A		V		34.4
323233111245601	D-10-09 21AAD	622057	1797	PIN	ELO	11/29/92	264.3	1532.7	A		V		01/09/13	195.6	1601.4	A		V		68.7
330435112085801	D-04-02 15CBC	612602	1227	PIN	MST	11/19/92	350.1	876.9	A		V		11/27/12	347.6	879.4	A		V		2.5
330355112073001	D-04-02 23ACC2		1187	PIN	MST	11/19/92	207.4	979.6	A		V		11/27/12	306.5	880.5	A	K	V	METER JUMPING	-99.1
330424111594601	D-04-03 13DDD	621408	1177	PIN	MST	11/19/92	179.9	997.1	A		V		11/27/12	137.8	1039.2	A	V	V		42.1
330332112041401	D-04-03 20DCD		1165	PIN	MST	11/19/92	138.9	1026.1	A		V		11/27/12	64.9	1100.1	A		V		74
330330111581201	D-04-04 20CDD	605948	1193	PIN	MST	11/19/92	133.3	1059.7	A		V		11/27/12	92.2	1100.8	A		V		41.1
330147111584401	D-04-04 31DDD	605234	1210	PIN	MST	11/20/92	167.4	1042.6	A		V		11/27/12	103.9	1106.1	A	V	V		63.5
330148111572101	D-04-04 33CDC	610515	1217	PIN	MST	11/20/92	324.8	892.2	A		V		11/27/12	233.9	983.1	A		V		90.9
325901112100401	D-05-02 21BBB	605935	1339	PIN	MST	11/18/92	361.3	977.7	A		V		11/28/12	297.3	1041.7	A		V		64
325833112080401	D-05-02 22DAD	605938	1322	PIN	MST	11/20/92	596.3	725.7	A		V		11/28/12	492.5	829.5	A		V		103.8
325656112064801	D-05-02 36BAD	615354	1316	PIN	MST	02/10/93	649	667	A		V		01/18/13	505	811	A		VT		144
330053112024801	D-05-03 03CCC	612713	1195	PIN	MST	11/23/92	222.2	972.8	A		V		11/28/12			A	W	Z	UTM AREA BULLDOZED, PUMP BASE GONE.	
325746111595201	D-05-03 25ADD		1240	PIN	MST	11/20/92	197.6	1042.4	A		V		11/28/12	117.7	1122.3	A		V		79.9
330008111584501	D-05-04 07DDA	623829	1227	PIN	MST	11/20/92	177	1050	A		V		11/28/12	110.2	1116.8	A		V		66.8
325840111551501	D-05-04 23BDD2	623811	1275	PIN	MST	11/20/92	533.7	741.3	A		V		11/28/12	417.2	857.8	A		V		116.5
335737111573201	D-05-04 28BCD1	612522	1250	PIN	MST	11/20/92	183.8	1066.2	A		V		11/28/12	133.5	1116.5	A		V		50.3
325622111544201	D-05-04 35DDD	606188	1283	PIN	MST	05/04/93	675.2	607.8	A	P	V		11/28/12	470.4	812.6	A	S	V		204.8

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
325639111522101	D-05-05 32CAB	806657	1332	PIN	MST	11/20/92	351.3	980.7	A		V		11/20/12	376.6	955.4	A		V		-25.3
325542112053301	D-06-02E01CDD2		1318	PIN	MST	11/19/92	649.9	668.1	A		V		11/01/12	554.7	763.3	A		V		95.2
325433112002001	D-06-03 11CDD1		1275	PIN	MST	11/19/92	220.3	1054.7	A		V		11/20/12	130.4	1144.6	A		V		89.9
325406112014201	D-06-03 15BDC	625533	1290	PIN	MST	11/19/92	628.2	661.8	A		V		11/01/12	499.8	790.2	A		V		128.4
325156112015101	D-06-03 27CCC	615407	1365	PIN	MST	11/19/92	717.6	647.4	A		V		11/01/12	664.8	700.2	A		V		52.8
325526111595401	D-06-03S02DDD2	620591	1267	PIN	MST	11/19/92	233.5	1033.5	A		V		11/20/12	156.7	1110.3	A		S		76.8
325102111523901	D-06-04 36DDD	629477	1347	PIN	MST	11/19/92	483	864	A		V		10/29/12	465	882	A		V		18
325525111541401	D-06-04S02CDD	609664	1295	PIN	MST	11/19/92	561.3	733.7	A		V		11/20/12	512.4	782.6	A		V		48.9
325523111554301	D-06-04S04DDD3	087174	1286	PIN	MST	11/19/92	278	1008	A	P	V		11/20/12	230.6	1055.4	A		V		47.4
325529111571101	D-06-04S05DCC	619754	1277	PIN	MST	06/22/93	621.6	655.4	A	P	V		11/20/12	499.5	777.5	A		V		122.1
325256111514002	D-06-05 19DDA PZ2		1338	PIN	MST	11/19/92	316.5	1021.5	A		V		11/01/12	318.9	1019.1	A		S		-2.4
324750111544301	D-07-04 23DDD	624090	1360	PIN	MST	11/19/92	421.6	938.4	A		V		10/29/12	471.3	888.7	A		V		-49.7
324917111513801	D-07-05 07DDD	613932	1368	PIN	MST	11/19/92	448	920	A		V		10/29/12	436.2	931.8	A		V		11.8
333718114264701	B-03-21 08ABD	628121	558	PKB	CIB	11/18/92	311.8	246.2	A		V		11/14/12	312.5	245.5	A		V		-0.7
340836114165701	B-09-19 07BBB	601138	420	PKB	CRI	11/18/92	75.9	344.1	A		V		11/01/12	77.4	342.6	A		V		-1.5
333125114065901	B-02-18 09DDC		1495	PKB	LPC	11/18/92	59.9	1435.1	A		V		11/14/12	65.7	1429.3	A		S		-5.8
333445114144601	B-03-19 29BAB	607066	1008	PKB	LPC	11/18/92	123.4	884.6	A		V		11/14/12	139.3	868.7	A		V		-15.9
343847112190401	B-15-01 25CDB		4927	PRE	LIC	02/03/93	293.3	4633.7	A		V		03/13/13	305.9	4621.1	A		V		-12.6
344628112174901	B-16-01 07CDD	606296	4705	PRE	LIC	02/05/93	158.7	4546.3	A		V		03/12/13	186.8	4518.2	A		V		-28.1
344459112232601	B-16-01 20CBD1	625107	4777	PRE	LIC	02/05/93	17.7	4759.3	A		V		03/13/13	43.5	4733.5	A		V		-25.8
344358112182901	B-16-01 25DDA	625105	4961	PRE	LIC	02/03/93	410	4551	A		V		03/13/13	437.8	4523.2	A		V		-27.8
344429112222001	B-16-01 28BCA	625104	4807	PRE	LIC	02/05/93	268	4539	A		V		03/13/13	295.8	4511.2	A		V		-27.8
344738112253301	B-16-02 01CBD	611903	4590	PRE	LIC	03/03/93	57.2	4532.8	A		V		03/12/13	85.7	4504.3	A		V		-28.5
344809112275201	B-16-02 03BBB1		4539	PRE	LIC	02/04/93	51.9	4487.1	A		V		03/13/13	74.6	4464.4	A		V		-22.7
344723112265701	B-16-02 03DDC4	603665	4590	PRE	LIC	02/05/93	45	4545	A		V		03/12/13	66.6	4523.4	A		V		-21.6
344704112291601	B-16-02 08ACA		4615	PRE	LIC	02/04/93	96.3	4518.7	A		V		03/13/13	135.1	4479.9	A		V		-38.8
344653112264901	B-16-02 11CBB1	602559	4621.94	PRE	LIC	02/05/93	54.4	4567.54	A		V		09/17/13	67.08	4554.86	A		VT		-12.68
344607112294301	B-16-02 17BDC	629377	4700	PRE	LIC	02/04/93	165	4535	A		V		03/13/13	199.9	4500.1	A		V		-34.9
344534112282901	B-16-02 21BAA1	604724	4738	PRE	LIC	02/04/93	214.4	4523.6	A		V		03/13/13	249.7	4488.3	A		V		-35.3
344357112280901	B-16-02 28DDC	628072	4818.78	PRE	LIC	02/04/93	287	4531.78	A		V		01/16/13	323.75	4495.03	A		VT		-36.75
344347112271001	B-16-02 34ABA2	502645	4800	PRE	LIC	02/04/93	264.5	4535.5	A		V		03/13/13	297.6	4502.4	A		V		-33.1
344846112271401	B-17-02N34ACC	639281	4510	PRE	LIC	02/04/93	10.7	4499.3	A		V		03/12/13			A	D	V	DRY AT 18.3 FT	
344819112265601	B-17-02N34DDD3	633990	4515	PRE	LIC	02/04/93	30.8	4484.2	A		V		03/11/13	49	4466	A		V		-18.2
343157112135401	A-13-01 02CAD	638550	4603	PRE	UAG	03/04/93	83.4	4519.6	A		V		03/11/13	83	4520	A		V		0.4
343529112162201	A-14-01 17AAD	613025	4779.25	PRE	UAG	02/03/93	113.6	4665.65	A		V		01/15/13	127.5	4651.75	A		VT		-13.9
343428112123701	A-14-01 24DCB	614220	4928	PRE	UAG	02/03/93	301.5	4626.5	A		V		03/12/13	303	4625	A		V		-1.5
343353112144101	A-14-01 27ACC	613024	4660.63	PRE	UAG	02/03/93	52.2	4608.43	A		V		01/15/13	43.79	4616.84	A		VT		8.41
343415112161401	A-14-01 28BBB	613020	4714.98	PRE	UAG	03/04/93	16.7	4698.28	A		V		03/12/13	97.3	4617.68	A		V		-80.6
343906112154701	A-15-01 28ACC	614238	5067.21	PRE	UAG	02/03/93	314.9	4752.31	A		V		01/15/13	322.4	4744.81	A		VT		-7.5
343641112204203	B-14-01 10ADB1 PZ2		5015	PRE	UAG	02/04/93	329.4	4685.6	A		V		03/14/13	329.3	4685.7	A		V		0.1
343610112203201	B-14-01 10DDA	523346	5082	PRE	UAG	08/10/93	621.7	4460.3	A	P	V		03/14/13	578.5	4503.5	A		V		43.2
343628112193001	B-14-01 11DAA	612329	5043.52	PRE	UAG	02/15/93	327.25	4716.27	A		V		03/14/13	336.8	4706.72	A		V		-9.55
343601112205301	B-14-01 15ABA	613028	5117.42	PRE	UAG	02/04/93	547.2	4570.22	A		V		03/14/13	751.5	4365.92	A	K	V		-204.3
343453112203401	B-14-01 22ADA	613045	5184.1	PRE	UAG	02/04/93	327.3	4856.8	A		V		03/15/13	339.4	4844.7	A		V		-12.1
343343112183801	B-14-01 25DAC	613029	4933	PRE	UAG	03/04/93	20.2	4912.8	A		V		03/12/13	57.6	4875.4	A		V		-37.4
352729113081501	B-24-08 20AAB2	627220	5248	PSC	PSC	10/30/92	827.4	4420.6	A		V		11/16/12			A	O	V		
352904113333401	B-24-12 09AAD	607888	4302	PSC	PSC	10/27/92	220.1	4081.9	A		V		11/16/12	221.8	4080.2	A		V		-1.7
352740113355501	B-24-12 17CBC	609483	4255	PSC	PSC	10/27/92	146.6	4108.4	A		V		11/16/12	146.5	4108.5	A		V		0.1
332750113313001	B-01-12 05BCC	603147	1458	RAN	RAN	01/04/93	436.1	1021.9	A		V		11/13/12	435.8	1022.2	A		V	REMOVED GENERATOR	0.3

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
333121113413001	B-02-14 10CDC	600171	1350	RAN	RAN	11/18/92	337.1	1012.9	A		V		11/13/12	347.7	1002.3	A		V		-10.6
333737113460801	B-03-15 02DAC	601120	1210	RAN	RAN	11/18/92	201.8	1008.2	A		V		11/13/12	214.3	995.7	A		V		-12.5
333910113432801	B-04-14 32BAA	600131	1238	RAN	RAN	11/17/92	281.5	956.5	A		V		11/13/12	343.7	894.3	A		V		-62.2
334121113450101	B-04-15 13ADA	600133	1239	RAN	RAN	11/17/92	324.5	914.5	A		V		11/13/12	374.2	864.8	A		V		-49.7
334118113463501	B-04-15 14CAA	600129	1181.1	RAN	RAN	02/11/93	249.1	932	A		V		06/05/13	309.13	871.97	A		VT		-60.03
334122113510901	B-04-15 18BCC	620833	1135	RAN	RAN	11/17/92	136.4	998.6	A		V		11/13/12	145	990	A		V		-8.6
334840113514101	B-05-15 06BAA1	618772	1156	RAN	RAN	01/05/93	229.5	926.5	A		V		10/31/12	241.9	914.1	A		V		-12.4
334446113500601	B-05-15 29DAA	613116	1121	RAN	RAN	01/14/93	184.6	936.4	A		V		10/23/12			A	D	V		
334357113473201	B-05-15 35BDD2	801955	1208	RAN	RAN	11/17/92	291.1	916.9	A		V		10/23/12	341.1	866.9	A		V		-50
334722113562001	B-05-16 09BCC	600166	1083	RAN	RAN	11/17/92	140.7	942.3	A		V		10/31/12	143.4	939.6	A		V		-2.7
334422113524001	B-05-16 25DCC	614479	1123	RAN	RAN	11/17/92	151.9	971.1	A		V		10/23/12	165.4	957.6	A		V		-13.5
335024113485701	B-06-15 27BBA	614505	1341	RAN	RAN	11/17/92	430.4	910.6	A		V		10/31/12	438.1	902.9	A		V		-7.7
335257113520601	B-06-16 12AAA	613120	1207	RAN	RAN	11/17/92	285.1	921.9	A		V		10/31/12	286.7	920.3	A		V		-1.6
335054113564301	B-06-16 20ACD	505096	1055	RAN	RAN	11/17/92	115.5	939.5	A		V		10/31/12	122.2	932.8	A		V		-6.7
335102113541301	B-06-16 22ADA	613119	1121	RAN	RAN	11/17/92	184.3	936.7	A		V		10/31/12	192.7	928.3	A		V		-8.4
335235113585701	B-06-17 12DBB3	502760	1005	RAN	RAN	11/17/92	83	922	A		V		10/31/12	85.2	919.8	A		V		-2.2
335556114000101	B-07-17 23CAC2	645951	960	RAN	RAN	01/04/93	71.4	888.6	A		V		04/01/13	70	890	A	R	V		1.4
342753113511901	B-13-15 17CAC2		2080	SAC	SAC	10/26/92	667.1	1412.9	A		V		10/24/12	666.4	1413.6	A		V		0.7
343923113583301	B-15-16 07BDD	611808	2341	SAC	SAC	10/26/92	935.2	1405.8	A		V		10/24/12	934.2	1406.8	A		V		1
343940114170301	B-15-19 07AAB	629451	1472	SAC	SAC	10/29/92	485.1	986.9	A		V		10/25/12	483.1	988.9	A		V		2
344408114260401	B-16-20H11CCD	611577	690	SAC	SAC	10/29/92	216.9	473.1	A		V		10/23/12	227.1	462.9	A	R	V		-10.2
345801114082801	B-18-18 01DCD		2181	SAC	SAC	10/26/92	531.7	1649.3	A		V		10/23/12	526.2	1654.8	A		V		5.5
350633114103701	B-20-18 22AAC		2495.57	SAC	SAC	01/11/93	744.55	1751.02	A		V		01/24/13	745.96	1749.61	A		VT		-1.41
351123114032201	B-21-17 24CBC	612663	3330	SAC	SAC	10/27/92	134	3196	A		V		10/24/12	140.3	3189.7	A		V		-6.3
350937114044201	B-21-17 34DDB2	646882	3050	SAC	SAC	10/28/92	58	2992	A		V		10/23/12	59	2991	A		V		-1
351340114125401	B-21-18 09BBA	610757	2832	SAC	SAC	10/27/92	1058.3	1773.7	A		V		10/23/12	1042	1790	A		V		16.3
332507110425001	A-01-16 19BAD	623061	3730	SAF	GSK	01/28/93	763.4	2966.6	A	P	V		11/02/12	724.3	3005.7	A		V		39.1
330240110031101	D-04-22 35ADA	611941	2857.54	SAF	SAF	01/28/93	8	2849.54	A		V		10/29/12	25.6	2831.94	A		V		-17.6
330135109583801	D-05-23 03CAB1	624721	2790	SAF	SAF	01/25/93	64.8	2725.2	A		V		10/29/12	75.8	2714.2	A		V		-11
325742109560901	D-05-23 25DCD		2778	SAF	SAF	01/25/93	49.2	2728.8	A		V		10/29/12	54.1	2723.9	A		V		-4.9
325822109503601	D-05-24 25BBC	637301	3065	SAF	SAF	01/27/93	158.1	2906.9	A		V		11/01/12	160.4	2904.6	A		V		-2.3
325045109384101	D-07-26 01CCD		3135	SAF	SAF	01/28/93	103	3032	A		V		11/01/12	90.2	3044.8	A		V		12.8
324908109433001	D-07-26 18CDA1	611966	2961.14	SAF	SAF	01/28/93	58.2	2902.94	A		V		10/30/12	59.1	2902.04	A		V		-0.9
324855109403301	D-07-26 22BAB	622921	2951.16	SAF	SAF	01/28/93	26.4	2924.76	A		V		11/01/12	46.5	2904.66	A		V		-20.1
325115109324501	D-07-27 02ADD	605867	3065	SAF	SAF	01/28/93	18.5	3046.5	A		V		11/01/12	51.6	3013.4	A		V		-33.1
324113109415401	D-08-26 33CDC1		3341.21	SAF	SAF	01/27/93	32.5	3308.71	A		V		02/05/13	44.75	3296.46	A		VT		-12.25
324303109283601	D-08-28 22CCB	615569	3340	SAF	SAF	01/26/93	69.7	3270.3	A		V		10/29/12	87.5	3252.5	A		V		-17.8
323240109384601	D-10-26 25CBA	644135	4089	SAF	SAF	01/27/93	638.9	3450.1	A		V		10/30/12	636.7	3452.3	A		V		2.2
315836109011501	27S 21W 07 232A		4019	SAF	SSI	01/26/93	108.8	3910.2	A		V		11/07/12	132.3	3886.7	A		V		-23.5
315846109011601	27S 21W S06 443		4001	SAF	SSI	01/26/93	115.6	3885.4	A	P	V		11/07/12	125.4	3875.6	A	P	V		-9.8
314935109015901	28S 21W 31 133		4137	SAF	SSI	01/26/93	114.25	4022.75	A		V		11/07/12	109.3	4027.7	A		V		4.95
314750109024501	29S 22W 11 243A		4164	SAF	SSI	01/26/93	139.96	4024.04	A		S		11/07/12	138.4	4025.6	A		V		1.56
322110109362701	D-12-27 32AAB1		3979	SAF	SSI	01/27/93	131.34	3847.66	A		S		11/06/12	131.8	3847.2	A		V		-0.46
322334109285801	D-12-28 15BCB	625831	3684	SAF	SSI	01/27/93	314.5	3369.5	A		V		11/06/12	358.5	3325.5	A		V		-44
322301109300901	D-12-28 17DDD	609816	3724	SAF	SSI	01/27/93	267.1	3456.9	A		V		11/06/12			A	O	V	OBST @ 262.4FT	
321812109264401	D-13-28 13BCD	610898	3732.16	SAF	SSI	08/18/93	98.3	3633.86	A		V		10/09/12	111.59	3620.57	A		VT		-13.29
321721109286001	D-13-28 22BCC	618342	3838	SAF	SSI	01/27/93	496.5	3341.5	A		V		11/06/12	542	3296	A		V		-45.5
321648109202001	D-13-29 24DCC2	621310	3655	SAF	SSI	01/27/93	108.5	3546.5	A		V		11/06/12	166.6	3488.4	A		V		-58.1
321637109235401	D-13-29 28BBB		3738	SAF	SSI	01/27/93	146.45	3591.55	A		S		11/06/12	167.4	3570.6	A		V		-20.95
321830109165001	D-13-30 15BBB	622807	3569	SAF	SSI	01/27/93	62	3507	A		V		11/06/12	62.9	3506.1	A		V		-0.9

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
321648109142301	D-13-30 24CCD1	624464	3598	SAF	SSI	01/27/93	62.95	3535.05	A		V		11/08/12			A	Z	V	WELL FULL OF BEE'S	
321607109114101	D-13-31 29DDA	805565	3620	SAF	SSI	01/27/93	51.9	3568.1	A		V		11/06/12	47.7	3572.3	A		V		4.2
321355109120501	D-14-31 08ABC1		3632	SAF	SSI	01/27/93	58.2	3573.8	A		V		11/08/12	57	3575	A		V		1.2
321210109132001	D-14-31 19BAC	615982	3713	SAF	SSI	01/27/93	64.55	3648.45	A		S		11/08/12	81	3632	A		V		-16.45
321200109094501	D-14-31 22ADC	612633	3693	SAF	SSI	01/27/93	96	3597	A	K	V		11/08/12			A	P	V		
321016109095601	D-14-31 34ACC		3774	SAF	SSI	01/26/93	142.2	3631.8	A		V		11/08/12	247.8	3526.2	A	S	V		-105.6
321016109094501	D-14-31 35BCC		3772	SAF	SSI	01/26/93	155.5	3616.5	A		V		11/08/12			A	P	V		
320805109085001	D-15-31 11DCC	605286	3904	SAF	SSI	01/26/93	192.4	3711.6	A		V		11/08/12	265.2	3638.8	A		V		-72.8
320051109050601	D-16-32 21CCB		4088	SAF	SSI	01/26/93	188.4	3899.6	A		V		11/07/12	211.7	3876.3	A		V		-23.3
315901109062301	D-17-32N06AAB	621601	4215	SAF	SSI	01/26/93	307.8	3907.2	A		V		11/07/12	323.8	3891.2	A	P	V		-16
315012109030401	D-18-32 26BBC		4125	SAF	SSI	01/26/93	104.65	4020.35	A		S		11/07/12	99.9	4025.1	A		V		4.75
314854109025601	D-18-32 35CBA		4153	SAF	SSI	01/26/93	124.1	4028.9	A		V		11/07/12	120.8	4032.2	A		V		3.3
314238109050701	D-20-32 09BBB	602723	4297	SAF	SSI	02/18/93	190.7	4106.3	A		V		11/07/12	194.5	4102.5	A		V		-3.8
312006109180601	D-24-30 16CCC	616444	3796	SBV	SBV	01/28/93	28.7	3767.3	A		V		11/07/12	30.7	3765.3	A		V		-2
314024111125301	D-20-11 21DAA		3449	SCA	SCA	12/02/92	46.9	3402.1	A		V		01/07/13	64.9	3384.1	A		S		-18
314332111064001	D-20-12 03BBB	612066	3175	SCA	SCA	12/02/92	168.3	3006.7	A		V		08/13/13	215.1	2959.9	A		S		-46.8
314303111032801	D-20-13 06CBA	627932	3064	SCA	SCA	12/02/92	30.9	3033.1	A		V		01/09/13	57.7	3006.3	A		S		-26.8
313506111030701	D-21-13 19DBC	617995	3240	SCA	SCA	12/02/92	20.7	3219.3	A		V		01/08/13	25.7	3214.3	A		S		-5
312316110574801	D-23-13 36ADB	603432	3675	SCA	SCA	12/02/92	123.3	3551.7	A		V		01/08/13	126.3	3548.7	A		S		-3
312017110573001	D-24-14 18CBC	603434	3960	SCA	SCA	12/02/92	203.4	3756.6	A		V		01/08/13	203.6	3756.4	A		V		-0.2
312147110482801	D-24-15 04DDD1UNSURV	625340	4018	SCA	SCA	12/02/92	96.6	3921.4	A		V		01/09/13	84.6	3933.4	A		V		12
312123110484201	D-24-15 04DDD2UNSURV	625346	4018	SCA	SCA	12/02/92	539.8	3478.2	A	R	V		01/09/13	275.6	3742.4	A		V		264.2
340642110554801	A-09-14 20ACA	644398	5165	SRB	USR	10/26/92	15.3	5149.7	A		V		10/22/12	21.1	5143.9	A		V		-5.8
312941110341601	D-22-17 25BDA2	630082	5085	SRF	SRF	01/06/93	28.5	5056.5	A		V		01/09/13	30.7	5054.3	A		V		-2.2
312848110384801	D-22-17 31ADA	611862	5145	SRF	SRF	01/06/93	119.8	5025.2	A	P	V		01/09/13	127.4	5017.6	A		S		-7.6
312207110400301	D-24-16 12BAB UNSURV	640950	4998	SRF	SRF	01/07/93	188.7	4809.3	A		V		01/09/13	214.2	4783.8	A		V		-25.5
312109110352501	D-24-17 14BAB		4645	SRF	SRF	01/07/93	6.9	4638.1	A		V		01/09/13	6.27	4638.73	A		S		0.63
334545113142001	B-05-09 19BDD	612691	1996	TIG	TIG	11/18/92	28.1	1967.9	A		V		11/01/12			A	Z	V	BEE'S AT MP	
334830113102401	B-05-09S02BBD	612682	2168	TIG	TIG	11/18/92	222.2	1945.8	A		V		11/01/12	217.8	1950.2	A		V		4.4
334653111154101	A-05-11 18AAA	600998	2145	TON	TON	10/27/92	6.46	2138.54	A		S		10/25/12	6.2	2138.8	A		S		0.26
335205111180601	A-06-10 14ABC2		2316	TON	TON	10/27/92	12.8	2303.2	A		V		10/25/12	15.9	2300.1	A		S		-3.1
335322111150701	A-06-11 05CAD	601024	2720	TON	TON	10/27/92	49.6	2670.4	A		V		10/25/12	70.2	2649.8	A		S		-20.6
340932111204001	A-09-10 05AAA		4200	TON	TON	10/27/92	85.2	4114.8	A		V		10/25/12	99.4	4100.6	A		VT		-14.2
340654111211201	A-09-10 20BAA	601014	3190	TON	TON	10/27/92	62.4	3127.6	A		V		10/25/12	69.7	3120.3	A		S		-7.3
340458111211801	A-09-10 32BDB	601022	3030	TON	TON	10/27/92	35.4	2994.6	A		V		10/25/12	39.2	2990.8	A		S		-3.8
341408111212001	A-10-10 05CCA	620875	4820	TON	TON	10/29/92	23.3	4796.7	A		V		08/20/13	34.2	4785.8	A		V		-10.9
341336111174801	A-10-10 11ACB	509660	4821.29	TON	TON	02/17/93	3.5	4817.79	A		V		01/30/13	5	4816.29	A		VT		-1.5
341447111182501	A-11-10 35CCC	631835	5060	TON	TON	08/19/93	91.6	4968.4	A		V		11/07/12	122.9	4937.1	A		V		-31.3
324919110585701	D-07-13 15CAC1		3600	TUC	AVR	12/01/92	20.53	3579.47	A		S		01/08/13	27.3	3572.7	A		V		-6.77
324157111153101	D-08-11 31BBB	607144	2105	TUC	AVR	12/01/92	446.8	1658.2	A		V		01/08/13	452.1	1652.9	A		V		-5.3
324304111082101	D-08-12 19DDA	804174	2732	TUC	AVR	12/01/92	12.01	2719.99	A		S		01/08/13	14.7	2717.3	A		V		-2.69
324007111224501	D-09-09 01BCC PZ1	504989	1858	TUC	AVR	05/27/93	294.3	1563.7	A		V		11/15/12	291.6	1566.4	A		V		2.7
323759111201201	D-09-10 17CDD PZ1	504992	1854	TUC	AVR	05/27/93	278.3	1575.7	A		V		11/15/12	250.2	1603.8	A		V		28.1
323759111201202	D-09-10 17CDD PZ2	504992	1854	TUC	AVR	05/27/93	248.1	1605.9	A		V		11/15/12	222	1632	A		V		26.1
323753111204601	D-09-10 19AAA	804195	1840	TUC	AVR	11/29/92	203.7	1636.3	A		V		01/07/13	178.9	1661.1	A		V		24.8
323730111204501	D-09-10 19ADD	615627	1836	TUC	AVR	11/29/92	236.2	1599.8	A		V		01/07/13	200.6	1635.4	A		V		35.6
323623111201201	D-09-10 29CDA PZ1	504993	1850	TUC	AVR	05/27/93	295.5	1554.5	A		V		11/15/12	250.2	1599.8	A		V		45.3
323623111201202	D-09-10 29CDA PZ2	504993	1850	TUC	AVR	05/27/93	232.3	1617.7	A		V		11/15/12	200.1	1649.9	A		V		32.2
323759111011501	D-09-13 20DBD	615648	3360	TUC	AVR	12/01/92	308.6	3051.4	A		V		01/08/13	306.1	3053.9	A		V		2.5
323438111194501	D-10-10 05DAD	624751	1855	TUC	AVR	11/29/92	231.5	1623.5	A		V		01/09/13	201	1654	A		V		30.5

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE$_2$	WY93 REMARK$_3$	WY93 METHOD$_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
323152111200401	D-10-10 20DCC	618728	1862	TUC	AVR	11/29/92	207.3	1654.7	A		V		01/09/13	173.9	1688.1	A		V		33.4
323338111141501	D-10-11 17CAB2	638306	2140	TUC	AVR	11/29/92	466.9	1673.1	A		V		01/09/13	436.2	1703.8	A		V		30.7
323307111151901	D-10-11 19BDB PZ1	504994	2043	TUC	AVR	05/28/93	382	1661	A		V		11/15/12	349.5	1693.5	A		V		32.5
323307111151902	D-10-11 19BDB PZ2	504994	2043	TUC	AVR	05/28/93	382.9	1660.1	A		V		11/15/12	348.5	1694.5	A		V		34.4
322732111181701	D-11-10 22ADD1	626687	1914	TUC	AVR	12/02/92	228.3	1685.7	A		V		01/07/13	158.5	1755.5	A		V		69.8
322621111161301	D-11-10 25DDA2	615764	1953	TUC	AVR	12/02/92	241.7	1711.3	A		V		01/07/13	170.3	1782.7	A	V	V	BLACK CRUDE	71.4
322636111181401	D-11-10 27DAA		1935	TUC	AVR	12/02/92	247.99	1687.01	A		V		01/07/13	179.2	1755.8	A		V		68.79
322924111131801	D-11-11 09ACD PZ1	504996	2043	TUC	AVR	05/28/93	362.5	1680.5	A		V		11/15/12	317.1	1725.9	A		V		45.4
322924111131802	D-11-11 09ACD PZ2	504996	2043	TUC	AVR	05/28/93	349.9	1693.1	A		V		11/15/12	299.3	1743.7	A		V		50.6
322923111112101	D-11-11 11DCD	600235	2148	TUC	AVR	11/29/92	451.5	1696.5	A		V		01/09/13	407.9	1740.1	A		V		43.6
322805111133101	D-11-11 16CDD2	604802	1968	TUC	AVR	12/02/92	272.2	1695.8	A		V		01/07/13	195.7	1772.3	A		V		76.5
322554111115801	D-11-11 34ADD2	604805	2008	TUC	AVR	12/02/92	282.6	1725.4	A		V		01/07/13	209.5	1798.5	A		V		73.1
322219111172801	D-12-10 23DAB	621364	2025.8	TUC	AVR	12/11/92	231.9	1793.9	A		V		01/07/13	250.8	1775	A		V		-18.9
322444111095401	D-12-11 01DDA PZ1	508652	2041	TUC	AVR	06/07/93	226.4	1814.6	A		V		11/15/12	207.1	1833.9	A		V		19.3
322444111095402	D-12-11 01DDA PZ2	508652	2041	TUC	AVR	06/07/93	97.1	1943.9	A		V		11/15/12	85.9	1955.1	A		V		11.2
322245111140401	D-12-11 20AAA	504485	2019	TUC	AVR	12/04/92	297	1722	A		V		01/07/13	217.2	1801.8	A		V		79.8
321728111193401	D-13-10 16DCD	615881	2136	TUC	AVR	12/11/92	405.4	1730.6	A		V		01/07/13			A	D	V	PROBE RETURNED TO SURFACE PLUGGED WITH SEDIMENT	
321851111112601	D-13-11 11ACC2		2393	TUC	AVR	12/11/92	217	2176	A		V		01/07/13	200.5	2192.5	A		V		16.5
321806111150401	D-13-11 17BCB PZ1	508422	2144	TUC	AVR	06/08/93	359.5	1784.5	A		V		11/15/12	338.5	1805.5	A		V		21
321806111150402	D-13-11 17BCB PZ2	508422	2144	TUC	AVR	06/08/93	362.8	1781.2	A		V		11/15/12	340.1	1803.9	A		V		22.7
321256111162901	D-14-10 12BAC	633627	2240	TUC	AVR	12/11/92	394.1	1845.9	A		V		01/07/13	392	1848	A		V		2.1
321220111111201	D-14-11 14DDB PZ1	509590	2374	TUC	AVR	06/08/93	442.7	1931.3	A		V		11/15/12	397.9	1976.1	A		V		44.8
321220111111202	D-14-11 14DDB PZ2	509590	2374	TUC	AVR	06/08/93	443.9	1930.1	A		V		11/15/12	397.1	1976.9	A		V		46.8
320434111200701	D-15-10 33CBC2	603530	2540	TUC	AVR	12/03/92	160.2	2379.8	A		V		01/08/13	155.8	2384.2	A		V		4.4
320511111171201	D-15-10 35AAA	612020	2529.6	TUC	AVR	12/03/92	221.1	2308.5	A		V		01/08/13	219.8	2309.8	A		V		1.3
320850111145901	D-15-11 05CCD	610699	2368	TUC	AVR	12/03/92	360	2008	A		V		01/08/13	326.9	2041.1	A		V	RECHARGE EFFECTS	33.1
320007111183601	D-16-10 34BAA	621997	3096	TUC	AVR	12/03/92	602.1	2493.9	A		V		01/08/13	601.2	2494.8	A		V		0.9
315825111230601	D-17-09 02DDA	612492	2744	TUC	AVR	12/03/92	184.1	2559.9	A		V		01/08/13	183.6	2560.4	A		V		0.5
315257111234501	D-18-09 11BAC	624829	2915	TUC	AVR	12/03/92	246	2669	A		V		01/08/13	246.4	2668.6	A		V		-0.4
315241111240301	D-18-09 11BCC	624828	2923	TUC	AVR	12/03/92	243.6	2679.4	A		V		01/08/13	243.3	2679.7	A	R	V	TURNED OFF FOR MSMT	0.3
314830111243101	D-19-09 03ACA	634260	3054	TUC	AVR	12/03/92	322.95	2731.05	A		V		01/08/13	321.2	2732.8	A		V		1.75
313850111295701	D-20-08 35BDB	630265	3463	TUC	AVR	12/03/92	457.25	3005.75	A		V		01/08/13	462.4	3000.6	A		V	UNKNOWN LAST PUMP CYCLE	-5.15
314135111263101	D-20-09 17ABA	630266	3254	TUC	AVR	12/03/92	297.7	2956.3	A		V		01/08/13	304.6	2949.4	A		V		-6.9
312946111334501	D-22-08 19DBC	630269	3610	TUC	AVR	12/03/92	78.44	3531.56	A		S		01/08/13	89.8	3520.2	A		V		-11.36
312827111303301	D-22-08 34ABD	630270	3450	TUC	AVR	12/03/92	192.35	3257.65	A		V		01/08/13	199	3251	A		V		-6.65
323942111030201	D-09-13 07CBC		3115	TUC	USC	12/01/92	53	3062	A		S		01/08/13	182.6	2932.4	A	R	V		-129.6
323418110565401	D-10-13 12DDA	615717	3418	TUC	USC	12/01/92	447.7	2970.3	A		V		01/08/13	453.4	2964.6	A		V		-5.7
323139110550801	D-10-14 29DCA	615723	3273	TUC	USC	12/04/92	305.5	2967.5	A		V		01/08/13	330.4	2942.6	A		V		-24.9
323029110553401	D-11-14 04BBC2	807195	3158	TUC	USC	12/01/92	225.4	2932.6	A		V		01/08/13	245.8	2912.2	A		V		-20.4
322227111055901	D-12-12 22ADC		2139	TUC	USC	11/30/92	114.5	2024.5	A		V		01/07/13	167.7	1971.3	A		V		-53.2
321830110583201	D-13-13 13BBA	631710	2395	TUC	USC	11/30/92	232.9	2162.1	A	R	V		01/07/13	255.9	2139.1	A		V		-23
321638110591001	D-13-13 26BAD2	626047	2321.22	TUC	USC	12/01/92	180.8	2140.42	A		V		01/08/13	195.1	2126.12	A		V		-14.3
321647110532201	D-13-14 26BBB	620156	2464	TUC	USC	11/11/92	70.1	2393.9	A		V		01/10/13	74.8	2389.2	A		V		-4.7
321614110533001	D-13-14 26CBB2	519320	2409	TUC	USC	11/10/92	32.75	2376.25	A		V		01/10/13	80.6	2328.4	A		V		-47.85
321558110531901	D-13-14 26CCD1	610544	2418	TUC	USC	11/10/92	69.9	2348.1	A		V		01/10/13	118.3	2299.7	A		V		-48.4

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 $SOURCE_2$	WY93 $REMARK_3$	WY93 $METHOD_4$	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
321612110524001	D-13-14 26DAC1		2429	TUC	USC	11/30/92	20.9	2408.1	A		V		01/09/13	25.5	2403.5	A		V		-4.6
321612110523701	D-13-14 26DAC2	611990	2430	TUC	USC	01/25/93	10.5	2419.5	A		V		01/10/13	26.7	2403.3	A		V		-16.2
321604110525601	D-13-14 26DCB2	519317	2423	TUC	USC	08/17/93	31.25	2391.75	A		V		01/10/13	103.4	2319.6	A		V		-72.15
321558110523901	D-13-14 26DDC	801050	2425	TUC	USC	01/25/93	16.8	2408.2	A		V		01/10/13	71.2	2353.8	A		V		-54.4
321555110534501	D-13-14 27DDC3	802445	2412	TUC	USC	11/10/92	128.3	2283.7	A		V		01/10/13	164.2	2247.8	A	P	V		-35.9
321546110533701	D-13-14 34AAD		2421	TUC	USC	02/16/93	138.9	2282.1	A		V		01/10/13	165.6	2255.4	A		V		-26.7
321514110531701	D-13-14 35CCA	620140	2454	TUC	USC	03/12/93	233.35	2220.65	A		V		01/10/13	233.5	2220.5	A		V		-0.15
321229110553201	D-14-14 16CCC PZ1		2480	TUC	USC	11/30/92	230.4	2249.6	A		V		01/09/13	246	2234	A		V		-15.6
321229110553202	D-14-14 16CCC PZ2		2480	TUC	USC	11/30/92	235.7	2244.3	A		V		01/09/13	245.9	2234.1	A		V		-10.2
321229110553203	D-14-14 16CCC PZ3		2480	TUC	USC	11/30/92	234.6	2245.4	A		V		01/09/13			A	D	V		
321229110553204	D-14-14 16CCC PZ4		2480	TUC	USC	11/30/92	235.3	2244.7	A		V		01/09/13	249.6	2230.4	A		V		-14.3
321033110523601	D-14-14 35AAA	621581	2643	TUC	USC	12/01/92	306.1	2336.9	A		V		01/09/13			A	O	V		
321140110451501	D-14-16 19CCB	808558	2962	TUC	USC	11/30/92	252	2710	A		V		01/08/13	248.3	2713.7	A		V		3.7
320910110533001	D-15-14 03DAD	611361	2653.23	TUC	USC	11/30/92	390.2	2263.03	A		V		01/08/13	392.3	2260.93	A		V		-2.1
320916110570701	D-15-14 06CAA	616564	2524	TUC	USC	11/30/92	114.3	2409.7	A	P	V		01/10/13	102.8	2421.2	A		V		11.5
320904110570401	D-15-14 06DCB2	616565	2528	TUC	USC	11/30/92	229.6	2298.4	A		V		01/10/13	236.9	2291.1	A		V		-7.3
320516110542301	D-15-14 34BBC	616008	2690	TUC	USC	12/01/92	246.3	2443.7	A	P	V		01/17/13	188.1	2501.9	A		V		58.2
320941110512201	D-15-15 06BBB	621584	2715	TUC	USC	12/01/92	340.4	2374.6	A		V		01/09/13	368.7	2346.3	A		V		-28.3
320732110492201	D-15-15 16CBB PZ1		2842	TUC	USC	11/30/92	300.39	2541.61	A		V		01/09/13	342.7	2499.3	A		V		-42.31
320732110492202	D-15-15 16CBB PZ2		2842	TUC	USC	11/30/92	306.55	2535.45	A		V		01/09/13	343.35	2498.65	A		V		-36.8
320732110492203	D-15-15 16CBB PZ3		2842	TUC	USC	11/30/92	378.34	2463.66	A		V		01/09/13	402.34	2439.66	A		V		-24
320533110454901	D-15-15 25DBC2		3025	TUC	USC	12/01/92	412.7	2612.3	A		V		01/08/13	449.8	2575.2	A		V		-37.1
320335110572701	D-16-14S06CCD	632691	2580	TUC	USC	12/01/92	109.4	2470.6	A		V		01/10/13	52.7	2527.3	A		V		56.7
320402110502802	D-16-15 05CBC PZ2		2867	TUC	USC	12/01/92	293.17	2573.83	A		V		01/08/13	330.07	2536.93	A		V		-36.9
320402110502803	D-16-15 05CBC PZ3		2867	TUC	USC	12/01/92	271.55	2595.45	A		V		03/08/13	306.35	2560.65	A		V		-34.8
320253110423701	D-16-16 09DCD2	504558	3235	TUC	USC	12/01/92	554.7	2680.3	A		V		01/08/13	587.3	2647.7	A		V		-32.6
315840110463701	D-17-15 02DCD		3194	TUC	USC	12/01/92	554.9	2639.1	A		V		01/08/13	557.3	2636.7	A		V		-2.4
314827111015801	D-19-13 05ACA2		3080	TUC	USC	12/02/92	238.3	2841.7	A	P	V		01/10/13	283.2	2796.8	A	R	V		-44.9
314728111011101	D-19-13 09CAA		2955	TUC	USC	12/02/92	71.2	2883.8	A		V		01/10/13	143.8	2811.2	A		V		-72.6
335754112430301	B-07-04 07BCC	628115	2030	UHA	UHA	10/26/92	13.3	2016.7	A		V		10/25/12	8.9	2021.1	A		V		4.4
335828112453801	B-07-05 03DCB1	605607	2160	UHA	UHA	10/26/92	142.7	2017.3	A	P	V		10/25/12	131.7	2028.3	A	S	V		11
340258112452001	B-08-05 10DAA	801840	2580	UHA	UHA	10/26/92	419.9	2160.1	A		V		10/25/12	421.9	2158.1	A		V		-2
340440112443601	B-09-05 35DBB		2640	UHA	UHA	10/26/92	403.1	2236.9	A		V		10/25/12	404.3	2235.7	A		V		-1.2
340908112533801	B-09-06 05ADD	614605	2955.88	UHA	UHA	10/26/92	821.8	2134.08	A		V		10/25/12	814.6	2141.28	A		V		7.2
320113110174901	D-16-20 27BBB	613532	3505	USP	SEV	01/26/93	59.4	3445.6	A		V		12/08/12			A	Z	Z	UTM - MEAN DOGS, CANNOT GAIN ACCESS TO SITE	
320005110170901	D-16-20 34ACB	611018	3533	USP	SEV	01/26/93	75.3	3457.7	A		V		12/07/12	80.1	3452.9	A	S	S		-4.8
315734110221301	D-17-19 14ACA		4180	USP	SEV	02/23/93	537.9	3642.1	A		V		12/06/12	556.3	3623.7	A		V		-18.4
315356110203001	D-18-20 06BDD	623648	4440	USP	SEV	01/25/93	250.4	4189.6	A		V		11/14/12	271	4169	A		V		-20.6
315335110090101	D-18-21 01DCA	626893	4160	USP	SEV	01/26/93	364.9	3795.1	A		V		12/07/12	338.3	3821.7	A		V		26.6
315417110140001	D-18-21 06AAB2	607856	3622	USP	SEV	01/25/93	25.2	3596.8	A		V		12/07/12	39.3	3582.7	A		V		-14.1
315019110115001	D-18-21 28DAA	612550	3745	USP	SEV	01/26/93	79.2	3665.8	A		V		12/06/12	80.7	3664.3	A	P	V		-1.5
314927110010301	D-18-23 32DBB		4840	USP	SEV	01/26/93	604.3	4235.7	A		V		12/06/12	611.7	4228.3	A	S	V		-7.4
314738110090601	D-19-21 12DBB2	616255	4045	USP	SEV	01/26/93	217.4	3827.6	A		V		12/06/12	220.3	3824.7	A		V	(D-19-21) 12DBB1 OFF FOR LAST SIX DAYS - NO PUMPING	-2.9
314417109575101	D-19-23 35ACD	616270	4880	USP	SEV	01/26/93	296.7	4583.3	A	P	V		11/14/12	292.4	4587.6	A		V		4.3
314323110293901	D-20-18 03CAA	642963	4895	USP	SEV	01/05/93	134	4761	A		V		01/09/13	140.1	4754.9	A		V		-6.1

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
314300110155401	D-20-20 02DDD	616332	4183	USP	SEV	01/25/93	96.7	4086.3	A		V		11/14/12	102.2	4080.8	A		V		-5.5
314239110035301	D-20-22 11ADB	616498	4550	USP	SEV	01/26/93	404.7	4145.3	A		V		11/14/12	421.7	4128.3	A		V		-17
313556110334801	D-21-17 24AAB	648467	4965	USP	SEV	01/05/93	14.3	4950.7	A		V		01/09/13	23.7	4941.3	A		S		-9.4
313559110283601	D-21-18 24BBB	628318	4827	USP	SEV	01/05/93	122	4705	A		V		01/09/13	126.7	4700.3	A		V		-4.7
313639110183501	D-21-20 16AAC1		4429.82	USP	SEV	02/11/93	287.6	4142.22	A		V		02/07/13	299.16	4130.66	A		VT		-11.56
313425110115401	D-21-21 27CAA	805650	4250	USP	SEV	01/25/93	81.2	4168.8	A		V		11/15/12	68.7	4181.3	A		V		12.5
313347110150701	D-21-21 31BDC	610123	4440	USP	SEV	01/25/93	294.8	4145.2	A		V		11/15/12	309.2	4130.8	A		V		-14.4
313808110083801	D-21-22 06ACD2		4130	USP	SEV	01/25/93	27.5	4102.5	A		V		11/15/12	29.5	4100.5	A		V		-2
313104110302901	D-22-18 15CBD	640945	5130	USP	SEV	01/05/93	35.9	5094.1	A		V		01/09/13	42.4	5087.6	A		V		-6.5
313317110165201	D-22-20 10ABB	610130	4677	USP	SEV	01/25/93	545.6	4131.4	A		V		11/15/12	563.5	4113.5	A		V		-17.9
313009110111101	D-22-21 23CBA	642816	4320	USP	SEV	01/08/93	124.4	4195.6	A		V		11/15/12	135.6	4184.4	A		V		-11.2
313247110060501	D-22-22 03CBA	809378	4255	USP	SEV	01/26/93	182.9	4072.1	A		V		11/15/12	183.8	4071.2	A		V		-0.9
312712110152101	D-23-21 06CCC2		4840	USP	SEV	01/25/93	5.1	4834.9	A		V		11/15/12	15.8	4824.2	A		V		-10.7
312421110041001	D-23-22 25BBC	632053	4380	USP	SEV	01/25/93	178.3	4201.7	A		V		11/16/12	179.6	4200.4	A		V		-1.3
312006110075501	D-24-22 20BBA	603543	4295	USP	SEV	01/08/93	39.2	4255.8	A		V		11/16/12	40.7	4254.3	A		V		-1.5
345301112283701	B-17-02S04DBC1		4362	VRB	BIC	10/28/92	102	4260	A	K	V		08/22/13	106.8	4255.2	A		V		-4.8
345542112312801	B-18-03 24DDA		4435	VRB	BIC	10/30/92	166.9	4268.1	A		V		08/22/13	172.3	4262.7	A		V		-5.4
350059112373101	B-19-03 19CBD	611027	4530	VRB	BIC	10/28/92	61.2	4468.8	A		V		08/22/13	56.5	4473.5	A		V		4.7
350303112395601	B-19-04 10ADA	607043	4570	VRB	BIC	10/28/92	66.8	4503.2	A		V		08/23/13	67.1	4502.9	A		V		-0.3
350302112404801	B-19-04 10BCB	607026	4529	VRB	BIC	10/29/92	22.3	4506.7	A		V		08/23/13	23	4506	A		V		-0.7
350037112440301	B-19-05 25AAA	624141	4770	VRB	BIC	01/26/93	141.8	4628.2	A		V		02/26/13	134.7	4635.3	A		V		7.1
350535112432701	B-20-04 30AAD	607032	4571	VRB	BIC	10/29/92	61.7	4509.3	A		V		02/28/13	51.9	4519.1	A		V		9.8
351552112572901	B-22-07W25ADD	608304	5076	VRB	BIC	10/27/92	212.3	4863.7	A		V		02/25/13	190.8	4885.2	A		V		21.5
341436111190001	A-10-10 03BAD	512430	4985	VRB	LVR	10/30/92	186	4799	A		V		11/07/12	205.9	4779.1	A		V		-19.9
341356111191901	A-10-10 03CCD	512431	4917.63	VRB	LVR	08/19/93	79.2	4838.43	A		V		01/30/13	115.26	4802.37	A		VT		-36.06
341418111194901	A-10-10 04DBA		4960	VRB	LVR	10/29/92	164.3	4795.7	A		V		02/27/13	202.9	4757.1	A		V		-38.6
341338111194401	A-10-10 09ADB	631255	4970	VRB	LVR	10/29/92	23.7	4946.3	A		V		11/07/12	91.6	4878.4	A		V		-67.9
341547111192501	A-11-10 27CCB		5000	VRB	LVR	10/29/92	116.1	4883.9	A		V		08/21/13	191.1	4808.9	A		V		-75
341504111214601	A-11-10 31DAC1	620879	5060	VRB	LVR	10/29/92	154.6	4905.4	A		V		08/20/13	309.1	4750.9	A		V		-154.5
341518111205401	A-11-10 32ACD	650931	5140	VRB	LVR	02/17/93	240.9	4899.1	A		V		02/27/13	299.9	4840.1	A		V		-59
342344111280701	A-12-08 26DAB1	635775	5645	VRB	LVR	10/28/92	119.5	5525.5	A	P	V		11/07/12	94.8	5550.2	A		V		24.7
342406111293901	A-12-08 27BAD	515206	5960	VRB	LVR	02/17/93	214.1	5745.9	A		V		08/22/13	351.1	5608.9	A		V		-137
343833111490101	A-14-05 04AAA	806134	3480	VRB	VER	10/28/92	333.3	3146.7	A		V		03/11/13	319	3161	A		V		14.3
343638111501301	A-14-05E17AAC	629124	3190	VRB	VER	10/28/92	57.2	3132.8	A	P	V		03/11/13	45.1	3144.9	A		S		12.1
343314111183801	A-14-10 32DBD	611623	6855	VRB	VER	10/27/92	333.7	6521.3	A	R	V		05/07/13	344.9	6510.1	A	R	V		-11.2
344250111583401	A-15-03 12ADB1	630899	3265	VRB	VER	10/28/92	39.5	3225.5	A		V		03/12/13	47.4	3217.6	A		S		-7.9
344312111540801	A-15-04 02CCB4		3420	VRB	VER	10/28/92	90.75	3329.25	A		V		03/12/13	107.75	3312.25	A		S		-17
344307111552701	A-15-04 04DDC1		3355	VRB	VER	10/28/92	54.8	3300.2	A		V		03/12/13	60.4	3294.6	A		S		-5.6
343924111454901	A-15-05 25DDD	514006	3580	VRB	VER	10/28/92	112.1	3467.9	A		V		03/11/13	176.8	3403.2	A		VT		-64.7
344556112040501	A-16-03 19DBD	525162	3660	VRB	VER	10/28/92	224.7	3435.3	A		V		03/12/13	276.5	3383.5	A		S		-51.8
344632111541701	A-16-04 15DDC2	509984	3620	VRB	VER	10/28/92	75	3545	A		V		03/13/13	80.3	3539.7	A		S	NEW OWNERS. OK TO MEASURE	-5.3
344957111463102	A-17-06E30BBB		4300	VRB	VER	10/26/92	440.3	3859.7	A		V		03/13/13	457.1	3842.9	A		V		-16.8
345619111385501	A-18-07 15CCB2	630882	6450	VRB	VER	10/26/92	74.1	6375.9	A		V		03/13/13	64.5	6385.5	A	X	V	NEARBY SURFACE FLOW	9.6
351409111500302	A-21-05 02ABC3	627254	7131	VRB	VER	10/29/92	26.8	7104.2	A		V		05/09/13	27.75	7103.25	A		S	WELL SHUT OFF LAST TWO MONTHS	-0.95
322840109543901	D-11-24 17DAA	622902	4472	WIL	WIL	02/17/93	373.6	4098.4	A		V		11/07/12	428.8	4043.2	A		V	BEE'S	-55.2
322718109554101	D-11-24 30AAA	604191	4369	WIL	WIL	01/25/93	268.2	4100.8	A		V		11/07/12	327.1	4041.9	A		V		-58.9
322234109553001	D-12-24 20CBB	626856	4246	WIL	WIL	01/25/93	142	4104	A		V		11/08/12	205.8	4040.2	A		S		-63.8

Appendix 2. Groundwater level change in Arizona – Water Years 1993 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 1993	WL 1993 [ft]	WL 1993 ELEVATION [ft]	WY93 SOURCE[2]	WY93 REMARK[3]	WY93 METHOD[4]	WY93 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY93 - WY13 [ft]
322008109523401	D-13-24 03ADA		4219	WIL	WIL	01/25/93	102.9	4116.1	A		V		11/05/12	145.7	4073.3	A		S		-42.8
321941109553101	D-13-24 05CCB2	619477	4221	WIL	WIL	01/25/93	115.3	4105.7	A		V		11/05/12	165.3	4055.7	A		V		-50
321834109543001	D-13-24 16BBB	805474	4212	WIL	WIL	01/25/93	104.4	4107.6	A		V		11/05/12	145.3	4066.7	A		S		-40.9
321414109573001	D-14-23 12BBB2	608286	4357	WIL	WIL	01/26/93	260.8	4096.2	A		V		11/05/12	286.1	4070.9	A		V		-25.3
321323109521701	D-14-24 14BBA2	635009	4170	WIL	WIL	01/25/93	30.3	4139.7	A		V		11/05/12	36.3	4133.7	A		V		-6
321303109435201	D-14-26 18CAA1		4245	WIL	WIL	01/26/93	199.6	4045.4	A		V		11/07/12	260.7	3984.3	A		V		-61.1
320830109550901	D-15-24 08CDA	629684	4171	WIL	WIL	01/26/93	57.5	4113.5	A		V		11/05/12	73.8	4097.2	A		V		-16.3
320614109442401	D-15-25 25AAD	604416	4220	WIL	WIL	01/26/93	186.2	4033.8	A		V		11/06/12	329.4	3890.6	A		V		-143.2
320633109393901	D-15-26 23DCC2	611586	4460	WIL	WIL	01/26/93	326.4	4133.6	A		V		11/07/12	347	4113	A		V		-20.6
320119109545001	D-16-24 21CCC	606236	4273	WIL	WIL	01/26/93	173.9	4099.1	A		V		11/05/12	262.9	4010.1	A		V		-89
320237109475101	D-16-25 16ADD2	512259	4187	WIL	WIL	01/26/93	54.3	4132.7	A		V		11/06/12	89	4098	A		S		-34.7
320022109444601	D-16-25 36AAA	609186	4243	WIL	WIL	01/26/93	210.3	4032.7	A		V		11/06/12	331	3912	A		V		-120.7
320435109394301	D-16-26 02ADD	609041	4391	WIL	WIL	01/27/93	277.2	4113.8	A		V		11/07/12	308.7	4082.3	A		V		-31.5
320409109424501	D-16-26 05DAD	616104	4290	WIL	WIL	01/27/93	262.1	4027.9	A		V		11/07/12	398.6	3891.4	A		V		-136.5
320403109434701	D-16-26 06DDA	612109	4257.8	WIL	WIL	01/26/93	226.9	4030.9	A		V		11/07/12	369.9	3887.9	A		V		-143
320232109394201	D-16-26 14DAA	809034	4375	WIL	WIL	01/27/93	320.8	4054.2	A		V		11/07/12	394.5	3980.5	A		V		-73.7
315816109494501	D-17-25 08BCC2		4222	WIL	WIL	01/26/93	122.1	4099.9	A		V		11/05/12	212.8	4009.2	A	K	V	SOUNDS LIKE CASCADING IN EFFECT	-90.7
315910109414501	D-17-26 04ADD1	620777	4300	WIL	WIL	02/17/93	244.3	4055.7	A		V		11/06/12	288.3	4011.7	A		V		-44
315858109323201	D-17-27 01DAD	616193	4621	WIL	WIL	01/27/93	285.6	4335.4	A		V		11/06/12	276.8	4344.2	A		V		8.8
315602109360701	D-17-27 28BAA	627815	4427	WIL	WIL	02/17/93	221	4206	A		V		11/06/12	278	4149	A		V		-57
315421109380401	D-17-27 31CDD2	618485	4366	WIL	WIL	01/27/93	186.6	4179.4	A		V		11/06/12	284.2	4081.8	A		V		-97.6
315318109372101	D-18-27 08BAC	648836	4395	WIL	WIL	01/27/93	201	4194	A		V		11/06/12	263.2	4131.8	A		V		-62.2
324330114252601	C-08-21 21BCA	612897	170	YUM	YUM	11/09/92	23.2	146.8	A		V		11/14/12	25.1	144.9	A		S		-1.9
324212114274801	C-08-22 25DAC3		155	YUM	YUM	11/03/92	11.2	143.8	A		V		11/14/12	19.1	135.9	A		S		-7.9
323840114320101	C-09-22 17DCA		208	YUM	YUM	11/12/92	55.6	152.4	A		V		11/14/12	69	139	A		S		-13.4
322737114415301	C-11-24 23BCB		160	YUM	YUM	11/05/92	105.7	54.3	A		V		11/14/12	120.3	39.7	A		S		-14.6

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.
2. A = A.D.W.R, B = U.S.B.R, O = Owner, S = Reporting Agency, U = USGS
3. D = Dry, K = Cascading water, M = Well plugged, O = Obstruction, P = Pumping, R = Recently pumped, S = Nearby pumping, V = Foreign material (oil), W = Well destroyed, X = Surface water effects, Z = Other
4. A = Airline, F = Automated device, S = Steel tape, V = A.D.W.R calibrated electric sounder or non A.D.W.R electric tape, VT = A.D.W.R calibrated electric tape, Z = Other (explained in comments)

Appendix 3

Groundwater level change in Arizona – Water Years 2003 to 2013.

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
340421112075801	A-09-02 34DDD	649365	2020	AGF	AGF	10/21/02	48.59	1971.41	A		V		10/22/12	46.4	1973.6	A		V		2.19
341118112075801	A-09H02 23CCC	635573	3395.32	AGF	AGF	10/21/02	453.8	2941.52	A		V		10/01/12	448.8	2946.52	A		VT		5
342042112094501	A-11-02 09CCB	610557	3925	AGF	AGF	10/21/02	39.3	3885.7	A		V		10/22/12	65.1	3859.9	A		V		-25.8
341959112071601	A-11-02 14CAA	628102	3805	AGF	AGF	10/21/02	71	3734	A		V		10/22/12	73.9	3731.1	A	R	V		-2.9
342353112134501	A-12-01 26BAB1	802822	4375	AGF	AGF	10/18/02	11.3	4363.7	A		V		10/22/12	22.3	4352.7	A		V		-11
342655112054501	A-12-02 01DAC	646578	4070	AGF	AGF	11/15/02	122.5	3947.5	A		V		10/24/12	121.3	3948.7	A		V		1.2
342450112071801	A-12-02 23BAA	614181	3870	AGF	AGF	10/21/02	39.5	3830.5	A		V		10/24/12	38.3	3831.7	A		V		1.2
324902110184901	D-07-20 21BDB	613297	3515	ARA	ARA	02/25/03	60.5	3454.5	A		V		10/30/12	66	3449	A		V		-5.5
324413109135501	D-08-21 18DAA		3864	ARA	ARA	02/25/03	35.79	3828.21	A	R	V		10/30/12	37.1	3826.9	A		V		-1.31
323753110080601	D-09-22 19DCC	627711	4280	ARA	ARA	02/25/03	121.4	4158.6	A		V		10/30/12	135.3	4144.7	A		V		-13.9
351153113214301	B-21-10 17CCD1		5058	BIS	FTR	10/25/02	128.1	4929.9	A		V		10/22/12	123.6	4934.4	A		V		4.5
344220113364901	B-16-13 21DDD2	642249	2040	BIS	WIK	10/21/02	101.3	1938.7	A		V		10/22/12	97.8	1942.2	A		V		3.5
344040113351001	B-16-13 36CCC		1880	BIS	WIK	10/21/02	14.8	1865.2	A		V		10/22/12	14.7	1865.3	A		V		0.1
345332113390001	B-18-13 34CCD	614838	2479	BIS	WIK	10/21/02	64.2	2414.8	A	P	V		10/22/12	45.3	2433.7	A		V		18.9
351119113370801	B-21-13 24BCD	614875	3620	BIS	WIK	10/22/02	373.8	3246.2	A		V		11/13/12	372.5	3247.5	A		V		1.3
352135113423001	B-23-13 19DCB		3628	BIS	WIK	11/12/02	102.3	3525.7	A		V		11/13/12	105.82	3522.18	A		S		-3.52
352010113411501	B-23-13 32ACA	614897	3768	BIS	WIK	10/22/02	258.3	3509.7	A		V		11/13/12	263	3505	A		V		-4.7
335823113471501	B-07-15 02DDC	614536	1423	BUT	BUT	10/29/02	175.69	1247.31	A		V		11/02/12	200.3	1222.7	A	S	V		-24.61
335733113470301	B-07-15 11DDD	614539	1442	BUT	BUT	10/29/02	199.8	1242.2	A		V		04/01/13	220.9	1221.1	A		V		-21.1
335718113480401	B-07-15 15AAD2	509587	1405	BUT	BUT	08/14/03	166.6	1238.4	A		V		11/02/12	197.1	1207.9	A		V		-30.5
335635113493001	B-07-15 16DCC		1346	BUT	BUT	10/29/02	97.19	1248.81	A		V		11/01/12	107	1239	A		V		-9.81
335620113494501	B-07-15 21BCA	516935	1330	BUT	BUT	10/29/02	84.9	1245.1	A		V		11/01/12	94	1236	A		V		-9.1
340333113363701	B-08-13 04DDD1	614575	1790	BUT	BUT	10/30/02	513.5	1276.5	A		V		11/02/12	514.2	1275.8	A		V		-0.7
340122113440301	B-08-14 20DAB	633680	1522	BUT	BUT	10/29/02	250.3	1271.7	A		V		11/02/12	255.7	1266.3	A		V		-5.4
340058113404701	B-08-14 23DDD	614576	1618	BUT	BUT	10/29/02	348.2	1269.8	A		V		11/02/12	351.3	1266.7	A		V		-3.1
340004113443601	B-08-14 29CDD	807275	1487	BUT	BUT	10/29/02	214.89	1272.11	A		V		11/02/12	221.2	1265.8	A		V		-6.31
340852113122501	B-09-09 04CBC	600587	2360	BWM	ALR	10/30/02	642.2	1717.8	A		V		02/01/13	636.1	1723.9	A		V		6.1
341508113203801	B-11-10 31CBA		2160	BWM	ALR	10/30/02	640.5	1519.5	A		V		11/03/12	639.9	1520.1	A		V		0.6
341531113265801	B-11-11 31BBB1	614664	1350	BWM	ALR	10/30/02	51.79	1298.21	A		V		11/03/12	51.1	1298.9	A		V		0.69
342836113391301	B-13-13 07DDB2	644225	1770	BWM	ALR	10/23/02	138.7	1631.3	A		V		10/24/12	137.3	1632.7	A		V		1.4
341624113562401	B-11-16 29AAA	619426	695	BWM	CLA	10/30/02	101.8	593.2	A		V		11/01/12	98.3	596.7	A		V		3.5
341454113565501	B-11-16 32CDA	619413	615	BWM	CLA	10/30/02	22.2	592.8	A	R	V		11/01/12	20.5	594.5	A		V		1.7
342442112444401	B-12-05 02ACD2		3830	BWM	SKU	03/27/03	31.9	3798.1	A		V		03/26/13	35.4	3794.6	A		V		-3.5
342709112404501	B-13-04 21DB UNSPZ1	613853	4260	BWM	SKU	10/22/02	105.4	4154.6	A		V		05/06/13	105.7	4154.3	A		V		-0.3
342709112404502	B-13-04 21DB UNSPZ2	613853	4260	BWM	SKU	10/22/02	110.6	4149.4	A		V		05/06/13	111.7	4148.3	A		V		-1.1
342626112391401	B-13-04 26BCC1UNSURV	613867	4380	BWM	SKU	10/22/02	241.4	4138.6	A		V		05/07/13	244.7	4135.3	A		V		-3.3
342639112394201	B-13-04 27AB UNSPZ1	613860	4360	BWM	SKU	10/22/02	219.6	4140.4	A		V		05/06/13	207	4153	A		V		12.6
342639112394202	B-13-04 27AB UNSPZ2	613860	4360	BWM	SKU	10/22/02	253.1	4106.9	A		V		05/06/13	248.5	4111.5	A		V		4.6
342621112402301	B-13-04 28DA UNSURV	613852	4205	BWM	SKU	10/22/02	79.2	4125.8	A		V		05/06/13	81.8	4123.2	A	P	V		-2.6
344248112400801	B-14-04 22BAD	614731	4540	BWM	SKU	10/22/02	90.8	4449.2	A		V		04/09/13	91.4	4448.6	A		V		-0.6
341648112555201	B-11-06 19CBD	621558	3258	BWM	SMR	10/24/02	43.9	3214.1	A		V		10/25/12	43.8	3214.2	A		V		0.1
341707113063901	B-11-08 20ADB	614653	2610	BWM	SMR	10/21/02	74.9	2535.1	A		V		10/23/12	75.5	2534.5	A		V		-0.6
342044112554101	B-12-06W31AAD	613951	3470	BWM	SMR	10/24/02	91.9	3378.1	A		V		03/26/13	96.6	3373.4	A	V	S		-4.7
342828112531801	B-13-06 09DCD	625722	3500	BWM	SMR	10/24/02	21.43	3478.57	A		S		03/26/13	17.9	3482.1	A		V		3.53
342801113134801	B-13-09 17BCC	611613	2590	BWM	SMR	10/21/02	49.7	2540.3	A		V		10/22/12	51.2	2538.8	A		V		-1.5
315816110310601	D-17-18 09BCC	601585	3843	CCK	CCK	11/05/02	100.3	3742.7	A		V		01/08/13	102.5	3740.5	A		V		-2.2
314926110373501	D-18-17 32DBA	634321	4520	CCK	CCK	11/05/02	110.9	4409.1	A		V		01/10/13	115.2	4404.8	A		V		-4.3
314916110340401	D-18-17 36CBC	634356	4442	CCK	CCK	11/05/02	129.94	4312.06	A		S		01/10/13	136.8	4305.2	A	P	V		-6.86
314718110413801	D-19-16 15ABA	646557	4900	CCK	CCK	11/05/02	203.1	4696.9	A		V		01/08/13	204.7	4695.3	A		V		-1.6
314041110392001	D-20-16 24DAD2	623562	4875	CCK	CCK	11/05/02	205.5	4669.5	A		V		01/08/13	207.4	4667.6	A		V		-1.9
314150110320401	D-20-18 17BCB	618570	4802	CCK	CCK	11/05/02	171.1	4630.9	A		V		01/09/13	178.4	4623.6	A		V		-7.3
313927110310401	D-20-18 33BBB	641932	4700	CCK	CCK	11/07/02	20.81	4679.19	A		S		01/09/13	26.6	4673.4	A		S		-5.79
313748110424501	D-21-16 09ABA		4420	CCK	CCK	11/07/02	47.38	4372.62	A		S		01/08/13	47.11	4372.89	A		S		0.27
313225110453301	D-22-15 12AAD2		4034	CCK	CCK	11/07/02	18.59	4015.41	A		S		01/08/13	21.9	4012.1	A		V		-3.31
352823111501301	A-24-05 11CDB	613870	7386	COP	COP	11/07/02	285.65	7100.35	A		S		10/25/12	269.4	7116.6	A		V		16.25
353210111462401	A-25-06 20ACC	613880	6965	COP	COP	11/07/02	91.5	6873.5	A		V		10/25/12	91.9	6873.1	A		V		-0.4

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE$_2$	WY03 REMARK$_3$	WY03 METHOD$_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
353337114235201	B-25-20 15AAA	637009	2820	DET	DET	10/22/02	597.5	2222.5	A		V		10/23/12	594.5	2225.5	A		V		3
354027114273101	B-26-20 06ACB	505703	2499.67	DET	DET	10/22/02	460	2039.67	A		V		01/23/13	461.16	2038.51	A		VT		-1.16
354838114323201	B-28-21 20ADB	505400	2347	DET	DET	10/22/02	304.1	2042.9	A		V		10/23/12	303.5	2043.5	A		V		0.6
360105114281101	B-30-20 06CAD UNSURV	629128	1339	DET	DET	10/22/02	57.2	1281.8	A		V		10/23/12	57.5	1281.5	A		V		-0.3
315231109423901	D-18-26 16BBB	616235	4281.9	DOU	DIN	02/25/03	163.53	4118.37	A		V		11/06/12	179	4102.9	A		V		-15.47
315042109414301	D-18-26 28AAA2		4268	DOU	DIN	02/25/03	212.5	4055.5	A		V		11/06/12	250.2	4017.8	A		V		-37.7
314557109392401	D-19-26 23DAA	618189	4300	DOU	DIN	02/25/03	319.23	3980.77	A		V		11/06/12	377.9	3922.1	A		V		-58.67
314358109414801	D-19-26 33CDA		4188.9	DOU	DIN	02/25/03	161.13	4027.77	A		V		11/06/12	168.4	4020.5	A		V		-7.27
314139109430401	D-20-26 17BDC	617290	4137	DOU	DIN	02/25/03	76.19	4060.81	A		V		11/06/12	86.8	4050.2	A		V		-10.61
314039109391501	D-20-26 23DAA2		4169	DOU	DIN	02/25/03	109.19	4059.81	A		V		11/06/12	120.3	4048.7	A		V		-11.11
313941109390601	D-20-26 25CBC	600023	4158	DOU	DIN	02/25/03	115.69	4042.31	A		V		11/06/12	120.8	4037.2	A		V		-5.11
313826109402301	D-21-26 02BAA		4130	DOU	DIN	02/25/03	100.29	4029.71	A		V		11/06/12	104.7	4025.3	A		V		-4.41
313740109403801	D-21-26 02CCD	609654	4141	DOU	DIN	02/25/03	122.83	4018.17	A		V		11/06/12	130.7	4010.3	A		V		-7.87
313550109392001	D-21-26 24ABB	632767	4196	DOU	DIN	02/26/03	188.55	4007.45	A		V		11/06/12	193.3	4002.7	A		V		-4.75
313332109430001	D-21-26 32DAD	602706	4077.24	DOU	DIN	02/26/03	73.29	4003.95	A		S		11/08/12	89.7	3987.54	A		V		-16.41
313242109415501	D-22-26 04DAD		4095	DOU	DIN	02/26/03	116.62	3978.38	A		V		11/08/12	125.4	3969.6	A		V		-8.78
312527109395701	D-23-26 13CCC1	625680	4009	DOU	DIN	02/26/03	71.36	3937.64	A		S		11/08/12	71.8	3937.2	A		S		-0.44
312448109450001	D-23-26 19CBC2	603927	4158	DOU	DIN	02/26/03	127.8	4030.2	A		V		11/08/12	123.8	4034.2	A		V		4
312638109355901	D-23-27 09DAB	617653	4055	DOU	DIN	02/26/03	202.33	3852.67	A		V		11/08/12	217	3838	A		V		-14.67
312433109344901	D-23-27 22DDA2		4042	DOU	DIN	02/26/03	220.77	3821.23	A		V		11/07/12	239.2	3802.8	A		V		-18.43
312248109323801	D-23-28 31CCC		4042	DOU	DIN	02/26/03	303.23	3738.77	A		V		11/07/12	326.1	3715.9	A		V		-22.87
314225109475401	D-20-25 09CAA	633787	4559.2	DOU	DOU	02/25/03	336.6	4222.6	A	P	V		11/06/12	232.2	4327	A		V		104.4
330858110495101	D-03-15 29AAB	624276	2715	DSW	DSW	11/04/02	98.2	2616.8	A		V		01/14/13	98.9	2616.1	A		S		-0.7
330845110501701	D-03-15 29BBD	607669	2710	DSW	DSW	11/04/02	86.4	2623.6	A		V		01/14/13	75.6	2634.4	A		S		10.8
323938108541901	19S 20W 16 222		4097	DUN	DNM	02/26/03	82.69	4014.31	A		V		10/31/12	142	3955	A	P	V		-59.31
323438108514601	20S 20W 12 144		4206	DUN	DNM	02/26/03	275.1	3930.9	A		V		10/31/12	275.7	3930.3	A		V		-0.6
323555108581601	20S 21W 01 131		4153	DUN	DNM	02/26/03	317.29	3835.71	A		V		10/31/12	317.3	3835.7	A		V		-0.01
323425109022101	20S 21W 17 111		3990	DUN	DNM	02/26/03	126.8	3863.2	A		V		10/31/12	126.1	3863.9	A		V		0.7
325655109135001	D-06-30 01BAA	637316	3645	DUN	DUN	02/26/03	192.69	3452.31	A		V		10/31/12	192.8	3452.2	A		V		-0.11
325114109105801	D-07-31 04BCC		3544	DUN	DUN	02/26/03	27.39	3516.61	A		V		10/31/12	31.4	3512.6	A		V		-4.01
324707109093901	D-07-31 34BAC		3590	DUN	DUN	02/26/03	37	3553	A		V		10/31/12	54.1	3535.9	A		V		-17.1
324348109064601	D-08-32 18CCD	628601	3655	DUN	DUN	02/26/03	21.29	3633.71	A		V		10/31/12	23.7	3631.3	A		V		-2.41
324355109051801	D-08-32 20ABB		3705	DUN	DUN	02/26/03	68.4	3636.6	A		V		10/31/12	72.2	3632.8	A		V		-3.8
324142109030001	D-08-32 34ADD	628592	3730	DUN	DUN	02/26/03	43.2	3686.8	A		V		10/31/12	51.9	3678.1	A		V		-8.7
323922109034501	D-09-32 15BBB	637313	3810	DUN	DUN	02/26/03	129.5	3680.5	A		V		10/31/12	129.9	3680.1	A		V		-0.4
331337112383401	C-02-04 26BDA		900	GIL	GIL	11/07/02	290.54	609.46	A		V		11/07/12	335.7	564.3	A		V		-45.16
331246112410801	C-02-04 32ADA		822	GIL	GIL	11/07/02	260.79	561.21	A		V		11/08/12	315.5	506.5	A		V		-54.71
331333112443001	C-02-05 26CBA		766	GIL	GIL	11/07/02	109.44	656.56	A		V		11/08/12	151.1	614.9	A		V		-41.66
331210112425701	C-03-04 06BBA	622286	748	GIL	GIL	11/07/02	153.35	594.65	A		V		11/08/12			A	P	V		
331008112410801	C-03-04 17ADD	622291	747.01	GIL	GIL	08/14/03	215.57	531.44	A		V		11/20/12	269.21	477.8	A		VT		-53.64
330847112425501	C-03-04 19CCD	612571	710	GIL	GIL	11/06/02	120.09	589.91	A		V		11/08/12			A	P	V		
330604112403101	C-04-04 09BAA1		705	GIL	GIL	11/06/02	156.35	548.65	A		V		11/07/12	230	475	A		V		-73.65
330258112385901	C-04-04 27DAA	622317	741	GIL	GIL	11/06/02	207.19	533.81	A		V		11/07/12	275.3	465.7	A		V		-68.11
330143112582201	C-04-07 34CDC	628201	580	GIL	GIL	10/31/02	30.79	549.21	A		V		11/14/12	37.5	542.5	A		S		-6.71
325813112345301	C-05-03 29AAA		1013.59	GIL	GIL	10/31/02	443.7	569.89	A		V		11/09/12	481	532.59	A		V		-37.3
325742112354601	C-05-03 29CBC2	650677	991	GIL	GIL	10/31/02	421.5	569.5	A		V		11/09/12	458.9	532.1	A		V		-37.4
330020112394901	C-05-04 10CBC	622319	738	GIL	GIL	11/06/02	247.89	490.11	A	P	V		11/07/12			A	P	V		
325700112415901	C-05-04 31ADD	622309	742	GIL	GIL	11/06/02	191.69	550.31	A		V		11/07/12	229.6	512.4	A		V		-37.91
325816112473101	C-05-05 20DCD		655	GIL	GIL	11/01/02	97	558	A		V		11/13/12			A	Z	V	UTM LOCKED GATE/NO TRESPASSING SIGN.	
325920112533201	C-05-06 17DAD		658	GIL	GIL	11/01/02	90.59	567.41	A		V		11/14/12	90.9	567.1	A	K	V		-0.31
325650112552701	C-05-06 31CBB	622330	723	GIL	GIL	10/31/02	178.69	544.31	A	V	V		11/14/12	170.2	552.8	A		V		8.49
325605112315001	C-06-03 02ADD	807428	1220.09	GIL	GIL	10/31/02	637.4	582.69	A		V		11/09/12	656.1	563.99	A		V		-18.7
325450112371501	C-06-04 12CDD	650671	980	GIL	GIL	10/31/02	412.1	567.9	A		V		11/09/12	437	543	A		V		-24.9
325627112433201	C-06-05 01BAA	622353	740	GIL	GIL	11/01/02	190.39	549.61	A		V		11/09/12			A	O	V		

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
325543112440201	C-06-05 02DDD	622362	755	GIL	GIL	11/06/02	198.69	556.31	A		V		11/09/12	230.6	524.4	A		V		-31.91
325253112434801	C-06-05 25BBB2	609892	860	GIL	GIL	11/06/02	303.6	556.4	A		V		11/15/12			A	P	V		
325540112523001	C-06-06 04DCD	622393	733	GIL	GIL	11/01/02	190.39	542.61	A		V		11/14/12	209.3	523.7	A		V		-18.91
325444112571901	C-06-07 11CCC	622333	721	GIL	GIL	10/31/02	132.1	588.9	A	V	V		11/14/12	83.4	637.6	A	V	V	CORRECTED VALUE. OIL@83.9 WATER@ 91.1. CORRECTED VALUE 84.9-1.5MP=83.4	48.7
325027112522001	C-07-06 04DDD	615097	827	GIL	GIL	10/31/02	288.04	538.96	A		V		11/15/12			A	D	V		
324934112535201	C-07-06 08CDD1	611789	812	GIL	GIL	10/31/02	282.39	529.61	A		V		11/15/12	279	533	A		V		3.39
332450113073501	B-01-08 19BCC	600200	1093	HAR	HAR	10/31/02	25.04	1067.96	A		V		10/31/12	25.4	1067.6	A		V		-0.36
332658113104001	B-01-09 10BBB	800152	1148	HAR	HAR	10/31/02	340.04	807.96	A		V		10/31/12	399.8	748.2	A		V		-59.76
332513113124701	B-01-09 20BBB	616571	1175	HAR	HAR	10/31/02	79.5	1095.5	A		V		10/30/12	74.2	1100.8	A		V		5.3
332449113123001	B-01-09 20BDC	616572	1167	HAR	HAR	11/01/02	413.35	753.65	A		V		10/30/12	451.5	715.5	A	K	V		-38.15
332449113080901	B-01-09 24CAA	635439	1103	HAR	HAR	10/31/02	350.54	752.46	A		V		10/31/12	400.7	702.3	A		V		-50.16
332357113124701	B-01-09 29BCC	603852	1183	HAR	HAR	10/31/02	441.54	741.46	A		V		10/30/12	473.2	709.8	A		V		-31.66
332241113124801	B-01-09 32CCC	614409	1216	HAR	HAR	10/31/02	477.85	738.15	A		V		12/20/12			A	P	V		
332242113101601	B-01-09 34DCC1	627805	1153	HAR	HAR	10/31/02	402.64	750.36	A		V		10/30/12	452.2	700.8	A		V		-49.56
333057113060701	B-02-08 17CAA		1180	HAR	HAR	12/20/02	426.2	753.8	A		V		10/31/12	470	710	A		V		-43.8
332938113063901	B-02-08 30AAA2	608452	1144	HAR	HAR	10/30/02	464.85	679.15	A	P	V		12/20/12	432.3	711.7	A		V		32.55
333305113104301	B-02-09 03BBB		1260	HAR	HAR	11/01/02	507.25	752.75	A		V		10/29/12	529	731	A		V		-21.75
333212113131801	B-02-09 07ABB	627169	1260	HAR	HAR	10/31/02	302.55	957.45	A		V		10/29/12	297	963	A		V		5.55
332820113101201	B-02-09 34DBB		1149	HAR	HAR	10/30/02	396.45	752.55	A		V		10/30/12	461.8	687.2	A	K	V		-65.35
332819113094101	B-02-09 35CBB	803520	1142	HAR	HAR	10/30/02	27.85	1114.15	A		V		10/30/12	38.6	1103.4	A		V		-10.75
333301113182601	B-02-10 05ABB	648614	1330.37	HAR	HAR	11/07/02	400.89	929.48	A		V		06/05/13	368.79	961.58	A		VT		32.1
333637113114701	B-03-09 08DDD2	520439	1501	HAR	HAR	11/01/02	601.45	899.55	A		V		11/01/12	607.6	893.4	A		V		-6.15
333802113210301	B-03-11 01BCB	520474	1490	HAR	HAR	11/01/02	536.45	953.55	A		V		10/29/12	506.7	983.3	A		V		29.75
333425113454901	B-03-13 28ADC	603145	1338	HAR	HAR	11/01/02	316.39	1021.61	A		V		11/13/12	315.9	1022.1	A		V		0.49
334000113130301	B-04-09 30AAC	612687	1767	HAR	HAR	11/01/02	326.45	1440.55	A		V		11/01/12			A	Z	V	BEE'S AT MP	
332216113050501	C-01-08 04BDA1		1060	HAR	HAR	10/31/02	305.85	754.15	A		V		10/31/12	335.7	724.3	A		V		-29.85
332149113070301	C-01-08 06DCC	606843	1086	HAR	HAR	10/31/02	326.04	759.96	A		V		10/31/12	360.4	725.6	A		V		-34.36
332005113022801	C-01-08 14DDD		990	HAR	HAR	10/31/02	210.25	779.75	A		V		10/31/12	214.3	775.7	A		V		-4.05
331753113041001	C-01-08 34BCD	634099	1054	HAR	HAR	10/31/02	213.25	840.75	A		V		10/31/12	217.3	836.7	A		V		-4.05
332103113090401	C-01-09 11DCB	610098	1158	HAR	HAR	10/31/02	412.35	745.65	A		V		12/20/12	447.8	710.2	A		V		-35.45
331940113092001	C-01-09 23BDB	807638	1197	HAR	HAR	04/16/03	455.4	741.6	A		V		10/31/12	478.8	718.2	A		V		-23.4
351907113582801	B-22-16 03CBB	805941	3325	HUA	HUA	10/22/02	569.4	2755.6	A		V		11/15/12	587.3	2737.7	A		V		-17.9
351554113590701	B-22-16 28BAD	612659	3300.13	HUA	HUA	02/12/03	560.04	2740.09	A		V		01/24/13	585.56	2714.57	A	S	VT		-25.52
352052113551801	B-23-15 30CBB	606421	3153	HUA	HUA	10/22/02	376.89	2776.11	A		V		11/15/12	377.6	2775.4	A		V		-0.71
352910111553001	B-24-16 01DDD1	619553	2961	HUA	HUA	10/21/02	449.5	2511.5	A		V		11/15/12			A	O	V	UTM - OBSTRUCTED AT 250' AND THEN 350 FT.	
353105114021001	B-25-16 30CDA		2945	HUA	HUA	06/16/03	435	2510	A		V		11/14/12	434.6	2510.4	A		V		0.4
353610114033501	B-26-17 35AAA	600500	2768	HUA	HUA	06/17/03	264.8	2503.2	A		V		11/14/12	264.2	2503.8	A		V		0.6
354036114110601	B-26-18 03AAA1	641124	3300	HUA	HUA	10/21/02	557.5	2742.5	A		V		11/14/12	558.8	2741.2	A		V	PUMPED	-1.3
354130113595601	B-27-16 33BAA	800970	2792	HUA	HUA	06/19/03	350.1	2441.9	A		V		11/14/12	349.1	2442.9	A		V		1
354238114042201	B-27-17 23CAC	640651	2765	HUA	HUA	06/19/03	364.7	2400.3	A		V		11/14/12	365.1	2399.9	A		V		-0.4
354552114085001	B-28-17 31CCC1	805894	3004	HUA	HUA	10/22/02	652.5	2351.5	A		V		11/14/12	654.1	2349.9	A		V		-1.6
364540112315501	B-39-02 20CDD	805803	5272	KAN	KAN	10/24/02	611.09	4660.91	A		V		10/25/12	611.3	4660.7	A		V		-0.21
365403112452801	B-40-04 06AAC		5140	KAN	KAN	09/26/03	86.3	5053.7	U		S		10/25/12	87.6	5052.4	A		V		-1.3
345414110153601	A-17-20 06ACB	620722	5040	LCR	JCI	10/23/02	47.29	4992.71	A	P	V		10/24/12	44.3	4995.7	A		V		2.99
345635110173801	A-18-19 23DBD		5030	LCR	JCI	10/22/02	42	4988	A		V		10/24/12	50.9	4979.1	A		V		-8.9
354229109345801	17 110-04.68X02.91		6293	LCR	LCR	08/05/03	138.5	6154.5	U		V		10/23/12	142.5	6150.5	A	P	V		-4
340010109090101	A-07-30 14BDD		8021	LCR	LCR	10/24/02	156.1	7864.9	A		V		10/23/12	164.8	7856.2	A		S		-8.7
340808109165001	A-09-29 33BDA	623223	6970	LCR	LCR	10/24/02	118.8	6851.2	A		V		06/10/13	151.5	6818.5	A		V		-32.7
341429110025201	A-10-22 30ABA	620773	6520	LCR	LCR	10/24/02	530.79	5989.21	A		V		10/22/12	540	5980	A		V		-9.21
341516109412401	A-10-25 22BBD2	532224	6930	LCR	LCR	10/24/02	269.9	6660.1	A		V		10/23/12	270.8	6659.2	A		V		-0.9

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
342006109470801	A-11-24 22DBC	801337	6650	LCR	LCR	10/24/02	707.7	5942.3	A		V		10/22/12	710.3	5939.7	A		V		-2.6
342044109440001	A-11-25 18DCC2	806050	6430	LCR	LCR	10/24/02	26.65	6403.35	A		V		10/22/12	27.6	6402.4	A		S		-0.95
342024109220301	A-11-28 22BDD2	085863	6062	LCR	LCR	10/26/02	85.1	5976.9	U		V		10/02/12	107.46	5954.54	A		VT		-22.36
342033109174101	A-11-29 20ABB	611373	6521	LCR	LCR	10/23/02	573.25	5947.75	A		V		10/24/12	627.7	5893.3	A		V		-54.45
342623109382901	A-12-26 18CBB	600014	6390	LCR	LCR	10/24/02	548.2	5841.8	A		V		10/22/12	551.2	5838.8	A		V		-3
342516109372701	A-12-26 19DDA	532813	6305	LCR	LCR	10/24/02	13.66	6291.34	A		S		10/22/12	24.9	6280.1	A		S		-11.24
343150110063001	A-13-21 10CDA	600370	5632	LCR	LCR	10/24/02	158.89	5473.11	A		V		10/22/12	160	5472	A		S		-1.11
343009110043501	A-13-21 24CCB	604441	5618	LCR	LCR	10/24/02	104.35	5513.65	A		V		10/22/12	97.15	5520.85	A		S		7.2
343302109372001	A-13-26 06DCB	617800	5640	LCR	LCR	10/24/02	177.6	5462.4	A	K	V		10/24/12	249.1	5390.9	A		V		-71.5
343200109275801	A-13-27 15BDC	617786	5845	LCR	LCR	10/24/02	266.7	5578.3	A		V		10/24/12	295.1	5549.9	A		V		-28.4
342946109133501	A-13-29 35AAA	632094	6176	LCR	LCR	10/24/02	209	5967	A		V		10/24/12	221.6	5954.4	A		V		-12.6
343655111111201	A-14-11 09ADC	637397	6905	LCR	LCR	10/25/02	508.7	6396.3	A		V		10/24/12	511.4	6393.6	A		V		-2.7
344058111033101	A-15-12 15DDC	631365	6503	LCR	LCR	10/24/02	667.84	5835.16	A		V		10/24/12	665.9	5837.1	A		V		1.94
343950109544001	A-15-23 28DCC1	618874	5352	LCR	LCR	10/22/02	51.29	5300.71	A		V		10/22/12	37.3	5314.7	A		V		13.99
344644110024201	A-16-22 17CCD	607126	5165	LCR	LCR	10/22/02	54.4	5110.6	A	S	V		10/22/12	55.9	5109.1	A	V	V		-1.5
345223110522301	A-17-14 17ADD	613985	5540	LCR	LCR	10/24/02	404.6	5135.4	A		V		10/26/12	404.2	5135.8	A		V		0.4
345023110111401	A-17-20 26DBC	632990	5361.75	LCR	LCR	12/13/02	303.6	5058.15	U		V		10/01/12	307.16	5054.59	A		VT		-3.56
345310110062501	A-17-21 10CBA		5141	LCR	LCR	10/26/02	55.3	5085.7	U		S		10/26/12	56.6	5084.4	A		V		-1.3
344929109514901	A-17-23 35DDA	506605	5611	LCR	LCR	08/06/03	320	5291	U		V		10/23/12	306.8	5304.2	A		V		13.2
345333109474501	A-17-24 09ABD	506603	5595.72	LCR	LCR	08/06/03	274.6	5321.12	U		V		10/01/12	263.35	5332.37	A		VT		11.25
345750110482801	A-18-14 13ABD3	806154	5158	LCR	LCR	10/24/02	287.89	4870.11	A	S	V		10/24/12	282.3	4875.7	A		V		5.59
350417110413301	A-19-16 06CDB1	085761	4830	LCR	LCR	10/24/02	42.2	4787.8	A		V		10/26/12	45.4	4784.6	A		V		-3.2
345955110202501	A-19-19 33CCB	521996	5150	LCR	LCR	10/23/02	43.7	5106.3	A		V		10/24/12	33.8	5116.2	A		V		9.9
350856111441601	A-20-06 02BBC	606205	7186	LCR	LCR	12/16/02	1173	6013	O		F		12/19/12	1297	5889	O	P	F		-124
350848111381701	A-20-07 03ACA	559571	6914.66	LCR	LCR	01/28/03	927.1	5987.56	U		V		10/01/12	926.49	5988.17	A		VT		0.61
351025111303701	A-21-08 26DAB	641923	6710	LCR	LCR	08/12/03	1683.7	5026.3	U		A		10/16/12	1521.3	5188.7	A		V		162.4
351149109260802	A-21-27 25BBD2	628733	5785	LCR	LCR	10/23/02	57.04	5727.96	A		V		10/23/12	58.6	5726.4	A		V		-1.56
351224109202401	A-21-28 23AAC	622724	5825	LCR	LCR	10/23/02	42.7	5782.3	A	P	V		10/23/12	43.6	5781.4	A	P	V		-0.9
351620111433201	A-22-06 23DBC3	644021	7332	LCR	LCR	02/10/03	124.8	7207.2	A		V		01/25/13	123.5	7208.5	A		V		1.3
351556111430401	A-22-06 25BBC1		7322	LCR	LCR	02/10/03	183.19	7138.81	A		V		01/25/13	183	7139	A		V		0.19
351537111424801	A-22-06 25CAB3	600511	7310	LCR	LCR	08/14/03	200.7	7109.3	A		V		07/18/13	167.4	7142.6	A		V		33.3
351551111434701	A-22-06 26BDB1	608396	7300	LCR	LCR	02/10/03	85.8	7214.2	A		V		01/25/13	75.1	7224.9	A		V		10.7
351520111431601	A-22-06 26DDC2		7350	LCR	LCR	02/10/03	123	7227	A		V		10/17/12	123.2	7226.8	A		V		-0.2
351523111443801	A-22-06 27DCB2	647022	7318	LCR	LCR	11/14/02	54.45	7263.55	A		V		10/17/12	52.2	7265.8	A		V		2.25
352214111324601	A-23-08 21ABA	649813	6923.6	LCR	LCR	02/10/03	1961.7	4961.9	U		V		01/24/13	1960.5	4963.1	A		V		1.2
352119109031601	A-23-31 33AAB	628127	6190	LCR	LCR	10/23/02	39.2	6150.8	A	R	V		10/23/12	42.9	6147.1	A		V		-3.7
353410111284001	A-25-09 06CCD	649814	5381	LCR	LCR	02/10/03	1587.8	3793.2	U		V		01/24/13	1586.6	3794.4	A		V		1.2
322726112502001	C-11-06 24BDA1	600485	1420	LGB	CHV	11/06/02	679.4	740.6	A		V		11/01/12	672.9	747.1	A		V		6.5
330202113032101	C-04-08 35BDD	603564	543	LGB	DEN	11/04/02	81.69	461.31	A		V		10/31/12	96.6	446.4	A	S	V	PUMPING SOUTH OF HERE.	-14.91
332022113285601	C-01-12 15CAC UNSURV	513721	1297	LGB	WEM	11/01/02	305.79	991.21	A		V		11/13/12	305	992	A		V		0.79
330822113192101	C-03-10 29BCC	614970	793	LGB	WEM	11/05/02	389.7	403.3	A		V		10/31/12	388	405	A		V		1.7
330725113260201	C-03-11 31DBB	804053	786.34	LGB	WEM	02/25/03	385.89	400.45	A		V		02/06/13	387.47	398.87	A		VT		-1.58
330550113110701	C-04-09 09ADA	614989	623	LGB	WEM	11/05/02	199.5	423.5	A		V		10/31/12	200.2	422.8	A		V		-0.7
330422113164301	C-04-10 22ABB	619482	608	LGB	WEM	11/05/02	134.5	473.5	A		V		10/31/12	137.6	470.4	A		V		-3.1
330514113231001	C-04-11 15BAB	618118	691	LGB	WEM	11/05/02	294.6	396.4	A		V		10/30/12	295.3	395.7	A	S	V	NEARBY PUMPING SOUTH OF HERE.	-0.7
330140113140901	C-05-09 06BBB	633678	501	LGB	WEM	11/05/02	48.5	452.5	A		V		10/31/12	51.4	449.6	A		S		-2.9
325841114155401	C-05-19 19BCB UNSURV		835	LGB	WEM	11/06/02	636	199	A		V		11/14/12	631.3	203.7	A		V		4.7
325422113060801	C-06-08 17BDD	804050	708	LGB	WEM	11/04/02	234.69	473.31	A		V		10/29/12	232	476	A		V		2.69
325356113214201	C-06-11 14CDD		463	LGB	WEM	11/04/02	58.29	404.71	A		V		10/29/12	60.6	402.4	A		V		-2.31
325353113321101	C-06-12 19BBA		383	LGB	WEM	11/04/02	37.29	345.71	A		V		10/29/12	38.4	344.6	A		S		-1.11
325300113423201	C-06-14 28BAB	627175	408	LGB	WEM	11/05/02	104.19	303.81	A		V		10/30/12	108.3	299.7	A		V		-4.11
325300113455201	C-06-15 26AAA		410	LGB	WEM	11/05/02	104.8	305.2	A		V		10/30/12	101.4	308.6	A		V		3.4
325117113471701	C-06-15 34DCC		384.9	LGB	WEM	11/05/02	80	304.9	A		V		10/30/12	80.3	304.6	A		V		-0.3
324628113145301	C-07-10 36BCC	615112	623	LGB	WEM	11/04/02	166.6	456.4	A		V		10/29/12	169.6	453.4	A		V		-3

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
324658113220801	C-07-11 27DDD	610466	540	LGB	WEM	11/04/02	226.89	313.11	A		V		10/29/12	233.4	306.6	A	S	V		-6.51
324750113275001	C-07-12 23CDD	615125	524	LGB	WEM	11/04/02	214.5	309.5	A		V		10/29/12	266.5	257.5	A		V		-52
324839113353201	C-07-13 21AAA	803848	419	LGB	WEM	11/04/02	92.59	326.41	A		V		10/29/12	95.4	323.6	A		V		-2.81
325103113395001	C-07-14 02AAD		342	LGB	WEM	11/05/02	35.7	306.3	A		V		10/30/12	22.1	319.9	A		V		13.6
324929113475501	C-07-15 16AAA		335	LGB	WEM	11/05/02	32	303	A		V		10/30/12	33.2	301.8	A		S		-1.2
324440113482601	C-08-15 09DBB	513657	379	LGB	WEM	11/05/02	105.7	273.3	A	V	V		10/29/12	106.7	272.3	A		V		-1
324415113171201	C-08-17 12DDD2	511059	263	LGB	WEM	11/04/02	9.69	253.31	A		V		10/30/12	24.7	238.3	A		V		-15.01
324229114014601	C-08-17 20DCC		248	LGB	WEM	11/04/02	9.8	238.2	A		V		10/30/12	14.8	233.2	A		S		-5
343007114213101	B-13-20 04ABB1	606035	475	LKH	LKH	10/24/02	72.9	402.1	A		V		10/25/12	25.8	449.2	A		V		47.1
324525110534701	D-08-14 09AAD	615540	3965	LSP	CGW	11/05/02	355.95	3609.05	A	P	V		01/15/13	72.8	3892.2	A		V		283.15
325513110441001	D-06-16 08CBB1		2025	LSP	MAM	11/04/02	28.54	1996.46	A		V		01/14/13	27.1	1997.9	A	R	S	PUMP TURNED OFF @ 2:45 PM AFTER RUNNING FOR ABOUT 2.5 HOURS. MEASUREMENT TAKEN AT 3:45PM.	1.44
325526110433801	D-06-16 08DAB2		2040	LSP	MAM	11/04/02			A	D			01/14/13			A	D	V	OWNER IS GETTING WELL DEEPENED	
324840110412001	D-07-16 22ADD	610320	2206.36	LSP	MAM	11/04/02	17.6	2188.76	A		V		01/15/13	16.1	2190.26	A		S		1.5
324824110413801	D-07-16 22DBD		2230	LSP	MAM	11/04/02	29.2	2200.8	A		V		01/15/13	27.8	2202.2	A		S		1.4
324208110393301	D-08-16 25DCD		2910	LSP	MAM	11/04/02	502	2408	A		V		01/15/13	490.1	2419.9	A		V		11.9
323644110461201	D-09-15 35AAD	649302	4480	LSP	MAM	11/05/02	36.15	4443.85	A		V		01/15/13	44.7	4435.3	A		S		-8.55
324058110361201	D-09-17 04ADC1	607867	2448.39	LSP	MAM	11/05/02	44	2404.39	A		V		01/15/13	49.7	2398.69	A	P	V		-5.7
322247110261601	D-12-19 19ABD		2970	LSP	MAM	11/06/02	53.59	2916.41	A		V		12/08/12			A	O	V	OBSTRUCTED AT ABOUT 63 FT BLS.	
322003110283701	D-13-18 02BDD		3240	LSP	MAM	11/06/02	109.44	3130.56	A		V		12/08/12	134.7	3105.3	A		S		-25.26
321017110171401	D-14-20 34CAA1		3360	LSP	MAM	11/07/02	117.1	3242.9	A		V		12/07/12	118.6	3241.4	A	S	V	CAAA2 PUMPING	-1.5
321157110143001	D-14-21 19CAD	615955	4210	LSP	MAM	11/06/02	162.1	4047.9	A		V		12/08/12	86.13	4123.87	A		S		75.97
320836110172301	D-15-20 10CAB2	808718	3319	LSP	MAM	11/07/02	41.9	3277.1	A		V		12/07/12	42.8	3276.2	A		S		-0.9
355855114043501	B-30-17 14DCC	610730	3187.04	MEA	MEA	11/19/02	405.1	2781.94	A		V		01/23/13	424.03	2763.01	A		VT		-18.93
345824114321901	B-18-21 05CAB3	510925	810	MHV	MHV	10/24/02	336.5	473.5	A		V		10/25/12	338.5	471.5	A		V		-2
351120114320001	B-21-21 21CBB		980	MHV	MHV	10/24/02	349.1	630.9	A		V		10/23/12	345	635	A		V		4.1
334845113312201	B-05-12 05AAD1	614500	1907	MMU	MMU	11/06/02	308.5	1598.5	A		V		10/31/12	394.3	1512.7	A		V		-85.8
334408113313401	B-05-12 32ADB		1697	MMU	MMU	11/05/02	122.4	1574.6	A		V		10/30/12	135.2	1561.8	A		V		-12.8
334827113335701	B-05-13 01BDA	625292	1859	MMU	MMU	11/06/02	413.1	1445.9	A		V		10/31/12			A	O	V		
334818113350001	B-05-13 02DBB		1861.45	MMU	MMU	02/25/03	28.72	1832.73	A		V		02/05/13	22.55	1838.9	A	S	VT		6.17
334557113393201	B-05-13 19BBD2		1955	MMU	MMU	11/06/02	366.29	1588.71	A		V		10/30/12	384.1	1570.9	A		V		-17.81
334452113370401	B-05-13 28ACC	607056	1918.3	MMU	MMU	11/05/02	298.89	1619.41	A		V		10/30/12	315.7	1602.6	A		V		-16.81
335334113250701	B-06-11 05ADD	804122	1991.42	MMU	MMU	11/07/02	238.8	1752.62	A		V		02/05/13	246.58	1744.84	A		VT		-7.78
335053113224001	B-06-12 19DBB		1939.09	MMU	MMU	11/07/02	44.79	1894.3	A		V		10/31/12	44.3	1894.79	A		S		0.49
334955113365201	B-06-13 28DBD2	634103	2009	MMU	MMU	11/05/02	555.4	1453.6	A		V		10/30/12	597.5	1411.5	A		V		-42.1
335545113062501	B-07-08 20DDD		2224	MMU	MMU	11/04/02	655.09	1568.91	A		V		11/06/12	676.6	1547.4	A		V		-21.51
335449113120601	B-07-09 33ABB	612679	2235	MMU	MMU	11/05/02	636.2	1598.8	A		V		11/02/12	642.8	1592.2	A		V		-6.6
335633113195701	B-07-10 19AAA	604150	2056	MMU	MMU	11/05/02	357.1	1698.9	A		V		03/20/13	384.6	1671.4	A		V		-27.5
335407113175201	B-07-10 33DDA2	546173	2205	MMU	MMU	11/05/02	535.2	1669.8	A		V		11/02/12	543.3	1661.7	A		V		-8.1
335741113251401	B-07-11 08DAD2	506602	2175	MMU	MMU	11/07/02	506.5	1668.5	A		V		11/02/12	528.6	1646.4	A		V		-22.1
340005113101801	B-08-09 26CCD	640729	2191	MMU	MMU	11/04/02	551.9	1639.1	A		V		11/06/12	496.1	1694.9	A		V		55.8
340003113154501	B-08-10 36BBB	614567	2198	MMU	MMU	11/04/02	542.9	1655.1	A		V		11/06/12	552.5	1645.5	A		V		-9.6
334929109075301	A-05-30 13DBC		8020	MOR	MOR	10/24/02	83.4	7936.6	A		V		10/23/12	81.3	7938.7	A		S		2.1
334943109055301	A-05-31 17CAA1	519013	7907	MOR	MOR	10/24/02	6.91	7900.09	A		S		10/23/12	14.3	7892.7	A		S		-7.39
330016109163701	D-05-30 17ABA	621098	3890	MOR	MOR	02/26/03	503	3387	A		V		10/31/12	503.8	3386.2	A		V		-0.8
365723111302801	A-41-08 14BCA	637389	4112	PAR	PAR	10/24/02	481.6	3630.4	A		V		10/24/12	498.9	3613.1	A		V	LAKE LEVEL 3620.04	-17.3
365942111292501	A-42-08 36CBC		3735.84	PAR	PAR	01/06/03	109	3626.84	B		V		07/24/13	131.6	3604.24	A		V		-22.6
334716111542501	A-05-04 12CCB		2380	PHX	CRF	01/09/03	30.25	2349.75	A		V		11/27/12	28.7	2351.3	A		S		1.55
334822111515401	A-05-05 05CAA	087599	2670.16	PHX	CRF	12/16/02	394.41	2275.75	A		V		10/23/12	339.66	2330.5	A		VT		54.75

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
335052111564701	A-06-04 21DAC		2180	PHX	CRF	12/20/02	149.85	2030.15	A		V		11/27/12	108.8	2071.2	A		S		41.05
335108111551901	A-06-04 23BCA	636832	2405	PHX	CRF	12/20/02	147.05	2257.95	A		V		11/27/12	161.2	2243.8	A		S		-14.15
334850111532401	A-06-05 31CCC2	604782	2558	PHX	CRF	12/18/02	336.6	2221.4	A		V		11/28/12	249.1	2308.9	A		V		87.5
332451111554601	A-01-04 22DBC	628164	1166	PHX	ESR	11/19/02	72.19	1093.81	A		V		12/17/12			A	P	V		
332457111553001	A-01-04 23BCC	628166	1170	PHX	ESR	11/19/02	78.09	1091.91	A		V		12/17/12	67	1103	A		V		11.09
332510111535801	A-01-04 24ABC	628168	1182	PHX	ESR	11/19/02	104.8	1077.2	A		V		12/17/12	90.8	1091.2	A		V		14
332338111533901	A-01-04 25DDC	628171	1190	PHX	ESR	11/19/02	139.6	1050.4	A		V		12/17/12	125	1065	A		V		14.6
332711111482601	A-01-05 02DDC1	607670	1259.78	PHX	ESR	12/13/02	162.69	1097.09	A	U	V		10/26/12	144.68	1115.1	A		VT		18.01
332614111503901	A-01-05 16ABB	607702	1244.78	PHX	ESR	11/19/02	190	1054.78	A		V		01/14/13	138.5	1106.28	S		V		51.5
332559111524101	A-01-05 18AAC	629617	1186	PHX	ESR	11/12/02	72.6	1113.4	A		V		01/24/13	60.1	1125.9	A		V		12.5
332546111525601	A-01-05 18BDD	522680	1186	PHX	ESR	11/12/02	72.6	1113.4	A		V		01/24/13	59.2	1126.8	A		V		13.4
332430111505101	A-01-05 21DCC	629607	1230.32	PHX	ESR	01/09/03	178.69	1051.63	A		V		01/23/13	140.5	1089.82	A		V		38.19
332517111492301	A-01-05 22AAA	629619	1240.43	PHX	ESR	01/09/03	175	1065.43	A		V		03/07/13	148.2	1092.23	A		V		26.8
332432111500501	A-01-05 22CCD	629601	1234	PHX	ESR	01/10/03	173.1	1060.9	A		V		01/23/13	149.6	1084.4	A		V		23.5
332428111492001	A-01-05 22DDD	629604	1232.57	PHX	ESR	01/09/03	175.19	1057.38	A		V		01/23/13	133	1099.57	A		V		42.19
332411111484901	A-01-05 26BDA1	629605	1232	PHX	ESR	01/09/03	172.19	1059.81	A		V		01/23/13			A	W	V		
332337111481801	A-01-05 26DDD	607699	1225.12	PHX	ESR	12/13/02	143.1	1082.02	A		V		01/21/13	107	1118.12	S		V		36.1
332346111512801	A-01-05 29DDA		1214.46	PHX	ESR	01/23/03	136.8	1077.66	A		V		02/01/13	102.09	1112.37	A		VT		34.71
332359111525701	A-01-05 30BDD	607741	1199	PHX	ESR	12/16/02	119.09	1079.91	A		V		01/10/13	80	1119	S		V		39.09
332746111430601	A-01-06 03ADA	629610	1400	PHX	ESR	11/26/02	342.3	1057.7	A		V		12/03/12	276.3	1123.7	A		V		66
332549111432601	A-01-06 15ACD	500994	1356.67	PHX	ESR	11/26/02	318.95	1037.72	A		V		10/26/12	252.7	1103.97	A		VT		66.25
332458111451001	A-01-06 21BCC	617831	1288.11	PHX	ESR	12/11/02	255.5	1032.61	A	V	V		01/29/13	164	1124.11	S		V		91.5
332458111435901	A-01-06 22BCD	629611	1317	PHX	ESR	01/10/03	294.29	1022.71	A		V		01/23/13	218.8	1098.2	A		V		75.49
332429111420401	A-01-06 26AAA	621102	1358	PHX	ESR	12/11/02	338.44	1019.56	A		V		12/03/12	257.5	1100.5	A		V		80.94
332335111460201	A-01-06 32BBA2	617868	1248.82	PHX	ESR	12/11/02	200	1048.82	A		V		01/28/13	133	1115.82	S		V		67
332309111420501	A-01-06 36CBB2	505014	1337.8	PHX	ESR	01/02/03	303	1034.8	A		V		12/04/12	252.1	1085.7	A		V		50.9
332247111413401	A-01-06 36DCC	621105	1344	PHX	ESR	01/10/03	309	1035	A		V		01/24/13	243	1101	A		V		66
332547111402701	A-01-07 18ACC	500714	1481	PHX	ESR	11/26/02	440	1041	A		V		03/07/13	373.5	1107.5	A		V		66.5
332507111361001	A-01-07 23ACA	613969	1605	PHX	ESR	12/11/02	583.09	1021.91	A		V		11/28/12	598	1007	A		V		-14.91
333345111360001	A-01-07 26AAC2	616590	1570	PHX	ESR	12/11/02	549.59	1020.41	A		V		11/29/12	563.4	1006.6	A		V		-13.81
332403111365101	A-01-07 26BCC	529939	1535	PHX	ESR	01/10/03	513.2	1021.8	A		V		01/24/13	532.1	1002.9	A		V		-18.9
332400111370701	A-01-07 27DAB	608949	1522	PHX	ESR	01/10/03	500.2	1021.8	A		V		01/24/13	556.2	965.8	A		V		-56
332247111385601	A-01-07 33CCC	505767	1420	PHX	ESR	01/10/03	401.9	1018.1	A		V		01/23/13	334	1086	A		V		67.9
332308111345001	A-01-07 36DAA2 PZ1		1564	PHX	ESR	10/28/02	536.9	1027.1	A		V		11/12/12	550.3	1013.7	A		V		-13.4
332308111345002	A-01-07 36DAA2 PZ2		1564	PHX	ESR	10/28/02	541.2	1022.8	A		V		11/12/12	553.7	1010.3	A		V		-12.5
332308111345003	A-01-07 36DAA2 PZ3		1564	PHX	ESR	10/28/02	513.09	1050.91	A		V		11/12/12	515.2	1048.8	A		V		-2.11
332614111311101	A-01-08 10DCC1	614002	1867	PHX	ESR	12/06/02	91.7	1775.3	A		V		11/27/12	92.4	1774.6	A		V		-0.7
332332111333401	A-01-08 32BBA	800843	1632	PHX	ESR	12/13/02	605	1027	A		V		11/27/12	616.5	1015.5	A		V		-11.5
333248111535801	A-02-04 01ACC	626816	1296.92	PHX	ESR	12/09/02	305.55	991.37	A		V		10/24/12	205.44	1091.48	A		VT		100.11
333241111541801	A-02-04 01CBA	626814	1293	PHX	ESR	01/15/03	392.5	900.5	A		V		01/14/13	322.3	970.7	A		V		70.2
333217111551801	A-02-04 11BBA	626817	1290	PHX	ESR	01/15/03	389.8	900.2	A		V		01/14/13	327.9	962.1	A		V		61.9
333059111532901	A-02-04 13DAA	626809	1264	PHX	ESR	01/15/03	179.6	1084.4	A		V		01/14/13	131.3	1132.7	A		V		48.3
333009111560401	A-02-04 22BDD		1290	PHX	ESR	01/27/03	259.5	1030.5	A		V		11/27/12	153.2	1136.8	A		S		106.3
332940111535701	A-02-04 25ABB	626539	1243	PHX	ESR	01/15/03	197.4	1045.6	A		V		01/14/13	138.2	1104.8	A		V		59.2
332855111535901	A-02-04 25CDD	626540	1233.58	PHX	ESR	01/15/03	154.8	1078.78	A		V		10/24/12	94.83	1138.75	A		VT		59.97
332837111445901	A-02-06 33BAB1	620482	1295	PHX	ESR	01/02/03	225.69	1069.31	A		V		12/04/12	177.1	1117.9	A		V		48.59
333755111542601	A-03-04 02DAA	626829	1501	PHX	ESR	01/17/03	447.29	1053.71	A	R	V		11/27/12	374.4	1126.6	A		V		72.89
333757111545701	A-03-04 02DBB	626827	1498	PHX	ESR	01/15/03	438.2	1059.8	A		V		01/15/13	391.1	1106.9	A		V		47.1
333531111563501	A-03-04 21ADA2	626830	1375	PHX	ESR	01/15/03	420.39	954.61	A		V		01/15/13	386.1	988.9	A		V		34.29
333507111573301	A-03-04 21CCB2	626625	1363	PHX	ESR	01/01/03	406	957	O		V		01/30/13	364.4	998.6	A	R	V	PUMP OFF 24HRS	41.6
333448111542801	A-03-04 25BBB	626825	1351.19	PHX	ESR	01/17/03	357.39	993.8	A		V		10/23/12	317.93	1033.26	A		VT		39.46
333546111511201	A-03-05 21BBA	800809	1435	PHX	ESR	12/04/02	297.1	1137.9	A		V		11/27/12	276.8	1158.2	A		V		20.3
333427111475701	A-03-05 25CAB	600650	1555	PHX	ESR	01/06/03	463.3	1091.7	A		V		11/28/12	415.3	1139.7	A		V		48
333442111502101	A-03-05 28ADA	629249	1421	PHX	ESR	01/15/03	310.2	1110.8	A		V		11/27/12	278.5	1142.5	A		V		31.7
334154112001401	A-04-03 13BAA	503959	1615	PHX	ESR	12/02/02	490	1125	A		V		11/29/12	499.4	1115.6	A		V		-9.4
333917111594501	A-04-03 36AAA1	606354	1503	PHX	ESR	01/31/03	376.7	1126.3	A		V		11/27/12	384.8	1118.2	A		V		-8.1

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
334104111542501	A-04-04 13CCC		1798	PHX	ESR	01/31/03	687.5	1110.5	A		V		12/03/12	678.3	1119.7	A		V		9.2
334103111545601	A-04-04 14DCC	500319	1777	PHX	ESR	01/17/03	661.5	1115.5	A		V		01/16/13	662.2	1114.8	A		V		-0.7
334032111571701	A-04-04 21CBA	508818	1626	PHX	ESR	12/05/02		1626	A	O	V		02/05/13	517	1109	A	V	V		-517
334102111551701	A-04-04 23BAB	554003	1755	PHX	ESR	01/15/03	642.09	1112.91	A		V		01/16/13	639.9	1115.1	A		V		2.19
333848111571501	A-04-04 33CBA	504791	1517	PHX	ESR	12/05/02	432	1085	A		V		01/30/13	433.5	1083.5	A		V		-1.5
333826111573201	A-04-04 33CCC	087614	1492	PHX	ESR	12/05/02	412.39	1079.61	A		V		01/30/13	401	1091	A		V		11.39
334804111580601	A-05-04 05DCC2	800785	2000	PHX	ESR	12/18/02	796.2	1203.8	A		V		11/27/12	810.8	1189.2	A		V		-14.6
334603111573401	A-05-04 21BBC	518789	2015	PHX	ESR	01/16/03	865.9	1149.1	A		V		01/16/13			A	O	V		
334509111591501	A-05-04 30BAD	603807	1837	PHX	ESR	11/11/02	679	1158	O		V		02/05/13	701.9	1135.1	A		V		-22.9
334359111563401	A-05-04 33DAA	600117	1976.25	PHX	ESR	11/05/02	844.7	1131.55	A		V		10/24/12	847.67	1128.58	A		VT		-2.97
335010112063001	A-06-02 25BDD1		1822	PHX	ESR	12/12/02	292.39	1529.61	A		V		11/27/12	303.3	1518.7	A		V		-10.91
335350112035301	A-06-03 05ADA	623536	2120	PHX	ESR	01/29/03	66.4	2053.6	A		V		11/30/12	133.4	1986.6	A		V		-67
335317112042701	A-06-03 05CCC		2050	PHX	ESR	12/31/02	245.5	1804.5	A		V		11/30/12	168.9	1881.1	A		V		76.6
334930112024601	A-06-03 34BBC	552697	1880	PHX	ESR	01/09/03	588.29	1291.71	A		V		11/27/12	634	1246	A		V		-45.71
332216111543601	D-01-04 01BCC	514694	1188	PHX	ESR	11/19/02	127.09	1060.91	A		V		12/18/12	91.2	1096.8	A		V		35.89
332123111581401	D-01-04 08ACC1	517597	1275	PHX	ESR	11/20/02	221.5	1053.5	A		V		12/03/12	195.2	1079.8	A		V		26.3
332125111561201	D-01-04 10BDD2	582989	1200	PHX	ESR	11/12/02	108.8	1091.2	A		V		12/18/12	95.3	1104.7	A		V		13.5
332125111540601	D-01-04 12ACC	617861	1188	PHX	ESR	12/06/02	126	1062	A		V		01/10/13	99	1089	S		V		27
332032111591201	D-01-04 18DBB1		1293	PHX	ESR	11/20/02	235.8	1057.2	A		V		12/03/12	215.1	1077.9	A		V		20.7
332002111533901	D-01-04 24AAA	617856	1187	PHX	ESR	12/06/02	147.6	1039.4	A	V	V		01/10/13	164	1023	S		V		-16.4
331844111581501	D-01-04 29DBB	626841	1198	PHX	ESR	11/20/02	115.8	1082.2	A		V		12/03/12	121.8	1076.2	A		V		-6
331740111580401	D-01-04 32DCA	626614	1167	PHX	ESR	12/02/02		1167	A	O	V		02/05/13	84	1083	A		V		-84
331727112581401	D-01-04 32DCC	626619	1159	PHX	ESR	12/02/02	127.19	1031.81	A		V		02/05/13	88.2	1070.8	A	V	V	LIGHT OIL	38.99
332212111503001	D-01-05 04DAA	517843	1207.74	PHX	ESR	01/09/03	170.1	1037.64	A		V		01/23/13	130.7	1077.04	A		V		39.4
332224111524101	D-01-05 06ADA2	508798	1200	PHX	ESR	01/09/03	181.5	1018.5	A		V		01/23/13	146.5	1053.5	A		V		35
332127111515901	D-01-05 08ACC	617859	1202	PHX	ESR	12/12/02	170.1	1031.9	A		V		01/14/13	119	1083	S		V		51.1
332127111492801	D-01-05 10ADD	624351	1215.23	PHX	ESR	12/05/02	126.4	1088.83	A		V		12/03/12	102.2	1113.03	A		V		24.2
332058111483901	D-01-05 14ABA	634676	1224	PHX	ESR	12/06/02	169.7	1054.3	A		V		12/05/12	142.4	1081.6	A		V		27.3
332008111495801	D-01-05 15CDD2	617083	1217.73	PHX	ESR	12/12/02	165.1	1052.63	A		V		02/01/13	129.04	1088.69	A		VT		36.06
331800111483501	D-01-05 35ADC	618622	1231.62	PHX	ESR	11/21/02	134.8	1096.82	A		V		01/21/13	129	1102.62	S		V		5.8
332102111424501	D-01-06 11CDD2	620513	1295	PHX	ESR	01/03/03	240.8	1054.2	A		V		12/04/12	217.1	1077.9	A		V		23.7
331918111421101	D-01-06 24CCC2	620517	1312	PHX	ESR	01/03/03	200.6	1111.4	A	K	V		12/04/12	171.6	1140.4	A		V		29
331734111434501	D-01-06 34CDD	620522	1295	PHX	ESR	01/03/03	173.8	1121.2	A		V		12/04/12	157.3	1137.7	A		V		16.5
332244111404501	D-01-07 06ABB3	522924	1369	PHX	ESR	01/10/03	341.6	1027.4	A		V		01/24/13	276.3	1092.7	A		V		65.3
331850111350001	D-01-07 25ADD		1458	PHX	ESR	12/18/02	321.45	1136.55	A		V		11/27/12	303	1155	A		V		18.45
331953111315002	D-01-08 21ADB PZ2		1565	PHX	ESR	10/28/02	332.79	1232.21	A		V		11/13/12	335.1	1229.9	A		V		-2.31
331757111234601	D-01-09 35DBA	527324	1832	PHX	ESR	01/23/03	653.4	1178.6	A		V		11/29/12	640.1	1191.9	A		V		13.3
331803111172901	D-01-10 35DBA	628140	2040	PHX	ESR	12/05/02	57.5	1982.5	A		V		11/28/12	59.8	1980.2	A		V		-2.3
331810111134501	D-01-11 34BCB UNSURV	600936	2180	PHX	ESR	12/04/02	24.77	2155.23	A		S		11/29/12	23.4	2156.6	A		V		1.37
331713111462001	D-02-06 06ADA	620524	1264	PHX	ESR	01/06/03	174.6	1089.4	A		V		12/04/12	154	1110	A		V		20.6
331613111431101	D-02-06 11BCC2	620529	1318	PHX	ESR	01/06/03	174.5	1143.5	A		V		12/04/12	171.9	1146.1	A		V		2.6
331517111465501	D-02-06 18CAA2	620535	1264	PHX	ESR	01/06/03	83.9	1180.1	A		V		12/04/12	67.5	1196.5	A		V		16.4
331421111451701	D-02-06 20DAD	625145	1286	PHX	ESR	11/27/02	181.3	1104.7	A	P	V		12/05/12	183.7	1102.3	A	P	V		-2.4
331548111345801	D-02-07 12DDD	607979	1457	PHX	ESR	12/18/02	278.1	1178.9	A		V		11/27/12	251.1	1205.9	A		V		27
331456111390501	D-02-07 17DDD	801577	1384	PHX	ESR	01/23/03	212	1172	A		V		11/27/12	187.9	1196.1	A		V		24.1
331446111380001	D-02-07 22BBC	609473	1402.3	PHX	ESR	11/27/02	246.26	1156.04	A		V		10/26/12	220.98	1181.32	A		VT		25.28
331313111350301	D-02-07 25DDD3	612290	1464	PHX	ESR	01/22/03	299.29	1164.71	A		V		11/27/12	273.6	1190.4	A		V		25.69
331324111370001	D-02-07 27DDA	615228	1427	PHX	ESR	01/22/03	273.1	1153.9	A		V		11/27/12	255.3	1171.7	A		V		17.8
331224111403701	D-02-07 31CDA2	608807	1442	PHX	ESR	12/06/02	388.4	1053.6	A		V		12/05/12	343	1099	A		V		45.4
331410111324401	D-02-08 20DDA	609158	1507	PHX	ESR	01/22/03	347.89	1159.11	A		V		11/27/12	339.5	1167.5	A		V		8.39
331329111301201	D-02-08 26CAD1 PZ1		1569	PHX	ESR	10/28/02	406.64	1162.36	A		V		11/15/12	346.2	1222.8	A		V		60.44
331329111301202	D-02-08 26CAD1 PZ2		1569	PHX	ESR	10/28/02	404.5	1164.5	A		V		11/15/12	382.6	1186.4	A		V		21.9
331329111301203	D-02-08 26CAD1 PZ3		1569	PHX	ESR	10/28/02	411.75	1157.25	A		V		11/15/12	381.9	1187.1	A		V		29.85
331245111314201	D-02-08 33DAA	608535	1524	PHX	ESR	01/21/03	360.7	1163.3	A		V		11/27/12	327.4	1196.6	A		V		33.3
331550111334801	D-02-08E07DDD	619742	1480	PHX	ESR	12/18/02	305.2	1174.8	A		V		11/27/12	273.7	1206.3	A		V		31.5
331532111200901	D-02-10 16BCB	610435	1884	PHX	ESR	12/02/02	352.1	1531.9	A		V		11/26/12	367.9	1516.1	A		V		-15.8

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
331440111192401	D-02-10 21ADB	615236	1903	PHX	ESR	12/02/02	555.54	1347.46	A		V		11/26/12	563.2	1339.8	A		V		-7.66
331640111090801	D-02-12 07ABA	624605	2440	PHX	ESR	12/04/02	10.35	2429.65	A		S		11/28/12	14.7	2425.3	A		V		-4.35
331219111322901	D-03-08 04BBA	615275	1510	PHX	ESR	01/20/03	317.39	1192.61	A	K	V		11/29/12	278	1232	A		V		39.39
331037111324201	D-03-08 08DDD	615279	1491	PHX	ESR	01/16/03	331.39	1159.61	A		V		11/29/12	300.3	1190.7	A		V		31.09
331127111310201	D-03-08 10ABB	603378	1531	PHX	ESR	01/17/03	356.39	1174.61	A		V		11/29/12	327.6	1203.4	A		V		28.79
331033111282901	D-03-08 13AAA2	603383	1568	PHX	ESR	01/13/03	388.1	1179.9	A		V		11/26/12	358.8	1209.2	A		V		29.3
331008111303801	D-03-08 15DAA	603386	1527	PHX	ESR	01/17/03	341.6	1185.4	A		V		11/29/12	300.4	1226.6	A	K	V		41.2
331001111315801	D-03-08 16DBD	615283	1506	PHX	ESR	01/16/03	324.5	1181.5	A		V		11/29/12	302.4	1203.6	A		V		22.1
330846111302801	D-03-08 26AAA	615294	1537	PHX	ESR	01/13/03	350.1	1186.9	A		V		11/26/12	317.6	1219.4	A		V		32.5
330757111300001	D-03-08 35BAA	615302	1518	PHX	ESR	01/13/03	324.5	1193.5	A	K	V		11/29/12	290.3	1227.7	A	K	V		34.2
331042111254301	D-03-09 09DCD PZ1		1628	PHX	ESR	01/13/03	440.1	1187.9	A		V		11/29/12	417.5	1210.5	A		V		22.6
331042111254302	D-03-09 09DCD PZ2		1628	PHX	ESR	01/13/03	443.1	1184.9	A		V		11/29/12	418.6	1209.4	A		V		24.5
330916111262001	D-03-09 20DAA	610703	1595	PHX	ESR	01/15/03	406.7	1188.3	A		V		11/29/12	376.1	1218.9	A		V		30.6
330757111263401	D-03-09 32ABA		1566	PHX	ESR	01/13/03	364.1	1201.9	A		V		11/29/12	338.8	1227.2	A		V		25.3
330753111241901	D-03-09 34AAA	619399	1612	PHX	ESR	01/15/03	404.7	1207.3	A		V		11/26/12	390.3	1221.7	A		V		14.4
330617111302201	D-04-08 02CCC	610414	1532	PHX	ESR	12/05/02	240.6	1291.4	A		V		11/26/12	240.5	1291.5	A		V		0.1
330704111262601	D-04-09 05AAB2	612176	1550	PHX	ESR	12/05/02	333.64	1216.36	A		V		11/26/12	325.3	1224.7	A		V		8.34
330547111274701	D-04-09 07DBB	623858	1510	PHX	ESR	12/13/02	273.39	1236.61	A		V		11/26/12	273.9	1236.1	A		V		-0.51
333309111362501	A-02-07 02BAA	600880	1382	PHX	FNH	01/08/03	62.7	1319.3	A		V		12/03/12	62.2	1319.8	A		V		0.5
333639111433101	A-03-06 15ABA	604786	1674	PHX	FNH	12/31/02	336.39	1337.61	A		V		12/05/12	326.4	1347.6	A		V		9.99
333505111422101	A-03-06 23DCB2	604787	1517.8	PHX	FNH	12/31/02	179.5	1338.3	A		V		12/05/12	176.2	1341.6	A		V		3.3
334500111430501	A-05-06 27ADD	508186	1969	PHX	FNH	01/14/03	347.4	1621.6	A		V		11/28/12	186.3	1782.7	A		V		161.1
334341111461201	A-05-06 32CCC	808587	2351	PHX	FNH	01/06/03	532.5	1818.5	A		V		11/28/12	650.3	1700.7	A		V		-117.8
334355111395101	A-05-07 32CBC1	510880	1549	PHX	FNH	01/23/03	74.5	1474.5	A		V		11/28/12	92.7	1456.3	A	S	S		-18.2
335227111491701	A-06-05 10DDA1		3305	PHX	FNH	01/15/03	144.6	3160.4	A		V		11/27/12	55.1	3249.9	A		S		89.5
332745112404501	B-01-04 05AAA	802329	1138.63	PHX	HAS	01/02/03	222.6	916.03	A		V		10/11/12	226.3	912.33	A		VT		-3.7
332654112403801	B-01-04 08AAA	802331	1093	PHX	HAS	01/09/03	204.2	888.8	A		V		12/05/12	213.9	879.1	A		V		-9.7
332634112470001	B-01-05 08DAB	800303	1056.8	PHX	HAS	02/04/03	93.4	963.4	A		V		12/11/12	96.3	960.5	A		V		-2.9
332648112454301	B-01-05 10BBC	614389	1010.81	PHX	HAS	02/04/03	43.7	967.11	A		V		01/24/13	46.69	964.12	A		VT		-2.99
332416112454301	B-01-05 27BBC	639586	977.29	PHX	HAS	02/07/03	70.59	906.7	A		V		12/04/12	74.1	903.19	A		V		-3.51
332752112492301	B-01-06 01ABB	803547	1082	PHX	HAS	02/04/03	114.4	967.6	A		V		12/11/12	116.5	965.5	A		V		-2.1
332648112504401	B-01-06 11BCA	629598	1040.69	PHX	HAS	02/06/03	87.59	953.1	A		V		12/12/12	90.2	950.49	A		V		-2.61
332427112501301	B-01-06 23DCD	808647	987	PHX	HAS	02/07/03	177.1	809.9	A		V		12/12/12	153.1	833.9	A		V		24
332752112560901	B-01-07 01BBB	614402	1070	PHX	HAS	01/10/03	238.6	831.4	A		V		12/04/12	144.4	925.6	A		V		94.2
333122112424101	B-02-04 07CCC2	517029	1233	PHX	HAS	12/02/02	207.3	1025.7	A		V		12/05/12	208.8	1024.2	A		V		-1.5
333216112475201	B-02-05 06DDD	524267	1225	PHX	HAS	11/29/02	287.2	937.8	A		V		12/04/12	273.7	951.3	A		V		13.5
332924112433301	B-02-05 25BAB		1149	PHX	HAS	01/02/03	151.3	997.7	A		V		12/05/12	152.6	996.4	A		V		-1.3
332858112470701	B-02-05 29DAC	804481	1127	PHX	HAS	02/04/03	144.3	982.7	A		V		12/04/12	145.7	981.3	A		V		-1.4
333147112530001	B-02-06 09CBB	617571	1175	PHX	HAS	12/13/02	298.7	876.3	A		V		12/04/12	245.4	929.6	A		V		53.3
333028112525101	B-02-06 21BBA	804552	1136	PHX	HAS	12/18/02	244.1	891.9	A		V		12/04/12	172.6	963.4	A		V		71.5
333006112492701	B-02-06 24BDD	639855	1155	PHX	HAS	12/05/02	182.7	972.3	A		V		12/04/12	185.5	969.5	A		V		-2.8
332817112523401	B-02-06 33CAA	617446	1075	PHX	HAS	12/12/02	216.8	858.2	A		V		12/12/12	93.4	981.6	A		S		123.4
333146112560801	B-02-07 12CBB	802455	1194	PHX	HAS	01/10/03	333.79	860.21	A		V		12/13/12	133.7	1060.3	A		V	NEARBY RECHARGE FACILITY NO LONGER IN SERVICE	200.09
332939112594901	B-02-07 20CDD	600209	1188	PHX	HAS	12/24/02	319.3	868.7	A		V		12/04/12	161.2	1026.8	A		V		158.1
332934112572801	B-02-07 27AAB	600199	1146.19	PHX	HAS	01/08/03			A	D			12/04/12	156.2	989.99	A		V		
333724112423601	B-03-04 07BBB	517028	1400	PHX	HAS	12/02/02	194.19	1205.81	A		V		12/12/12	164.8	1235.2	A		V		29.39
333430112435001	B-03-05 26ADD		1237	PHX	HAS	12/04/02	87.4	1149.6	A		V		12/05/12	62.1	1174.9	A		S		25.3
333442112544001	B-03-06 30BAD	636337	1322	PHX	HAS	12/13/02	445.7	876.3	A		V		12/04/12	401	921	A		V		44.7
333353112500201	B-03-06 35AAA	524266	1285	PHX	HAS	11/29/02	379.6	905.4	A		V		12/04/12	362.7	922.3	A		V		16.9
334052112421901	B-04-04 19BAA	800517	1417	PHX	HAS	12/11/02	176.3	1240.7	A		V		12/12/12	165.2	1251.8	A		V		11.1
334306112433801	B-04-05 01CBA	516563	1600.64	PHX	HAS	01/10/03	331	1269.64	A		V		01/24/13	332.51	1268.13	A		VT		-1.51
334325112472001	B-04-05 05ABB	802175	1620	PHX	HAS	12/17/02	377.39	1242.61	A		V		12/12/12	375.9	1244.1	A		V		1.49
334212112485101	B-04-05 07CBB	516564	1580	PHX	HAS	12/17/02	355.1	1224.9	A		V		12/07/12	352.2	1227.8	A		V		2.9
334056112445001	B-04-05 22AAA	516565	1525	PHX	HAS	12/13/02	288.39	1236.61	A		V		12/12/12	282.4	1242.6	A		V		5.99

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
334259112522001	B-04-06 04DBD	505244	1700	PHX	HAS	12/13/02	468.2	1231.8	A		V		12/06/12	465.5	1234.5	A		V		2.7
334514112422001	B-05-04 20CCC	504783	1700	PHX	HAS	11/21/02	382.3	1317.7	A		V		12/06/12	400.6	1299.4	A		V		-18.3
334513112380501	B-05-04 24CCD	802205	1720	PHX	HAS	11/21/02	417.2	1302.8	A		V		12/05/12	426.3	1293.7	A		V		-9.1
334713112464901	B-05-05 09DAC	537998	1841	PHX	HAS	01/29/03	530.9	1310.1	A		V		12/06/12	529.7	1311.3	A		V		1.2
334654112433001	B-05-05 13AAA	510003	1790	PHX	HAS	11/21/02	489.6	1300.4	A		V		12/06/12	496.7	1293.3	A		V		-7.1
334703112521901	B-05-06 10CDD	629322	1919	PHX	HAS	12/12/02	658.26	1260.74	A		V		12/06/12	655.9	1263.1	A		V		2.36
334452112502801	B-05-06 25BDC	609851	1720	PHX	HAS	12/12/02	467.2	1252.8	A		V		12/06/12	461.4	1258.6	A		V		5.8
334530112582201	B-05-07 22DBD	619272	1980	PHX	HAS	12/30/02	423.6	1556.4	A		V		12/06/12	421.1	1558.9	A		V		2.5
335303112391601	B-06-04 02CCC		1970	PHX	HAS	12/06/02	215.5	1754.5	A	R	V		03/22/13	193.9	1776.1	A	R	V	PUMP OFF 4 HOURS	21.6
335120112372901	B-06-04 13DCD	632601	1970	PHX	HAS	02/10/03	444.6	1525.4	A		V		03/27/13	471.8	1498.2	A	R	V	RECOVERED TO 15 MIN	-27.2
335124113063701	B-06-08 20ADC	614493	2199	PHX	HAS	11/01/02	260.75	1938.25	A		V		11/01/12	258.9	1940.1	A		V		1.85
332236112452001	C-01-05 03BAA1		931	PHX	HAS	02/07/03	93.5	837.5	A		V		12/11/12	90.8	840.2	A		V		2.7
332132112482001	C-01-05 07ACB		876	PHX	HAS	01/22/03	65.3	810.7	A	V	V		12/13/12	66.4	809.6	A		V		-1.1
331907112455901	C-01-05 28AAB	605129	787	PHX	HAS	01/29/03	48.09	738.91	A		V		12/18/12	87.5	699.5	A		V		-39.41
331751112445701	C-01-05 34ADC1	628196	778	PHX	HAS	01/09/03	25.29	752.71	A		V		12/18/12			A	Z	V	DRY - PROBE RETURNED WITH SEDIMENT IN TIP.	
332054112494901	C-01-06 14AAA	608004	904	PHX	HAS	01/24/03	193.6	710.4	A		V		12/13/12	219.4	684.6	A		V	REPLACES C-01-06 14DBB	-25.8
332000112543801	C-01-06 19ABB	629644	890	PHX	HAS	01/31/03	183.8	706.2	A		V		12/13/12	207.9	682.1	A		V		-24.1
331908112533201	C-01-06 29ABB	620365	864	PHX	HAS	12/26/02	159.5	704.5	A		V		12/13/12	186.4	677.6	A		V		-26.9
332053112570801	C-01-07 14BBB	604464	939	PHX	HAS	01/31/03	236.89	702.11	A		V		12/13/12	251.9	687.1	A		V		-15.01
331955112553301	C-01-07 24AAB	628648	897	PHX	HAS	12/24/02	199.7	697.3	A		V		12/13/12	226.8	670.2	A		V		-27.1
331518112454801	C-02-05 16DAA	805914	762	PHX	HAS	01/28/03	22	740	A		V		12/18/12	28.7	733.3	A		S		-6.7
334750112142901	A-05-01 10AAB	614032	1574	PHX	LKP	12/16/02	215.5	1358.5	A		V		11/30/12	203.8	1370.2	A		V		11.7
334814112094701	A-05-02 04CAB	623553	1615	PHX	LKP	12/19/02	216.25	1398.75	A		V		11/29/12	212.1	1402.9	A		V		4.15
334750112082001	A-05-02 10ABA	614028	1650	PHX	LKP	12/05/02	284.54	1365.46	A		V		11/29/12	277.2	1372.8	A		V		7.34
335028112163001	A-06-01 20DDC		1590	PHX	LKP	12/03/02	96.5	1493.5	A		V		03/21/13	89.4	1500.6	A		V		7.1
334953112101001	A-06-02 29DAD	800512	1713	PHX	LKP	01/13/03	205.94	1507.06	A		V		11/30/12	209.2	1503.8	A		V		-3.26
335623112063601	A-07-02 24BDA		2160	PHX	LKP	01/29/03	48.79	2111.21	A		V		11/30/12	58.7	2101.3	A		V		-9.91
335544112082201	A-07-02 27ABA	623759	2030	PHX	LKP	12/20/02	26.1	2003.9	A		V		12/04/12	28.8	2001.2	A		V		-2.7
331435112230201	C-02-01 20BAD		1130	PHX	WAT	01/06/03	347.5	782.5	A		V		12/06/12	335.5	794.5	A		V		12
331354112233301	C-02-01 30AAA	610920	1103	PHX	WAT	01/14/03	328.79	774.21	A		V		12/06/12	316.2	786.8	A		V		12.59
331300112213201	C-02-01 33AAA	605576	1169	PHX	WAT	12/20/02	364.89	804.11	A		V		12/03/12	359.4	809.6	A		V		5.49
331214112215501	C-02-01 33CDD	625645	1142	PHX	WAT	12/20/02	267.79	874.21	A		V		12/03/12	250.1	891.9	A		V		17.69
331637112291301	C-02-02 05CDC	800972	990	PHX	WAT	12/19/02	282.79	707.21	A		V		12/05/12	279.3	710.7	A		V		3.49
331543112283801	C-02-02 09CCC	624775	1023	PHX	WAT	12/19/02	302.89	720.11	A		V		12/05/12	314.4	708.6	A	V	V		-11.51
331610112250201	C-02-02 12ACC	626153	1070	PHX	WAT	12/18/02	315.79	754.21	A		V		12/05/12	370.2	699.8	A		V		-54.41
331311112252901	C-02-02 25CCC	607451	1078	PHX	WAT	01/14/03	335.29	742.71	A		V		12/05/12	311.4	766.6	A		V		23.89
331321112265601	C-02-02 27DCB	616485	1108	PHX	WAT	01/14/03	368	740	A		V		12/05/12	349.5	758.5	A		V		18.5
331057112235801	C-03-01 07ACC		1153	PHX	WAT	01/06/03	334.2	818.8	A		V		12/05/12	325.2	827.8	A		V		9
330846112235501	C-03-01 19DCC	629000	1225	PHX	WAT	01/06/03	398.89	826.11	A		V		12/05/12	396.8	828.2	A		V		2.09
330846112215101	C-03-01 21DCC	629411	1182	PHX	WAT	02/04/03	352.5	829.5	A		V		02/26/13	349.9	832.1	A		V		2.6
330751112213401	C-03-01 28DDD	614966	1208	PHX	WAT	02/04/03	374.29	833.71	A		V		02/26/13	374.8	833.2	A		V		-0.51
330147112230201	C-04-01 32CDD	513868	1428	PHX	WAT	01/29/03	614.5	813.5	A	P	V		02/25/13	576.6	851.4	A		V		37.9
331114112181701	D-03-01 07BBB2	615271	1272.3	PHX	WAT	12/20/02	429.6	842.7	A		V		12/05/12	433.2	839.1	A		V		-3.6
330934112171801	D-03-01 19AAA	611915	1293	PHX	WAT	01/02/03	443.6	849.4	A		V		12/05/12	447.6	845.4	A		V		-4
330700112181801	D-03-01 31CCC		1214.4	PHX	WAT	01/02/03	362.79	851.61	A		V		12/05/12	369.3	845.1	A		V		-6.51
330515112144101	D-04-01 10DCC		1275	PHX	WAT	01/23/03	404.2	870.8	A		V		12/06/12	411.8	863.2	A		V		-7.6
330423112134401	D-04-01 14CDD	804031	1288	PHX	WAT	01/23/03	382.79	905.21	A		V		12/06/12	389.7	898.3	A		V		-6.91
330239112155201	D-04-01 28CDD	600522	1338	PHX	WAT	01/29/03	430.79	907.21	A		V		12/06/12	437.7	900.3	A		V		-6.91
332609112181501	A-01-01 07CCD	600101	987	PHX	WSR	01/21/03	76	911	A		V		12/13/12	75.6	911.4	A		V		0.4
332613112151401	A-01-01 10CCC2	608436	1001.36	PHX	WSR	11/18/02	81.9	919.46	A		V		01/07/13	138	863.36	S		V		-56.1
332703112131001	A-01-01 12BBB	607206	1033.61	PHX	WSR	11/21/02	112.5	921.11	A		V		11/29/12	114.8	918.81	A		V		-2.3

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
332424112173501	A-01-01 19DCD1		965	PHX	WSR	12/31/02	39.4	925.6	A		V		12/13/12	28.9	936.1	A		V		10.5
332442112131601	A-01-01 23DDA	608371	996	PHX	WSR	11/25/02	56.7	939.3	A		V		01/23/13	73	923	S		A		-16.3
332516112121901	A-01-01 24AAA	608368	1021	PHX	WSR	11/25/02	82.2	938.8	A		V		01/24/13	84.1	936.9	S		V		-1.9
332702112091601	A-01-02 09AAB2	607201	1060.3	PHX	WSR	11/21/02	124.5	935.8	A		V		11/29/12	134	926.3	A		V		-9.5
332330112100401	A-01-02 32AAA2	607696	1013	PHX	WSR	12/04/02	49.4	963.6	A		V		01/07/13	45	968	S		V		4.4
332254112095001	A-01-02 33CBD	502420	1008	PHX	WSR	01/09/03	41.2	966.8	A		V		11/27/12	48.4	959.6	A		V		-7.2
332243112065801	A-01-02 35DDD	604323	1084	PHX	WSR	01/10/03	98.09	985.91	A		V		11/27/12	107.3	976.7	A		V		-9.21
332740111594301	A-01-03 01ADA2	801656	1154.76	PHX	WSR	01/09/03	65.9	1088.86	A		V		10/24/12	71.54	1083.22	A		VT		-5.64
332707111594101	A-01-03 01DDD	608430	1140.35	PHX	WSR	12/04/02	64.59	1075.76	A		V		01/08/13	69.5	1070.85	S		V		-4.91
332612112042401	A-01-03 08CDD	504684	1075.87	PHX	WSR	01/15/03	89.5	986.37	A		V		11/27/12	92.6	983.27	A		V		-3.1
332600112054801	A-01-03 18BBC	607207	1058	PHX	WSR	11/25/02	90.19	967.81	A		V		11/29/12	94.5	963.5	A		V		-4.31
332316112025201	A-01-03 33ADB	626563	1138	PHX	WSR	01/24/03	128.1	1009.9	A		V		01/08/13	140	998	S		A		-11.9
332307112003901	A-01-03 36BCC		1146	PHX	WSR	01/13/03	100.09	1045.91	A		V		12/03/12	98.1	1047.9	A		V		1.99
332532111584001	A-01-04 18DAD		1131.22	PHX	WSR	11/18/02	50.5	1080.72	A		V		12/03/12	33.2	1098.02	A		V		17.3
333126112162201	A-02-01 08DDD	608411	1056	PHX	WSR	12/23/02	181.6	874.4	A		V		01/29/13	124.9	931.1	S		V		56.7
333122112140901	A-02-01 14BBA	617098	1085	PHX	WSR	11/25/02	189.69	895.31	A		V		01/07/13	165	920	S		V		24.69
332952112170201	A-02-01 20CAC	626595	1027	PHX	WSR	12/02/02	157.8	869.2	A		V		02/28/13	133.8	893.2	A		V		24
332938112162001	A-02-01 20DDD2	617100	1032	PHX	WSR	11/19/02	161.39	870.61	A		V		01/24/13	126	906	S		V		35.39
332936112152101	A-02-01 28AAA1	608358	1046	PHX	WSR	11/20/02	160.8	885.2	A		V		01/07/13	147.5	898.5	S		V		13.3
332606112162001	A-02-01 32DDA	608730	1023	PHX	WSR	11/20/02	128.3	894.7	A		V		01/03/13			A	W	V		
332816112121401	A-02-01 36DAD	608384	1062	PHX	WSR	11/25/02	149.89	912.11	A		V		01/29/13	138.6	923.4	A		V		11.29
333259112072901	A-02-02 02ABC	626556	1197.35	PHX	WSR	12/03/02	203.1	994.25	A				02/28/13	193.7	1003.65	A		V		9.4
333258112080201	A-02-02 03AAD	608419	1196.03	PHX	WSR	12/03/02	212.69	983.34	A		V		01/15/13	205.1	990.93	S		V		7.59
333048112075901	A-02-02 14CBC2	608376	1142.32	PHX	WSR	12/03/02	153.89	988.43	A		V		01/17/13	149.1	993.22	S		V		4.79
333051112082001	A-02-02 15DCA	626554	1145	PHX	WSR	12/02/02	170.39	974.61	A		V		02/04/13	160.6	984.4	A		V		9.79
333036112111001	A-02-02 18DDD	607674	1120.55	PHX	WSR	11/27/02	193	927.55	A		V		01/28/13	183.1	937.45	S		V		9.9
332902112083101	A-02-02 27DCB1	626552	1100.19	PHX	WSR	12/02/02	140.3	959.89	A		V		01/23/13	145.69	954.5	A		VT		-5.39
332902112083201	A-02-02 27DCB2	626553	1099.2	PHX	WSR	12/02/02	141.39	957.81	A		V		02/28/13	143.5	955.7	A		V		-2.11
332937112093401	A-02-02 28ABB1	626575	1113.35	PHX	WSR	12/02/02	165.3	948.05	A		V		02/28/13	166.2	947.15	A		V		-0.9
332938112093401	A-02-02 28ABB2	626576	1113.02	PHX	WSR	09/26/03	179.95	933.07	A		V		01/23/13	168.65	944.37	A		VT		11.3
332914112113901	A-02-02 30DBB	626579	1090.82	PHX	WSR	12/02/02	177.19	913.63	A		V		02/28/13	170.5	920.32	A		V		6.69
332836112111001	A-02-02 31ADA	607727	1079.27	PHX	WSR	11/26/02	157.89	921.38	A		V		01/28/13	150.5	928.77	S		V		7.39
332846112103601	A-02-02 32ABB	626580	1086.27	PHX	WSR	12/02/02	158.1	928.17	A		V		02/28/13	154.9	931.37	A		V		3.2
333149112052901	A-02-03 07CAA		1160.4	PHX	WSR	11/18/02	92.4	1068	A		V		11/27/12	91	1069.4	A		V		1.4
333149112051401	A-02-03 07DAB	626549	1160	PHX	WSR	12/03/02	126.3	1033.7	A		V		03/01/13	120.9	1039.1	A		V		5.4
333135112032501	A-02-03 09CDA		1181.75	PHX	WSR	09/22/03	133.45	1048.3	A		V		10/24/12	125.1	1056.65	A		VT		8.35
333128112032201	A-02-03 09CDD	626548	1173	PHX	WSR	12/03/02	118.9	1054.1	A		V		03/01/13	116.4	1056.6	A		V		2.5
333036112010401	A-02-03 14DCD	643681	1196	PHX	WSR	11/18/02	59.59	1136.41	A		V		11/27/12	71.6	1124.4	A		V		-12.01
332840112014301	A-02-03 35BBC	607726	1132	PHX	WSR	01/13/03	80.9	1051.1	A		V		01/22/13	80.5	1051.5	S		V		0.4
332913111575301	A-02-04 29DAB	633954	1241	PHX	WSR	02/04/03	15.1	1225.9	A		V		12/03/12	22.4	1218.6	A		V		-7.3
333815112141001	A-03-01 02BBB	805338	1205	PHX	WSR	12/11/02	399	806	A		V		12/21/12	365.4	839.6	A		V		33.6
333817112154801	A-03-01 04BAA2		1202	PHX	WSR	01/13/03	410.85	791.15	A		V		12/14/12	390.1	811.9	A		V		20.75
333727112150901	A-03-01 10BBB	617953	1174	PHX	WSR	12/11/02	386.6	787.4	A		V		12/21/12	356.1	817.9	A		V		30.5
333648112131001	A-03-01 11DDA	607684	1191.54	PHX	WSR	11/20/02	322.5	869.04	A		V		01/15/13	304.9	886.64	S		V		17.6
333541112175901	A-03-01 18CDD1	608175	1137	PHX	WSR	01/06/03	382.2	754.8	A	S	V		12/14/12	335.6	801.4	A		V		46.6
333513112161701	A-03-01 21CBB	621171	1127	PHX	WSR	12/11/02	267.6	859.4	A		V		12/05/12	269	858	A		V		-1.4
333536112131201	A-03-01 23AAD	523841	1165	PHX	WSR	12/11/02	328.29	836.71	A		V		12/22/12	281.2	883.8	A		V		47.09
333517112130701	A-03-01 24CBB	608413	1163	PHX	WSR	11/27/02	291.1	871.9	A		V		01/22/13	554	609	S		A		-262.9
333401112124001	A-03-01 25CDD	537968	1145	PHX	WSR	12/11/02	301.29	843.71	A		V		12/22/12	249	896	A		V		52.29
333339112173601	A-03-01 31ACA	617058	1108	PHX	WSR	12/11/02	276.5	831.5	A		V		12/22/12	252.7	855.3	A		V		23.8
333330112164801	A-03-01 32DBB	622788	1092	PHX	WSR	12/11/02	226.4	865.6	A		V		12/22/12	207.1	884.9	A		V		19.3
333358112134201	A-03-01 35ABB	607737	1128	PHX	WSR	11/20/02	226	902	A		V		01/17/13	223.5	904.5	S		V		2.5
333822112081601	A-03-02 03AAB	626640	1308	PHX	WSR	12/05/02	412.6	895.4	A		V		02/07/13	388	920	A		V		24.6
333756112110201	A-03-02 06DAA	604120	1242.19	PHX	WSR	03/12/03	368.55	873.64	A		V		01/23/13	350.15	892.04	A		VT		18.4
333730112110201	A-03-02 08BBA2	618731	1236	PHX	WSR	02/04/03	355.39	880.61	A		V		11/28/12	335.7	900.3	A		V		19.69
333703112091801	A-03-02 09DBB	626611	1254.91	PHX	WSR	12/05/02	344.2	910.71	A		V		10/12/12	329.61	925.3	A		VT		14.59

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
333550112080401	A-03-02 15DDD	626604	1256.56	PHX	WSR	10/16/02	314.54	942.02	A		V		10/09/12	297.52	959.04	A		VT		17.02
333612112090301	A-03-02 16DAA	626621	1245	PHX	WSR	12/05/02	313.29	931.71	A		V		02/28/13	301.1	943.9	A		V		12.19
333556112103501	A-03-02 17DCB	607743	1220.3	PHX	WSR	12/03/02	315.29	905.01	A		V		01/21/13	298.1	922.2	S		V		17.19
333546112083201	A-03-02 22BAA	617992	1249	PHX	WSR	02/03/03	300.7	948.3	A		V		11/28/12	293.8	955.2	A		V		6.9
333519112082701	A-03-02 22DBB	626603	1240	PHX	WSR	12/03/02	281.2	958.8	A		V		02/28/13	281	959	A		V		0.2
333546112064001	A-03-02 24BAB2	626585	1274.79	PHX	WSR	12/03/02	323.39	951.4	A		V		10/23/12	309.88	964.91	A		VT		13.51
333505112065401	A-03-02 24CCB	624791	1257	PHX	WSR	11/27/02	292.25	964.75	A		V		11/28/12	275.8	981.2	A	V	V		16.45
333434112063201	A-03-02 25BDA	626600	1240.05	PHX	WSR	12/03/02	248.19	991.86	A		V		10/23/12	242.99	997.06	A		VT		5.2
333453112073001	A-03-02 26BAA2	626601	1247	PHX	WSR	12/03/02	272.6	974.4	A		V		02/28/13	265	982	A		V		7.6
333418112075901	A-03-02 26CBC2	626631	1226	PHX	WSR	12/03/02	247.19	978.81	A		V		02/07/13	225.7	1000.3	A		V		21.49
333411112073301	A-03-02 26CCA	626596	1227	PHX	WSR	12/03/02	240.1	986.9	A		V		02/07/13	225	1002	A		V		15.1
333415112100701	A-03-02 29DDA2	608402	1195	PHX	WSR	12/03/02	263.5	931.5	A	V	V		01/15/13	251.2	943.8	S		V		12.3
334328112175201	A-04-01 06ABB1	507620	1295	PHX	WSR	11/20/02	118.05	1176.95	A	P	V		12/13/12	96.8	1198.2	A		V		21.25
334119112140901	A-04-01 14CBB	617657	1294.57	PHX	WSR	09/25/03	474.94	819.63	A		V		01/23/13	463.62	830.95	A		VT		11.32
334003112155101	A-04-01 21CDD	561189	1249	PHX	WSR	12/03/02	470.89	778.11	A				12/21/12	439.1	809.9	A		V		31.79
334052112141401	A-04-01 22AAA	804522	1280.59	PHX	WSR	12/03/02	468.1	812.49	A		V		11/28/12	460.5	820.09	A		V		7.6
334001112151701	A-04-01 28AAB	613973	1250	PHX	WSR	12/03/02	468	782	A		V		12/21/12	242.8	1007.2	A		V		225.2
333949112175401	A-04-01 30BAD	515794	1230	PHX	WSR	11/19/02	371.4	858.6	A		V		12/21/12	334.6	895.4	A		V		36.8
333939112175901	A-04-01 30BDD	569358	1213	PHX	WSR	11/19/02	366.6	846.4	A		V		12/21/12	257.8	955.2	A		V		108.8
333919112181901	A-04-01 30CCB	540715	1185	PHX	WSR	11/19/02	356	829	A		V		12/21/12	397.9	787.1	A		V		-41.9
333844112144501	A-04-01 34BDD2	622789	1214.22	PHX	WSR	12/03/02	427	787.22	A		V		01/23/13	379.16	835.06	A		VT		47.84
334230112070901	A-04-02 11ADB	614010	1430	PHX	WSR	12/03/02	365.5	1064.5	A		V		11/30/12	353.6	1076.4	A		V		11.9
334100112081701	A-04-02 22AAB	626643	1363	PHX	WSR	12/05/02	462	901	A		V		02/04/13	422.4	940.6	A		V		39.6
333943112075101	A-04-02 26CBA	626639	1346	PHX	WSR	12/05/02	450.4	895.6	A		V		02/28/13	414.6	931.4	A		V		35.8
333915112104001	A-04-02 32BAA2	604123	1278	PHX	WSR	01/30/03	406.79	871.21	A		V		11/28/12	389.1	888.9	A		V		17.69
333914112071401	A-04-02 35AAB	626636	1350	PHX	WSR	12/05/02	445.79	904.21	A		V		02/28/13	417.1	932.9	A		V		28.69
332749112202101	B-01-01 02BBB	607157	994	PHX	WSR	11/20/02	99.59	894.41	A		V		02/06/13	108.3	885.7	A		V		-8.71
332722112203501	B-01-01 03DAB	571170	987	PHX	WSR	03/04/03	114.9	872.1	A		V		01/07/13	111.9	875.1	A		V		3
332724112204001	B-01-01 03DBA	566942	987	PHX	WSR	03/04/03	87.4	899.6	A		V		01/07/13	101.1	885.9	A	R	V		-13.7
332633112240801	B-01-01 07CAA2	607164	983	PHX	WSR	12/03/02	102.9	880.1	A		V		11/29/12	117.1	865.9	A		V		-14.2
332642112210801	B-01-01 10BDB	617171	974	PHX	WSR	03/04/03	80.5	893.5	A		V		01/07/13	88.7	885.3	A		V		-8.2
332619112203301	B-01-01 10DDB	608731	976	PHX	WSR	12/04/02	93.1	882.9	A		V		01/03/13	83.2	892.8	A		V		9.9
332656112184501	B-01-01 12BAA2	607580	980	PHX	WSR	01/21/03	67.4	912.6	A		V		12/13/12	76	904	A		V		-8.6
332601112223001	B-01-01 17AAD2	501892	976	PHX	WSR	03/04/03	77.9	898.1	A		V		01/07/13	154.8	821.2	A	R	V	OFF 20 MIN	-76.9
332422112185101	B-01-01 25BAA	606288	942	PHX	WSR	12/31/02	27.2	914.8	A	V	V		12/13/12	24.7	917.3	A		V		2.5
332422112213401	B-01-01 28AAB		929	PHX	WSR	12/27/02	32	897	A		V		02/26/13	31.7	897.3	A		S		0.3
332334112220701	B-01-01 28CDC	619787	915	PHX	WSR	11/22/02	20.1	894.9	A		V		11/19/12	23.1	891.9	A		V		-3
332347112225401	B-01-01 29CAD	619785	910	PHX	WSR	11/22/02	21.79	888.21	A		V		11/19/12	25.1	884.9	A		V		-3.31
332350112232501	B-01-01 29CBB	619783	911	PHX	WSR	11/22/02	24.29	886.71	A		V		11/19/12	28.7	882.3	A		V		-4.41
332342112223201	B-01-01 29DDA2	619782	915	PHX	WSR	11/22/02	24.29	890.71	A		V		11/19/12	26.3	888.7	A		V		-2.01
332352112242001	B-01-01 30CBA	619784	903	PHX	WSR	11/22/02	33.4	869.6	A		V		11/19/12	36.5	866.5	A		V		-3.1
332725112294301	B-01-02 05CBB	804205	1063	PHX	WSR	12/04/02	213.3	849.7	A		V		12/12/12	202.5	860.5	A		V		10.8
332607112284001	B-01-02 16BBB	625579	987	PHX	WSR	12/11/02	137.3	849.7	A		V		12/12/12	133.3	853.7	A		V		4
332515112254401	B-01-02 23AAB1	605111	943	PHX	WSR	12/06/02	68	875	A		V		01/07/13	74.3	868.7	A		V		-6.3
332353112245401	B-01-02 25DBA2	619788	902	PHX	WSR	11/22/02	29	873	A		V		11/19/12	35.5	866.5	A		V		-6.5
332400112261901	B-01-02 26BDC	619790	897	PHX	WSR	11/22/02	34.5	862.5	A		V		11/14/12	41.7	855.3	A		V		-7.2
332331112262801	B-01-02 26CCC	619805	894	PHX	WSR	11/22/02	36.2	857.8	A		V		11/19/12	42.7	851.3	A		V		-6.5
332349112264101	B-01-02 27DAD	619791	893	PHX	WSR	11/22/02	32.09	860.91	A		V		11/14/12	39.1	853.9	A		V		-7.01
332348112283201	B-01-02 28CBD	619794	890	PHX	WSR	11/22/02	33.09	856.91	A		V		11/14/12	37.7	852.3	A		V		-4.61
332352112280801	B-01-02 28DBB	619793	892	PHX	WSR	11/22/02	31.89	860.11	A		V		11/14/12	37.3	854.7	A		V		-5.41
332336112294101	B-01-02 29CCC	619796	886	PHX	WSR	11/22/02	35.4	850.6	A		V		11/14/12	34.5	851.5	A		V		0.9
332341112290101	B-01-02 29DCA	619795	895	PHX	WSR	11/22/02	37.5	857.5	A		V		11/14/12	37.6	857.4	A		V		-0.1
332423112301201	B-01-02 30ABB	625903	930	PHX	WSR	12/16/02	75.69	854.31	A		V		03/27/13	73.6	856.4	A		V		2.09
332329112270601	B-01-02 34ABB	619812	890	PHX	WSR	11/22/02	33.2	856.8	A		V		11/19/12	37.5	852.5	A		V		-4.3
332542112314201	B-01-03 14DBB	618447	1024	PHX	WSR	12/20/02	185.5	838.5	A		V		12/12/12	205.5	818.5	A		V		-20
332445112362501	B-01-03 19CBB	607153	995	PHX	WSR	11/27/02	127.4	867.6	A		V		11/29/12	133.2	861.8	A		V		-5.8

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
332452112335001	B-01-03 21DBB	605474	993.68	PHX	WSR	12/16/02	138.1	855.58	A		V		01/24/13	154.05	839.63	A		VT		-15.95
332306112322101	B-01-03 34ADD2	619800	886	PHX	WSR	12/02/02	40.09	845.91	A		V		11/14/12	40.3	845.7	A		V		-0.21
332330112331901	B-01-03 34BBB1	607172	917	PHX	WSR	11/27/02	66.59	850.41	A		V		11/29/12	67.5	849.5	A		V		-0.91
332256112324901	B-01-03 34CAD	619801	886	PHX	WSR	12/02/02	40.79	845.21	A		V		11/14/12	40.6	845.4	A		V		0.19
332250112331901	B-01-03 34CCB	619802	885	PHX	WSR	12/02/02	40.29	844.71	A		V		11/14/12	40.2	844.8	A		V		0.09
332329112302101	B-01-03 36AAB	619797	889	PHX	WSR	12/02/02	36.9	852.1	A		V		11/14/12	34	855	A		V		2.9
332322112310001	B-01-03 36BBD	619798	884	PHX	WSR	12/02/02	34.9	849.1	A		V		11/14/12	32.7	851.3	A		V		2.2
332416112390101	B-01-04 27ABB	604631	988	PHX	WSR	01/06/03	118.69	869.31	A		V		12/04/12	119.4	868.6	A		V		-0.71
332302112423001	B-01-04 31BCD	607190	928	PHX	WSR	12/02/02	78	850	A		V		11/29/12	69.4	858.6	A		V		8.6
333213112192001	B-02-01 01CCC2	609883	1069	PHX	WSR	11/25/02	253.3	815.7	A		V		03/27/13	238.4	830.6	A		V		14.9
333304112240401	B-02-01 06ABB2	620810	1113.56	PHX	WSR	09/26/03	335.63	777.93	A		V		01/23/13	284.14	829.42	A		VT		51.49
333239112240301	B-02-01 06DBB1		1117	PHX	WSR	11/19/02	339.5	777.5	A	S	V		12/13/12	271.1	845.9	A		V		68.4
333052112202401	B-02-01 14CBB		1057	PHX	WSR	12/13/02	205.1	851.9	A		V		12/13/12	204.4	852.6	A		V		0.7
333055112243101	B-02-01 18CBB2	620817	1078	PHX	WSR	11/18/02	282.39	795.61	A		V		12/13/12	237.8	840.2	A		V		44.59
332942112192301	B-02-01 23DDD	501288	1018	PHX	WSR	12/04/02	177	841	A		V		01/03/13	147.6	870.4	A		V		29.4
332918112193901	B-02-01 26ACA	607156	1013	PHX	WSR	11/19/02	156.39	856.61	A		V		11/29/12	144.4	868.6	A		V		11.99
332816112192801	B-02-01 35DAA	608793	988	PHX	WSR	12/04/02	93.1	894.9	A		V		02/06/13	94.9	893.1	A		V		-1.8
333223112280901	B-02-02 04DCB	612958	1204	PHX	WSR	11/26/02	366.1	837.9	A		V		11/28/12	346.2	857.8	A		V		19.9
332943112284601	B-02-02 20DDD2	634981	1163	PHX	WSR	12/12/02	344.79	818.21	A		V		12/13/12	348.9	814.1	A		V		-4.11
333028112270701	B-02-02 22ABB	612055	1119	PHX	WSR	11/20/02	299.29	819.71	A		V		12/13/12	284.9	834.1	A		V		14.39
332937112250201	B-02-02 25ABB2	611698	1057	PHX	WSR	12/11/02	238	819	A		V		12/13/12	214.2	842.8	A		V		23.8
333818112230401	B-03-01 05ABB	623681	1238	PHX	WSR	11/18/02	405	833	A	K	V		12/05/12	378.7	859.3	A		V		26.3
333540112202701	B-03-01 23BBB1		1134	PHX	WSR	01/31/03	290	844	A		V		12/05/12	267.2	866.8	A		V		22.8
333539112192301	B-03-01 24BBB3	603822	1118	PHX	WSR	01/31/03	354.5	763.5	A		V		12/13/12	338.1	779.9	A		V		16.4
333425112233301	B-03-01 29BCC	610102	1153	PHX	WSR	11/21/02	398	755	A		V		12/05/12			A	P	V	UTM PUMPING AND NO PERMISSION	
333357112230401	B-03-01 32BAA	610105	1135	PHX	WSR	11/21/02	355.79	779.21	A		V		12/05/12	315.2	819.8	A	S	V		40.59
333330112205801	B-03-01 34DBB1		1100	PHX	WSR	12/11/02	276.8	823.2	A		V		12/05/12	219.2	880.8	A		V		57.6
333541112280101	B-03-02 21ABA	612994	1332	PHX	WSR	11/22/02	407	925	A		V		11/28/12	404.9	927.1	A		V		2.1
333449112263801	B-03-02 27AAA	613001	1249	PHX	WSR	11/26/02	434.2	814.8	A		V		11/28/12	395	854	A		V		39.2
333357112263601	B-03-02 35BBB	613003	1220	PHX	WSR	11/22/02	414.1	805.9	A		V		11/28/12	366.3	853.7	A		V		47.8
333803112350701	B-03-03 05ADB	623549	1797	PHX	WSR	12/04/02	292.4	1504.6	A		V		03/27/13			A	O	V	@ 23 FT WITH SOUNDER AND STEAL TAPE.	
334218112222701	B-04-01 09BCD	612953	1341	PHX	WSR	12/03/02	418.89	922.11	A		V		11/28/12	363.9	977.1	A		V		54.99
334033112242801	B-04-01 19BDC	612965	1320	PHX	WSR	01/06/03	416.4	903.6	A		V		11/28/12	493.2	826.8	A		V		-76.8
334055112202801	B-04-01 23BBB	610215	1262	PHX	WSR	01/13/03	411.75	850.25	A		V		12/14/12	371.6	890.4	A		V		40.15
334136112273901	B-04-02 16AAD	614444	1411	PHX	WSR	11/19/02	328.9	1082.1	A		V		12/13/12	334.7	1076.3	A		V		-5.8
333915112265501	B-04-02 27DCD	612957	1332	PHX	WSR	11/19/02	457.5	874.5	A		V		11/28/12	458.2	873.8	A		V		-0.7
334028112361401	B-04-03 19DBA	621513	1607	PHX	WSR	12/04/02	381.7	1225.3	A		V		12/13/12	384.3	1222.7	A		V		-2.6
333912112335301	B-04-03 28DDD	614445	1628	PHX	WSR	12/04/02	411.8	1216.2	A		V		12/13/12			A	O	V	OBST@~380FT	
334708112295301	B-05-02 08CCB	060001	1707	PHX	WSR	01/13/03	524.7	1182.3	A		V		03/27/13	505.4	1201.6	A		V		19.3
334603112252701	B-05-02 24BAB		1580	PHX	WSR	12/05/02	514.2	1065.8	A		V		03/22/13	362.1	1217.9	A		V		152.1
334418112261701	B-05-02 35BAA	617007	1491	PHX	WSR	11/20/02	399.2	1091.8	A		V		03/13/13	262.4	1228.6	A		V		136.8
334654112330401	B-05-03 15AAA	640010	1710	PHX	WSR	01/24/03	482.39	1227.61	A		V		03/22/13	482.1	1227.9	A		V		0.29
333038112330101	B-05-03 22ADD	087570	1649	PHX	WSR	01/22/03	424.1	1224.9	A		V		03/13/13	425.8	1223.2	A		V		-1.7
335331112351501	B-06-03 05ADD	804224	2220	PHX	WSR	01/06/03	164.1	2055.9	A		V		03/21/13	166.7	2053.3	A	R	V		-2.6
334848112342901	B-06-03 33DCB	634832	1850	PHX	WSR	01/24/03	596.8	1253.2	A		V		03/21/13	597.6	1252.4	A		V		-0.8
334847112310201	B-06-03 36DDD	614488	1823	PHX	WSR	01/22/03	616.4	1206.6	A		V		03/21/13	613.5	1209.5	A		V		2.9
332257112283801	C-01-02 05BAD	619806	880	PHX	WSR	11/22/02	29.5	850.5	A		V		11/19/12	28.6	851.4	A		V		0.9
332218112291001	C-01-02 06ADD	619807	876	PHX	WSR	11/22/02	28	848	A		V		11/19/12	26.4	849.6	A		V		1.6
332200112294001	C-01-02 06CAD	619808	872	PHX	WSR	11/22/02	22	850	A		V		11/19/12	25.1	846.9	A		V		-3.1
332102112291201	C-01-02 08CDA	614938	898.57	PHX	WSR	12/19/02	50.4	848.17	A		V		12/04/12	50.8	847.77	A		V		-0.4
332047112281501	C-01-02 17AAD2	804376	918	PHX	WSR	01/30/03	71.69	846.31	A		V		12/04/12	70.8	847.2	A		V		0.89
331937112292701	C-01-02 19ACD1	611625	922	PHX	WSR	01/30/03	76	846	A		V		12/12/12	75.7	846.3	A		V		0.3

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
332216112301201	C-01-03 01ADD	619809	870	PHX	WSR	11/18/02	21.89	848.11	A		V		11/19/12	23.3	846.7	A		V		-1.41
332214112304201	C-01-03 01BDD2	619810	866	PHX	WSR	12/02/02	19	847	A		V		11/19/12	18.8	847.2	A		V		0.2
332203112311801	C-01-03 02DAD	619811	862	PHX	WSR	11/18/02	16	846	A		V		11/19/12	15	847	A		V		1
332235112340201	C-01-03 05AAB	619813	879	PHX	WSR	12/02/02	38.59	840.41	A		V		11/14/12	40.7	838.3	A		V		-2.11
332223112362201	C-01-03 06BCB	619815	878	PHX	WSR	11/18/02	37.4	840.6	A		V		11/13/12	40.1	837.9	A		V		-2.7
332223112360601	C-01-03 06BDB	619814	878	PHX	WSR	11/18/02	35.7	842.3	A		V		11/13/12	37.9	840.1	A		V		-2.2
332215112370101	C-01-04 01BDD1	619816	874	PHX	WSR	11/18/02	36.9	837.1	A		V		11/13/12	39.6	834.4	A		V		-2.7
332203112382601	C-01-04 02CBC	619819	869	PHX	WSR	11/18/02	33.59	835.41	A		V		11/13/12	38.5	830.5	A		V		-4.91
332208112375601	C-01-04 02DBB2	619818	870	PHX	WSR	11/18/02	36.09	833.91	A		V		11/13/12	39.3	830.7	A		V		-3.21
332238112385901	C-01-04 03ABB		900	PHX	WSR	01/06/03	56.65	843.35	A		V		12/04/12	55.7	844.3	A		V		0.95
332158112385501	C-01-04 03DCB	619820	870	PHX	WSR	11/18/02	35.5	834.5	A		V		11/13/12	36.9	833.1	A		V		-1.4
332150112400701	C-01-04 04CDD	619822	867	PHX	WSR	11/18/02	40.2	826.8	A		V		11/13/12	34.8	832.2	A		V		5.4
332236112422901	C-01-04 06BBA	607189	919.17	PHX	WSR	12/02/02	72.5	846.67	A		V		06/27/13	72.26	846.91	A		VT		0.24
332125112420301	C-01-04 07BDD	619803	867	PHX	WSR	11/18/02	43.9	823.1	A		V		11/13/12	35.1	831.9	A		V		8.8
332145112412601	C-01-04 08BBA	619823	870	PHX	WSR	11/18/02	37.79	832.21	A		V		11/13/12	31.3	838.7	A		V		6.49
332130112413601	C-01-04 08BCB	635243	870	PHX	WSR	01/10/03	38.9	831.1	A		V		03/20/13	33.1	836.9	A		V		5.8
332051112414001	C-01-04 18AAA	619827	848	PHX	WSR	11/18/02	27.7	820.3	A		V		11/13/12	21.1	826.9	A		V		6.6
331906112380001	C-01-04 26ABB	628186	823	PHX	WSR	01/09/03	24.89	798.11	A		V		12/04/12	25.3	797.7	A		V		-0.41
331846112391501	C-01-04 27BDC	628188	830	PHX	WSR	01/09/03	38.5	791.5	A		V		03/22/13	38.8	791.2	A		V		-0.3
332150112431001	C-01-05 01DCC	619804	870	PHX	WSR	11/18/02	37	833	A		V		11/13/12	29	841	A		V		8
332147112073001	D-01-02 02DCC1		1100	PHX	WSR	11/19/02	89.4	1010.6	A	R	V		11/26/12	96.7	1003.3	A		V		-7.3
332121112110901	D-01-02 07ADD	626355	1020	PHX	WSR	11/18/02	35.65	984.35	A		V		11/29/12	36.7	983.3	A		V		-1.05
332002112093601	D-01-02 16CDD	626598	1070	PHX	WSR	01/10/03	71.59	998.41	A		V		11/26/12	69.4	1000.6	A		V		2.19
332003112103801	D-01-02 17CDD	626453	1025	PHX	WSR	11/18/02	50.45	974.55	A		V		11/26/12	49.8	975.2	A		V		0.65
330204111292401	D-04-08 35DDA	621538	1420	PIN	ELO	10/22/02	135.3	1284.7	A		V		11/13/12	119.8	1300.2	A		V		15.5
330515111245601	D-04-09 15BCA2 PZ1		1565	PIN	ELO	10/30/02	301.7	1263.3	A		V		11/15/12	316.7	1248.3	A		V		-15
330235111252101	D-04-09 33AAD	627609	1456	PIN	ELO	10/23/02	173.2	1282.8	A		V		11/13/12	177.5	1278.5	A		V		-4.3
330435111212601	D-04-10 18DCD PZ1		1565	PIN	ELO	10/30/02	241.65	1323.35	A		V		11/15/12	266.2	1298.8	A		V		-24.55
330435111212602	D-04-10 18DCD PZ2		1565	PIN	ELO	10/30/02	239.5	1325.5	A		V		11/15/12	265.7	1299.3	A		V		-26.2
330311111214201	D-04-10 30BDD	605530	1490	PIN	ELO	10/23/02	158.5	1331.5	A		V		11/16/12	176.8	1313.2	A		V		-18.3
325728111444901	D-05-06 28DBB	608103	1465	PIN	ELO	10/30/02	324.5	1140.5	A		V		10/29/12	322.7	1142.3	A		V		1.8
325712111383001	D-05-07 28DCC2		1412	PIN	ELO	10/23/02	121.2	1290.8	A		V		11/13/12	118.2	1293.8	A		V		3
325618111370501	D-05-07 34DDD	604184	1406	PIN	ELO	10/23/02	96.3	1309.7	A		V		11/13/12	91.3	1314.7	A		V		5
325908111355701	D-05-07W13CAD		1386	PIN	ELO	10/21/02	73.1	1312.9	A		V		11/13/12	73.5	1312.5	A		V		-0.4
330146111292301	D-05-08 02AAA	621952	1419	PIN	ELO	10/22/02	128.5	1290.5	A	K	V		11/13/12	116.2	1302.8	A		V		12.3
325640111334501	D-05-08 31DCC2	622429	1415	PIN	ELO	10/23/02	82.1	1332.9	A		V		11/13/12	73.6	1341.4	A		V		8.5
325940111241001	D-05-09 14CBB	800875	1530	PIN	ELO	10/21/02	242.4	1287.6	A		V		11/13/12	245.5	1284.5	A		V		-3.1
325945111275101	D-05-09 18BDD1	601792	1464	PIN	ELO	10/22/02	158.9	1305.1	A		V		11/13/12	154.3	1309.7	A		V		4.6
325944111275001	D-05-09 18BDD2	601789	1464	PIN	ELO	10/22/02	193.5	1270.5	A		V		11/13/12	176.1	1287.9	A		V		17.4
325848111251101	D-05-09 22CBA	621911	1529	PIN	ELO	10/21/02	227.8	1301.2	A		V		11/13/12			A	P	V		
325807111261601	D-05-09 29ADA	635611	1520	PIN	ELO	10/22/02	171.6	1348.4	A		V		11/13/12	168.4	1351.6	A		V		3.2
325707111271801	D-05-09 31ADD	621904	1505	PIN	ELO	10/22/02	163.3	1341.7	A		V		11/13/12	148.2	1356.8	A		V		15.1
325340111411801	D-06-06 14DDD2	621201	1415	PIN	ELO	10/30/02	249.1	1165.9	A	V	V		10/29/12	297.9	1117.1	A		V		-48.8
325201111430301	D-06-06 22CCD	503113	1410	PIN	ELO	10/30/02	214.2	1195.8	A		V		10/31/12	287	1123	A		V		-72.8
325248111421901	D-06-06 22DDD	622167	1415	PIN	ELO	10/30/02	192.2	1222.8	A		V		10/31/12	307.7	1107.3	A	K	V	RECENTLY PUMPED <30M	-115.5
325316111412701	D-06-06 23ADC	621197	1417	PIN	ELO	10/30/02	244.3	1172.7	A		V		10/29/12	301.8	1115.2	A		V		-57.5
325432111350401	D-06-07 11DDD2		1431	PIN	ELO	10/29/02	88.7	1342.3	A		V		11/21/12	83.6	1347.4	A		V		5.1
325142111370501	D-06-07 34BBC	604669	1461	PIN	ELO	11/08/02	127.9	1333.1	A		V		11/21/12	126.9	1334.1	A		V		1
325117111342801	D-06-07 36DCB		1477.02	PIN	ELO	11/07/02	136.16	1340.86	A		V		01/18/13	128.77	1348.25	A		VT		7.39
325503111284801	D-06-08 11ADA1	617559	1473	PIN	ELO	10/29/02	67.3	1405.7	A		V		11/14/12	64.1	1408.9	A		V		3.2
325342111294701	D-06-08 14CCC	625234	1456	PIN	ELO	10/29/02	104.8	1351.2	A		V		11/14/12	191.8	1264.2	A	P	V		-87
325339111333001	D-06-08 18CDD2	605546	1451	PIN	ELO	10/29/02	95.9	1355.1	A		V		11/15/12	98.4	1352.6	A		V		-2.5
325220111302201	D-06-08 27BDD2	625232	1470	PIN	ELO	10/29/02	111.4	1358.6	A		V		11/14/12	120.1	1349.9	A		V		-8.7
325102111332901	D-06-08 31CDD	612214	1485	PIN	ELO	10/29/02	136	1349	A		V		11/21/12	140.1	1344.9	A		V		-4.1

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE[2]	WY03 REMARK[3]	WY03 METHOD[4]	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
325531111285301	D-06-08S02DAD	617777	1472	PIN	ELO	10/29/02	112.2	1359.8	A		V		11/14/12			A	M	V	WELL HAS BEEN SEALED WITH CONCRETE	
325554111305201	D-06-08S04ADD1	605731	1432	PIN	ELO	10/29/02	56.1	1375.9	A		V		11/21/12	48.8	1383.2	A		V		7.3
325243111263901	D-06-09 29BBA3 PZ1		1542	PIN	ELO	10/30/02	234.9	1307.1	A		V		11/15/12	250.6	1291.4	A		V		-15.7
325243111264001	D-06-09 29BBA4		1542	PIN	ELO	10/30/02	283.25	1258.75	A		V		11/15/12	296.6	1245.4	A		V		-13.35
325634111264801	D-06-09N06DAA	604213	1522	PIN	ELO	10/29/02	204.9	1317.1	A	K	V		11/14/12	246.2	1275.8	A	K	V		-41.3
325047111462501	D-07-05 01ADA		1402	PIN	ELO	10/29/02	42.3	1359.7	A		V		10/29/12	53	1349	A		S		-10.7
325012111434801	D-07-06 04DCC		1430	PIN	ELO	10/28/02	76.2	1353.8	A		V		11/13/12	95.8	1334.2	A		V		-19.6
324825111442301	D-07-06 17DDD2		1440	PIN	ELO	10/28/02	109.9	1330.1	A		V		11/13/12	120.8	1319.2	A		V		-10.9
324626111425001	D-07-06 34BAD	604516	1470.28	PIN	ELO	02/10/03	357	1113.28	A		V		01/18/13	411.35	1058.93	A		VT		-54.35
324550111424901	D-07-06 34CDD2	604518	1475	PIN	ELO	10/28/02	341.8	1133.2	A		V		11/13/12	387.1	1087.9	A		V		-45.3
324917111353601	D-07-07 11CDD		1494	PIN	ELO	10/29/02	179.5	1314.5	A		V		11/14/12	171.7	1322.3	A		V		7.8
324757111350501	D-07-07 23ADD		1513	PIN	ELO	10/28/02	203.5	1309.5	A		V		11/14/12	191.3	1321.7	A		V		12.2
324640111401001	D-07-07 30CCC		1496	PIN	ELO	10/28/02	182.4	1313.6	A		V		11/14/12	172.3	1323.7	A		V		10.1
324558111391301	D-07-07 31DDA	608916	1509	PIN	ELO	10/28/02	400.4	1108.6	A		V		11/14/12	459.9	1049.1	A		V		-59.5
324548111363901	D-07-07 34CDD2		1529	PIN	ELO	10/28/02	234.9	1294.1	A		V		11/14/12	223.3	1305.7	A		V		11.6
325011111322501	D-07-08 05DCC	800830	1501	PIN	ELO	10/29/02	144.5	1356.5	A		V		11/15/12	143.6	1357.4	A		V		0.9
324920111305701	D-07-08 09DDD	621868	1515	PIN	ELO	10/29/02	146.2	1368.8	A		V		11/15/12	150.7	1364.3	A		V		-4.5
324827111323001	D-07-08 17CDD	621861	1520	PIN	ELO	11/15/02	183.6	1336.4	A		V		11/15/12	175.8	1344.2	A		V		7.8
324548111305601	D-07-08 33DDD		1564	PIN	ELO	10/29/02	240.7	1323.3	A		V		11/15/12	211.2	1352.8	A		V		29.5
324917111254701	D-07-09 08DDD PZ1	505967	1550	PIN	ELO	10/30/02	201.95	1348.05	A		V		11/15/12	208.6	1341.4	A		V		-6.65
325007111244801	D-07-09 10BBB PZ1		1596	PIN	ELO	10/30/02	309.05	1286.95	A		V		11/15/12	322.7	1273.3	A		V		-13.65
325007111244802	D-07-09 10BBB PZ2		1596	PIN	ELO	10/30/02	258.5	1337.5	A		V		11/15/12	268.3	1327.7	A		V		-9.8
324216111421901	D-08-06 22DDD2		1518	PIN	ELO	10/28/02	165.3	1352.7	A		V		11/29/12	147.7	1370.3	A		V		17.6
324102111452801	D-08-06 31ADD	615508	1509	PIN	ELO	10/29/02	216.4	1292.6	A		V		04/25/13	217	1292	A		V		-0.6
324035111412301	D-08-06 35DDD2		1542	PIN	ELO	10/29/02	158	1384	A		V		11/29/12	122.8	1419.2	A		V		35.2
324430111371501	D-08-07 09ADD1		1538	PIN	ELO	10/28/02	229.2	1308.8	A		V		11/28/12	216.6	1321.4	A		V		12.6
324320111350801	D-08-07 14DDA		1565	PIN	ELO	10/30/02	324.1	1240.9	A		V		11/28/12	339.1	1225.9	A		V		-15
324458111275001	D-08-08 01DDD	615519	1599	PIN	ELO	10/31/02	330.8	1268.2	A		V		11/28/12	428.6	1170.4	A		V		-97.8
324405111330101	D-08-08 07DDD1		1575	PIN	ELO	10/30/02	233.1	1341.9	A		V		11/28/12	212.4	1362.6	A		V		20.7
324405111302501	D-08-08 10CDD	618245	1587	PIN	ELO	10/31/02	294.2	1292.8	A		V		11/28/12	276.8	1310.2	A		V		17.4
324314111285501	D-08-08 14DDD	622438	1611	PIN	ELO	10/31/02	295.4	1315.6	A		V		11/28/12	281.7	1329.3	A		V		13.7
324312111333001	D-08-08 18CDD1	606865	1583	PIN	ELO	10/30/02	265.1	1317.9	A		V		11/28/12	230.8	1352.2	A		V		34.3
324523111260701	D-08-09 05ACD PZ1		1648	PIN	ELO	10/29/02	378.7	1269.3	A		V		11/15/12	401.9	1246.1	A		V		-23.2
324523111260702	D-08-09 05ACD PZ2		1648	PIN	ELO	10/29/02	379.7	1268.3	A		V		11/15/12	403.9	1244.1	A		V		-24.2
324432111265201	D-08-09 07ADD	622278	1635	PIN	ELO	10/31/02	381.1	1253.9	A		V		11/28/12	400.9	1234.1	A	V	V		-19.8
323727111361001	D-09-07 22DAA	615577	1614	PIN	ELO	10/29/02	224.8	1389.2	A		V		11/27/12	190.9	1423.1	A		V		33.9
323611111343401	D-09-07 25CDD	618276	1646	PIN	ELO	10/29/02	341	1305	A		V		11/26/12	303.8	1342.2	A	K	V		37.2
323611111340901	D-09-07 25DDA2	618267	1652	PIN	ELO	10/29/02	430.3	1221.7	A		V		11/27/12	430.4	1221.6	A		V		-0.1
323943111330801	D-09-08 06DDD	604061	1630	PIN	ELO	10/29/02	296.3	1333.7	A		V		11/27/12	264.7	1365.3	A		V		31.6
323849111312701	D-09-08 09DCC	625733	1654	PIN	ELO	10/30/02	484	1170	A	V	V		11/27/12	444.1	1209.9	A		V		39.9
323635111330001	D-09-08 29BCC	615602	1663.71	PIN	ELO	08/21/03	393.15	1270.56	A		V		06/11/13	389.51	1274.2	A		V		3.64
323541111330501	D-09-08 31DAA	615607	1666	PIN	ELO	10/29/02	413.5	1252.5	A		V		11/27/12	360.3	1305.7	A		V		53.2
323545111285802	D-09-08 35ADD2	615616	1713	PIN	ELO	10/30/02	392	1321	A		V		11/27/12	369.3	1343.7	A		V		22.7
323354111422501	D-10-06 11DDD2	620687	1590	PIN	ELO	10/31/02	352.5	1237.5	A		V		11/26/12	339.8	1250.2	A		V		12.7
323442111392101	D-10-07 08AAA	608906	1593	PIN	ELO	10/31/02	480.3	1112.7	A		V		11/27/12	473.2	1119.8	A	K	V		7.1
323414111235001	D-10-09 10AAD1	620611	1800	PIN	ELO	11/04/02	270.5	1529.5	A		V		01/09/13	249	1551	A		V		21.5
323321111271001	D-10-09 18AAC2	622069	1764	PIN	ELO	11/04/02	303.4	1460.6	A		V		01/09/13	277.5	1486.5	A		V		25.9
323233111245601	D-10-09 21AAD	622057	1797	PIN	ELO	11/04/02	219.5	1577.5	A		V		01/09/13	195.6	1601.4	A		V		23.9
330435112085801	D-04-02 15CBC	612602	1227	PIN	MST	10/28/02	350.85	876.15	A		V		11/27/12	347.6	879.4	A		V		3.25
330355112073001	D-04-02 23ACC2		1187	PIN	MST	10/28/02	142.25	1044.75	A		V		11/27/12	306.5	880.5	A	K	V	METER JUMPING	-164.25
330424111594601	D-04-03 13DDD	621408	1177	PIN	MST	10/30/02	162.4	1014.6	A		V		11/27/12	137.8	1039.2	A	V	V		24.6
330332112041401	D-04-03 20DCD		1165	PIN	MST	10/28/02	88.15	1076.85	A		V		11/27/12	64.9	1100.1	A		V		23.25
330330111581201	D-04-04 20CDD	605948	1193	PIN	MST	10/30/02	196.2	996.8	A	P	V		11/27/12	92.2	1100.8	A		V		104
330147111584401	D-04-04 31DDD	605234	1210	PIN	MST	10/30/02	183.8	1026.2	A	P	V		11/27/12	103.9	1106.1	A	V	V		79.9

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
330148111572101	D-04-04 33CDC	610515	1217	PIN	MST	10/30/02	375.4	841.6	A	P	V		11/27/12	233.9	983.1	A		V		141.5
325901112100401	D-05-02 21BBB	605935	1339	PIN	MST	10/28/02	321.45	1017.55	A		V		11/28/12	297.3	1041.7	A		V		24.15
325833112080401	D-05-02 22DAD	605938	1322	PIN	MST	10/28/02	561.75	760.25	A		V		11/28/12	492.5	829.5	A		V		69.25
325656112064801	D-05-02 36BAD	615354	1316	PIN	MST	11/07/02	564.2	751.8	A		V		01/18/13	505	811	A		VT		59.2
325746111595201	D-05-03 25ADD		1240	PIN	MST	10/29/02	152.5	1087.5	A		V		11/28/12	117.7	1122.3	A		V		34.8
330008111584501	D-05-04 07DDA	623829	1227	PIN	MST	10/29/02	144.2	1082.8	A		V		11/28/12	110.2	1116.8	A		V		34
325928111554401	D-05-04 15ADD	601127	1266	PIN	MST	10/30/02	275.5	990.5	A		V		11/28/12	211.3	1054.7	A		V		64.2
325840111551501	D-05-04 23BDD2	623811	1275	PIN	MST	10/29/02	439	836	A		V		11/28/12	417.2	857.8	A		V		21.8
325622111544201	D-05-04 35DDD	606188	1283	PIN	MST	10/29/02	515.5	767.5	A		V		11/28/12	470.4	812.6	A	S	V		45.1
325639111522101	D-05-05 32CAB	806657	1332	PIN	MST	10/28/02	364.5	967.5	A		V		11/20/12	376.6	955.4	A		V		-12.1
325542112053301	D-06-02E01CDD2		1318	PIN	MST	10/29/02	582.7	735.3	A		V		11/01/12	554.7	763.3	A		V		28
325433112002001	D-06-03 11CDD1		1275	PIN	MST	10/29/02	180.2	1094.8	A		V		11/20/12	130.4	1144.6	A		V		49.8
325406112014201	D-06-03 15BDC	625533	1290	PIN	MST	10/29/02	552.2	737.8	A		V		11/01/12	499.8	790.2	A		V		52.4
325156112015101	D-06-03 27CCC	615407	1365	PIN	MST	10/28/02	658	707	A		V		11/01/12	664.8	700.2	A		V		-6.8
325526111595401	D-06-03S02DDD2	620591	1267	PIN	MST	10/29/02	193.3	1073.7	A		V		11/20/12	156.7	1110.3	A		S		36.6
325102111523901	D-06-04 36DDD	629477	1347	PIN	MST	10/28/02	459.9	887.1	A		V		10/29/12	465	882	A		V		-5.1
325523111554301	D-06-04S04DDD3	087174	1286	PIN	MST	10/29/02	241.7	1044.3	A		V		11/20/12	230.6	1055.4	A		V		11.1
325256111514002	D-06-05 19DDA PZ2		1338	PIN	MST	10/29/02	318.6	1019.4	A		V		11/01/12	318.9	1019.1	A		S		-0.3
324750111544301	D-07-04 23DDD	624090	1360	PIN	MST	10/28/02	430.5	929.5	A	K	V		10/29/12	471.3	888.7	A		V		-40.8
324917111513801	D-07-05 07DDD	613932	1368	PIN	MST	10/28/02	432.3	935.7	A		V		10/29/12	436.2	931.8	A		V		-3.9
325358112153501	D-06-01 16DCD2	804042	1615	PIN	VEK	10/28/02	213.15	1401.85	A		V		11/29/12	213.2	1401.8	A		V		-0.05
325257112152601	D-06-01 21DAC	512922	1630	PIN	VEK	10/28/02	228.25	1401.75	A		V		11/29/12	229	1401	A		V		-0.75
325120112154501	D-06-01 33DCC		1702	PIN	VEK	10/28/02	291.75	1410.25	A		V		11/29/12	292.3	1409.7	A		V		-0.55
324953112151401	D-07-01 10CBC2		1756.4	PIN	VEK	01/14/03	341.8	1414.6	U		T		11/29/12	342.7	1413.7	A		V		-0.9
324754112151201	D-07-01 22CCC2		1850	PIN	VEK	10/28/02	419.6	1430.4	A		V		11/29/12	420.4	1429.6	A		V		-0.8
324401112133801	D-08-01 11CCB		1945.59	PIN	VEK	10/28/02	330.85	1614.74	A		V		11/29/12	330.1	1615.49	A		V		0.75
324208112172401	D-08-01 30DAA		2165	PIN	VEK	10/29/02	526.5	1638.5	A		V		11/29/12	526.1	1638.9	A		V		0.4
324131112130401	D-08-01 35ABD		2002	PIN	VEK	10/29/02	391.3	1610.7	A		V		11/29/12	390.2	1611.8	A	V	V		1.1
323900112130201	D-09-01 13BBD		2048	PIN	VEK	10/29/02	433.5	1614.5	A		V		11/29/12	432.5	1615.5	A		V		1
333718114264701	B-03-21 08ABD	628121	558	PKB	CIB	10/31/02	330.5	227.5	A		V		11/14/12	312.5	245.5	A		V		18
340836114165701	B-09-19 07BBB	601138	420	PKB	CRI	10/31/02	75.6	344.4	A		V		11/01/12	77.4	342.6	A		V		-1.8
333125114065901	B-02-18 09DDC		1495	PKB	LPC	10/31/02	66.09	1428.91	A		V		11/14/12	65.7	1429.3	A		S		0.39
344052112171701	A-15-01 17BCC	524200	4979	PRE	LIC	03/13/03	314	4665	A		V		03/13/13	311.7	4667.3	A		V		2.3
344029112143501	A-15-01 22ABB	519873	5257.81	PRE	LIC	11/18/02	64.01	5193.8	A		V		12/13/12	71.41	5186.4	A		VT		-7.4
343734112295501	B-14-02 05BBC	540148	5305	PRE	LIC	03/10/03	179.2	5125.8	A		V		03/11/13	191.7	5113.3	A		V		-12.5
344233112193801	B-15-01 02ADC	524298	4880	PRE	LIC	03/13/03	332.6	4547.4	A		V		04/19/13	350.5	4529.5	A		V		-17.9
344134112223501	B-15-01 08DAA1 PZ1	587403	4915.24	PRE	LIC	11/25/02	379.58	4535.66	A		V		01/16/13	394.92	4520.32	A		VT		-15.34
343930112235301	B-15-01 19DCD1	523565	4910	PRE	LIC	03/10/03	237.1	4672.9	A		V		11/15/12	218.4	4691.6	A		V		18.7
343930112235601	B-15-01 19DCD2	562286	4910	PRE	LIC	03/10/03	380	4530	A		V		11/15/12	391.4	4518.6	A		V		-11.4
344011112200901	B-15-01 23BAD	805134	4882	PRE	LIC	03/13/03	344.5	4537.5	A		V		03/13/13	358.7	4523.3	A		V		-14.2
343847112190401	B-15-01 25CDB		4927	PRE	LIC	03/13/03	299.2	4627.8	A		V		03/13/13	305.9	4621.1	A		V		-6.7
343854112202701	B-15-01 26CBC1	541372	4949.32	PRE	LIC	02/20/03	402.95	4546.37	A		V		01/16/13	421.38	4527.94	A	S	VT		-18.43
343746112242601	B-15-01 31CCD	619664	5008	PRE	LIC	03/11/03	348.7	4659.3	A		V		03/11/13	351.7	4656.3	A		V		-3
343820112195701	B-15-01 35ABD	560334	4961	PRE	LIC	03/13/03	382.9	4578.1	A		V		03/13/13	396.3	4564.7	A		V		-13.4
344005112300201	B-15-02 19ADA	564575	5140	PRE	LIC	03/12/03	335.7	4804.3	A		V		03/12/13	333.9	4806.1	A		V		1.8
343928112301401	B-15-02 19DDC	524070	5210	PRE	LIC	03/12/03	309.6	4900.4	A		V		03/13/13	313.1	4896.9	A		V		-3.5
342020112270101	B-15-02 22AAB	588619	5007.63	PRE	LIC	11/19/02	371.41	4636.22	A		V		01/16/13	382.2	4625.43	A		VT		-10.79
343905112301401	B-15-02 30ADC	601103	5170	PRE	LIC	03/12/03	143.7	5026.3	A		V		03/13/13	216.5	4953.5	A		V		-72.8
343843112303101	B-15-02 30CDA	511771	5218	PRE	LIC	03/11/03	179.8	5038.2	A		V		03/13/13	248.2	4969.8	A	S	V	WELL 4 IS PUMPING 200M EAST OF THIS POSITION	-68.4
343858112300301	B-15-02 30DAA	809476	5200	PRE	LIC	03/12/03	168.5	5031.5	A		V		03/11/13	241.6	4958.4	A		V		-73.1
343836112302401	B-15-02 30DCB	554078	5200	PRE	LIC	03/11/03	171.8	5028.2	A		V		03/13/13	244.9	4955.1	A	R	V	WELL TURNED OFF FOR MSMT AT ARRIVAL.	-73.1

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
343754112301101	B-15-02 31DDB	635023	5355	PRE	LIC	03/10/03	212.8	5142.2	A		V		03/11/13	224	5131	A		V		-11.2
343755112291501	B-15-02 32ACC	614788	5261	PRE	LIC	03/24/03	274.7	4986.3	A		V		03/11/13			A	D	V	SOUNDER LINE RETURNED COVERED IN RUST DUST	
344241112312201	B-15-03 01DCD	806586	5010	PRE	LIC	03/11/03	96	4914	A		V		03/12/13	154	4856	A	P	V		-58
344147112313201	B-15-03 13ACC	536656	5100	PRE	LIC	03/12/03	219.6	4880.4	A		V		03/12/13	230.4	4869.6	A		V		-10.8
344025112310401	B-15-03 13DDD2	550757	5140	PRE	LIC	03/13/03	285.3	4854.7	A		V		03/12/13	288	4852	A		V		-2.7
344205112322901	B-15-03S02DCD	569837	5075	PRE	LIC	03/13/03	83.8	4991.2	A		V		03/13/13	95.7	4979.3	A		V		-11.9
344727112231201	B-16-01 05CDD	635256	4717	PRE	LIC	03/10/03	188.9	4528.1	A		V		03/12/13	203.6	4513.4	A		V		-14.7
344628112174901	B-16-01 07CDD	606296	4705	PRE	LIC	03/10/03	172.7	4532.3	A		V		03/12/13	186.8	4518.2	A		V		-14.1
344540112202601	B-16-01 14CCC	625108	4833	PRE	LIC	03/10/03	298.1	4534.9	A		V		03/12/13	313.3	4519.7	A		V		-15.2
344501112232601	B-16-01 20CAC	625106	4781	PRE	LIC	03/13/03	226.5	4554.5	A		V		03/13/13	238.2	4542.8	A		V		-11.7
344459112232601	B-16-01 20CBD1	625107	4777	PRE	LIC	03/13/03	50.5	4726.5	A		V		03/13/13	43.5	4733.5	A		V		7
344520112194301	B-16-01 23ACA	587404	4878.63	PRE	LIC	02/20/03	345.75	4532.88	A		V		01/16/13	361.43	4517.2	A		VT		-15.68
344358112182901	B-16-01 25DDA	625105	4961	PRE	LIC	03/13/03	422.2	4538.8	A		V		03/13/13	437.8	4523.2	A		V		-15.6
344429112222001	B-16-01 28BCA	625104	4807	PRE	LIC	03/13/03	280.6	4526.4	A		V		03/13/13	295.8	4511.2	A		V		-15.2
344314112202401	B-16-01 35CBC	805135	4852.28	PRE	LIC	02/20/03	316.35	4535.93	A		V		01/16/13	333.95	4518.33	A		VT		-17.6
344738112253301	B-16-02 01CBD	611903	4590	PRE	LIC	03/10/03	73.2	4516.8	A		V		03/12/13	85.7	4504.3	A		V		-12.5
344809112275201	B-16-02 03BBB1		4539	PRE	LIC	03/11/03	60.2	4478.8	A		V		03/13/13	74.6	4464.4	A		V		-14.4
344723112265701	B-16-02 03DDC4	603665	4590	PRE	LIC	03/12/03	55.1	4534.9	A		V		03/12/13	66.6	4523.4	A		V		-11.5
344704112291601	B-16-02 08ACA		4615	PRE	LIC	03/12/03	115.5	4499.5	A		V		03/13/13	135.1	4479.9	A		V		-19.6
344629112283401	B-16-02 09CDC	634748	4688	PRE	LIC	03/14/03	186.9	4501.1	A		V		03/13/13	199.8	4488.2	A		V		-12.9
344653112264901	B-16-02 11CBB1	602559	4621.94	PRE	LIC	11/19/02	58.33	4563.61	A		V		09/17/13	67.08	4554.86	A		VT		-8.75
342658112244601	B-16-02 12ADD	606295	4648	PRE	LIC	03/12/03	123.6	4524.4	A		V		03/13/13	138	4510	A		V		-14.4
344645112253401	B-16-02 12CBD	606300	4601.85	PRE	LIC	02/20/03	86.98	4514.87	A		V		01/17/13	101.52	4500.33	A		VT		-14.54
344603112264001	B-16-02 14BCC	606022	4659	PRE	LIC	03/13/03	156.3	4502.7	A	V	V		03/11/13	168.3	4490.7	A		V		-12
344540112264501	B-16-02 14CCC	606023	4680	PRE	LIC	03/13/03	187	4493	A		V		03/14/13	201.4	4478.6	A		V		-14.4
344543112262201	B-16-02 14CDA	606021	4674	PRE	LIC	03/13/03	172.8	4501.2	A	V	V		03/11/13	184.1	4489.9	A		V		-11.3
344613112271901	B-16-02 15ACB	606691	4670	PRE	LIC	03/13/03	174.7	4495.3	A		V		03/11/13	187.1	4482.9	A		V		-12.4
344622112275701	B-16-02 16AAD	504619	4675	PRE	LIC	03/12/03	168	4507	A		V		03/12/13	181.2	4493.8	A		V		-13.2
344607112294301	B-16-02 17BDC	629377	4700	PRE	LIC	03/12/03	186.3	4513.7	A		V		03/13/13	199.9	4500.1	A		V		-13.6
344535112283001	B-16-02 21BAA2	604725	4746.47	PRE	LIC	02/19/03	239.35	4507.12	A		V		01/16/13	253.58	4492.89	A		VT		-14.23
344507112270101	B-16-02 22DBA	606024	4726	PRE	LIC	03/12/03	212	4514	A		V		03/14/13	225.9	4500.1	A		V		-13.9
344458112270601	B-16-02 22DBD	606025	4733	PRE	LIC	03/11/03	223	4510	A		V		03/14/13	238.8	4494.2	A		V		-15.8
344357112280901	B-16-02 28DDC	628072	4818.78	PRE	LIC	02/21/03	310.01	4508.77	A		V		01/16/13	323.75	4495.03	A		VT		-13.74
344347112310701	B-16-02 31BBB1	632216	4902	PRE	LIC	03/24/03	115.3	4786.7	A		V		03/13/13	146.7	4755.3	A		V		-31.4
344314112285201	B-16-02 33CBC	529457	4910	PRE	LIC	03/24/03	354	4556	A		V		03/13/13	357.2	4552.8	A		V		-3.2
344347112271001	B-16-02 34ABA2	502645	4800	PRE	LIC	03/10/03	284	4516	A		V		03/13/13	297.6	4502.4	A		V		-13.6
344348112331401	B-16-03 35BBB	602609	5200	PRE	LIC	03/11/03	126.4	5073.6	A		V		03/12/13	136.4	5063.6	A		V		-10
344846112271401	B-17-02N34ACC	639281	4510	PRE	LIC	03/11/03	13.3	4496.7	A		V		03/12/13			A	D	V	DRY AT 18.3 FT	
344819112265701	B-17-02N34DDD1	608242	4513.79	PRE	LIC	08/27/03	28.05	4485.74	A		V		06/04/13	40.13	4473.66	A		VT		-12.08
344819112265601	B-17-02N34DDD3	633990	4515	PRE	LIC	03/11/03	38.5	4476.5	A		V		03/11/13	49	4466	A		V		-10.5
344821112301701	B-17-02S31ABA	802799	4870	PRE	LIC	03/11/03	501	4369	A		V		03/13/13	507.6	4362.4	A		V		-6.6
344820112272701	B-17-02S34ABB	609766	4516	PRE	LIC	03/11/03	9.7	4506.3	A		V		03/14/13	22.1	4493.9	A		V		-12.4
343153112122901	A-13-01 01DCA		4740	PRE	UAG	03/10/03	208.8	4531.2	A		V		03/15/13	209.5	4530.5	A		V		-0.7
343157112135401	A-13-01 02CAD	638550	4603	PRE	UAG	03/10/03	85	4518	A	P	V		03/11/13	83	4520	A		V		2
343017112124801	A-13-01 13CAB		4620	PRE	UAG	03/10/03	237.6	4382.4	A		V		03/12/13	155.2	4464.8	A		V		82.4
343028112135702	A-13-01 14BDC2	533639	4500	PRE	UAG	03/10/03	36.9	4463.1	A	T	V		03/12/13	32.1	4467.9	A		V	WELL OFF 2 WEEKS	4.8
343652112172101	A-14-01 08BBB	536623	4859.4	PRE	UAG	11/20/02	200.96	4658.44	A		V		01/15/13	209.53	4649.87	A	Z	VT		-8.57
343434112145201	A-14-01 22CAD	613023	4720	PRE	UAG	03/11/03	76.9	4643.1	A		V		03/12/13	82.6	4637.4	A		V		-5.7
343428112123701	A-14-01 24DCB	614220	4928	PRE	UAG	03/11/03	301.7	4626.3	A		V		03/12/13	303	4625	A		V		-1.3
343353112144101	A-14-01 27ACC	613024	4660.63	PRE	UAG	11/18/02	42.63	4618	A		V		01/15/13	43.79	4616.84	A		VT		-1.16
343415112161401	A-14-01 28BBB	613020	4714.98	PRE	UAG	01/15/03	78.9	4636.08	A		V		03/12/13	97.3	4617.68	A		V		-18.4

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE[2]	WY03 REMARK[3]	WY03 METHOD[4]	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
343337112152901	A-14-01 28DAC2	550395	4666	PRE	UAG	03/10/03	99.7	4566.3	A		V		03/14/13	127.8	4538.2	A		V	WELL OFF ONE WEEK	-28.1
343244112150901	A-14-01 34CCA	631279	4650	PRE	UAG	03/10/03	76.5	4573.5	A		V		04/09/13	83.1	4566.9	A		V		-6.6
344157112150701	A-15-01 10BBB2	545863	5335	PRE	UAG	03/14/03	130.4	5204.6	A		V		03/11/13	75.9	5259.1	A		V		54.5
343906112154701	A-15-01 28ACC	614238	5067.21	PRE	UAG	11/18/02	316.6	4750.61	A		V		01/15/13	322.4	4744.81	A		VT		-5.8
343909112163201	A-15-01 29ADB		5076	PRE	UAG	03/11/03	382	4694	A		V		03/11/13	390.7	4685.3	A		V		-8.7
343655112192201	B-14-01 01CCC	539499	5025	PRE	UAG	03/12/03	338.3	4686.7	A		V		03/14/13	351.5	4673.5	A		V		-13.2
343634112205201	B-14-01 10ACA	535213	5000	PRE	UAG	03/12/03	680.5	4319.5	A		V		03/14/13	755	4245	A		V		-74.5
343641112204202	B-14-01 10ADB1 PZ1	519687	5018.34	PRE	UAG	05/21/03	704.92	4313.42	A		V		06/05/13	706.8	4311.54	A		VT		-1.88
343641112204203	B-14-01 10ADB1 PZ2		5015	PRE	UAG	03/12/03	324.5	4690.5	A	S	V		03/14/13	329.3	4685.7	A		V		-4.8
343640112204201	B-14-01 10ADB2	572698	5015	PRE	UAG	03/12/03	667.7	4347.3	A	S	V		03/14/13	700.8	4314.2	A		V		-33.1
343610112203201	B-14-01 10DDA	523346	5082	PRE	UAG	03/12/03	721.2	4360.8	A	K	V		03/14/13	578.5	4503.5	A		V		142.7
343637112195701	B-14-01 11ACB	612330	5043.72	PRE	UAG	03/11/03	342.1	4701.62	A		V		03/15/13	347.7	4696.02	A		V		-5.6
343628112193001	B-14-01 11DAA	612329	5043.52	PRE	UAG	03/12/03	329.8	4713.72	A		V		03/14/13	336.8	4706.72	A		V		-7
343601112205301	B-14-01 15ABA	613028	5117.42	PRE	UAG	03/11/03	724.6	4392.82	A	K	V		03/14/13	751.5	4365.92	A	K	V		-26.9
343453112203401	B-14-01 22ADA	613045	5184.1	PRE	UAG	03/10/03	342.6	4841.5	A		V		11/15/12	336	4848.1	A		V		6.6
343343112183801	B-14-01 25DAC	613029	4933	PRE	UAG	03/11/03	64.2	4868.8	A		V		03/12/13	57.6	4875.4	A		V		6.6
352904113333401	B-24-12 09AAD	607888	4302	PSC	PSC	11/12/02	222.5	4079.5	A		V		11/16/12	221.8	4080.2	A		V		0.7
352740113355501	B-24-12 17CBC	609483	4255	PSC	PSC	10/21/02	147.8	4107.2	A		V		11/16/12	146.5	4108.5	A		V		1.3
333121113413001	B-02-14 10CDC	600171	1350	RAN	RAN	11/01/02	336.39	1013.61	A		V		11/13/12	347.7	1002.3	A		V		-11.31
333737113460801	B-03-15 02DAC	601120	1210	RAN	RAN	10/30/02	209.69	1000.31	A		V		11/13/12	214.3	995.7	A		V	GATE OPEN	-4.61
333910113432801	B-04-14 32BAA	600131	1238	RAN	RAN	10/30/02	313	925	A		V		11/13/12	343.7	894.3	A		V	TURBINE HAS BEEN REMOVED.	-30.7
334121113450101	B-04-15 13ADA	600133	1239	RAN	RAN	10/30/02	370	869	A		V		11/13/12	374.2	864.8	A		V		-4.2
334118113463501	B-04-15 14CAA	600129	1181.1	RAN	RAN	02/25/03	240.77	940.33	A		V		02/05/13	289.4	891.7	A	K	VT		-48.63
334122113510901	B-04-15 18BCC	620833	1135	RAN	RAN	10/30/02	139.8	995.2	A		V		11/13/12	145	990	A		V		-5.2
334357113473201	B-05-15 35BDD2	801955	1208	RAN	RAN	10/28/02	309.7	898.3	A		V		10/23/12	341.1	866.9	A		V		-31.4
334722113562001	B-05-16 09BCC	600166	1083	RAN	RAN	10/31/02	141.6	941.4	A		V		10/31/12	143.4	939.6	A		V		-1.8
334422113524001	B-05-16 25DCC	614479	1123	RAN	RAN	10/31/02	156.7	966.3	A		V		10/23/12	165.4	957.6	A		V		-8.7
335024113485701	B-06-15 27BBA	614505	1341	RAN	RAN	10/28/02	435.39	905.61	A		V		10/31/12	438.1	902.9	A		V		-2.71
335257113520601	B-06-16 12AAA	613120	1207	RAN	RAN	10/28/02	286.89	920.11	A		V		10/31/12	286.7	920.3	A		V		0.19
335054113564301	B-06-16 20ACD	505096	1055	RAN	RAN	10/31/02	118.19	936.81	A		V		10/31/12	122.2	932.8	A		V		-4.01
335102113541301	B-06-16 22ADA	613119	1121	RAN	RAN	10/28/02	188.89	932.11	A		V		10/31/12	192.7	928.3	A		V		-3.81
335235113585701	B-06-17 12DBB3	502760	1005	RAN	RAN	10/31/02	83.69	921.31	A		V		10/31/12	85.2	919.8	A		V		-1.51
335556114000101	B-07-17 23CAC2	645951	960	RAN	RAN	10/28/02	74.8	885.2	A		V		04/01/13	70	890	A	R	V		4.8
342753113511901	B-13-15 17CAC2		2080	SAC	SAC	10/23/02	667	1413	A		V		10/24/12	666.4	1413.6	A		V		0.6
343923113583301	B-15-16 07BDD	611808	2341	SAC	SAC	10/23/02	934.8	1406.2	A		V		10/24/12	934.2	1406.8	A		V		0.6
343940114170301	B-15-19 07AAB	629451	1472	SAC	SAC	10/24/02	479.7	992.3	A		V		10/25/12	483.1	988.9	A		V		-3.4
344347114180601	B-16-20 13BCD	616522	980	SAC	SAC	10/24/02	42.3	937.7	A		V		10/23/12	36.2	943.8	A		V		6.1
345801114082801	B-18-18 01DCD		2181	SAC	SAC	10/23/02	527.7	1653.3	A		V		10/23/12	526.2	1654.8	A		V		1.5
350818114063901	B-20-17E07AAB2	529524	2864	SAC	SAC	10/23/02	180.9	2683.1	A		V		10/24/12	181	2683	A		V		-0.1
350633114103701	B-20-18 22AAC		2495.57	SAC	SAC	02/12/03	743.78	1751.79	A		V		01/24/13	745.96	1749.61	A		VT		-2.18
351123114032201	B-21-17 24CBC	612663	3330	SAC	SAC	10/23/02	138.4	3191.6	A		V		10/24/12	140.3	3189.7	A		V		-1.9
350937114044201	B-21-17 34DDB2	646882	3050	SAC	SAC	10/23/02	60.6	2989.4	A		V		10/23/12	59	2991	A		V		1.6

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
351340114125401	B-21-18 09BBA	610757	2832	SAC	SAC	10/24/02	1061.5	1770.5	A		V		10/23/12	1042	1790	A		V		19.5
332507110425001	A-01-16 19BAD	623061	3730	SAF	GSK	02/24/03	718.9	3011.1	A		V		11/02/12	724.3	3005.7	A		V		-5.4
332128110432101	D-01-16 09CBC UNSURV	526251	3510	SAF	GSK	02/24/03	646.4	2863.6	A		V		11/02/12	678.4	2831.6	A		V		-32
330240110031101	D-04-22 35ADA	611941	2857.54	SAF	SAF	02/24/03	19.6	2837.94	A		V		10/29/12	25.6	2831.94	A		V		-6
330135109583801	D-05-23 03CAB1	624721	2790	SAF	SAF	02/24/03	73.59	2716.41	A		V		10/29/12	75.8	2714.2	A		V		-2.21
325742109560901	D-05-23 25DCD		2778	SAF	SAF	02/27/03	53.29	2724.71	A		V		10/29/12	54.1	2723.9	A		V		-0.81
325822109503601	D-05-24 25BBC	637301	3065	SAF	SAF	02/25/03	158.6	2906.4	A		V		11/01/12	160.4	2904.6	A		V		-1.8
325045109384101	D-07-26 01CCD		3135	SAF	SAF	02/26/03	79.09	3055.91	A		V		11/01/12	90.2	3044.8	A		V		-11.11
324908109433001	D-07-26 18CDA1	611966	2961.14	SAF	SAF	02/25/03	58.59	2902.55	A		V		10/30/12	59.1	2902.04	A		V		-0.51
325115109324501	D-07-27 02ADD	605867	3065	SAF	SAF	02/26/03	52.79	3012.21	A	S	V		11/01/12	51.6	3013.4	A		V		1.19
324113109415401	D-08-26 33CDC1		3341.21	SAF	SAF	02/19/03	36.04	3305.17	A		V		10/09/12	45.94	3295.27	A		VT		-9.9
324303109283601	D-08-28 22CCB	615569	3340	SAF	SAF	02/26/03	74	3266	A		V		10/29/12	87.5	3252.5	A		V		-13.5
323240109384601	D-10-26 25CBA	644135	4089	SAF	SAF	02/25/03	628.09	3460.91	A		V		10/30/12	636.7	3452.3	A		V		-8.61
315836109011501	27S 21W 07 232A		4019	SAF	SSI	10/29/02	124.19	3894.81	A		V		11/07/12	132.3	3886.7	A		V		-8.11
315846109011601	27S 21W S06 443		4001	SAF	SSI	10/29/02	118.52	3882.48	A		S		11/07/12	125.4	3875.6	A	P	V		-6.88
314935109015901	28S 21W 31 133		4137	SAF	SSI	10/29/02	106.9	4030.1	A		V		11/07/12	109.3	4027.7	A		V		-2.4
314750109024501	29S 22W 11 243A		4164	SAF	SSI	10/29/02	135.96	4028.04	A		S		11/07/12	138.4	4025.6	A		V		-2.44
322545109194001	D-11-30 31CCA	615823	3473	SAF	SSI	10/31/02	21.98	3451.02	A		S		11/06/12	47.9	3425.1	A	P	V		-25.92
322110109362701	D-12-27 32AAB1		3979	SAF	SSI	10/31/02	130.6	3848.4	A		V		11/06/12	131.8	3847.2	A		V		-1.2
322301109300901	D-12-28 17DDD	609816	3724	SAF	SSI	10/31/02	261.5	3462.5	A		V		11/06/12			A	O	V	OBST @ 262.4FT	
322116109262201	D-12-28 25DCC		3645	SAF	SSI	02/19/03	268.35	3376.65	A		V		11/06/12	301	3344	A	K	V		-32.65
321812109264401	D-13-28 13BCD	610898	3732.16	SAF	SSI	11/05/02	103.3	3628.86	A		V		02/05/13	111.59	3620.57	A		VT		-8.29
321721109286001	D-13-28 22BCC	618342	3838	SAF	SSI	10/31/02	518.79	3319.21	A		V		11/06/12	542	3296	A		V		-23.21
321648109202001	D-13-29 24DCC2	621310	3655	SAF	SSI	10/31/02	126.5	3528.5	A		V		11/06/12	166.6	3488.4	A		V		-40.1
321637109235401	D-13-29 28BBB		3738	SAF	SSI	10/30/02	157.89	3580.11	A		V		11/06/12	167.4	3570.6	A		V		-9.51
321857109170101	D-13-30 09ACD2		3566	SAF	SSI	10/30/02	47.7	3518.3	A		V		11/06/12	50.2	3515.8	A		V		-2.5
321830109165001	D-13-30 15BBB	622807	3569	SAF	SSI	10/30/02	64.2	3504.8	A		S		11/06/12	62.9	3506.1	A		V		1.3
321607109114101	D-13-31 29DDA	805565	3620	SAF	SSI	10/30/02	40.93	3579.07	A		S		11/06/12	47.7	3572.3	A		V		-6.77
321355109120501	D-14-31 08ABC1		3632	SAF	SSI	10/30/02	49.09	3582.91	A		V		11/08/12	57	3575	A		V		-7.91
321210109132001	D-14-31 19BAC	615982	3713	SAF	SSI	10/30/02	73.4	3639.6	A		S		11/08/12	81	3632	A		V		-7.6
321200109094501	D-14-31 22ADC	612633	3693	SAF	SSI	10/30/02	173	3520	A	K	V		11/08/12			A	P	V		
321016109095601	D-14-31 34ACC		3774	SAF	SSI	10/30/02	199.39	3574.61	A		V		11/08/12	247.8	3526.2	A	S	V		-48.41
321053109071801	D-14-32 30CCB	613339	3730	SAF	SSI	10/30/02	211.3	3518.7	A		V		11/08/12	243.5	3486.5	A		V		-32.2
320805109085001	D-15-31 11DCC	605286	3904	SAF	SSI	10/30/02	220.19	3683.81	A		V		11/08/12	265.2	3638.8	A		V		-45.01
320051109050601	D-16-32 21CCB		4088	SAF	SSI	10/29/02	196.19	3891.81	A		V		11/07/12	211.7	3876.3	A		V		-15.51
315012109030401	D-18-32 26BBC		4125	SAF	SSI	10/29/02	97.4	4027.6	A		V		11/07/12	99.9	4025.1	A		V		-2.5
314854109025601	D-18-32 35CBA		4153	SAF	SSI	10/29/02	121.3	4031.7	A		V		11/07/12	120.8	4032.2	A		V		0.5
314238109050701	D-20-32 09BBB	602723	4297	SAF	SSI	10/29/02	210.39	4086.61	A	P	V		11/07/12	194.5	4102.5	A		V		15.89
312006109180601	D-24-30 16CCC	616444	3796	SBV	SBV	02/26/03	30.48	3765.52	A		S		11/07/12	30.7	3765.3	A		V		-0.22
314716111113101	D-19-11 11CAC	616245	3825	SCA	SCA	01/16/03	213	3612	A		V		01/07/13	211.1	3613.9	A		S		1.9
314526111114901	D-19-11 23CCB	625265	3555	SCA	SCA	01/16/03	175.69	3379.31	A		V		01/07/13	175.6	3379.4	A		S		0.09
314413111030001	D-19-13 31ABD		3042	SCA	SCA	01/14/03	65	2977	A		V		08/13/13	95.6	2946.4	A		S		-30.6
314024111125301	D-20-11 21DAA		3449	SCA	SCA	01/16/03	49.65	3399.35	A		V		01/07/13	64.9	3384.1	A		S		-15.25

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
314321111075001	D-20-12 05AAC	640384	3226.08	SCA	SCA	09/09/03	15.45	3210.63	A		S		10/02/12	16.36	3209.72	A		VT		-0.91
314318111075401	D-20-12 05ADB2	621510	3224	SCA	SCA	01/16/03	20.47	3203.53	A		S		01/07/13	22	3202	A		S		-1.53
314303111032801	D-20-13 06CBA	627932	3064	SCA	SCA	01/15/03	43	3021	A		V		01/09/13	57.7	3006.3	A		S		-14.7
314214111025601	D-20-13 07ACD	617275	3063	SCA	SCA	03/20/03	18.85	3044.15	A		S		02/13/13	32	3031	A		V		-13.15
313845111023101	D-20-13 32BCC	610533	3149	SCA	SCA	03/20/03	27.2	3121.8	A		S		12/12/12	32.3	3116.7	A		VT		-5.1
313538111181801	D-21-10 22ABA		3742	SCA	SCA	01/16/03	92.8	3649.2	A		V		01/07/13	95.8	3646.2	A		S		-3
313539111033701	D-21-12 24AAA	509495	3380	SCA	SCA	01/15/03	154.6	3225.4	A		V		12/12/12	156	3224	A		V		-1.4
313735111023701	D-21-13 05CCB	608125	3180.46	SCA	SCA	02/12/03	14.97	3165.49	A		V		10/03/12	16.64	3163.82	A		VT		-1.67
313506111030701	D-21-13 19DBC	617995	3240	SCA	SCA	01/15/03	25.29	3214.71	A		V		01/08/13	25.7	3214.3	A		S		-0.41
313408111025601	D-21-13 30DCA		3250	SCA	SCA	01/14/03	11.5	3238.5	A		V		02/13/13	11.3	3238.7	A		S		0.2
313120111005801	D-22-13 09DCC UNSURV	605206	3333	SCA	SCA	09/11/03	17.8	3315.2	A		V		12/12/12	19.5	3313.5	A		V		-1.7
312946111025301	D-22-13 19DCC1 UNS	524009	3518	SCA	SCA	01/15/03	195.19	3322.81	A	R	V		05/30/13	200.5	3317.5	A	S	V		-5.31
312818110594501	D-22-13 34ADD UNSURV	619367	3401	SCA	SCA	01/15/03	17.02	3383.98	A		V		01/10/13	18	3383	A		S		-0.98
312756110584801	D-22-13 35DCD UNSURV	619351	3430	SCA	SCA	01/15/03	24.96	3405.04	A		V		01/10/13	29.1	3400.9	A		S		-4.14
312823110573501	D-22-13 36AD UNSURV	619352	3471	SCA	SCA	01/14/03	55	3416	A		V		02/13/13	51.7	3419.3	A		S		3.3
312740110581301	D-23-13 01BBD UNSURV	506506	3444.16	SCA	SCA	09/10/03	31.76	3412.4	A		S		10/03/12	30.52	3413.64	A		S		1.24
312630110575301	D-23-13 12ACD UNSURV	603437	3485	SCA	SCA	01/15/03	23.48	3461.52	A		V		01/09/13	23.4	3461.6	A		S		0.08
312423110574901	D-23-13 24DDC	500951	3597	SCA	SCA	01/17/03	52	3545	A		V		01/08/13	59.5	3537.5	A		V	TURBINE GONE. NOW SUB PUMP	-7.5
312301111024801	D-23-13 31DAB	634030	4040	SCA	SCA	01/15/03	307.4	3732.6	A		V		01/08/13	316.6	3723.4	A		S		-9.2
312316110574801	D-23-13 36ADB	603432	3675	SCA	SCA	01/17/03	160.1	3514.9	A	P	V		01/08/13	126.3	3548.7	A		S		33.8
312308110580601	D-23-13 36BDD	506340	3700.19	SCA	SCA	01/15/03	141.83	3558.36	A		V		02/07/13	149.93	3550.26	A		VT		-8.1
312523110542801	D-23-14 15CCB1	607491	3554	SCA	SCA	01/14/03	47.3	3506.7	A		V		12/12/12	60.1	3493.9	A	S	S		-12.8
312545110552801	D-23-14 16BCC	619649	3500	SCA	SCA	03/20/03	15.5	3484.5	A		V		02/13/13	25.7	3474.3	A		S		-10.2
312513110505401	D-23-15 19ABB	805426	3895	SCA	SCA	01/16/03	139.1	3755.9	A		V		01/08/13	142.4	3752.6	A		V		-3.3
312240110511001	D-23-15 31CDC		3682	SCA	SCA	01/14/03	23.95	3658.05	A		V		02/13/13	23.9	3658.1	A		S		0.05
312204110575601	D-24-13 01DBD	571751	3827	SCA	SCA	03/21/03	258.3	3568.7	A	S	V		02/13/13	288.9	3538.1	A	S	S		-30.6
312017110573001	D-24-14 18CBC	603434	3960	SCA	SCA	01/17/03	197.89	3762.11	A		V		01/08/13	203.6	3756.4	A		V		-5.71
312147110482801	D-24-15 04DDD1UNSURV	625340	4018	SCA	SCA	01/17/03	98.3	3919.7	A		V		01/09/13	84.6	3933.4	A		V		13.7
312123110484201	D-24-15 04DDD2UNSURV	625346	4018	SCA	SCA	01/17/03	279	3739	A		V		01/09/13	275.6	3742.4	A		V		3.4
312230110503301	D-24-15 06AAD	803465	3663.85	SCA	SCA	01/14/03	29.21	3634.64	A		S		02/07/13	28.65	3635.2	A		VT		0.56
312048110504901	D-24-15 18BAD UNSURV		3715	SCA	SCA	01/16/03	11.46	3703.54	A		S		12/12/12	14.6	3700.4	A		S	RIVER DRY	-3.14
340642110554801	A-09-14 20ACA	644398	5165	SRB	USR	10/21/02	21.7	5143.3	A		V		10/22/12	21.1	5143.9	A		V		0.6
312941110341601	D-22-17 25BDA2	630082	5085	SRF	SRF	11/07/02	28.96	5056.04	A		V		01/09/13	30.7	5054.3	A		V		-1.74
312848110384801	D-22-17 31ADA	611862	5145	SRF	SRF	11/07/02	115.8	5029.2	A		V		01/09/13	127.4	5017.6	A		S		-11.6
312207110400301	D-24-16 12BAB UNSURV	640950	4998	SRF	SRF	11/07/02	203.19	4794.81	A		V		01/09/13	214.2	4783.8	A		V		-11.01
312109110352501	D-24-17 14BAB		4645	SRF	SRF	11/07/02	7.57	4637.43	A		S		01/09/13	6.27	4638.73	A		S		1.3
334545113142001	B-05-09 19BDD	612691	1996	TIG	TIG	11/01/02	27.75	1968.25	A		V		11/01/12			A	Z	V	BEE'S AT MP	
334653111154101	A-05-11 18AAA	600998	2145	TON	TON	10/21/02	13.34	2131.66	A		S		10/25/12	6.2	2138.8	A		S		7.14
335205111180601	A-06-10 14ABC2		2316	TON	TON	10/21/02	18.23	2297.77	A		S		10/25/12	15.9	2300.1	A		S		2.33
335322111150701	A-06-11 05CAD	601024	2720	TON	TON	10/21/02	56.8	2663.2	A		V		10/25/12	70.2	2649.8	A		S		-13.4
340654111211201	A-09-10 20BAA	601014	3190	TON	TON	10/24/02	68.59	3121.41	A		V		10/25/12	69.7	3120.3	A		S		-1.11
340458111211801	A-09-10 32BDB	601022	3030	TON	TON	10/24/02	40.29	2989.71	A		S		10/25/12	39.2	2990.8	A		S		1.09
341408111212001	A-10-10 05CCA	620875	4820	TON	TON	11/05/02	44.09	4775.91	A		V		11/07/12	35.2	4784.8	A		V		8.89

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
341336111174801	A-10-10 11ACB	509660	4821.29	TON	TON	11/05/02	11.97	4809.32	A		V		10/02/12	9.1	4812.19	A		VT		2.87
341447111182501	A-11-10 35CCC	631835	5060	TON	TON	11/05/02	129	4931	A		V		11/07/12	122.9	4937.1	A		V		6.1
341743110582401	A-11-13 34CBA2	569391	6145	TON	TON	10/21/02	148.8	5996.2	A		V		10/22/12	89.5	6055.5	A		V		59.3
324919110585701	D-07-13 15CAC1		3600	TUC	AVR	11/08/02	33.65	3566.35	A	P	S		01/08/13	27.3	3572.7	A		V		6.35
324304111082101	D-08-12 19DDA	804174	2732	TUC	AVR	11/08/02	18.69	2713.31	A		S		01/08/13	14.7	2717.3	A		V		3.99
323753111204601	D-09-10 19AAA	804195	1840	TUC	AVR	11/04/02	197.6	1642.4	A		V		01/07/13	178.9	1661.1	A		V		18.7
323623111201201	D-09-10 29CDA PZ1	504993	1850	TUC	AVR	10/29/02	271.89	1578.11	A		V		11/15/12	250.2	1599.8	A		V		21.69
323623111201202	D-09-10 29CDA PZ2	504993	1850	TUC	AVR	10/29/02	222.89	1627.11	A		V		11/15/12	200.1	1649.9	A		V		22.79
323759111011501	D-09-13 20DBD	615648	3360	TUC	AVR	11/12/02	306.04	3053.96	A		V		01/08/13	306.1	3053.9	A		V		-0.06
323438111194501	D-10-10 05DAD	624751	1855	TUC	AVR	11/04/02	223.7	1631.3	A		V		01/09/13	201	1654	A		V		22.7
323152111200401	D-10-10 20DCC	618728	1862	TUC	AVR	11/04/02	196.89	1665.11	A		V		01/09/13	173.9	1688.1	A		V		22.99
323338111141501	D-10-11 17CAB2	638306	2140	TUC	AVR	11/04/02	457.4	1682.6	A		V		01/09/13	436.2	1703.8	A		V		21.2
323307111151901	D-10-11 19BDB PZ1	504994	2043	TUC	AVR	10/29/02	370.29	1672.71	A		V		11/15/12	349.5	1693.5	A		V		20.79
323307111151902	D-10-11 19BDB PZ2	504994	2043	TUC	AVR	10/29/02	370.5	1672.5	A		V		11/15/12	348.5	1694.5	A		V		22
322732111181701	D-11-10 22ADD1	626687	1914	TUC	AVR	11/04/02	181.1	1732.9	A		V		01/07/13	158.5	1755.5	A		V		22.6
322621111161301	D-11-10 25DDA2	615764	1953	TUC	AVR	11/04/02	184	1769	A		V		01/07/13	170.3	1782.7	A	V	V	BLACK CRUDE	13.7
322636111181401	D-11-10 27DAA		1935	TUC	AVR	11/04/02	204.69	1730.31	A		V		01/07/13	179.2	1755.8	A		V		25.49
322924111131801	D-11-11 09ACD PZ1	504996	2043	TUC	AVR	10/29/02	342.2	1700.8	A		V		11/15/12	317.1	1725.9	A		V		25.1
322924111131802	D-11-11 09ACD PZ2	504996	2043	TUC	AVR	10/29/02	333.5	1709.5	A		V		11/15/12	299.3	1743.7	A		V		34.2
322923111112101	D-11-11 11DCD	600235	2148	TUC	AVR	11/04/02	435.5	1712.5	A		V		01/09/13	407.9	1740.1	A		V		27.6
322805111133101	D-11-11 16CDD2	604802	1968	TUC	AVR	11/04/02	225.5	1742.5	A		V		01/07/13	195.7	1772.3	A		V		29.8
322554111115801	D-11-11 34ADD2	604805	2008	TUC	AVR	11/04/02	228.8	1779.2	A		V		01/07/13	209.5	1798.5	A		V		19.3
322219111172801	D-12-10 23DAB	621364	2025.8	TUC	AVR	11/04/02	266.1	1759.7	A		V		01/07/13	250.8	1775	A		V		15.3
322444111095401	D-12-11 01DDA PZ1	508652	2041	TUC	AVR	10/29/02	212.19	1828.81	A		V		11/15/12	207.1	1833.9	A		V		5.09
322444111095402	D-12-11 01DDA PZ2	508652	2041	TUC	AVR	10/29/02	92.59	1948.41	A		V		11/15/12	85.9	1955.1	A		V		6.69
322245111140401	D-12-11 20AAA	504485	2019	TUC	AVR	11/08/02	239.6	1779.4	A		V		01/07/13	217.2	1801.8	A		V		22.4
321728111193401	D-13-10 16DCD	615881	2136	TUC	AVR	11/04/02	392.79	1743.21	A		V		01/07/13			A	D	V	PROBE RETURNED TO SURFACE PLUGGED WITH SEDIMENT	
321851111112601	D-13-11 11ACC2		2393	TUC	AVR	11/04/02	210.69	2182.31	A	R	V		01/07/13	200.5	2192.5	A		V		10.19
321806111150401	D-13-11 17BCB PZ1	508422	2144	TUC	AVR	10/29/02	349.14	1794.86	A		V		11/15/12	338.5	1805.5	A		V		10.64
321806111150402	D-13-11 17BCB PZ2	508422	2144	TUC	AVR	10/29/02	353.79	1790.21	A		V		11/15/12	340.1	1803.9	A		V		13.69
321256111162901	D-14-10 12BAC	633627	2240	TUC	AVR	11/04/02	393.6	1846.4	A		V		01/07/13	392	1848	A		V		1.6
321220111111201	D-14-11 14DDB PZ1	509590	2374	TUC	AVR	10/29/02	466.14	1907.86	A		V		11/15/12	397.9	1976.1	A		V		68.24
321220111111202	D-14-11 14DDB PZ2	509590	2374	TUC	AVR	10/29/02	466.5	1907.5	A		V		11/15/12	397.1	1976.9	A		V		69.4
320434111200701	D-15-10 33CBC2	603530	2540	TUC	AVR	11/08/02	156.5	2383.5	A		V		01/08/13	155.8	2384.2	A		V		0.7
320511111171201	D-15-10 35AAA	612020	2529.6	TUC	AVR	11/08/02	219.69	2309.91	A		V		01/08/13	219.8	2309.8	A		V		-0.11
320850111145901	D-15-11 05CCD	610699	2368	TUC	AVR	11/08/02	382.29	1985.71	A		V		01/08/13	326.9	2041.1	A		V	RECHARGE EFFECTS	55.39
320007111183601	D-16-10 34BAA	621997	3096	TUC	AVR	11/08/02	601.59	2494.41	A		V		01/08/13	601.2	2494.8	A		V		0.39
315825111230601	D-17-09 02DDA	612492	2744	TUC	AVR	11/08/02	184.69	2559.31	A		V		01/08/13	183.6	2560.4	A		V		1.09
315257111234501	D-18-09 11BAC	624829	2915	TUC	AVR	11/05/02	245.5	2669.5	A		V		01/08/13	246.4	2668.6	A		V		-0.9
314830111243101	D-19-09 03ACA	634260	3054	TUC	AVR	11/05/02	321.7	2732.3	A		V		01/08/13	321.2	2732.8	A		V		0.5

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE$_2$	WY03 REMARK$_3$	WY03 METHOD$_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_2$	WY13 REMARK$_3$	WY13 METHOD$_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
313850111295701	D-20-08 35BDB	630265	3463	TUC	AVR	11/05/02	456.7	3006.3	A		V		01/08/13	462.4	3000.6	A		V	UNKNOWN LAST PUMP CYCLE	-5.7
314135111263101	D-20-09 17ABA	630266	3254	TUC	AVR	11/05/02	297.6	2956.4	A		V		01/08/13	304.6	2949.4	A		V		-7
312946111334501	D-22-08 19DBC	630269	3610	TUC	AVR	11/05/02	77.9	3532.1	A		V		01/08/13	89.8	3520.2	A		V		-11.9
312827111303301	D-22-08 34ABD	630270	3450	TUC	AVR	11/05/02	193.89	3256.11	A		V		01/08/13	199	3251	A		V		-5.11
323139110550801	D-10-14 29DCA	615723	3273	TUC	USC	11/12/02	318.5	2954.5	A	P	V		01/08/13	330.4	2942.6	A		V		-11.9
322227111055901	D-12-12 22ADC		2139	TUC	USC	11/04/02	143	1996	A		V		01/07/13	167.7	1971.3	A		V		-24.7
321830110583201	D-13-13 13BBA	631710	2395	TUC	USC	11/04/02	242.3	2152.7	A		V		01/07/13	255.9	2139.1	A		V		-13.6
321638110591001	D-13-13 26BAD2	626047	2321.22	TUC	USC	11/04/02	193.4	2127.82	A	R	V		01/08/13	195.1	2126.12	A		V		-1.7
321735110573301	D-13-14 19BBB1	808475	2321.3	TUC	USC	08/19/03	135.16	2186.14	A		V		01/09/13	141.4	2179.9	A		V		-6.24
321654110564101	D-13-14 19DDA2	618723	2342	TUC	USC	08/19/03	158.41	2183.59	A		V		01/09/13	146.9	2195.1	A		V		11.51
321653110564801	D-13-14 19DDB2	618686	2339	TUC	USC	08/19/03	158.19	2180.81	A		V		01/09/13	147.4	2191.6	A		V		10.79
321649110564001	D-13-14 19DDD	618684	2342	TUC	USC	08/19/03	165.6	2176.4	A		V		01/09/13	151	2191	A		V		14.6
321647110563301	D-13-14 20CCC	618705	2348.16	TUC	USC	11/15/02	161.35	2186.81	A		V		10/02/12	151.96	2196.2	A		VT		9.39
321649110563201	D-13-14 20CCD	618683	2348	TUC	USC	08/19/03	167.54	2180.46	A		V		01/09/13	150.7	2197.3	A		V		16.84
321647110532201	D-13-14 26BBB	620156	2464	TUC	USC	08/18/03	77.3	2386.7	A		V		01/10/13	74.8	2389.2	A		V		2.5
321614110533001	D-13-14 26CBB2	519320	2409	TUC	USC	08/18/03	84.72	2324.28	A		V		01/10/13	80.6	2328.4	A		V		4.12
321558110531901	D-13-14 26CCD1	610544	2418	TUC	USC	05/14/03	118.8	2299.2	A		V		01/10/13	118.3	2299.7	A		V		0.5
321612110524001	D-13-14 26DAC1		2429	TUC	USC	11/04/02	22.9	2406.1	A		V		01/09/13	25.5	2403.5	A		V		-2.6
321604110525601	D-13-14 26DCB2	519317	2423	TUC	USC	02/14/03	97.91	2325.09	A		S		01/10/13	103.4	2319.6	A		V		-5.49
321558110523901	D-13-14 26DDC	801050	2425	TUC	USC	08/18/03	64.42	2360.58	A		V		01/10/13	71.2	2353.8	A		V		-6.78
321555110534501	D-13-14 27DDC3	802445	2412	TUC	USC	08/18/03	176.16	2235.84	A		V		01/10/13	164.2	2247.8	A	P	V		11.96
321639110560401	D-13-14 29ABB	610524	2353	TUC	USC	08/19/03	174.35	2178.65	A		V		01/09/13	154.1	2198.9	A		V		20.25
321635110572602	D-13-14 30BBD	620294	2345	TUC	USC	01/16/03	185.9	2159.1	T		V		01/09/13	174.7	2170.3	A		V		11.2
321616110571001	D-13-14 30CAA1	620292	2357	TUC	USC	01/23/03	209.9	2147.1	T		V		01/09/13	188.2	2168.8	A		V		21.7
321546110533701	D-13-14 34AAD		2421	TUC	USC	05/14/03	177.6	2243.4	A		V		01/10/13	165.6	2255.4	A		V		12
321514110531701	D-13-14 35CCA	620140	2454	TUC	USC	01/20/03	265.6	2188.4	T		V		01/10/13	233.5	2220.5	A		V		32.1
321229110553201	D-14-14 16CCC PZ1		2480	TUC	USC	11/07/02	263.6	2216.4	A		V		01/09/13	246	2234	A		V		17.6
321229110553202	D-14-14 16CCC PZ2		2480	TUC	USC	11/07/02	270.4	2209.6	A		V		01/09/13	245.9	2234.1	A		V		24.5
321229110553203	D-14-14 16CCC PZ3		2480	TUC	USC	11/07/02			A	D			01/09/13			A	D	V		
321229110553204	D-14-14 16CCC PZ4		2480	TUC	USC	11/07/02	262.6	2217.4	A		V		01/09/13	249.6	2230.4	A		V		13
321033110523601	D-14-14 35AAA	621581	2643	TUC	USC	11/07/02	319.7	2323.3	A		V		01/09/13			A	O	V		
321140110451501	D-14-16 19CCB	808558	2962	TUC	USC	11/07/02	248.1	2713.9	A		V		01/08/13	248.3	2713.7	A		V		-0.2
320910110533001	D-15-14 03DAD	611361	2653.23	TUC	USC	11/07/02	414.6	2238.63	A		V		01/08/13	392.3	2260.93	A		V		22.3
320916110570701	D-15-14 06CAA	616564	2524	TUC	USC	11/04/02	103.9	2420.1	A		V		01/10/13	102.8	2421.2	A		V		1.1
320904110570401	D-15-14 06DCB2	616565	2528	TUC	USC	11/04/02	267.9	2260.1	A	R	V		01/10/13	236.9	2291.1	A		V		31
320516110542301	D-15-14 34BBC	616008	2690	TUC	USC	11/07/02	190.9	2499.1	A		V		01/17/13	188.1	2501.9	A		V		2.8
320941110512201	D-15-15 06BBB	621584	2715	TUC	USC	11/07/02	357.6	2357.4	A	R	V		01/09/13	368.7	2346.3	A		V		-11.1
320732110492201	D-15-15 16CBB PZ1		2842	TUC	USC	11/07/02	323.59	2518.41	A		V		01/09/13	342.7	2499.3	A		V		-19.11
320732110492202	D-15-15 16CBB PZ2		2842	TUC	USC	11/07/02	325.65	2516.35	A		V		01/09/13	343.35	2498.65	A		V		-17.7
320732110492203	D-15-15 16CBB PZ3		2842	TUC	USC	11/07/02	375.74	2466.26	A		V		01/09/13	402.34	2439.66	A		V		-26.6
320533110454901	D-15-15 25DBC2		3025	TUC	USC	11/07/02	427.2	2597.8	A		V		01/08/13	449.8	2575.2	A		V		-22.6
320335110572701	D-16-14S06CCD	632691	2580	TUC	USC	11/07/02	82.8	2497.2	A		V		01/10/13	52.7	2527.3	A		V		30.1

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE[2]	WY03 REMARK[3]	WY03 METHOD[4]	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
320402110502802	D-16-15 05CBC PZ2		2867	TUC	USC	11/07/02	311.87	2555.13	A		V		01/08/13	330.07	2536.93	A		V		-18.2
320402110502803	D-16-15 05CBC PZ3		2867	TUC	USC	11/07/02	291.65	2575.35	A		V		03/08/13	306.35	2560.65	A		V		-14.7
320253110423701	D-16-16 09DCD2	504558	3235	TUC	USC	11/07/02	559.5	2675.5	A		V		01/08/13	587.3	2647.7	A		V		-27.8
315840110463701	D-17-15 02DCD		3194	TUC	USC	11/07/02	555.5	2638.5	A		V		01/08/13	557.3	2636.7	A		V		-1.8
314827111015801	D-19-13 05ACA2		3080	TUC	USC	11/06/02	230	2850	A		V		01/10/13	283.2	2796.8	A	R	V		-53.2
314728111011101	D-19-13 09CAA		2955	TUC	USC	11/06/02	71.4	2883.6	A		V		01/10/13	143.8	2811.2	A		V		-72.4
314454111023701	D-19-13 29BCC	623122	3014.8	TUC	USC	01/14/03	52.36	2962.44	A		S		02/08/13	87.63	2927.17	A		VT		-35.27
335754112430301	B-07-04 07BCC	628115	2030	UHA	UHA	10/25/02	18.2	2011.8	A		V		10/25/12	8.9	2021.1	A		V		9.3
335828112453801	B-07-05 03DCB1	605607	2160	UHA	UHA	10/25/02	126.3	2033.7	A		V		10/25/12	131.7	2028.3	A	S	V		-5.4
340258112452001	B-08-05 10DAA	801840	2580	UHA	UHA	10/25/02	420.9	2159.1	A		V		10/25/12	421.9	2158.1	A		V		-1
340440112443601	B-09-05 35DBB		2640	UHA	UHA	10/25/02	401.4	2238.6	A		V		10/25/12	404.3	2235.7	A		V		-2.9
340908112533801	B-09-06 05ADD	614605	2955.88	UHA	UHA	08/14/03	817.17	2138.71	A		V		10/25/12	814.6	2141.28	A		V		2.57
320113110174901	D-16-20 27BBB	613532	3505	USP	SEV	11/07/02	62	3443	A		V		12/08/12			A	Z	Z	UTM - MEAN DOGS, CANNOT GAIN ACCESS TO SITE	
315734110221301	D-17-19 14ACA		4180	USP	SEV	11/07/02	545.1	3634.9	A		V		12/06/12	556.3	3623.7	A		V		-11.2
315725110063001	D-17-22 17DAA	805032	4335	USP	SEV	11/08/02	517.9	3817.1	A		V		12/07/12	520.7	3814.3	A		V		-2.8
315356110203001	D-18-20 06BDD	623648	4440	USP	SEV	02/28/03	244.75	4195.25	A		V		11/14/12	271	4169	A		V		-26.25
315335110090101	D-18-21 01DCA	626893	4160	USP	SEV	11/08/02	366.1	3793.9	A		V		12/07/12	338.3	3821.7	A		V		27.8
315417110140001	D-18-21 06AAB2	607856	3622	USP	SEV	11/07/02	32.4	3589.6	A		V		12/07/12	39.3	3582.7	A		V		-6.9
315019110115001	D-18-21 28DAA	612550	3745	USP	SEV	11/08/02	88.5	3656.5	A		V		12/06/12	80.7	3664.3	A	P	V		7.8
314927110010301	D-18-23 32DBB		4840	USP	SEV	11/08/02	609.6	4230.4	A		V		12/06/12	611.7	4228.3	A	S	V		-2.1
314738110090601	D-19-21 12DBB2	616255	4045	USP	SEV	11/08/02	219.4	3825.6	A	S	V		12/06/12	220.3	3824.7	A		V	(D-19-21) 12DBB1 OFF FOR LAST SIX DAYS - NO PUMPING	-0.9
314417109575101	D-19-23 35ACD	616270	4880	USP	SEV	02/28/03	309.25	4570.75	A		V		11/14/12	292.4	4587.6	A		V		16.85
314323110293901	D-20-18 03CAA	642963	4895	USP	SEV	11/05/02	135	4760	A		V		01/09/13	140.1	4754.9	A		V		-5.1
314300110155401	D-20-20 02DDD	616332	4183	USP	SEV	02/28/03	99	4084	A		V		11/14/12	102.2	4080.8	A		V		-3.2
314239110035301	D-20-22 11ADB	616498	4550	USP	SEV	02/28/03	411.45	4138.55	A		V		11/14/12	421.7	4128.3	A		V		-10.25
313556110334801	D-21-17 24AAB	648467	4965	USP	SEV	11/07/02	17.14	4947.86	A		S		01/09/13	23.7	4941.3	A		S		-6.56
313559110283601	D-21-18 24BBB	628318	4827	USP	SEV	11/07/02	124.2	4702.8	A		V		01/09/13	126.7	4700.3	A		V		-2.5
313729110182501	D-21-20 10BBC		4355	USP	SEV	10/21/02	231.44	4123.56	O		V		11/15/12	236.8	4118.2	A		V		-5.36
313706110171601	D-21-20 11BCD		4345	USP	SEV	12/04/02	229.35	4115.65	O		V		11/15/12	233.8	4111.2	A		V		-4.45
313639110183501	D-21-20 16AAC1		4429.82	USP	SEV	11/06/02	294.96	4134.86	A		V		10/10/12	299.04	4130.78	A		VT		-4.08
313553110163701	D-21-20 23AAB	626103	4440	USP	SEV	02/24/03	300.65	4139.35	A		V		11/15/12	305.2	4134.8	A		V		-4.55
313338110185601	D-21-20 33ACC UNSURV	626107	4630	USP	SEV	02/24/03	532.6	4097.4	A		V		11/15/12	540.4	4089.6	A		V		-7.8
313404110173101	D-21-20 34AAA	610125	4566	USP	SEV	02/25/03	443.75	4122.25	A		V		11/15/12	447.8	4118.2	A		V		-4.05
313320110165301	D-21-20 35CDD	610120	4560	USP	SEV	02/25/03	440.45	4119.55	A		V		11/15/12	448.6	4111.4	A		V		-8.15
313825110195801	D-21-20S05ABC	603068	4335	USP	SEV	02/28/03	211.45	4123.55	A	R	V		11/16/12	214.8	4120.2	A		V		-3.35
313347110150701	D-21-21 31BDC	610123	4440	USP	SEV	02/25/03	297.65	4142.35	A		V		11/15/12	309.2	4130.8	A		V		-11.55
313341110132101	D-21-21 33CBB1	616677	4327	USP	SEV	02/26/03	185.7	4141.3	A		V		11/16/12	189.9	4137.1	A		V		-4.2
313808110083801	D-21-22 06ACD2		4130	USP	SEV	02/26/03	28.4	4101.6	A		V		11/15/12	29.5	4100.5	A		V		-1.1
313435110060801	D-21-22 27BCD	515720	4180	USP	SEV	02/26/03	121.25	4058.75	A		V		11/15/12	122.2	4057.8	A		V		-0.95
313104110302901	D-22-18 15CBD	640945	5130	USP	SEV	11/07/02	40.38	5089.62	A		S		01/09/13	42.4	5087.6	A		V		-2.02

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
313224110154301	D-22-20 01DCD	519004	4500	USP	SEV	02/25/03	376.55	4123.45	A		V		11/15/12	384.6	4115.4	A		V		-8.05
313317110165201	D-22-20 10ABB	610130	4677	USP	SEV	02/25/03	562.55	4114.45	A		V		11/15/12	563.5	4113.5	A		V		-0.95
312803110165801	D-22-20 35CDC	805793	5005	USP	SEV	02/27/03	43.55	4961.45	A		V		11/16/12	38.5	4966.5	A		V		5.05
313009110111101	D-22-21 23CBA	642816	4320	USP	SEV	02/27/03	127.9	4192.1	A		V		11/15/12	135.6	4184.4	A		V		-7.7
312832110114901	D-22-21 34ACC	087668	4410	USP	SEV	02/27/03	198.7	4211.3	A		V		11/15/12	207.7	4202.3	A		V		-9
313247110060501	D-22-22 03CBA	809378	4255	USP	SEV	02/26/03	182.8	4072.2	A		V		11/15/12	183.8	4071.2	A		V		-1
313052110075501	D-22-22 17CDB UNSURV	623592	4097	USP	SEV	02/26/03	3.35	4093.65	A		V		11/15/12	5.3	4091.7	A		V		-1.95
312712110152101	D-23-21 06CCC2		4840	USP	SEV	02/24/03	33.55	4806.45	A		V		11/15/12	15.8	4824.2	A		V		17.75
312620110132901	D-23-21 08DDD	640780	4660	USP	SEV	02/24/03	133.65	4526.35	A		V		11/16/12	145.8	4514.2	A		V		-12.15
312405110103101	D-23-21 26ADC	553330	4472	USP	SEV	02/25/03	231.9	4240.1	A		V		11/16/12	237	4235	A		V		-5.1
312802110042601	D-23-22 02AAB	624537	4315	USP	SEV	02/27/03	205.6	4109.4	A		V		11/16/12	205.5	4109.5	A		V		0.1
312619110084801	D-23-22 07DCC	603003	4327	USP	SEV	02/27/03	103.9	4223.1	A		V		11/16/12	107.6	4219.4	A		V		-3.7
312554110064701	D-23-22 16BDD	085799	4230	USP	SEV	02/27/03	60.75	4169.25	A		V		11/15/12	59.4	4170.6	A		V		1.35
312421110041001	D-23-22 25BBC	632053	4380	USP	SEV	02/27/03	179.3	4200.7	A		V		11/16/12	179.6	4200.4	A		V		-0.3
312006110075501	D-24-22 20BBA	603543	4295	USP	SEV	02/25/03	40.5	4254.5	A		V		11/16/12	40.7	4254.3	A		V		-0.2
343827112304801	B-15-02 31BBD	511301	5280	VRB	BIC	03/11/03	182.9	5097.1	A		V		03/13/13	198.5	5081.5	A		V		-15.6
344122112322201	B-15-03 11DDB	569850	5060	VRB	BIC	03/10/03	72.1	4987.9	A		V		03/26/13	86.8	4973.2	A	P	V		-14.7
344038112321101	B-15-03 14DAD	573968	5075	VRB	BIC	03/11/03	57.3	5017.7	A		V		03/12/13	60.7	5014.3	A		V		-3.4
344017112321101	B-15-03 23AAA	585987	5030	VRB	BIC	03/12/03	28.2	5001.8	A		V		03/12/13	20.8	5009.2	A		V		7.4
343957112322001	B-15-03 23ADC	526935	5085	VRB	BIC	03/12/03	63	5022	A		V		03/12/13	62.6	5022.4	A		V		0.4
343938112320101	B-15-03 24CCB	511633	5120	VRB	BIC	03/12/03	92.6	5027.4	A		V		03/12/13	96.6	5023.4	A		V		-4
343932112310401	B-15-03 24DDD	602453	5190	VRB	BIC	03/11/03	163	5027	A		V		03/11/13	230.9	4959.1	A		V		-67.9
345338112311801	B-17-02 06BBB	603912	4390	VRB	BIC	03/12/03	133.3	4256.7	A		V		03/11/13	134.8	4255.2	A		V		-1.5
345109112264401	B-17-02 14CCA	548995	4390	VRB	BIC	02/25/03	94.24	4295.76	U		T		03/11/13	96.2	4293.8	A		V		-1.96
345048112292201	B-17-02 20ABD	801489	4467	VRB	BIC	03/11/03	185.9	4281.1	A		V		03/13/13	189.5	4277.5	A		V		-3.6
345030112282301	B-17-02 21ACC	541012	4480	VRB	BIC	03/11/03	113.9	4366.1	A		V		03/14/13	119.8	4360.2	A		V		-5.9
345056112271601	B-17-02 22ABB	606020	4375	VRB	BIC	03/11/03	27.3	4347.7	A		V		03/11/13	30	4345	A		V		-2.7
344950112291101	B-17-02 29ADC	574763	4605	VRB	BIC	03/11/03	232.8	4372.2	A		V		03/13/13	240.7	4364.3	A		V		-7.9
344928112294601	B-17-02 29CAC	518331	4750	VRB	BIC	03/11/03	459.4	4290.6	A		V		03/13/13	463.7	4286.3	A		V		-4.3
345301112283701	B-17-02S04DBC1		4362	VRB	BIC	03/12/03	104.7	4257.3	A		V		03/11/13	106.3	4255.7	A		V		-1.6
345256112261901	B-17-02W02DCC1	527679	4570	VRB	BIC	03/11/03	325	4245	A		V		03/11/13	326.3	4243.7	A		V		-1.3
345804112425701	B-18-04 08BBB	631897	4795	VRB	BIC	02/13/03	350.7	4444.3	A		V		02/26/13	353.3	4441.7	A	P	V		-2.6
345533112431001	B-18-04 19DDC	622504	4887	VRB	BIC	03/12/03	306.5	4580.5	A		V		08/21/13	313	4574	A	P	V		-6.5
350059112373101	B-19-03 19CBD	611027	4530	VRB	BIC	03/12/03	60.4	4469.6	A		V		02/28/13	55.5	4474.5	A		V		4.9
350303112395601	B-19-04 10ADA	607043	4570	VRB	BIC	03/12/03	68.5	4501.5	A		V		02/28/13	63.2	4506.8	A		V		5.3
350009112401201	B-19-04 27DBA	624144	4552	VRB	BIC	03/13/03	175	4377	A		V		02/26/13	176.3	4375.7	A		V		-1.3
350535112432701	B-20-04 30AAD	607032	4571	VRB	BIC	03/12/03	60.7	4510.3	A		V		02/28/13	51.9	4519.1	A		V		8.8
350814112452701	B-20-05 11ACA		4678	VRB	BIC	03/12/03	136.7	4541.3	A		V		02/27/13	131.4	4546.6	A		V		5.3
351207112283701	B-21-02 14BCC	604624	5110	VRB	BIC	04/11/03	996.8	4113.2	A		V		05/09/13	996.7	4113.3	A		V		0.1
351120112502401	B-21-05 20ACB	608296	4846	VRB	BIC	03/13/03	260.6	4585.4	A		V		02/27/13	256.3	4589.7	A		V		4.3
351552112572901	B-22-07W25ADD	608304	5076	VRB	BIC	03/13/03	203.8	4872.2	A		V		02/25/13	190.8	4885.2	A		V		13
341436111190001	A-10-10 03BAD	512430	4985	VRB	LVR	08/15/03	216.5	4768.5	A		V		08/21/13	203.3	4781.7	A		V		13.2
341356111191901	A-10-10 03CCD	512431	4917.63	VRB	LVR	08/15/03	127.73	4789.9	A		V		01/30/13	115.26	4802.37	A		VT		12.47

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE[2]	WY03 REMARK[3]	WY03 METHOD[4]	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
341418111194901	A-10-10 04DBA		4960	VRB	LVR	08/15/03	220.9	4739.1	A		V		08/20/13	203	4757	A		V		17.9
341338111194401	A-10-10 09ADB	631255	4970	VRB	LVR	08/15/03	90.1	4879.9	A		V		08/19/13	84.6	4885.4	A		V		5.5
341547111192501	A-11-10 27CCB		5000	VRB	LVR	11/04/02	159.89	4840.11	A		V		08/21/13	191.1	4808.9	A		V		-31.21
341504111214601	A-11-10 31DAC1	620879	5060	VRB	LVR	08/15/03	181.3	4878.7	A		V		08/20/13	309.1	4750.9	A		V		-127.8
341518111205401	A-11-10 32ACD	650931	5140	VRB	LVR	02/13/03	342	4798	A		V		02/27/13	299.9	4840.1	A		V		42.1
342408111270301	A-12-08 25AAC1		5562	VRB	LVR	11/04/02	154.7	5407.3	A		V		11/08/12	118.5	5443.5	A		V		36.2
342344111280701	A-12-08 26DAB1	635775	5645	VRB	LVR	08/15/03	100.7	5544.3	A		V		11/07/12	94.8	5550.2	A		V		5.9
342406111293901	A-12-08 27BAD	515206	5960	VRB	LVR	11/05/02	390.6	5569.4	A		V		11/07/12	365.1	5594.9	A		V		25.5
343134111465301	A-13-05 12CCC2	646829	3180	VRB	VER	03/10/03	21.3	3158.7	A		V		03/14/13	13.9	3166.1	A	Z	S	WEST FIELD ADJACENT TO MR. DUGANS WELL SITE HAS BEEN HEAVILY IRRIGATED FOR LAST 3 WEEKS.	7.4
343105111504601	A-13-05 17CAA2	086280	3055	VRB	VER	03/13/03	37.9	3017.1	A		V		03/13/13	37.5	3017.5	A		S		0.4
342859111492901	A-13-05 28DCD1	085970	3060	VRB	VER	03/10/03	132.9	2927.1	A		V		03/13/13	131.6	2928.4	A	Z	V	MUD ON WIRE FOR AT LEAST 40 FEET.	1.3
343028111413801	A-13-06 23BBC	627339	4420	VRB	VER	03/10/03	337.2	4082.8	A		V		05/07/13	337.6	4082.4	A		V		-0.4
343512112020501	A-14-03 21ABB1	603340	4950	VRB	VER	03/13/03	43.55	4906.45	A		V		03/19/13	41.5	4908.5	A		S		2.05
343535111531001	A-14-04 24BCB2	505167	3121	VRB	VER	03/12/03	29.92	3091.08	A		V		03/11/13	33.8	3087.2	A		S		-3.88
343833111490101	A-14-05 04AAA	806134	3480	VRB	VER	03/12/03	335	3145	A		V		03/11/13	319	3161	A		V		16
343638111501301	A-14-05E17AAC	629124	3190	VRB	VER	03/12/03	46.8	3143.2	A		V		03/11/13	45.1	3144.9	A		S		1.7
343733111425801	A-14-06 09AAB	522310	3925	VRB	VER	03/12/03	132.4	3792.6	A	P	V		03/11/13	239.6	3685.4	A	R	VT	WEAK (SIGNAL) MEASUREMENT	-107.2
343314111183801	A-14-10 32DBD	611623	6855	VRB	VER	03/10/03	335.1	6519.9	A		V		05/07/13	344.9	6510.1	A	R	V		-9.8
344304111585601	A-15-03 01DCC2	802758	3265	VRB	VER	03/10/03	51	3214	A		V		03/12/13	61.2	3203.8	A		S		-10.2
344258111595501	A-15-03 11ABB	613162	3320	VRB	VER	03/14/03	64.8	3255.2	A		V		03/12/13	67.4	3252.6	A		S		-2.6
344250111583401	A-15-03 12ADB1	630899	3265	VRB	VER	03/10/03	39.9	3225.1	A		V		03/12/13	47.4	3217.6	A		S		-7.5
344250111584101	A-15-03 12ADB3	802787	3265	VRB	VER	03/10/03	39.5	3225.5	A		V		03/12/13	45.2	3219.8	A		S		-5.7
344312111540801	A-15-04 02CCB4		3420	VRB	VER	03/11/03	97.95	3322.05	A		V		03/12/13	107.75	3312.25	A		S		-9.8
344307111552701	A-15-04 04DDC1		3355	VRB	VER	03/11/03	58.27	3296.73	A		V		03/12/13	60.4	3294.6	A		S		-2.13
344244111581501	A-15-04 07BCA	524907	3300	VRB	VER	03/10/03	49.5	3250.5	A		V		03/12/13	53.2	3246.8	A		S		-3.7
344052111560601	A-15-04 21CBA2	631840	3225	VRB	VER	03/11/03	57.55	3167.45	A		V		03/12/13	59.3	3165.7	A		S		-1.75
344105111503401	A-15-05 20BAA	519065	3600	VRB	VER	03/13/03	282.85	3317.15	A		V		03/12/13	288.7	3311.3	A		S		-5.85
343924111454901	A-15-05 25DDD	514006	3580	VRB	VER	03/12/03	138.9	3441.1	A		V		03/11/13	176.8	3403.2	A		VT		-37.9
344331111515501	A-15-05S06BCA	627337	3700	VRB	VER	03/13/03	382.45	3317.55	A		V		03/12/13	383.2	3316.8	A		V		-0.75
344019111424301	A-15-06 21DDC	627282	3815	VRB	VER	03/12/03	27.54	3787.46	A		V		03/11/13	31.4	3783.6	A		S		-3.86
344556112040501	A-16-03 19DBD	525162	3660	VRB	VER	03/10/03	270.5	3389.5	A		V		03/12/13	276.5	3383.5	A		S		-6
344545112005401	A-16-03 22DCD	629211	3430	VRB	VER	03/10/03	41.77	3388.23	A		V		03/12/13	39.2	3390.8	A		S		2.57
344359111591101	A-16-03 36CDC	614257	3428.04	VRB	VER	02/10/03	74.13	3353.91	A		V		02/04/13	85.93	3342.11	A		VT		-11.8
344632111541701	A-16-04 15DDC2	509984	3620	VRB	VER	03/11/03	76.7	3543.3	A		V		03/13/13	80.3	3539.7	A		S	NEW OWNERS. OK TO MEASURE	-3.6
344625111571401	A-16-04 20BBB	614259	3740	VRB	VER	03/11/03	179.93	3560.07	A		V		03/13/13	190.7	3549.3	A		V	GENERATOR IN PUMP HOUSE	-10.77
344510111531601	A-16-04 26DAB1	503653	3443	VRB	VER	03/11/03	14.05	3428.95	A		V		03/13/13	8.6	3434.4	A		S	WELL ENCLOSED IN HOUSING	5.45

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_1$	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 $SOURCE_2$	WY03 $REMARK_3$	WY03 $METHOD_4$	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_2$	WY13 $REMARK_3$	WY13 $METHOD_4$	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
344733111292201	A-16-08 10ABC	641798	7370	VRB	VER	03/10/03	9.1	7360.9	A		V		05/07/13	4.17	7365.83	A		S		4.93
345057112145201	A-17-01 15CDC UNSURV	631883	4540	VRB	VER	03/12/03	413.6	4126.4	A		V		03/12/13	416.3	4123.7	A		V		-2.7
345312111532001	A-17-04 01ACA	512462	4435	VRB	VER	03/12/03	733.35	3701.65	A		V		03/13/13	737.3	3697.7	A		V		-3.95
345302111582201	A-17-04 06ADD		4345	VRB	VER	03/12/03	672.93	3672.07	A		V		03/14/13	674.8	3670.2	A		V		-1.87
345001111514801	A-17-05 20CCC1	631803	4030	VRB	VER	03/11/03	408.85	3621.15	A		V		03/13/13	394.1	3635.9	A		V		14.75
344850111494801	A-17-05 33ADA1	614282	3840	VRB	VER	03/11/03	213.6	3626.4	A		V		03/13/13	219.5	3620.5	A		S		-5.9
344957111463102	A-17-06E30BBB		4300	VRB	VER	03/12/03	453.62	3846.38	A		V		03/13/13	457.1	3842.9	A		V		-3.48
345644111451601	A-18-06 17ACC	523380	4965	VRB	VER	03/11/03	524.55	4440.45	A		V		03/13/13	517.8	4447.2	A		V		6.75
345619111385501	A-18-07 15CCB2	630882	6450	VRB	VER	03/12/03	71	6379	A		V		03/13/13	64.5	6385.5	A	X	V	NEARBY SURFACE FLOW	6.5
350159111435701	A-19-06W14BAB	637391	6490	VRB	VER	04/09/03	816.8	5673.2	A		V		03/13/13	816	5674	A		V		0.8
350829111575601	A-20-04 03CBB	522705	6709	VRB	VER	03/11/03	52.9	6656.1	A		V		03/12/13	54.61	6654.39	A		S		-1.71
350624111482501	A-20-06 19BBB	500322	7163	VRB	VER	03/11/03	117.4	7045.6	A		V		05/08/13	104.8	7058.2	A		S		12.6
351253112050001	A-21-03 09BDC	500519	6923	VRB	VER	03/12/03	148.4	6774.6	A		V		03/12/13	104	6819	A		S	PUMP OFF FOR 3 DAYS	44.4
351121111545601	A-21-04 24AAC	522559	6822	VRB	VER	03/11/03	149.1	6672.9	A		V		03/12/13	149.2	6672.8	A		V		-0.1
351409111500302	A-21-05 02ABC3	627254	7131	VRB	VER	03/11/03	34.1	7096.9	A		V		05/09/13	27.75	7103.25	A		S	WELL SHUT OFF LAST TWO MONTHS	6.35
351557112020401	A-22-03 24CCC	618481	6887	VRB	VER	03/13/03	13.6	6873.4	A		S		03/12/13	9.12	6877.88	A		S		4.48
352108111504801	A-23-05 27AAC	613888	7660	VRB	VER	03/11/03	709.6	6950.4	A		V		05/08/13	710.7	6949.3	A		V		-1.1
350154112220001	B-19-01 16ACB	645843	4790	VRB	VER	03/12/03	555.3	4234.7	A		V		05/16/13	556.4	4233.6	A		V		-1.1
365321113572401	B-40-15 06CDD	540950	2040.93	VRG	VRG	08/13/03	267.37	1773.56	A		V		01/23/13	266.78	1774.15	A		VT		0.59
324018110005401	D-09-23 08ABC	805360	5150	WIL	WIL	02/26/03	226.6	4923.4	A		V		11/07/12	235.6	4914.4	A		V		-9
323511109591401	D-10-23 10BBA	627747	4543	WIL	WIL	02/24/03	398.2	4144.8	A		V		11/07/12	419.6	4123.4	A		V		-21.4
322718109554101	D-11-24 30AAA	604191	4369	WIL	WIL	02/26/03	285.1	4083.9	A		V		11/07/12	327.1	4041.9	A		V		-42
322349109580601	D-12-23 14ABB		4269	WIL	WIL	02/24/03	185.89	4083.11	A		V		11/08/12	227.3	4041.7	A		V		-41.41
322234109553001	D-12-24 20CBB	626856	4246	WIL	WIL	02/26/03	168.1	4077.9	A		V		11/08/12	205.8	4040.2	A		S		-37.7
322008109523401	D-13-24 03ADA		4219	WIL	WIL	02/26/03	118.69	4100.31	A		V		11/05/12	145.7	4073.3	A		S		-27.01
321834109543001	D-13-24 16BBB	805474	4212	WIL	WIL	02/26/03	119.59	4092.41	A		V		11/05/12	145.3	4066.7	A		S		-25.71
321414109573001	D-14-23 12BBB2	608286	4357	WIL	WIL	02/25/03	263.7	4093.3	A		V		11/05/12	286.1	4070.9	A		V		-22.4
321323109521701	D-14-24 14BBA2	635009	4170	WIL	WIL	02/26/03	33	4137	A		V		11/05/12	36.3	4133.7	A		V		-3.3
321303109435201	D-14-26 18CAA1		4245	WIL	WIL	02/25/03	216	4029	A		V		11/07/12	260.7	3984.3	A		V		-44.7
320830109550901	D-15-24 08CDA	629684	4171	WIL	WIL	02/24/03	66.94	4104.06	A		S		11/05/12	73.8	4097.2	A		V		-6.86
320614109442401	D-15-25 25AAD	604416	4220	WIL	WIL	02/25/03	245.39	3974.61	A		V		11/06/12	329.4	3890.6	A		V		-84.01
320633109393901	D-15-26 23DCC2	611586	4460	WIL	WIL	02/25/03	334.2	4125.8	A		V		11/07/12	347	4113	A		V		-12.8
320119109545001	D-16-24 21CCC	606236	4273	WIL	WIL	02/24/03	210	4063	A		V		11/05/12	262.9	4010.1	A		V		-52.9
320237109475101	D-16-25 16ADD2	512259	4187	WIL	WIL	02/24/03	74.4	4112.6	A		V		11/06/12	89	4098	A		S		-14.6
320022109444601	D-16-25 36AAA	609186	4243	WIL	WIL	02/26/03	267.89	3975.11	A		V		11/06/12	331	3912	A		V		-63.11
320435109394301	D-16-26 02ADD	609041	4391	WIL	WIL	02/25/03	284.2	4106.8	A		V		11/07/12	308.7	4082.3	A		V		-24.5
320409109424501	D-16-26 05DAD	616104	4290	WIL	WIL	02/25/03			A	P			11/07/12	398.6	3891.4	A		V		
320403109434701	D-16-26 06DDA	612109	4257.8	WIL	WIL	02/25/03	286.79	3971.01	A		V		11/07/12	369.9	3887.9	A		V		-83.11
320232109394201	D-16-26 14DAA	809034	4375	WIL	WIL	02/25/03	361.29	4013.71	A		V		11/07/12	394.5	3980.5	A		V		-33.21
315816109494501	D-17-25 08BCC2		4222	WIL	WIL	02/24/03	170.49	4051.51	A		S		11/05/12	212.8	4009.2	A	K	V	CASCADING IN EFFECT	-42.31
315602109360701	D-17-27 28BAA	627815	4427	WIL	WIL	02/25/03	232.8	4194.2	A		V		11/06/12	278	4149	A		V		-45.2

Appendix 3. Groundwater level change in Arizona – Water Years 2003 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[1]	WL DATE 2003	WL 2003 [ft]	WL 2003 ELEVATION [ft]	WY03 SOURCE[2]	WY03 REMARK[3]	WY03 METHOD[4]	WY03 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[2]	WY13 REMARK[3]	WY13 METHOD[4]	WY13 COMMENT	WL CHANGE WY03 - WY13 [ft]
315228109310301	D-18-28 17BAA	505333	4742	WIL	WIL	02/25/03	378	4364	A		V		11/06/12	381.7	4360.3	A		V		-3.7
315702112480401	C-17-05 17ABC2UNSURV	629090	1660	WMD	WMD	11/06/02	336.6	1323.4	A		V		11/01/12	380.5	1279.5	A		V	USED SOUNDER TUBE FOR MSMT.	-43.9
324330114252601	C-08-21 21BCA	612897	170	YUM	YUM	11/04/02	23.2	146.8	A		V		11/14/12	25.1	144.9	A		S		-1.9
324212114274801	C-08-22 25DAC3		155	YUM	YUM	11/04/02	13.5	141.5	A		V		11/14/12	19.1	135.9	A		S		-5.6
323840114320101	C-09-22 17DCA		208	YUM	YUM	11/04/02	59.2	148.8	A		V		11/14/12	69	139	A		S		-9.8
323602114480401	C-09-25 35CBD		104	YUM	YUM	11/05/02	20.7	83.3	A		V		11/15/12	21.2	82.8	A		S		-0.5
323133114475501	C-10-25 26CDB		90	YUM	YUM	11/05/02	12.1	77.9	A		V		11/15/12	26.15	63.85	A		S		-14.05
322737114415301	C-11-24 23BCB		160	YUM	YUM	11/05/02	100	60	A		V		11/14/12	120.3	39.7	A		S		-20.3

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.
2. A = A.D.W.R, B = U.S.B.R, O = Owner, S = Reporting Agency, T= City of Tucson, U = USGS
3. D = Dry, K = Cascading water, M = Well plugged, O = Obstruction, P = Pumping, R = Recently pumped, S = Nearby pumping, T= Nearby recently pumped, U= Undetermined, V = Foreign material (oil), W = Well destroyed, X = Surface water effects, Z = Other
4. A = Airline, F = Automated device, S = Steel tape, T= Electric tape (uncalibrated), V = A.D.W.R calibrated electric sounder or non A.D.W.R electric tape, VT = A.D.W.R calibrated electric tape, Z = Other (explained in comments)

Appendix 4

Groundwater level change in Arizona – Water Years 2012 to 2013.

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
340338112092701	A-08-02 04DCD1		1943.36	AGF	AGF	12/09/11	24.14	1919.22	A		S		10/22/12	25.51	1917.85	A		V		-1.37
340421112075801	A-09-02 34DDD	649365	2020	AGF	AGF	12/09/11	44.1	1975.9	A		V		10/22/12	46.4	1973.6	A		V		-2.3
341118112075801	A-09H02 23CCC	635573	3395.32	AGF	AGF	07/03/12	448.89	2946.43	A		VT		10/01/12	448.8	2946.52	A		VT		0.09
341440112095501	A-10-02 17DBA	642335	2925	AGF	AGF	08/28/12	4.8	2920.2	A		V		10/24/12	4.9	2920.1	A		V		-0.1
342042112094501	A-11-02 09CCB	610557	3925	AGF	AGF	12/09/11	230.3	3694.7	A	Z	V	WELL WAS DEEPENED IN MAY 2007 FROM 73' TO 305' FROM ALLUVIAL AQUIFER TO WATER WITHIN BEDROCK SYSTEM (SEE WELL LOG). NEW PUMP INSTALLED JULY 2011.	10/22/12	65.1	3859.9	A		V		165.2
341959112071601	A-11-02 14CAA	628102	3805	AGF	AGF	12/09/11	69	3736	A		V		10/22/12	73.9	3731.1	A	R	V		-4.9
341933112103001	A-11-02 20BAB	614152	3930	AGF	AGF	08/28/12	73.5	3856.5	A		V		10/24/12	72.5	3857.5	A		V		1
342353112134501	A-12-01 26BAB1	802822	4375	AGF	AGF	12/09/11	21.9	4353.1	A		V		10/22/12	22.3	4352.7	A		V		-0.4
342331112142501	A-12-01 27DBA2	618019	4483.76	AGF	AGF	02/06/12	16.65	4467.11	A		VT		10/01/12	13.99	4469.77	A		VT		2.66
342655112054501	A-12-02 01DAC	646578	4070	AGF	AGF	12/09/11	121.4	3948.6	A		V		10/24/12	121.3	3948.7	A		V		0.1
342450112071801	A-12-02 23BAA	614181	3870	AGF	AGF	12/09/11	38.4	3831.6	A		S		10/24/12	38.3	3831.7	A		V		0.1
324902110184901	D-07-20 21BDB	613297	3515	ARA	ARA	11/29/11	62	3453	A		V		10/30/12	66	3449	A		V		-4
324413109135501	D-08-21 18DAA		3864	ARA	ARA	11/29/11	37.6	3826.4	A		V		10/30/12	37.1	3826.9	A		V		0.5
323753110080601	D-09-22 19DCC	627711	4280	ARA	ARA	11/29/11	133	4147	A	P	V		10/30/12	135.3	4144.7	A		V		-2.3
351153113214301	B-21-10 17CCD1		5058	BIS	FTR	10/24/11	123.6	4934.4	A		V		10/22/12	123.6	4934.4	A		V		0
344220113364901	B-16-13 21DDD2	642249	2040	BIS	WIK	10/24/11	97.8	1942.2	A		V		10/22/12	97.8	1942.2	A		V		0
344040113351001	B-16-13 36CCC		1880	BIS	WIK	10/24/11	13.8	1866.2	A		V		10/22/12	14.7	1865.3	A		V		-0.9
344613113370901	B-16H13 33DAB	610996	2082	BIS	WIK	10/24/11	23.5	2058.5	A		V		10/22/12	28.3	2053.7	A		V		-4.8
344839113412801	B-17-13 31DAB2	642234	2715	BIS	WIK	10/24/11	121	2594	A	P	V		10/22/12	124.6	2590.4	A	P	V		-3.6
345332113390001	B-18-13 34CCD	614838	2479	BIS	WIK	10/24/11	45.2	2433.8	A		V		10/22/12	45.3	2433.7	A		V		-0.1
350049113411401	B-19-13 19DAA1	637441	3065	BIS	WIK	10/24/11	133.1	2931.9	A		V		10/22/12	134.4	2930.6	A		V		-1.3
350719113384201	B-20-13 15BAA	608169	3300	BIS	WIK	10/24/11	160.5	3139.5	A		V		11/13/12	161.8	3138.2	A		V		-1.3
351119113370801	B-21-13 24BCD	614875	3620	BIS	WIK	10/24/11	371.9	3248.1	A		V		11/13/12	372.5	3247.5	A		V		-0.6
340923113413401	B-21-13 31DAA	641875	3641	BIS	WIK	10/24/11	519.6	3121.4	A		V		10/26/12	520.4	3120.6	A		V		-0.8
352135113423001	B-23-13 19DCB		3628	BIS	WIK	10/24/11	103.7	3524.3	A		V		11/13/12	105.82	3522.18	A		S		-2.12
352010113411501	B-23-13 32ACA	614897	3768	BIS	WIK	10/24/11	259.4	3508.6	A		V		11/13/12	263	3505	A		V		-3.6
335823113471501	B-07-15 02DDC	614536	1423	BUT	BUT	11/01/11	189.2	1233.8	A		V		11/02/12	200.3	1222.7	A	S	V		-11.1
335733113470301	B-07-15 11DDD	614539	1442	BUT	BUT	11/01/11	218.2	1223.8	A	S	V		04/01/13	220.9	1221.1	A		V		-2.7
335718113480401	B-07-15 15AAD2	509587	1405	BUT	BUT	11/01/11	194	1211	A	S	V		11/02/12	197.1	1207.9	A		V		-3.1
335635113493001	B-07-15 16DCC		1346	BUT	BUT	11/01/11	105.6	1240.4	A		V		11/01/12	107	1239	A		V		-1.4
335620113494501	B-07-15 21BCA	516935	1330	BUT	BUT	11/01/11	92.4	1237.6	A		V		11/01/12	94	1236	A		V		-1.6
340333113363701	B-08-13 04DDD1	614575	1790	BUT	BUT	11/01/11	513.8	1276.2	A		V		11/02/12	514.2	1275.8	A		V		-0.4
340122113440301	B-08-14 20DAB	633680	1522	BUT	BUT	11/01/11	254.5	1267.5	A		V		11/02/12	255.7	1266.3	A		V		-1.2
340058113404701	B-08-14 23DDD	614576	1618	BUT	BUT	11/01/11	350.6	1267.4	A		V		11/02/12	351.3	1266.7	A		V		-0.7
340004113443601	B-08-14 29CDD	807275	1487	BUT	BUT	11/01/11	219.6	1267.4	A		V		11/02/12	221.2	1265.8	A		V		-1.6
340852113122501	B-09-09 04CBC	600587	2360	BWM	ALR	11/03/11	636.7	1723.3	A		V		02/01/13	636.1	1723.9	A		V		0.6
341508113203801	B-11-10 31CBA		2160	BWM	ALR	11/03/11	639.7	1520.3	A		V		11/03/12	639.9	1520.1	A		V		-0.2
341531113265801	B-11-11 31BBB1	614664	1350	BWM	ALR	11/03/11	51.2	1298.8	A		V		11/03/12	51.1	1298.9	A		V		0.1
342836113391301	B-13-13 07DDB2	644225	1770	BWM	ALR	10/26/11	137.2	1632.8	A		V		10/24/12	137.3	1632.7	A		V		-0.1
341624113562401	B-11-16 29AAA	619426	695	BWM	CLA	11/01/11	97.58	597.42	A		S		11/01/12	98.3	596.7	A		V		-0.72
341454113565501	B-11-16 32CDA	619413	615	BWM	CLA	11/02/11	19.67	595.33	A		S		11/01/12	20.5	594.5	A		V		-0.83
341653112433501	B-11-05 24ADC	586357	4458.87	BWM	SKU	10/07/11	47.13	4411.74	A		VT		04/09/13	48.8	4410.07	A		V		-1.67
342444112363401	B-12-03 06ACC	611849	4650	BWM	SKU	12/16/11	485.5	4164.5	A		V	WELL HAS BEEN OUT-OF-SERVICE FOR ONE YEAR.	04/10/13	485.7	4164.3	A		V	PUMP OFF FOR TWO WEEKS	-0.2
342444112444001	B-12-04 06ABB1	631578	3920	BWM	SKU	12/16/11	77.5	3842.5	A	R	V	NEARBY PUMPING FROM B-12-04 06ABB2, LOCATED LESS	04/10/13	76.5	3843.5	A	R	V	PUMP OFF FOR 10 MIN	1

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
342458112423801	B-12-04 06ABB2	631575	3920	BWM	SKU	12/16/11	75.6	3844.4	A	R	V	NEARBY PUMPING ALSO, B-12-04 06ABB1, LOCATED LESS THAN 500 FT TO THE NORTH.	04/10/13	75.9	3844.1	A		V		-0.3
342442112444401	B-12-05 02ACD2		3830	BWM	SKU	12/15/11	34.7	3795.3	A		V		03/26/13	35.4	3794.6	A		V		-0.7
342709112404501	B-13-04 21DB UNSPZ1	613853	4260	BWM	SKU	12/15/11	105.7	4154.3	A		S	ALLUVIAL AQUIFER	05/06/13	105.7	4154.3	A		V		0
342709112404502	B-13-04 21DB UNSPZ2	613853	4260	BWM	SKU	12/15/11	111.5	4148.5	A		S	VOLCANIC AQUIFER	05/06/13	111.7	4148.3	A		V		-0.2
342626112391401	B-13-04 26BCC1UNSURV	613867	4380	BWM	SKU	12/15/11	243.9	4136.1	A		V		05/07/13	244.7	4135.3	A		V		-0.8
342639112394201	B-13-04 27AB UNSPZ1	613860	4360	BWM	SKU	12/15/11	209.7	4150.3	A		V		05/06/13	207	4153	A		V		2.7
342639112394202	B-13-04 27AB UNSPZ2	613860	4360	BWM	SKU	12/15/11	250.3	4109.7	A		V		05/06/13	248.5	4111.5	A		V		1.8
342621112402301	B-13-04 28DA UNSURV	613852	4205	BWM	SKU	12/15/11	76.8	4128.2	A	P	V		05/06/13	81.8	4123.2	A	P	V		-5
344248112400801	B-14-04 22BAD	614731	4540	BWM	SKU	12/15/11	91.5	4448.5	A		S		04/09/13	91.4	4448.6	A		V		0.1
341648112555201	B-11-06 19CBD	621558	3258	BWM	SMR	01/25/12	41.6	3216.4	A		V		10/25/12	43.8	3214.2	A		V		-2.2
341516112552801	B-11-06 31ACD	614647	3270	BWM	SMR	01/25/12	111.1	3158.9	A	P	V		10/25/12	122.4	3147.6	A	P	V		-11.3
341707113063901	B-11-08 20ADB	614653	2610	BWM	SMR	10/24/11	75.3	2534.7	A		V		10/23/12	75.5	2534.5	A		V		-0.2
342044112554101	B-12-06W31AAD	613951	3470	BWM	SMR	12/14/11	100.8	3369.2	A		S		03/26/13	96.6	3373.4	A	V	S		4.2
342828112531801	B-13-06 09DCD	625722	3500	BWM	SMR	12/14/11	20.7	3479.3	A		S		03/26/13	17.9	3482.1	A		V		2.8
342801113134801	B-13-09 17BCC	611613	2590	BWM	SMR	10/24/11	50.7	2539.3	A		V		10/22/12	51.2	2538.8	A		V		-0.5
315816110310601	D-17-18 09BCC	601585	3843	CCK	CCK	01/09/12	93.9	3749.1	A		V		01/08/13	102.5	3740.5	A		V		-8.6
314926110373501	D-18-17 32DBA	634321	4520	CCK	CCK	01/10/12	110.7	4409.3	A	P	S		01/10/13	115.2	4404.8	A		V		-4.5
314937110362301	D-18-17 33ADA	616221	4438	CCK	CCK	01/10/12	104.8	4333.2	A	P	V		01/10/13	95.6	4342.4	A		V		9.2
314916110340401	D-18-17 36CBC	634356	4442	CCK	CCK	01/10/12	136.7	4305.3	A		V		01/10/13	136.8	4305.2	A	P	V		-0.1
314718110413801	D-19-16 15ABA	646557	4900	CCK	CCK	01/09/12	204.8	4695.2	A		V		01/08/13	204.7	4695.3	A		V		0.1
314759110381001	D-19-17 08BCB	634285	4592	CCK	CCK	01/10/12	131	4461	A		S		01/10/13	142.8	4449.2	A		S		-11.8
314808110363901	D-19-17 09ABB	608612	4440	CCK	CCK	01/10/12	54.9	4385.1	A		S		01/10/13	54.1	4385.9	A		V		0.8
314041110392001	D-20-16 24DAD2	623562	4875	CCK	CCK	01/10/12	206.5	4668.5	A		V		01/08/13	207.4	4667.6	A		V		-0.9
314301110350901	D-20-17 02CCC	608620	4625	CCK	CCK	01/10/12	42.9	4582.1	A		V		01/09/13	43.7	4581.3	A		S		-0.8
313933110332801	D-20-17 25DDC	632894	4838	CCK	CCK	01/12/12	129.7	4708.3	A		V		01/09/13	130.6	4707.4	A		S		-0.9
314150110320401	D-20-18 17BCB	618570	4802	CCK	CCK	01/10/12	174.6	4627.4	A		V		01/09/13	178.4	4623.6	A		V		-3.8
313927110310401	D-20-18 33BBB	641932	4700	CCK	CCK	01/12/12	27.12	4672.88	A		S		01/09/13	26.6	4673.4	A		S		0.52
313748110424501	D-21-16 09ABA		4420	CCK	CCK	01/12/12	46.45	4373.55	A		S		01/08/13	47.11	4372.89	A		S		-0.66
313225110453301	D-22-15 12AAD2		4034	CCK	CCK	01/11/12	19.3	4014.7	A		S		01/08/13	21.9	4012.1	A		V		-2.6
345452110245401	A-18-18 34DAA2		4968	COP	COP	10/12/11	19.36	4948.64	A		S		01/25/13	19.25	4948.75	A	R	V		0.11
351534112105701	A-22-02 28ACD	584106	6735	COP	COP	03/15/12	2842.42	3892.58	A		VT		01/25/13	2842.9	3892.1	A		V		-0.48
352823111501301	A-24-05 11CDB	613870	7386	COP	COP	11/18/11	268.8	7117.2	A		V		10/25/12	269.4	7116.6	A		V		-0.6
353210111462401	A-25-06 20ACC	613880	6965	COP	COP	11/18/11	91.5	6873.5	A		V		10/25/12	91.9	6873.1	A		V		-0.4
352341114215001	B-23-20 12DBA2		3500	DET	DET	10/25/11	226.4	3273.6	A		V		10/23/12	225.8	3274.2	A		V		0.6
352838114295601	B-24-21 11CCB1		3803	DET	DET	10/25/11	311.8	3491.2	A	P	V		10/23/12	426.8	3376.2	A	P	V	PUMPING ~1/2 CFS	-115
353207114210301	B-25-19 19DCA	582738	2973	DET	DET	10/25/11	737	2236	A		V		10/23/12	736.9	2236.1	A		V		0.1
353337114235201	B-25-20 15AAA	637009	2820	DET	DET	10/25/11	594.5	2225.5	A		V		10/23/12	594.5	2225.5	A		V		0
354027114273101	B-26-20 06ACB	505703	2499.67	DET	DET	02/01/12	461.24	2038.43	A		VT		01/23/13	461.16	2038.51	A		VT		0.08
354402114194001	B-27-19 17AAA	642196	3640	DET	DET	10/25/11	624.8	3015.2	A		V		10/23/12	621.5	3018.5	A		V		3.3
354424114254301	B-27-20 09CBD	594399	2600	DET	DET	10/25/11	506.1	2093.9	A		V		10/23/12	504.3	2095.7	A		V		1.8
354838114323201	B-28-21 20ADB	505400	2347	DET	DET	10/25/11	303.2	2043.8	A		V		10/23/12	303.5	2043.5	A		V		-0.3
354728114300501	B-28-21 26BBD	501132	2186	DET	DET	10/25/11	195.8	1990.2	A		V		10/23/12	195.9	1990.1	A		V		-0.1
355155114315101	B-29-21 28DDD	545711	2000	DET	DET	10/25/11	72.2	1927.8	A		V		10/23/12	72.3	1927.7	A		V		-0.1
360105114281101	B-30-20 06CAD UNSURV	629128	1339	DET	DET	10/25/11	57.4	1281.6	A		V		10/23/12	57.5	1281.5	A		V		-0.1
315231109423901	D-18-26 16BBB	616235	4281.9	DOU	DIN	11/15/11	176.1	4105.8	A		V		11/06/12	179	4102.9	A		V		-2.9
315042109414301	D-18-26 28AAA2		4268	DOU	DIN	11/15/11	245.7	4022.3	A		V		11/06/12	250.2	4017.8	A		V		-4.5
314806109423301	D-19-26 09BBB	625651	4237	DOU	DIN	11/15/11	224.2	4012.8	A		V		11/06/12	233.8	4003.2	A		V		-9.6
314557109392401	D-19-26 23DAA	618189	4300	DOU	DIN	11/15/11	361.9	3938.1	A		V		11/06/12	377.9	3922.1	A		V		-16
314358109414801	D-19-26 33CDA		4188.9	DOU	DIN	11/15/11	168.4	4020.5	A		V		11/06/12	168.4	4020.5	A		V		0
314139109430401	D-20-26 17BDC	617290	4137	DOU	DIN	11/15/11	85.6	4051.4	A		V		11/06/12	86.8	4050.2	A		V		-1.2
314039109391501	D-20-26 23DAA2		4169	DOU	DIN	11/15/11	119.1	4049.9	A		V		11/06/12	120.3	4048.7	A		V		-1.2
313941109390601	D-20-26 25CBC	600023	4158	DOU	DIN	11/15/11	119.5	4038.5	A		V		11/06/12	120.8	4037.2	A		V		-1.3
313826109402301	D-21-26 02BAA		4130	DOU	DIN	11/16/11	104.2	4025.8	A		V		11/06/12	104.7	4025.3	A		V		-0.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
313740109403801	D-21-26 02CCD	609654	4141	DOU	DIN	11/16/11	128.1	4012.9	A		V		11/06/12	130.7	4010.3	A		V		-2.6
313550109392001	D-21-26 24ABB	632767	4196	DOU	DIN	11/16/11	192.1	4003.9	A		V		11/06/12	193.3	4002.7	A		V		-1.2
313332109430001	D-21-26 32DAD	602706	4077.24	DOU	DIN	11/16/11	81.4	3995.84	A		V		09/26/13	81.25	3995.99	A		VT		0.15
313107109461601	D-22-25 14ADD2		4125	DOU	DIN	11/16/11			A	D	V		11/08/12			A	D	V		
313242109415501	D-22-26 04DAD		4095	DOU	DIN	11/16/11	128.3	3966.7	A		V		11/08/12	125.4	3969.6	A		V		2.9
312527109395701	D-23-26 13CCC1	625680	4009	DOU	DIN	11/16/11	69.1	3939.9	A		S		11/08/12	71.8	3937.2	A		S		-2.7
312448109450001	D-23-26 19CBC2	603927	4158	DOU	DIN	11/16/11	123.5	4034.5	A		V		11/08/12	123.8	4034.2	A		V		-0.3
312638109355901	D-23-27 09DAB	617653	4055	DOU	DIN	11/16/11	215.7	3839.3	A		V		11/08/12	217	3838	A		V		-1.3
312433109344901	D-23-27 22DDA2		4042	DOU	DIN	11/16/11	236.9	3805.1	A		V		11/07/12	239.2	3802.8	A		V		-2.3
312615109304201	D-23-28 08DDD		4258	DOU	DIN	11/16/11	67.2	4190.8	A		V		11/07/12	69.5	4188.5	A		V		-2.3
312248109323801	D-23-28 31CCC		4042	DOU	DIN	11/17/11	321.9	3720.1	A		V		11/07/12	326.1	3715.9	A		V		-4.2
314225109475401	D-20-25 09CAA	633787	4559.2	DOU	DOU	11/15/11	226.4	4332.8	A		V		11/06/12	232.2	4327	A		V		-5.8
312154109394401	D-24-26 01CCC		4075	DOU	DOU	11/16/11	132.7	3942.3	A		V		11/08/12	132	3943	A		V		0.7
330858110495101	D-03-15 29AAB	624276	2715	DSW	DSW	01/23/12	98.2	2616.8	A		S		01/14/13	98.9	2616.1	A		S		-0.7
323938108541901	19S 20W 16 222		4097	DUN	DNM	11/30/11	85.9	4011.1	A		V		10/31/12	142	3955	A	P	V		-56.1
323438108514601	20S 20W 12 144		4206	DUN	DNM	11/30/11	270.2	3935.8	A		V		10/31/12	275.7	3930.3	A		V		-5.5
323555108581601	20S 21W 01 131		4153	DUN	DNM	11/30/11	316.9	3836.1	A		V		10/31/12	317.3	3835.7	A		V		-0.4
323425109022101	20S 21W 17 111		3990	DUN	DNM	11/30/11	125.4	3864.6	A	P	V		10/31/12	126.1	3863.9	A		V		-0.7
325655109135001	D-06-30 01BAA	637316	3645	DUN	DUN	11/30/11	192.1	3452.9	A		V		10/31/12	192.8	3452.2	A		V		-0.7
325114109105801	D-07-31 04BCC		3544	DUN	DUN	11/30/11	30.9	3513.1	A		S		10/31/12	31.4	3512.6	A		V		-0.5
324707109093901	D-07-31 34BAC		3590	DUN	DUN	11/30/11	45.2	3544.8	A		V		10/31/12	54.1	3535.9	A		V		-8.9
324348109064601	D-08-32 18CCD	628601	3655	DUN	DUN	12/01/11	23.3	3631.7	A	R	V	PUMP SHUT OFF LESS THAN 5 MINUTES PRIOR TO MEASUREMENT	10/31/12	23.7	3631.3	A		V		-0.4
324355109051801	D-08-32 20ABB		3705	DUN	DUN	11/30/11	72.1	3632.9	A		S		10/31/12	72.2	3632.8	A		V		-0.1
324142109030001	D-08-32 34ADD	628592	3730	DUN	DUN	11/30/11	47.5	3682.5	A		V		10/31/12	51.9	3678.1	A		V		-4.4
323922109034501	D-09-32 15BBB	637313	3810	DUN	DUN	12/01/11	128.3	3681.7	A		V		10/31/12	129.9	3680.1	A		V		-1.6
331337112383401	C-02-04 26BDA		900	GIL	GIL	12/14/11	331.6	568.4	A		V		11/07/12	335.7	564.3	A		V		-4.1
331246112410801	C-02-04 32ADA		822	GIL	GIL	12/16/11	303.8	518.2	A		V		11/08/12	315.5	506.5	A		V		-11.7
331333112443001	C-02-05 26CBA		766	GIL	GIL	12/16/11	141.8	624.2	A		V		11/08/12	151.1	614.9	A		V		-9.3
331210112425701	C-03-04 06BBA	622286	748	GIL	GIL	12/16/11	190.8	557.2	A		V		11/08/12			A	P	V		
331007112390801	C-03-04 15ADC		846	GIL	GIL	12/14/11	352	494	A		V		11/07/12			A	Z	V	NO MP. NEED TO DRILL AND TAP	
331008112410801	C-03-04 17ADD	622291	747.01	GIL	GIL	10/06/11	252.78	494.23	A		VT		11/20/12	269.21	477.8	A		VT		-16.43
330847112425501	C-03-04 19CCD	612571	710	GIL	GIL	12/16/11	162.3	547.7	A		V		11/08/12			A	P	V		
330841112392701	C-03-04 27BAA	803534	812	GIL	GIL	12/14/11	334.8	477.2	A		V		11/07/12	335.4	476.6	A		S		-0.6
331143112450801	C-03-05 02CBB		730	GIL	GIL	12/16/11	80.8	649.2	A		V		11/08/12			A	P	V		
330604112403101	C-04-04 09BAA1		705	GIL	GIL	12/16/11	210.1	494.9	A		V		11/07/12	230	475	A		V		-19.9
330258112385901	C-04-04 27DAA	622317	741	GIL	GIL	12/16/11	260.7	480.3	A		V		11/07/12	275.3	465.7	A		V		-14.6
330143112582201	C-04-07 34CDC	628201	580	GIL	GIL	12/20/11	31.7	548.3	A		V		11/14/12	37.5	542.5	A		S		-5.8
330047112361401	C-05-03 07ABB2	615044	930	GIL	GIL	12/14/11	409.8	520.2	A		V		11/08/12	412.8	517.2	A		V		-3
325813112345301	C-05-03 29AAA		1013.59	GIL	GIL	12/14/11	478.4	535.19	A		V		11/09/12	481	532.59	A		V		-2.6
325742112354601	C-05-03 29CBC2	650677	991	GIL	GIL	12/14/11	457	534	A		V		11/09/12	458.9	532.1	A		V		-1.9
330020112394901	C-05-04 10CBC	622319	738	GIL	GIL	12/16/11	233.8	504.2	A		V		11/07/12			A	P	V		
325700112415901	C-05-04 31ADD	622309	742	GIL	GIL	12/14/11	225.7	516.3	A		V		11/07/12	229.6	512.4	A		V		-3.9
325816112473101	C-05-05 20DCD		655	GIL	GIL	12/20/11	112.6	542.4	A		V		11/13/12			A	Z	V	UTM LOCKED GATE/NO TRESPASSING SIGN.	
325920112533201	C-05-06 17DAD		658	GIL	GIL	02/07/12	95.5	562.5	A	K	V		11/14/12	90.9	567.1	A	K	V		4.6
325650112552701	C-05-06 31CBB	622330	723	GIL	GIL	12/20/11	162.6	560.4	A		V		11/14/12	170.2	552.8	A		V		-7.6
325605112315001	C-06-03 02ADD	807428	1220.09	GIL	GIL	12/21/11	653.1	566.99	A		V		11/09/12	656.1	563.99	A		V		-3
325450112371501	C-06-04 12CDD	650671	980	GIL	GIL	12/21/11	434.3	545.7	A		V		11/09/12	437	543	A		V		-2.7
325627112433201	C-06-05 01BAA	622353	740	GIL	GIL	12/21/11			A	O	V		11/09/12			A	O	V		
325543112440201	C-06-05 02DDD	622362	755	GIL	GIL	12/20/11	220.4	534.6	A		V		11/09/12	230.6	524.4	A		V		-10.2
325553112462101	C-06-05 04DCB	622326	739	GIL	GIL	12/21/11	196	543	A	K	V		11/13/12	208.4	530.6	A		V		-12.4
325253112434801	C-06-05 25BBB2	609892	860	GIL	GIL	12/20/11	325	535	A		V		11/15/12			A	P	V		

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
352910111553001	B-24-16 01DDD1	619553	2961	HUA	HUA	10/25/11	448.5	2512.5	A		V		11/15/12			A	O	V	UTM - OBSTRUCTED AT 250' AND THEN 350 FT.	
353105114021001	B-25-16 30CDA		2945	HUA	HUA	10/25/11	433.7	2511.3	A		V		11/14/12	434.6	2510.4	A		V		-0.9
353610114033501	B-26-17 35AAA	600500	2768	HUA	HUA	10/25/11	262.6	2505.4	A		V		11/14/12	264.2	2503.8	A		V		-1.6
354036114110601	B-26-18 03AAA1	641124	3300	HUA	HUA	10/26/11	557.9	2742.1	A		V		11/14/12	558.8	2741.2	A		V	PUMPED YESTERDAY	-0.9
354130113595601	B-27-16 33BAA	800970	2792	HUA	HUA	10/25/11	348.5	2443.5	A		V		11/14/12	349.1	2442.9	A		V		-0.6
354238114042201	B-27-17 23CAC	640651	2765	HUA	HUA	10/25/11	364.4	2400.6	A		V		11/14/12	365.1	2399.9	A		V		-0.7
354552114085001	B-28-17 31CCC1	805894	3004	HUA	HUA	10/25/11	651.9	2352.1	A		V		11/14/12	654.1	2349.9	A		V		-2.2
354551114085401	B-28-17 31CCC2	208802	3004.87	HUA	HUA	09/17/12	651.3	2353.57	A		VT		01/23/13	651.3	2353.57	A		VT		0
355428114101601	B-29-18 13BBA	208804	2325	HUA	HUA	10/26/11	372.5	1952.5	A		V		11/14/12			A	Z	Z	UTM - OWNER WAS PUMPING FOR MINING PROJECT; DID NOT WANT MEASURED	
364632112261001	B-39-01 18DDB	637621	5585	KAN	KAN	10/27/11	484.8	5100.2	A		V		10/25/12	484.7	5100.3	A		V		0.1
364540112315501	B-39-02 20CDD	805803	5272	KAN	KAN	10/27/11	611.3	4660.7	A		V		10/25/12	611.3	4660.7	A		V		0
365403112452801	B-40-04 06AAC		5140	KAN	KAN	10/27/11	87.5	5052.5	A		V		10/25/12	87.6	5052.4	A		V		-0.1
345414110153601	A-17-20 06ACB	620722	5040	LCR	JCI	11/16/11	31.46	5008.54	A		S		10/24/12	44.3	4995.7	A		V		-12.84
345635110173801	A-18-19 23DBD		5030	LCR	JCI	11/16/11	50.8	4979.2	A		V		10/24/12	50.9	4979.1	A		V		-0.1
354229109345801	17 110-04.68X02.91		6293	LCR	LCR	10/12/11	141.6	6151.4	A	P	V		10/23/12	142.5	6150.5	A	P	V		-0.9
340010109090101	A-07-30 14BDD		8021	LCR	LCR	11/17/11	159	7862	A		V		10/23/12	164.8	7856.2	A		S		-5.8
340655109515901	A-08-23 01DBC		7318	LCR	LCR	10/11/11	194	7124	A		V		04/24/13	210.6	7107.4	A		S		-16.6
340723109561801	A-08-23 05BAD	905200	6935	LCR	LCR	10/11/11	89.5	6845.5	A		V		10/17/12	76	6859	A		S		13.5
340726109564501	A-08-23 05BBC	582261	6880	LCR	LCR	10/11/11	69.5	6810.5	A		V		10/17/12	101.6	6778.4	A		S		-32.1
340709109572001	A-08-23 06BDD	565242	6937	LCR	LCR	10/11/11	272.4	6664.6	A		V		10/17/12	271.3	6665.7	A		V		1.1
340655109570701	A-08-23 06DBD	521646	6918	LCR	LCR	10/11/11	147.1	6770.9	A		V		10/17/12	150	6768	A		S		-2.9
340618109550401	A-08-23 09ACC1	605035	7150	LCR	LCR	10/11/11	75.7	7074.3	A	P	V		10/18/12	68.4	7081.6	A		V		7.3
340618109550402	A-08-23 09ACC2	605048	7150	LCR	LCR	10/11/11	81.6	7068.4	A	S	V		10/18/12	68.2	7081.8	A		V		13.4
340614109544501	A-08-23 09DAA1	513936	7205	LCR	LCR	10/11/11	126.3	7078.7	A		V		10/18/12	131	7074	A		S		-4.7
340609109544001	A-08-23 09DAA2	569560	7205	LCR	LCR	04/24/12	354.6	6850.4	A		V		10/18/12	344.2	6860.8	A		S		10.4
340614109534101	A-08-23 10DAA1		7240	LCR	LCR	10/11/11	89.2	7150.8	A		V		10/17/12	96.3	7143.7	A		V		-7.1
340611109533801	A-08-23 10DAA2	565161	7240	LCR	LCR	10/11/11	98.3	7141.7	A		V		10/18/12	106.8	7133.2	A		V		-8.5
340630109530001	A-08-23 11ABC2		7265	LCR	LCR	10/11/11	95	7170	A		V		10/18/12	102.1	7162.9	A		VT		-7.1
340628109525301	A-08-23 11ABD		7280	LCR	LCR	10/11/11	110.4	7169.6	A		V		04/24/13	112.4	7167.6	A		V		-2
340958109593201	A-09-22 22AAC		6720	LCR	LCR	10/12/11	101.2	6618.8	A		V		10/16/12	100.2	6619.8	A		S		1
340948109592901	A-09-22 22DAA		6770	LCR	LCR	10/12/11	145.9	6624.1	A	R	V		10/17/12	151.6	6618.4	A	Z	S		-5.7
340942109594901	A-09-22 22DBB	594566	6690	LCR	LCR	10/12/11	86.3	6603.7	A		V		10/16/12	76.8	6613.2	A		S		9.5
341002109590701	A-09-22 23BBD	541353	6700	LCR	LCR	10/12/11	83.9	6616.1	A		V		10/16/12	69.2	6630.8	A		S		14.7
340941109585601	A-09-22 23CAA	508538	6715	LCR	LCR	10/12/11	29.9	6685.1	A		S		10/16/12	30.7	6684.3	A		S		-0.8
340929109581601	A-09-22 24CCB	616613	6720	LCR	LCR	10/12/11	46.7	6673.3	A		V		10/16/12	52.8	6667.2	A		S		-6.1
340944109571801	A-09-22 24DAA	565314	6789	LCR	LCR	10/12/11	95.4	6693.6	A		V		10/17/12	98.7	6690.3	A		S		-3.3
340859109573701	A-09-22 25ACA2	593730	6812	LCR	LCR	10/12/11	193.5	6618.5	A		V		10/17/12	202.8	6609.2	A		S		-9.3
340832109581101	A-09-22 25CCB		6760	LCR	LCR	10/12/11	86.8	6673.2	A	R	V		10/12/12	89.3	6670.7	A		S		-2.5
340828109575301	A-09-22 25CDC1		6755	LCR	LCR	10/12/11	104.1	6650.9	A	P	V		10/19/12	125.8	6629.2	A		S		-21.7
340829109571601	A-09-22 25DDD1		6825	LCR	LCR	10/12/11	70.1	6754.9	A	S	V		10/19/12	71.1	6753.9	A		S		-1
340827109571701	A-09-22 25DDD2		6825	LCR	LCR	10/12/11	226.9	6598.1	A	P	V		10/19/12	166.6	6658.4	A		V		60.3
340903109582602	A-09-22 26ADB2		6755	LCR	LCR	04/24/12	18.7	6736.3	A		V		10/17/12	21	6734	A		S		-2.3
340901109591601	A-09-22 26BCB	601140	6715	LCR	LCR	10/12/11	62.7	6652.3	A		V		10/16/12	67.8	6647.2	A		S		-5.1
340820109582401	A-09-22 35 AAA2	590483	6720	LCR	LCR	10/12/11	32.6	6687.4	A		V		10/17/12	33.2	6686.8	A		S		-0.6
340752109581701	A-09-22 36CBB	620708	6745	LCR	LCR	11/15/11	29.75	6715.25	A		S		10/19/12	31	6714	A		S		-1.25
340736109574801	A-09-22 36CDD		6800	LCR	LCR	10/11/11	141.6	6658.4	A	R	V		10/17/12	140.7	6659.3	A		S		0.9
340808109165001	A-09-29 33BDA	623223	6970	LCR	LCR	11/17/11	114.6	6855.4	A		V		06/10/13	151.5	6818.5	A		V		-36.9
341429110025201	A-10-22 30ABA	620773	6520	LCR	LCR	11/16/11	533.3	5986.7	A		V		10/22/12	540	5980	A		V		-6.7
341516109412401	A-10-25 22BBD2	532224	6930	LCR	LCR	11/16/11	271.4	6658.6	A		V		10/23/12	270.8	6659.2	A		V		0.6
342006109470801	A-11-24 22DBC	801337	6650	LCR	LCR	11/15/11	708.9	5941.1	A		V		10/22/12	710.3	5939.7	A		V		-1.4

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
342044109440001	A-11-25 18DCC2	806050	6430	LCR	LCR	11/15/11	28.19	6401.81	A		S		10/22/12	27.6	6402.4	A		S		0.59
342024109220301	A-11-28 22BDD2	085863	6062	LCR	LCR	02/06/12	106.85	5955.15	A		VT		10/02/12	107.46	5954.54	A		VT		-0.61
342033109174101	A-11-29 20ABB	611373	6521	LCR	LCR	11/16/11	626.3	5894.7	A		V		10/24/12	627.7	5893.3	A		V		-1.4
342342110322401	A-12-17 33BDD	616640	6560	LCR	LCR	11/14/11	492	6068	A		V		10/22/12	489.8	6070.2	A		V		2.2
342623109382901	A-12-26 18CBB	600014	6390	LCR	LCR	11/15/11	552.8	5837.2	A		V		10/22/12	551.2	5838.8	A		V		1.6
342516109372701	A-12-26 19DDA	532813	6305	LCR	LCR	11/15/11	14.45	6290.55	A		S		10/22/12	24.9	6280.1	A		S		-10.45
342548109250301	A-12-28 19BAD	620380	5925	LCR	LCR	11/16/11			A	O	V		10/24/12	57.2	5867.8	A		S		
343150110063001	A-13-21 10CDA	600370	5632	LCR	LCR	11/15/11	162	5470	A		V		10/22/12	160	5472	A		S		2
343009110043501	A-13-21 24CCB	604441	5618	LCR	LCR	11/15/11	108.65	5509.35	A		V		10/22/12	97.15	5520.85	A		S		11.5
343302109372001	A-13-26 06DCB	617800	5640	LCR	LCR	11/15/11	236.1	5403.9	A	K	V		10/24/12	249.1	5390.9	A		V		-13
343200109275801	A-13-27 15BDC	617786	5845	LCR	LCR	11/15/11	294	5551	A		V		10/24/12	295.1	5549.9	A		V		-1.1
342946109133501	A-13-29 35AAA	632094	6176	LCR	LCR	11/16/11	222.6	5953.4	A		V		10/24/12	221.6	5954.4	A		V		1
343655111111201	A-14-11 09ADC	637397	6905	LCR	LCR	11/17/11	511.1	6393.9	A		V		10/24/12	511.4	6393.6	A		V		-0.3
343816109550401	A-14-23 04CBA	200197	5493.25	LCR	LCR	02/07/12	169.45	5323.8	A		VT		10/02/12	172.93	5320.32	A		VT		-3.48
344058111033101	A-15-12 15DDC	631365	6503	LCR	LCR	02/09/12	665.7	5837.3	A		V		10/24/12	665.9	5837.1	A		V		-0.2
343946110275401	A-15-18 29CBB	600439	5919	LCR	LCR	09/19/12	574	5345	A		V		10/22/12	573.8	5345.2	A		V		0.2
343950109544001	A-15-23 28DCC1	618874	5352	LCR	LCR	11/15/11	33.75	5318.25	A		S		10/22/12	37.3	5314.7	A		V		-3.55
344644110024201	A-16-22 17CCD	607126	5165	LCR	LCR	11/15/11	55.26	5109.74	A	V	S	UNABLE TO OBTAIN SOUNDER MEASUREMENT FOR OIL CORRECTION.	10/22/12	55.9	5109.1	A	V	V		-0.64
345223110522301	A-17-14 17ADD	613985	5540	LCR	LCR	11/17/11	404.3	5135.7	A		V		10/26/12	404.2	5135.8	A		V		0.1
345023110111401	A-17-20 26DBC	632990	5361.75	LCR	LCR	02/06/12	306.48	5055.27	A		VT		10/01/12	307.16	5054.59	A		VT		-0.68
345310110062501	A-17-21 10CBA		5141	LCR	LCR	10/12/11	59.06	5081.94	A		S		10/26/12	56.6	5084.4	A		V		2.46
344929109514901	A-17-23 35DDA	506605	5611	LCR	LCR	10/12/11	307.6	5303.4	A		V		10/23/12	306.8	5304.2	A		V		0.8
345333109474501	A-17-24 09ABD	506603	5595.72	LCR	LCR	02/06/12	263.19	5332.53	A		VT		10/01/12	263.35	5332.37	A		VT		-0.16
345655111045101	A-18-12 13BBD	631371	5765	LCR	LCR	09/20/12			A	Z	V	UNABLE TO GAIN ACCESS HISP, W SIDE.	06/11/13	648.5	5116.5	A		V		
345750110482801	A-18-14 13ABD3	806154	5158	LCR	LCR	11/17/11	280.4	4877.6	A		V		10/24/12	282.3	4875.7	A		V		-1.9
345608110250001	A-18-18 27AAB	613429	4948	LCR	LCR	01/19/12	1.05	4946.95	A		S		10/24/12	2.6	4945.4	A		V		-1.55
350447110502301	A-19-14 03AAC1	618121	5140	LCR	LCR	10/12/11	398.1	4741.9	A		V		07/17/13	398	4742	A		V		0.1
350417110413301	A-19-16 06CDB1	085761	4830	LCR	LCR	11/17/11	43.8	4786.2	A		V		10/26/12	45.4	4784.6	A		V		-1.6
345955110202501	A-19-19 33CCB	521996	5150	LCR	LCR	11/16/11			A	Z	V	UTM, WELL LOCKED.	10/24/12	33.8	5116.2	A		V		
350856111441601	A-20-06 02BBC	606205	7186	LCR	LCR	11/18/11	1139	6047	O		F		12/19/12	1297	5889	O	P	F		-158
350848111381701	A-20-07 03ACA	559571	6914.66	LCR	LCR	02/06/12	926.23	5988.43	A		VT		10/01/12	926.49	5988.17	A		VT		-0.26
350706111014701	A-20-12H13CBB	613868	5349	LCR	LCR	10/12/11	561.8	4787.2	A		V		10/25/12	562	4787	A		V		-0.2
350845110540101	A-20-14 07CAD UNSURV	601271	4848.96	LCR	LCR	09/13/12	166.3	4682.66	A		V		04/17/13	166.95	4682.01	A		VT		-0.65
351025111303701	A-21-08 26DAB	641923	6710	LCR	LCR	10/11/11	1521.6	5188.4	A		V		10/16/12	1521.3	5188.7	A		V		0.3
351213111274001	A-21-09 17ACD	637392	6440	LCR	LCR	10/12/11	1311.4	5128.6	A		V		10/16/12	1310.8	5129.2	A		V		0.6
351149109260802	A-21-27 25BBD2	628733	5785	LCR	LCR	11/16/11	57.5	5727.5	A		S		10/23/12	58.6	5726.4	A		V		-1.1
351224109202401	A-21-28 23AAC	622724	5825	LCR	LCR	11/16/11	41.8	5783.2	A	R	V	PUMP SHUT DOWN FIVE MINUTES BEFORE MEASUREMENT.	10/23/12	43.6	5781.4	A	P	V		-1.8
351620111433201	A-22-06 23DBC3	644021	7332	LCR	LCR	10/12/11	116.7	7215.3	A		V		10/17/12	122.9	7209.1	A		V		-6.2
351556111430401	A-22-06 25BBC1		7322	LCR	LCR	10/12/11	184.9	7137.1	A		V		10/17/12	182.7	7139.3	A		V		2.2
351537111424801	A-22-06 25CAB3	600511	7310	LCR	LCR	01/19/12	167.1	7142.9	A		V		10/17/12	165.9	7144.1	A		V		1.2
351551111434701	A-22-06 26BDB1	608396	7300	LCR	LCR	01/19/12	74.4	7225.6	A	R	V		10/17/12	79	7221	A		V		-4.6
351520111431601	A-22-06 26DDC2		7350	LCR	LCR	10/12/11	123.5	7226.5	A		V		10/17/12	123.2	7226.8	A		V		0.3
351523111443801	A-22-06 27DCB2	647022	7318	LCR	LCR	10/12/11	50.1	7267.9	A		V		10/17/12	52.2	7265.8	A		V		-2.1
352214111324601	A-23-08 21ABA	649813	6923.6	LCR	LCR	10/11/11	1960.5	4963.1	A		V		10/16/12	1960.3	4963.3	A		V		0.2
352119109031601	A-23-31 33AAB	628127	6190	LCR	LCR	11/16/11	42.1	6147.9	A		V		10/23/12	42.9	6147.1	A		V		-0.8
353410111284001	A-25-09 06CCD	649814	5381	LCR	LCR	10/11/11	1586.8	3794.2	A		V		10/16/12	1585	3796	A		V		1.8
322726112502001	C-11-06 24BDA1	600485	1420	LGB	CHV	11/22/11	673.4	746.6	A		V		11/01/12	672.9	747.1	A		V		0.5
330202113032101	C-04-08 35BDD	603564	543	LGB	DEN	11/10/11	92.17	450.83	A		V		10/31/12	96.6	446.4	A	S	V	PUMPING SOUTH OF HERE.	-4.43
332022113285601	C-01-12 15CAC UNSURV	513721	1297	LGB	WEM	11/02/11	304.8	992.2	A		V		11/13/12	305	992	A		V		-0.2
330822113192101	C-03-10 29BCC	614970	793	LGB	WEM	11/09/11	386.1	406.9	A		V		10/31/12	388	405	A		V		-1.9

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
330725113260201	C-03-11 31DBB	804053	786.34	LGB	WEM	10/06/11	385.81	400.53	A		VT		02/06/13	387.47	398.87	A		VT		-1.66
330550113110701	C-04-09 09ADA	614989	623	LGB	WEM	11/10/11	198.4	424.6	A		V		10/31/12	200.2	422.8	A		V		-1.8
330700113154701	C-04-10 02BAA	614990	732	LGB	WEM	11/09/11	309.5	422.5	A		V		10/31/12	311.6	420.4	A		V		-2.1
330422113164301	C-04-10 22ABB	619482	608	LGB	WEM	11/09/11	135.5	472.5	A		V		10/31/12	137.6	470.4	A		V		-2.1
330514113231001	C-04-11 15BAB	618118	691	LGB	WEM	11/09/11	293.4	397.6	A		V		10/30/12	295.3	395.7	A	S	V	NEARBY PUMPING SOUTH OF HERE.	-1.9
330239113232801	C-04-11 34BBB	615043	603	LGB	WEM	11/09/11	217	386	A		V		10/30/12	209.9	393.1	A		V		7.1
330140113140901	C-05-09 06BBB	633678	501	LGB	WEM	11/10/11	51.4	449.6	A		V		10/31/12	51.4	449.6	A		S		0
325841114155401	C-05-19 19BCB UNSURV		835	LGB	WEM	11/01/11	634.2	200.8	A		V		11/14/12	631.3	203.7	A		V		2.9
325422113060801	C-06-08 17BDD	804050	708	LGB	WEM	11/07/11	232.65	475.35	A		S		10/29/12	232	476	A		V		0.65
325356113214201	C-06-11 14CDD		463	LGB	WEM	11/10/11	58.2	404.8	A		V		10/29/12	60.6	402.4	A		V		-2.4
325353113321101	C-06-12 19BBA		383	LGB	WEM	11/09/11	36.2	346.8	A		V		10/29/12	38.4	344.6	A		S		-2.2
325300113423201	C-06-14 28BAB	627175	408	LGB	WEM	11/08/11			A	O	V		10/30/12	108.3	299.7	A		V		
325300113455201	C-06-15 26AAA		410	LGB	WEM	11/08/11	106.4	303.6	A		S		10/30/12	101.4	308.6	A		V		5
325117113471701	C-06-15 34DCC		384.9	LGB	WEM	11/08/11	80.5	304.4	A		V		10/30/12	80.3	304.6	A		V		0.2
324628113145301	C-07-10 36BCC	615112	623	LGB	WEM	11/07/11	168.98	454.02	A		S		10/29/12	169.6	453.4	A		V		-0.62
324658113220801	C-07-11 27DDD	610466	540	LGB	WEM	11/10/11	228.9	311.1	A		V		10/29/12	233.4	306.6	A	S	V		-4.5
324750113275001	C-07-12 23CDD	615125	524	LGB	WEM	11/10/11			A	D	V		10/29/12	266.5	257.5	A		V		
324814113263501	C-07-12 24ACD	610478	512	LGB	WEM	11/10/11	318.8	193.2	A		V		10/29/12	325.5	186.5	A		V		-6.7
324839113353201	C-07-13 21AAA	803848	419	LGB	WEM	11/09/11	95	324	A		V		10/29/12	95.4	323.6	A		V		-0.4
325103113395001	C-07-14 02AAD		342	LGB	WEM	11/08/11	21.2	320.8	A		V		10/30/12	22.1	319.9	A		V		-0.9
324929113475501	C-07-15 16AAA		335	LGB	WEM	11/08/11	32.6	302.4	A		S		10/30/12	33.2	301.8	A		S		-0.6
324440113482601	C-08-15 09DBB	513657	379	LGB	WEM	11/08/11	106.7	272.3	A		V		10/29/12	106.7	272.3	A		V		0
324415113171201	C-08-17 12DDD2	511059	263	LGB	WEM	11/08/11	22	241	A		V		10/30/12	24.7	238.3	A		V		-2.7
324229114014601	C-08-17 20DCC		248	LGB	WEM	11/08/11	13.83	234.17	A		S		10/30/12	14.8	233.2	A		S		-0.97
324014114123601	C-09-19 04DAA	609429	208.1	LGB	WEM	11/08/11	12.7	195.4	A		V		10/30/12	13.1	195	A		S		-0.4
343007114213101	B-13-20 04ABB1	606035	475	LKH	LKH	10/27/11	26.6	448.4	A		V		10/25/12	25.8	449.2	A		V		0.8
324525110534701	D-08-14 09AAD	615540	3965	LSP	CGW	01/24/12	71.2	3893.8	A		V		01/15/13	72.8	3892.2	A		V		-1.6
325513110441001	D-06-16 08CBB1		2025	LSP	MAM	01/23/12	26	1999	A		S		01/14/13	27.1	1997.9	A	R	S	PUMP TURNED OFF @ 2:45 PM AFTER RUNNING FOR ABOUT 2.5 HOURS. MEASUREMENT TAKEN AT 3:45PM.	-1.1
325526110433801	D-06-16 08DAB2		2040	LSP	MAM	01/23/12			A	D	V	WELL COLLAPSED PER OWNER.	01/14/13			A	D	V	OWNER IS GETTING WELL DEEPENED	
324840110412001	D-07-16 22ADD	610320	2206.36	LSP	MAM	01/23/12	15.1	2191.26	A		S		01/15/13	16.1	2190.26	A		S		-1
324824110413801	D-07-16 22DBD		2230	LSP	MAM	01/23/12	27.2	2202.8	A		S		01/15/13	27.8	2202.2	A		S		-0.6
324208110393301	D-08-16 25DCD		2910	LSP	MAM	01/24/12	491.1	2418.9	A		V		01/15/13	490.1	2419.9	A		V		1
324418110350001	D-08-17 15DAA		3045	LSP	MAM	01/24/12	294.8	2750.2	A		V		01/15/13	295.4	2749.6	A		V		-0.6
323644110461201	D-09-15 35AAD	649302	4480	LSP	MAM	01/24/12	43.2	4436.8	A		S		01/15/13	44.7	4435.3	A		S		-1.5
322003110283701	D-13-18 02BDD		3240	LSP	MAM	01/25/12	122.3	3117.7	A		S		12/08/12	134.7	3105.3	A		S		-12.4
321715110220401	D-13-19 23DAD2		3145	LSP	MAM	01/25/12	40.4	3104.6	A		V		12/08/12	43.7	3101.3	A		V		-3.3
321017110171401	D-14-20 34CAA1		3360	LSP	MAM	01/25/12	117.9	3242.1	A		V		12/07/12	118.6	3241.4	A	S	V	CAAA2 PUMPING	-0.7
321157110143001	D-14-21 19CAD	615955	4210	LSP	MAM	01/25/12	86.6	4123.4	A		S		12/08/12	86.13	4123.87	A		S		0.47
320901110175301	D-15-20 09AAB2	607752	3306.85	LSP	MAM	02/02/12	32.67	3274.18	A		VT		01/15/13	32.91	3273.94	A		VT		-0.24
320836110172301	D-15-20 10CAB2	808718	3319	LSP	MAM	01/25/12	43.2	3275.8	A		S		12/07/12	42.8	3276.2	A		S		0.4
355959114021901	B-30-16 07ADC	637021	2621	MEA	MEA	10/26/11	133.1	2487.9	A		V		11/14/12	133	2488	A		V		0.1
355855114043501	B-30-17 14DCC	610730	3187.04	MEA	MEA	09/17/12	423.7	2763.34	A		VT		01/23/13	424.03	2763.01	A		VT		-0.33
345824114321901	B-18-21 05CAB3	510925	810	MHV	MHV	10/27/11	338.3	471.7	A		V		10/25/12	338.5	471.5	A		V		-0.2
350557114334501	B-20-22 24DDD	506309	905	MHV	MHV	10/27/11	427	478	A		V		10/25/12	427.1	477.9	A		V		-0.1
334845113312201	B-05-12 05AAD1	614500	1907	MMU	MMU	11/01/11	386.2	1520.8	A		V		10/31/12	394.3	1512.7	A		V		-8.1
334408113313401	B-05-12 32ADB		1697	MMU	MMU	11/01/11	144.1	1552.9	A		V		10/30/12	135.2	1561.8	A		V		8.9
334827113335701	B-05-13 01BDA	625292	1859	MMU	MMU	11/01/11	455.7	1403.3	A		V		10/31/12			A	O	V		
334818113350001	B-05-13 02DBB		1861.45	MMU	MMU	09/21/12	20.18	1841.27	A		VT		02/05/13	22.55	1838.9	A	S	VT		-2.37
334729113334201	B-05-13 12DAB1		1827.75	MMU	MMU	09/21/12	324.49	1503.26	A		VT		02/05/13	319	1508.75	A		VT		5.49
334557113393201	B-05-13 19BBD2		1955	MMU	MMU	11/01/11	382.1	1572.9	A		V		10/30/12	384.1	1570.9	A		V		-2

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
334452113370401	B-05-13 28ACC	607056	1918.3	MMU	MMU	11/01/11	313.7	1604.6	A		V		10/30/12	315.7	1602.6	A		V		-2
335334113250701	B-06-11 05ADD	804122	1991.42	MMU	MMU	10/07/11	245.57	1745.85	A		VT		02/05/13	246.58	1744.84	A		VT		-1.01
335053113224001	B-06-12 19DBB		1939.09	MMU	MMU	11/01/11	44.8	1894.29	A		S		10/31/12	44.3	1894.79	A		S		0.5
334955113365201	B-06-13 28DBD2	634103	2009	MMU	MMU	11/01/11	592.6	1416.4	A		V		10/30/12	597.5	1411.5	A		V		-4.9
335637113002801	B-07-07 17DCC	647309	2409	MMU	MMU	11/02/11	492.9	1916.1	A		V		03/20/13	487.2	1921.8	A		V		5.7
335727113045101	B-07-08 15BAA	807721	2257	MMU	MMU	11/02/11	629.6	1627.4	A		V		11/06/12	630.7	1626.3	A		V		-1.1
335545113062501	B-07-08 20DDD		2224	MMU	MMU	11/02/11	678.2	1545.8	A		V		11/06/12	676.6	1547.4	A		V		1.6
335635113110601	B-07-09 15CDD	604129	2153	MMU	MMU	11/01/11	577.5	1575.5	A		V		11/06/12	573.9	1579.1	A		V		3.6
335449113120601	B-07-09 33ABB	612679	2235	MMU	MMU	11/01/11	640.3	1594.7	A		V		11/02/12	642.8	1592.2	A		V		-2.5
335633113195701	B-07-10 19AAA	604150	2056	MMU	MMU	11/01/11	362.1	1693.9	A		V		03/20/13	384.6	1671.4	A		V		-22.5
335407113175201	B-07-10 33DDA2	546173	2205	MMU	MMU	11/01/11	541.5	1663.5	A		V		11/02/12	543.3	1661.7	A		V		-1.8
335741113251401	B-07-11 08DAD2	506602	2175	MMU	MMU	11/01/11	526.2	1648.8	A		V		11/02/12	528.6	1646.4	A		V		-2.4
335535113232701	B-07-11 27ABC	801549	2028	MMU	MMU	11/01/11	261.3	1766.7	A		V		11/02/12	262.5	1765.5	A		V		-1.2
340005113101801	B-08-09 26CCD	640729	2191	MMU	MMU	11/01/11	559.3	1631.7	A		V		11/06/12	496.1	1694.9	A		V		63.2
340003113154501	B-08-10 36BBB	614567	2198	MMU	MMU	11/01/11	550.5	1647.5	A		V		11/06/12	552.5	1645.5	A		V		-2
335145109082901	A-05-30 01BBB3	598440	8270	MOR	MOR	11/17/11	19	8251	A		V		10/23/12	20.1	8249.9	A		S		-1.1
334929109075301	A-05-30 13DBC		8020	MOR	MOR	11/17/11	73.7	7946.3	A		V		10/23/12	81.3	7938.7	A		S		-7.6
334954109084501	A-05-30 14ABD	508886	8045	MOR	MOR	11/17/11	87.9	7957.1	A		V		10/23/12	95.1	7949.9	A		S		-7.2
334930109044701	A-05-31 16DBC		7936	MOR	MOR	11/17/11	40.32	7895.68	A		S		10/23/12	42	7894	A		S		-1.68
330016109163701	D-05-30 17ABA	621098	3890	MOR	MOR	11/30/11	503.5	3386.5	A		V		10/31/12	503.8	3386.2	A		V		-0.3
365723111302801	A-41-08 14BCA	637389	4112	PAR	PAR	10/27/11	494.2	3617.8	A		V		10/24/12	498.9	3613.1	A		V	LAKE LEVEL 3620.04	-4.7
334716111542501	A-05-04 12CCB		2380	PHX	CRF	12/22/11	25.5	2354.5	A		V		11/27/12	28.7	2351.3	A		S		-3.2
334822111515401	A-05-05 05CAA	087599	2670.16	PHX	CRF	11/16/11	348.05	2322.11	A		VT		10/23/12	339.66	2330.5	A		VT		8.39
335052111564701	A-06-04 21DAC		2180	PHX	CRF	12/21/11	98.2	2081.8	A		V		11/27/12	108.8	2071.2	A		S		-10.6
335108111551901	A-06-04 23BCA	636832	2405	PHX	CRF	12/22/11	156.5	2248.5	A		V		11/27/12	161.2	2243.8	A		S		-4.7
334850111532401	A-06-05 31CCC2	604782	2558	PHX	CRF	12/21/11	255.5	2302.5	A		V		11/28/12	249.1	2308.9	A		V		6.4
332711111482601	A-01-05 02DDC1	607670	1259.78	PHX	ESR	02/21/12	123.81	1135.97	A		VT		02/22/13	143.65	1116.13	A		VT		-19.84
332614111503901	A-01-05 16ABB	607702	1244.78	PHX	ESR	01/11/12	116.8	1127.98	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/14/13	138.5	1106.28	S		V		-21.7
332337111481801	A-01-05 26DDD	607699	1225.12	PHX	ESR	01/09/12	105	1120.12	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/21/13	107	1118.12	S		V		-2
332346111512801	A-01-05 29DDA		1214.46	PHX	ESR	02/21/12	90.43	1124.03	A		VT		10/26/12	103.25	1111.21	A		VT		-12.82
332359111525701	A-01-05 30BDD	607741	1199	PHX	ESR	01/17/12	81.2	1117.8	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/10/13	80	1119	S		V		1.2
332746111430601	A-01-06 03ADA	629610	1400	PHX	ESR	12/12/11	278.6	1121.4	A		V		12/03/12	276.3	1123.7	A		V		2.3
332549111432601	A-01-06 15ACD	500994	1356.67	PHX	ESR	02/14/12	246.13	1110.54	A		VT		02/22/13	252	1104.67	A		VT		-5.87
332458111451001	A-01-06 21BCC	617831	1288.11	PHX	ESR	01/18/12	163.1	1125.01	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/29/13	164	1124.11	S		V		-0.9
332429111420401	A-01-06 26AAA	621102	1358	PHX	ESR	12/12/11	259.1	1098.9	A		V		12/03/12	257.5	1100.5	A		V		1.6
332335111460201	A-01-06 32BBA2	617868	1248.82	PHX	ESR	01/18/12	131.6	1117.22	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/28/13	133	1115.82	S		V		-1.4
332309111420501	A-01-06 36CBB2	505014	1337.8	PHX	ESR	12/14/11	254.3	1083.5	A		V		12/04/12	252.1	1085.7	A		V		2.2
332547111402701	A-01-07 18ACC	500714	1481	PHX	ESR	12/12/11	385.8	1095.2	A		V		03/07/13	373.5	1107.5	A		V		12.3
332507111361001	A-01-07 23ACA	613969	1605	PHX	ESR	12/06/11	596.6	1008.4	A		V		11/28/12	598	1007	A		V		-1.4
332247111385601	A-01-07 33CCC	505767	1420	PHX	ESR	12/12/11	351	1069	A		V		01/23/13	334	1086	A		V		17
332308111345001	A-01-07 36DAA2 PZ1		1564	PHX	ESR	01/26/12	549.4	1014.6	A		V		11/12/12	550.3	1013.7	A		V		-0.9

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
332308111345002	A-01-07 36DAA2 PZ2		1564	PHX	ESR	01/26/12	552.8	1011.2	A		V		11/12/12	553.7	1010.3	A		V		-0.9
332308111345003	A-01-07 36DAA2 PZ3		1564	PHX	ESR	01/26/12	514.1	1049.9	A		V		11/12/12	515.2	1048.8	A		V		-1.1
332614111311101	A-01-08 10DCC1	614002	1867	PHX	ESR	12/06/11	92.1	1774.9	A		V		11/27/12	92.4	1774.6	A		V		-0.3
333248111535801	A-02-04 01ACC	626816	1296.92	PHX	ESR	02/23/12	187.54	1109.38	A		VT		03/06/13	190.81	1106.11	A		VT		-3.27
333127111544601	A-02-04 11DCC2	617843	1275	PHX	ESR	01/09/12	310.4	964.6	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/15/13	321	954	S		V		-10.6
333009111560401	A-02-04 22BDD		1290	PHX	ESR	12/20/11	154.2	1135.8	A		V		11/27/12	153.2	1136.8	A		S		1
332855111535901	A-02-04 25CDD	626540	1233.58	PHX	ESR	08/28/12	98.57	1135.01	A		VT		10/24/12	94.83	1138.75	A		VT		3.74
332903111441901	A-02-06 28DDB	607739	1318	PHX	ESR	01/09/12	170.2	1147.8	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/30/13	182.5	1135.5	S		V		-12.3
332828111452901	A-02-06 32ACD	617871	1298	PHX	ESR	01/03/12	209	1089	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/28/13	206	1092	S		V		3
332837111445901	A-02-06 33BAB1	620482	1295	PHX	ESR	12/14/11	180.4	1114.6	A		V		12/04/12	177.1	1117.9	A		V		3.3
333755111542601	A-03-04 02DAA	626829	1501	PHX	ESR	12/20/11	373.5	1127.5	A		V		11/27/12	374.4	1126.6	A		V		-0.9
333705111552201	A-03-04 11CBA	626838	1449.03	PHX	ESR	11/16/11	265.19	1183.84	A		VT		10/23/12	265.45	1183.58	A		VT		-0.26
333507111573301	A-03-04 21CCB2	626625	1363	PHX	ESR	01/18/12	366.3	996.7	A		V	PUMP WAS TURNED OFF 12 HOURS PRIOR TO MEASUREMENT	01/30/13	364.4	998.6	A	R	V	PUMP OFF 24HRS	1.9
333448111542801	A-03-04 25BBB	626825	1351.19	PHX	ESR	11/16/11	319.7	1031.49	A		VT		10/23/12	317.93	1033.26	A		VT		1.77
333340111570101	A-03-04 33ACB	626627	1328	PHX	ESR	01/18/12	348.9	979.1	A		V	PUMP WAS TURNED OFF APPROXIMATELY 12 HOURS PRIOR TO MEASUREMENT	02/04/13	343.7	984.3	A		V		5.2
333546111511201	A-03-05 21BBA	800809	1435	PHX	ESR	12/20/11	273.3	1161.7	A		V		11/27/12	276.8	1158.2	A		V		-3.5
333427111475701	A-03-05 25CAB	600650	1555	PHX	ESR	12/20/11	419.4	1135.6	A		V		11/28/12	415.3	1139.7	A		V		4.1
333442111502101	A-03-05 28ADA	629249	1421	PHX	ESR	12/20/11	279.1	1141.9	A		V		11/27/12	278.5	1142.5	A		V		0.6
334154112001401	A-04-03 13BAA	503959	1615	PHX	ESR	12/21/11	497.9	1117.1	A		V		11/29/12	499.4	1115.6	A		V		-1.5
333917111594501	A-04-03 36AAA1	606354	1503	PHX	ESR	12/21/11	384.7	1118.3	A	S	V		11/27/12	384.8	1118.2	A		V		-0.1
334150111533901	A-04-04 13AAB1	626834	1945.08	PHX	ESR	11/16/11	817.35	1127.73	A		VT		10/23/12	814.78	1130.3	A		VT		2.57
334104111542501	A-04-04 13CCC		1798	PHX	ESR	12/21/11	680.9	1117.1	A		V		12/03/12	678.3	1119.7	A		V		2.6
333848111571501	A-04-04 33CBA	504791	1517	PHX	ESR	01/18/12	433.3	1083.7	A		V	PUMP WAS TURNED OFF APPROXIMATELY 12 HOURS PRIOR TO MEASUREMENT	01/30/13	433.5	1083.5	A		V		-0.2
334804111580601	A-05-04 05DCC2	800785	2000	PHX	ESR	12/21/11	801.2	1198.8	A		V		11/27/12	810.8	1189.2	A		V		-9.6
334359111563401	A-05-04 33DAA	600117	1976.25	PHX	ESR	11/16/11	849.19	1127.06	A		VT		10/24/12	847.67	1128.58	A		VT		1.52
335010112063001	A-06-02 25BDD1		1822	PHX	ESR	12/22/11	302.5	1519.5	A		V		11/27/12	303.3	1518.7	A		V		-0.8
335350112035301	A-06-03 05ADA	623536	2120	PHX	ESR	02/02/12	126.4	1993.6	A		V		11/30/12	133.4	1986.6	A		V		-7
335317112042701	A-06-03 05CCC		2050	PHX	ESR	02/03/12	186.3	1863.7	A		V		11/30/12	168.9	1881.1	A		V		17.4
334930112024601	A-06-03 34BBC	552697	1880	PHX	ESR	12/21/11	631	1249	A		V		11/27/12	634	1246	A		V		-3
335559112053901	A-07-03 19CDB	808795	2200	PHX	ESR	04/20/12	99.1	2100.9	A		V		12/17/12	102.6	2097.4	A		V		-3.5
332240111564201	D-01-04 03BBB2	617852	1182	PHX	ESR	01/12/12	80.2	1101.8	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/09/13	86	1096	A		V		-5.8
332123111581401	D-01-04 08ACC1	517597	1275	PHX	ESR	12/13/11	199.6	1075.4	A		V		12/03/12	195.2	1079.8	A		V		4.4
332125111561201	D-01-04 10BDD2	582989	1200	PHX	ESR	12/13/11	91.2	1108.8	A		V		12/18/12	95.3	1104.7	A		V		-4.1
332125111540601	D-01-04 12ACC	617861	1188	PHX	ESR	01/16/12	95.2	1092.8	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/10/13	99	1089	S		V		-3.8

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
332032111591201	D-01-04 18DBB1		1293	PHX	ESR	12/13/11	214	1079	A		V		12/03/12	215.1	1077.9	A		V		-1.1
332002111533901	D-01-04 24AAA	617856	1187	PHX	ESR	01/09/12	162	1025	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/10/13	164	1023	S		V		-2
331844111581501	D-01-04 29DBB	626841	1198	PHX	ESR	12/13/11	119.9	1078.1	A		V		12/03/12	121.8	1076.2	A		V		-1.9
332127111515901	D-01-05 08ACC	617859	1202	PHX	ESR	01/16/12	117.9	1084.1	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/14/13	119	1083	S		V		-1.1
332127111492801	D-01-05 10ADD	624351	1215.23	PHX	ESR	12/13/11	98.7	1116.53	A		V		12/03/12	102.2	1113.03	A		V		-3.5
332058111483901	D-01-05 14ABA	634676	1224	PHX	ESR	12/15/11	145.1	1078.9	A		V		12/05/12	142.4	1081.6	A		V		2.7
332008111495801	D-01-05 15CDD2	617083	1217.73	PHX	ESR	11/17/11	114.29	1103.44	A		VT		02/01/13	129.04	1088.69	A		VT		-14.75
332019111513101	D-01-05 17DDA	625830	1201	PHX	ESR	12/13/11	106.4	1094.6	A		V		12/03/12	107.4	1093.6	A		V		-1
331800111483501	D-01-05 35ADC	618622	1231.62	PHX	ESR	01/17/12	125.8	1105.82	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/21/13	129	1102.62	S		V		-3.2
332102111424501	D-01-06 11CDD2	620513	1295	PHX	ESR	12/14/11	219.5	1075.5	A		V		12/04/12	217.1	1077.9	A		V		2.4
332008111444401	D-01-06 21BAA	607690	1256.22	PHX	ESR	01/10/12	190.8	1065.42	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/29/13	189	1067.22	S		V		1.8
331918111421101	D-01-06 24CCC2	620517	1312	PHX	ESR	12/14/11	172.9	1139.1	A		V		12/04/12	171.6	1140.4	A		V		1.3
331734111434501	D-01-06 34CDD	620522	1295	PHX	ESR	12/14/11	158.8	1136.2	A		V		12/04/12	157.3	1137.7	A		V		1.5
332204111410001	D-01-07 06CCA	575993	1358	PHX	ESR	12/12/11	261.9	1096.1	A		V		01/24/13	250.4	1107.6	A		V		11.5
332108111394201	D-01-07 08CDA	621525	1365	PHX	ESR	12/15/11	240.4	1124.6	A		V		12/05/12	234.1	1130.9	A		V		6.3
331953111315001	D-01-08 21ADB PZ1		1565	PHX	ESR	01/26/12	335.1	1229.9	A	Z	V	WATER LEVEL UNEXPLAINABLY OVER 100 FT HIGHER THAN MAJORITY OF PREVIOUS MEASUREMENTS.	11/13/12	335.3	1229.7	A		V		-0.2
331953111315002	D-01-08 21ADB PZ2		1565	PHX	ESR	01/26/12	334.9	1230.1	A		V		11/13/12	335.1	1229.9	A		V		-0.2
331848111334901	D-01-08 30DAA PZ1	615222	1492	PHX	ESR	12/05/11	307.6	1184.4	A		V		11/27/12	305.1	1186.9	A		V		2.5
331848111334902	D-01-08 30DAA PZ2	615222	1492	PHX	ESR	12/05/11	308.4	1183.6	A		V		11/27/12	306.3	1185.7	A		V		2.1
332135111281801	D-01-09 07BDC2	801811	1751	PHX	ESR	12/08/11	357	1394	A		V		11/29/12	356.2	1394.8	A		V		0.8
331757111234601	D-01-09 35DBA	527324	1832	PHX	ESR	12/08/11	641.2	1190.8	A		V		11/29/12	640.1	1191.9	A		V		1.1
331803111172901	D-01-10 35DBA	628140	2040	PHX	ESR	05/17/12	65.8	1974.2	A		V		11/28/12	59.8	1980.2	A		V		6
331810111134501	D-01-11 34BCB UNSURV	600936	2180	PHX	ESR	12/06/11	17.1	2162.9	A		V		11/29/12	23.4	2156.6	A		V		-6.3
331452111500201	D-02-05 15CDC	085100	1219	PHX	ESR	12/15/11	121.3	1097.7	A		V		12/05/12	121.9	1097.1	A		V		-0.6
331357111501001	D-02-05 27BBA3	626097	1217	PHX	ESR	12/15/11	105.9	1111.1	A		V		12/05/12	107.2	1109.8	A		V		-1.3
331713111462001	D-02-06 06ADA	620524	1264	PHX	ESR	12/14/11	155.1	1108.9	A		V		12/04/12	154	1110	A		V		1.1
331613111431101	D-02-06 11BCC2	620529	1318	PHX	ESR	12/14/11	173.4	1144.6	A		V		12/04/12	171.9	1146.1	A		V		1.5
331517111465501	D-02-06 18CAA2	620535	1264	PHX	ESR	12/14/11	65.3	1198.7	A		V		12/04/12	67.5	1196.5	A		V		-2.2
331421111451701	D-02-06 20DAD	625145	1286	PHX	ESR	12/15/11	180.2	1105.8	A	P	V		12/05/12	183.7	1102.3	A	P	V		-3.5
331708111380501	D-02-07 04ADD	613581	1390	PHX	ESR	12/15/11	238.7	1151.3	A		V		12/05/12	234.3	1155.7	A		V		4.4
331548111373201	D-02-07 10CDD2		1412	PHX	ESR	12/15/11	239.5	1172.5	A		V		12/05/12	236.6	1175.4	A		V		2.9
331548111345801	D-02-07 12DDD	607979	1457	PHX	ESR	12/05/11	253	1204	A		V		11/27/12	251.1	1205.9	A		V		1.9
331456111390501	D-02-07 17DDD	801577	1384	PHX	ESR	12/05/11	189.2	1194.8	A		V		11/27/12	187.9	1196.1	A		V		1.3
331446111380001	D-02-07 22BBC	609473	1402.3	PHX	ESR	11/17/11	221.7	1180.6	A		VT		12/11/12	216.31	1185.99	A		VT		5.39
331313111350301	D-02-07 25DDD3	612290	1464	PHX	ESR	12/05/11	274.7	1189.3	A		V		11/27/12	273.6	1190.4	A		V		1.1
331324111370001	D-02-07 27DDA	615228	1427	PHX	ESR	12/05/11	257.8	1169.2	A		V		11/27/12	255.3	1171.7	A		V		2.5
331224111403701	D-02-07 31CDA2	608807	1442	PHX	ESR	12/15/11	345.7	1096.3	A		V		12/05/12	343	1099	A		V		2.7
331703111303401	D-02-08 02CBB PZ1		1573	PHX	ESR	02/02/12	414.3	1158.7	A		V		11/13/12	414.1	1158.9	A		V		0.2
331703111303402	D-02-08 02CBB PZ2		1573.3	PHX	ESR	02/02/12	409.3	1164	A		V		11/13/12	408.9	1164.4	A		V		0.4
331703111303403	D-02-08 02CBB PZ3		1573	PHX	ESR	02/02/12	398.7	1174.3	A		V		11/13/12	398.2	1174.8	A		V		0.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[2]	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE[3]	WY12 REMARK[4]	WY12 METHOD[5]	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[3]	WY13 REMARK[4]	WY13 METHOD[5]	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
331329111301201	D-02-08 26CAD1 PZ1		1569	PHX	ESR	01/26/12	360.4	1208.6	A		V		11/15/12	346.2	1222.8	A		V		14.2
331329111301202	D-02-08 26CAD1 PZ2		1569	PHX	ESR	01/26/12	378.8	1190.2	A		V		11/15/12	382.6	1186.4	A		V		-3.8
331329111301203	D-02-08 26CAD1 PZ3		1569	PHX	ESR	01/26/12	396.1	1172.9	A		V		11/15/12	381.9	1187.1	A		V		14.2
331245111314201	D-02-08 33DAA	608535	1524	PHX	ESR	12/05/11	329.7	1194.3	A		V		11/27/12	327.4	1196.6	A		V		2.3
331550111334801	D-02-08E07DDD	619742	1480	PHX	ESR	12/05/11	275.9	1204.1	A		V		11/27/12	273.7	1206.3	A		V		2.2
331236111223901	D-02-09 36DBD	615235	1750	PHX	ESR	12/08/11	539.1	1210.9	A		V		11/26/12	538.1	1211.9	A		V		1
331532111200901	D-02-10 16BCB	610435	1884	PHX	ESR	12/08/11	367.2	1516.8	A		V		11/26/12	367.9	1516.1	A		V		-0.7
331440111192401	D-02-10 21ADB	615236	1903	PHX	ESR	12/08/11	562.1	1340.9	A		V		11/26/12	563.2	1339.8	A		V		-1.1
331640111090801	D-02-12 07ABA	624605	2440	PHX	ESR	12/06/11	11.8	2428.2	A		V		11/28/12	14.7	2425.3	A		V		-2.9
331219111322901	D-03-08 04BBA	615275	1510	PHX	ESR	12/07/11	279.6	1230.4	A		V		11/29/12	278	1232	A		V		1.6
331037111324201	D-03-08 08DDD	615279	1491	PHX	ESR	12/07/11	302.8	1188.2	A		V		11/29/12	300.3	1190.7	A		V		2.5
331127111310201	D-03-08 10ABB	603378	1531	PHX	ESR	12/07/11	329	1202	A		V		11/29/12	327.6	1203.4	A		V		1.4
331033111282901	D-03-08 13AAA2	603383	1568	PHX	ESR	12/07/11	361.3	1206.7	A		V		11/26/12	358.8	1209.2	A		V		2.5
331008111303801	D-03-08 15DAA	603386	1527	PHX	ESR	12/07/11	302.2	1224.8	A	K	V		11/29/12	300.4	1226.6	A	K	V		1.8
331001111315801	D-03-08 16DBD	615283	1506	PHX	ESR	12/07/11	304	1202	A		V		11/29/12	302.4	1203.6	A		V		1.6
330846111302801	D-03-08 26AAA	615294	1537	PHX	ESR	12/07/11	319.1	1217.9	A		V		11/26/12	317.6	1219.4	A		V		1.5
330757111300001	D-03-08 35BAA	615302	1518	PHX	ESR	12/07/11	292	1226	A	K	V		11/29/12	290.3	1227.7	A	K	V		1.7
331042111254301	D-03-09 09DCD PZ1		1628	PHX	ESR	12/08/11	418.7	1209.3	A		V		11/29/12	417.5	1210.5	A		V		1.2
331042111254302	D-03-09 09DCD PZ2		1628	PHX	ESR	12/08/11	419.7	1208.3	A		V		11/29/12	418.6	1209.4	A		V		1.1
330916111262001	D-03-09 20DAA	610703	1595	PHX	ESR	12/08/11	377.5	1217.5	A		V		11/29/12	376.1	1218.9	A		V		1.4
330757111263401	D-03-09 32ABA		1566	PHX	ESR	12/08/11	341.7	1224.3	A		V		11/29/12	338.8	1227.2	A		V		2.9
330753111241901	D-03-09 34AAA	619399	1612	PHX	ESR	12/08/11	390.6	1221.4	A		V		11/26/12	390.3	1221.7	A		V		0.3
330617111302201	D-04-08 02CCC	610414	1532	PHX	ESR	12/08/11	241.3	1290.7	A		V		11/26/12	240.5	1291.5	A		V		0.8
330704111262601	D-04-09 05AAB2	612176	1550	PHX	ESR	12/08/11	323.9	1226.1	A		V		11/26/12	325.3	1224.7	A		V		-1.4
330547111274701	D-04-09 07DBB	623858	1510	PHX	ESR	12/08/11	271	1239	A		V		11/26/12	273.9	1236.1	A		V		-2.9
333309111362501	A-02-07 02BAA	600880	1382	PHX	FNH	12/12/11	61.6	1320.4	A		V		12/03/12	62.2	1319.8	A		V		-0.6
333639111433101	A-03-06 15ABA	604786	1674	PHX	FNH	12/20/11	325.1	1348.9	A		V		12/05/12	326.4	1347.6	A		V		-1.3
333505111422101	A-03-06 23DCB2	604787	1517.8	PHX	FNH	12/20/11	175.5	1342.3	A		V		12/05/12	176.2	1341.6	A		V		-0.7
333746111403101	A-03-07 06CDA		1415	PHX	FNH	12/28/11	30.92	1384.08	A		S		11/29/12	32.8	1382.2	A		S		-1.88
333447111402901	A-03-07 30BAD		1365	PHX	FNH	12/28/11	12.55	1352.45	A		S		11/29/12	14	1351	A		S		-1.45
334538111445301	A-05-06 21CBD2	546482	2235	PHX	FNH	12/22/11	338	1897	A		V		11/28/12	340.2	1894.8	A		V		-2.2
334500111430501	A-05-06 27ADD	508186	1969	PHX	FNH	12/22/11	184.3	1784.7	A		V		11/28/12	186.3	1782.7	A		V		-2
334341111461201	A-05-06 32CCC	808587	2351	PHX	FNH	12/22/11	653.8	1697.2	A	R	V		11/28/12	650.3	1700.7	A		V		3.5
334355111395101	A-05-07 32CBC1	510880	1549	PHX	FNH	12/22/11	67.6	1481.4	A		V		11/28/12	92.7	1456.3	A	S	S		-25.1
334354111395001	A-05-07 32CBC2		1547	PHX	FNH	12/22/11	57	1490	A		V		11/28/12	58.3	1488.7	A		S		-1.3
335227111491701	A-06-05 10DDA1		3305	PHX	FNH	12/21/11	50.9	3254.1	A		V		11/27/12	55.1	3249.9	A		S		-4.2
332745112404501	B-01-04 05AAA	802329	1138.63	PHX	HAS	02/22/12	225.61	913.02	A		VT		01/24/13	226.73	911.9	A		VT		-1.12
332654112403801	B-01-04 08AAA	802331	1093	PHX	HAS	12/12/11	211.4	881.6	A		V		12/05/12	213.9	879.1	A		V		-2.5
332648112454301	B-01-05 10BBC	614389	1010.81	PHX	HAS	10/19/11	46.56	964.25	A		VT		01/24/13	46.69	964.12	A		VT		-0.13
332541112454501	B-01-05 15CBB1	636568	980	PHX	HAS	12/15/11	44.7	935.3	A		V		12/04/12	44.9	935.1	A		V		-0.2
332416112454301	B-01-05 27BBC	639586	977.29	PHX	HAS	12/15/11	72.2	905.09	A		V		12/04/12	74.1	903.19	A		V		-1.9
332752112492301	B-01-06 01ABB	803547	1082	PHX	HAS	12/14/11	116.7	965.3	A		V		12/11/12	116.5	965.5	A		V		0.2
332740112515801	B-01-06 03BBC	800798	1069	PHX	HAS	12/14/11	101.4	967.6	A		V		12/12/12	101	968	A		V		0.4
332427112501301	B-01-06 23DCD	808647	987	PHX	HAS	12/14/11	151.1	835.9	A		V		12/12/12	153.1	833.9	A		V		-2
332752112560901	B-01-07 01BBB	614402	1070	PHX	HAS	12/15/11	156	914	A		V		12/04/12	144.4	925.6	A		V		11.6
333122112424101	B-02-04 07CCC2	517029	1233	PHX	HAS	12/15/11	209.5	1023.5	A		S		12/05/12	208.8	1024.2	A		V		0.7
333216112475201	B-02-05 06DDD	524267	1225	PHX	HAS	12/12/11	277.3	947.7	A		V		12/04/12	273.7	951.3	A		V		3.6
332924112433301	B-02-05 25BAB		1149	PHX	HAS	12/12/11	152.8	996.2	A		V		12/05/12	152.6	996.4	A		V		0.2
332858112470701	B-02-05 29DAC	804481	1127	PHX	HAS	12/12/11	145.8	981.2	A		V		12/04/12	145.7	981.3	A		V		0.1
333237112530501	B-02-06 05DAA	629184	1201	PHX	HAS	12/14/11	299.5	901.5	A		V		01/03/13	281.4	919.6	A	R	V	WELL PUMPING IN A.M. RECHARGE FACILITY NW OF WELL SITE.	18.1
333147112530001	B-02-06 09CBB	617571	1175	PHX	HAS	12/14/11	254.8	920.2	A		V		12/04/12	245.4	929.6	A		V		9.4
333028112525101	B-02-06 21BBA	804552	1136	PHX	HAS	12/14/11	181.3	954.7	A		V		12/04/12	172.6	963.4	A		V		8.7
333006112492701	B-02-06 24BDD	639855	1155	PHX	HAS	12/12/11	185.5	969.5	A		V		12/04/12	185.5	969.5	A		V		0
332817112523401	B-02-06 33CAA	617446	1075	PHX	HAS	12/14/11	97.9	977.1	A		V		12/12/12	93.4	981.6	A		S		4.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
333146112560801	B-02-07 12CBB	802455	1194	PHX	HAS	12/15/11	129.4	1064.6	A		V	NEARBY RECHARGE FACILITY	12/13/12	133.7	1060.3	A		V	NEARBY RECHARGE FACILITY NO LONGER IN SERVICE	-4.3
332939112594901	B-02-07 20CDD	600209	1188	PHX	HAS	12/15/11	175.4	1012.6	A		V		12/04/12	161.2	1026.8	A		V		14.2
332934112572801	B-02-07 27AAB	600199	1146.19	PHX	HAS	12/15/11	167.3	978.89	A		V		12/04/12	156.2	989.99	A		V		11.1
333252113013801	B-02-08 01AAC	501700	1380	PHX	HAS	12/15/11	348.8	1031.2	A		V		01/03/13	339.5	1040.5	A		V		9.3
333724112423601	B-03-04 07BBB	517028	1400	PHX	HAS	12/15/11	150.8	1249.2	A		V		12/12/12	164.8	1235.2	A		V		-14
333430112435001	B-03-05 26ADD		1237	PHX	HAS	12/15/11	67.4	1169.6	A		V		12/05/12	62.1	1174.9	A		S		5.3
333442112544001	B-03-06 30BAD	636337	1322	PHX	HAS	12/14/11	411.5	910.5	A		V		12/04/12	401	921	A		V		10.5
333353112500201	B-03-06 35AAA	524266	1285	PHX	HAS	12/12/11	367.6	917.4	A		V		12/04/12	362.7	922.3	A		V		4.9
334052112421901	B-04-04 19BAA	800517	1417	PHX	HAS	12/19/11	166.9	1250.1	A		V		12/12/12	165.2	1251.8	A		V		1.7
334306112433801	B-04-05 01CBA	516563	1600.64	PHX	HAS	12/02/11	332.26	1268.38	A		VT		10/11/12	332.28	1268.36	A		VT		-0.02
334325112472001	B-04-05 05ABB	802175	1620	PHX	HAS	12/19/11	375.3	1244.7	A		V		12/12/12	375.9	1244.1	A		V		-0.6
334212112485101	B-04-05 07CBB	516564	1580	PHX	HAS	12/12/11	352.5	1227.5	A		V		12/07/12	352.2	1227.8	A		V		0.3
334056112445001	B-04-05 22AAA	516565	1525	PHX	HAS	12/19/11	283.7	1241.3	A		V		12/12/12	282.4	1242.6	A		V		1.3
334259112522001	B-04-06 04DBD	505244	1700	PHX	HAS	12/12/11			A	O	V		12/06/12	465.5	1234.5	A		V		
334514112422001	B-05-04 20CCC	504783	1700	PHX	HAS	12/19/11	400.6	1299.4	A		V		12/06/12	400.6	1299.4	A		V		0
334513112380501	B-05-04 24CCD	802205	1720	PHX	HAS	12/19/11	425.1	1294.9	A		V		12/05/12	426.3	1293.7	A		V		-1.2
334713112464901	B-05-05 09DAC	537998	1841	PHX	HAS	12/19/11	529.9	1311.1	A		V		12/06/12	529.7	1311.3	A		V		0.2
334654112433001	B-05-05 13AAA	510003	1790	PHX	HAS	12/19/11	495.7	1294.3	A		V		12/06/12	496.7	1293.3	A		V		-1
334703112521901	B-05-06 10CDD	629322	1919	PHX	HAS	12/19/11	656.1	1262.9	A		V		12/06/12	655.9	1263.1	A		V		0.2
334452112502801	B-05-06 25BDC	609851	1720	PHX	HAS	12/19/11	461.6	1258.4	A		V		12/06/12	461.4	1258.6	A		V		0.2
334530112582201	B-05-07 22DBD	619272	1980	PHX	HAS	12/12/11	420.6	1559.4	A		V		12/06/12	421.1	1558.9	A		V		-0.5
335303112391601	B-06-04 02CCC		1970	PHX	HAS	12/13/11	184.6	1785.4	A		V		03/22/13	193.9	1776.1	A	R	V		-9.3
335120112372901	B-06-04 13DCD	632601	1970	PHX	HAS	12/07/11	453.7	1516.3	A		V		03/27/13	471.8	1498.2	A	R	V	RECOVERED TO 15 MIN	-18.1
335113112390301	B-06-04 23BBA		1824	PHX	HAS	12/07/11	132.9	1691.1	A		V		04/05/13	152.6	1671.4	A	R	V		-19.7
335124113063701	B-06-08 20ADC	614493	2199	PHX	HAS	11/03/11	259.5	1939.5	A		V		11/01/12	258.9	1940.1	A		V		0.6
332236112452001	C-01-05 03BAA1		931	PHX	HAS	12/14/11	89.8	841.2	A		V		12/11/12	90.8	840.2	A		V		-1
332132112482001	C-01-05 07ACB		876	PHX	HAS	01/26/12	66.8	809.2	A		V		12/13/12	66.4	809.6	A		V		0.4
332015112465001	C-01-05 17DDA	802217	838	PHX	HAS	12/14/11	43.9	794.1	A		V		12/13/12	43.5	794.5	A		V		0.4
331907112455901	C-01-05 28AAB	605129	787	PHX	HAS	12/14/11	85.3	701.7	A		V		12/18/12	87.5	699.5	A		V		-2.2
331906112461901	C-01-05 28BAA	629652	790	PHX	HAS	07/24/12	14.7	775.3	A		V		03/20/13	17.5	772.5	A		V		-2.8
331751112445701	C-01-05 34ADC1	628196	778	PHX	HAS	01/26/12			A	O	S	BOTH STEEL TAPE AND ELECTRIC SOUNDER WOULD NOT GO PAST 50 FEET DEPTH BELOW MEASURING POINT. NO WATER DETECTED ON STEEL TAPE OR SOUNDER.	12/18/12			A	Z	V	DRY - PROBE RETURNED WITH SEDIMENT IN TIP.	
332137112490001	C-01-06 12AAD	598717	904.94	PHX	HAS	12/02/11	88.1	816.84	A		VT		10/11/12	88.31	816.63	A		VT		-0.21
332053112570801	C-01-07 14BBB	604464	939	PHX	HAS	01/26/12	250.1	688.9	A		V		12/13/12	251.9	687.1	A		V		-1.8
331637112470901	C-02-05 08ABA	604278	775	PHX	HAS	12/14/11	62.5	712.5	A		V		12/13/12	69.6	705.4	A		V		-7.1
331518112454801	C-02-05 16DAA	805914	762	PHX	HAS	01/26/12	27.65	734.35	A		S		12/18/12	28.7	733.3	A		S		-1.05
334750112142901	A-05-01 10AAB	614032	1574	PHX	LKP	02/02/12	205	1369	A		V		11/30/12	203.8	1370.2	A		V		1.2
334814112094701	A-05-02 04CAB	623553	1615	PHX	LKP	02/01/12	214.3	1400.7	A		V		11/29/12	212.1	1402.9	A		V		2.2
334750112082001	A-05-02 10ABA	614028	1650	PHX	LKP	02/01/12	277.5	1372.5	A		V		11/29/12	277.2	1372.8	A		V		0.3
335028112163001	A-06-01 20DDC		1590	PHX	LKP	12/06/11	89.8	1500.2	A		V		03/21/13	89.4	1500.6	A		V		0.4
334953112101001	A-06-02 29DAD	800512	1713	PHX	LKP	02/02/12	205	1508	A		V		11/30/12	209.2	1503.8	A		V		-4.2
335623112063601	A-07-02 24BDA		2160	PHX	LKP	02/02/12	55	2105	A		V		11/30/12	58.7	2101.3	A		V		-3.7
335544112082201	A-07-02 27ABA	623759	2030	PHX	LKP	02/02/12	21.5	2008.5	A		V		12/04/12	28.8	2001.2	A		V		-7.3
331435112230201	C-02-01 20BAD		1130	PHX	WAT	01/04/12	335	795	A		V		12/06/12	335.5	794.5	A		V		-0.5
331432112184601	C-02-01 24ACB	620455	1350	PHX	WAT	12/27/11	491	859	A		V		12/03/12	491.6	858.4	A		V		-0.6
331354112233301	C-02-01 30AAA	610920	1103	PHX	WAT	01/04/12	310	793	A		V		12/06/12	316.2	786.8	A		V		-6.2
331300112213201	C-02-01 33AAA	605576	1169	PHX	WAT	12/27/11	357.3	811.7	A		V		12/03/12	359.4	809.6	A		V		-2.1
331214112215501	C-02-01 33CDD	625645	1142	PHX	WAT	12/27/11	243.3	898.7	A		V		12/03/12	250.1	891.9	A		V		-6.8

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
331637112291301	C-02-02 05CDC	800972	990	PHX	WAT	01/04/12	307.6	682.4	A	S	V		12/05/12	279.3	710.7	A		V		28.3
331543112283801	C-02-02 09CCC	624775	1023	PHX	WAT	01/04/12	295.3	727.7	A	V	V		12/05/12	297.1	725.9	A	V	V		-1.8
331548112263701	C-02-02 10DDA	601927	1017	PHX	WAT	01/09/12	269.2	747.8	A		V	PUMP REMOVED SINCE LAST MEASUREMENT, 7/21/2011.	12/05/12	277.9	739.1	A		V		-8.7
331311112252901	C-02-02 25CCC	607451	1078	PHX	WAT	01/04/12	308.1	769.9	A		V		12/05/12	311.4	766.6	A		V		-3.3
331307112273001	C-02-02 27CCC	803879	1135	PHX	WAT	01/04/12	373.1	761.9	A		V	PUT BACK INTO OPERATION SINCE 2004, NEW PUMP, ELECTRIC SERVICE, DISCHARGE PIPE, AND OTHER ASSOCATED WELL PIPES.	12/05/12	370.3	764.7	A		V		2.8
331321112265601	C-02-02 27DCB	616485	1108	PHX	WAT	01/04/12	348	760	A		V	PUT BACK INTO OPERATION SINCE LAST YEAR, NEW PUMP, ELECTRIC SERVICE, DISCHARGE PIPE, AND OTHER ASSOCATED WELL PLUMBING.	12/05/12	349.5	758.5	A		V		-1.5
331057112235801	C-03-01 07ACC		1153	PHX	WAT	12/27/11	319.2	833.8	A		V		12/05/12	325.2	827.8	A		V		-6
330846112235501	C-03-01 19DCC	629000	1225	PHX	WAT	12/28/11	396.5	828.5	A		V		12/05/12	396.8	828.2	A		V		-0.3
330846112215101	C-03-01 21DCC	629411	1182	PHX	WAT	12/28/11	352.4	829.6	A		V		02/26/13	349.9	832.1	A		V		2.5
330751112213401	C-03-01 28DDD	614966	1208	PHX	WAT	12/28/11	373.2	834.8	A		V		02/26/13	374.8	833.2	A		V		-1.6
331114112181701	D-03-01 07BBB2	615271	1272.3	PHX	WAT	12/27/11	433.1	839.2	A		V		12/05/12	433.2	839.1	A		V		-0.1
330934112171801	D-03-01 19AAA	611915	1293	PHX	WAT	12/27/11	447.2	845.8	A		V		12/05/12	447.6	845.4	A		V		-0.4
330700112181801	D-03-01 31CCC		1214.4	PHX	WAT	12/28/11	366.8	847.6	A		V		12/05/12	369.3	845.1	A		V		-2.5
330515112144101	D-04-01 10DCC		1275	PHX	WAT	12/28/11	411.1	863.9	A		V		12/06/12	411.8	863.2	A		V		-0.7
330423112134401	D-04-01 14CDD	804031	1288	PHX	WAT	12/28/11	389.7	898.3	A		V		12/06/12	389.7	898.3	A		V		0
330239112155201	D-04-01 28CDD	600522	1338	PHX	WAT	12/28/11	436.7	901.3	A		V		12/06/12	437.7	900.3	A		V		-1
332609112181501	A-01-01 07CCD	600101	987	PHX	WSR	01/11/12	72.2	914.8	A		V		12/13/12	75.6	911.4	A		V		-3.4
332613112151401	A-01-01 10CCC2	608436	1001.36	PHX	WSR	01/12/12	74	927.36	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/07/13	138	863.36	S		V		-64
332703112131001	A-01-01 12BBB	607206	1033.61	PHX	WSR	12/07/11	110.4	923.21	A		V		11/29/12	114.8	918.81	A		V		-4.4
332424112173501	A-01-01 19DCD1		965	PHX	WSR	01/09/12	36.1	928.9	A	P	V		12/13/12	28.9	936.1	A		V		7.2
332436112151801	A-01-01 21DDA5	607464	993	PHX	WSR	01/09/12	55	938	A		V		12/13/12	59.2	933.8	A		V		-4.2
332516112121901	A-01-01 24AAA	608368	1021	PHX	WSR	01/09/12	78	943	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/24/13	84.1	936.9	S		V		-6.1
332702112091601	A-01-02 09AAB2	607201	1060.3	PHX	WSR	12/07/11	123.7	936.6	A		V		11/29/12	134	926.3	A		V		-10.3
332330112100401	A-01-02 32AAA2	607696	1013	PHX	WSR	01/23/12	43	970	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/07/13	45	968	S		V		-2
332254112095001	A-01-02 33CBD	502420	1008	PHX	WSR	01/18/12	41.35	966.65	A		S		11/27/12	48.4	959.6	A		V		-7.05
332243112065801	A-01-02 35DDD	604323	1084	PHX	WSR	01/18/12	98.4	985.6	A		V		11/27/12	107.3	976.7	A		V		-8.9
332740111594301	A-01-03 01ADA2	801656	1154.76	PHX	WSR	11/18/11	70.64	1084.12	A		VT		02/01/13	71.79	1082.97	A		VT		-1.15
332707111594101	A-01-03 01DDD	608430	1140.35	PHX	WSR	01/16/12	60	1080.35	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/08/13	69.5	1070.85	S		V		-9.5
332747112041101	A-01-03 05ABD	801418	1086.99	PHX	WSR	11/18/11	88.51	998.48	A		VT		12/14/12	92.25	994.74	A		VT		-3.74

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
332612112042401	A-01-03 08CDD	504684	1075.87	PHX	WSR	11/18/11	85.7	990.17	A		S		11/27/12	92.6	983.27	A		V		-6.9
332521112014401	A-01-03 14CCC	522890	1097.25	PHX	WSR	01/18/12	78.1	1019.15	A		V		11/27/12	84.7	1012.55	A		V		-6.6
332600112054801	A-01-03 18BBC	607207	1058	PHX	WSR	12/07/11	86.5	971.5	A		V		11/29/12	94.5	963.5	A		V		-8
332455112031801	A-01-03 21ACC	626523	1080.87	PHX	WSR	01/18/12	73.3	1007.57	A		V		11/27/12	80.9	999.97	A		V		-7.6
332422112025001	A-01-03 28ABD	626567	1088.2	PHX	WSR	01/09/12	80	1008.2	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/08/13	86	1002.2	S		V		-6
332316112025201	A-01-03 33ADB	626563	1138	PHX	WSR	01/09/12	132.3	1005.7	S		A		01/08/13	140	998	S		A		-7.7
332307112003901	A-01-03 36BCC		1146	PHX	WSR	12/12/11	96.5	1049.5	A		V		12/03/12	98.1	1047.9	A		V		-1.6
332532111584001	A-01-04 18DAD		1131.22	PHX	WSR	12/12/11	30.9	1100.32	A		V		12/03/12	33.2	1098.02	A		V		-2.3
333126112162201	A-02-01 08DDD	608411	1056	PHX	WSR	01/10/12	107.5	948.5	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/29/13	124.9	931.1	S		V		-17.4
333122112140901	A-02-01 14BBA	617098	1085	PHX	WSR	01/23/12	162	923	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/07/13	165	920	S		V		-3
332938112162001	A-02-01 20DDD2	617100	1032	PHX	WSR	01/23/12	186	846	S		V	INSTRUMENT USED: H.OIL OIL/WATER INTERFACE METER - HERON	01/24/13	126	906	S		V		60
332936112152101	A-02-01 28AAA1	608358	1046	PHX	WSR	01/12/12	128	918	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/07/13	147.5	898.5	S		V		-19.5
332816112172301	A-02-01 31DAA	619314	1018	PHX	WSR	01/12/12	133.5	884.5	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/03/13	124	894	S		V		9.5
332816112121401	A-02-01 36DAD	608384	1062	PHX	WSR	01/17/12	141	921	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/29/13	138.6	923.4	A		V		2.4
333258112080201	A-02-02 03AAD	608419	1196.03	PHX	WSR	01/23/12	202.9	993.13	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/15/13	205.1	990.93	S		V		-2.2
333048112075901	A-02-02 14CBC2	608376	1142.32	PHX	WSR	01/23/12	150.7	991.62	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/17/13	149.1	993.22	S		V		1.6
333036112111001	A-02-02 18DDD	607674	1120.55	PHX	WSR	01/24/12	180	940.55	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/28/13	183.1	937.45	S		V		-3.1
332919112073901	A-02-02 26BDC	608377	1111.17	PHX	WSR	01/24/12	133	978.17	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/30/13	221	890.17	S		A		-88
332902112083101	A-02-02 27DCB1	626552	1100.19	PHX	WSR	10/19/11	141.48	958.71	A		VT		10/09/12	146.81	953.38	A		VT		-5.33
332938112093401	A-02-02 28ABB2	626576	1113.02	PHX	WSR	10/19/11	162.25	950.77	A		VT		10/09/12	167.84	945.18	A		VT		-5.59
332836112111001	A-02-02 31ADA	607727	1079.27	PHX	WSR	01/17/12	150	929.27	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/28/13	150.5	928.77	S		V		-0.5

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
333149112052901	A-02-03 07CAA		1160.4	PHX	WSR	01/31/12	90.4	1070	A		V		11/27/12	91	1069.4	A		V		-0.6
333135112032501	A-02-03 09CDA		1181.75	PHX	WSR	12/07/11	121.75	1060	A		VT		10/24/12	125.1	1056.65	A		VT		-3.35
333036112010401	A-02-03 14DCD	643681	1196	PHX	WSR	01/18/12	71.6	1124.4	A		S		11/27/12	71.6	1124.4	A		V		0
332840112014301	A-02-03 35BBC	607726	1132	PHX	WSR	01/24/12	74	1058	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/22/13	80.5	1051.5	S		V		-6.5
332913111575301	A-02-04 29DAB	633954	1241	PHX	WSR	12/12/11	20.5	1220.5	A		V		12/03/12	22.4	1218.6	A		V		-1.9
332918111590701	A-02-04 30ACC2	202398	1207	PHX	WSR	01/16/12	51	1156	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER; NOTE, SRP PROVIDED WATER LEVEL DATA FOR 55-595269.	01/16/13	57.5	1149.5	S		V		-6.5
333746112141201	A-03-01 02CBB	565552	1190	PHX	WSR	12/13/11	360.4	829.6	A		V		12/21/12	359.1	830.9	A		V		1.3
333817112154801	A-03-01 04BAA2		1202	PHX	WSR	12/13/11	404.2	797.8	A		V		12/14/12	390.1	811.9	A		V		14.1
333648112131001	A-03-01 11DDA	607684	1191.54	PHX	WSR	01/11/12	311	880.54	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/15/13	304.9	886.64	S		V		6.1
333541112175901	A-03-01 18CDD1	608175	1137	PHX	WSR	12/13/11	346.4	790.6	A		V		12/14/12	335.6	801.4	A		V		10.8
333513112161701	A-03-01 21CBB	621171	1127	PHX	WSR	12/08/11	269.5	857.5	A		V		12/05/12	269	858	A		V		0.5
333517112130701	A-03-01 24CBB	608413	1163	PHX	WSR	01/25/12	490	673	S		A		01/22/13	554	609	S		A		-64
333358112134201	A-03-01 35ABB	607737	1128	PHX	WSR	01/23/12	222	906	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/17/13	223.5	904.5	S		V		-1.5
333756112110201	A-03-02 06DAA	604120	1242.19	PHX	WSR	10/19/11	354.18	888.01	A		VT		01/23/13	350.15	892.04	A		VT		4.03
333730112110201	A-03-02 08BBA2	618731	1236	PHX	WSR	01/31/12	334.6	901.4	A		V		11/28/12	335.7	900.3	A		V		-1.1
333703112091801	A-03-02 09DBB	626611	1254.91	PHX	WSR	10/19/11	330.96	923.95	A		VT		01/23/13	324.3	930.61	A		VT		6.66
333550112080401	A-03-02 15DDD	626604	1256.56	PHX	WSR	10/19/11	298.85	957.71	A		VT		10/09/12	297.52	959.04	A		VT		1.33
333556112103501	A-03-02 17DCB	607743	1220.3	PHX	WSR	01/24/12	294.8	925.5	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/21/13	298.1	922.2	S		V		-3.3
333546112083201	A-03-02 22BAA	617992	1249	PHX	WSR	01/31/12	277.5	971.5	A		V		11/28/12	293.8	955.2	A		V		-16.3
333546112064001	A-03-02 24BAB2	626585	1274.79	PHX	WSR	11/16/11	310.26	964.53	A		VT		10/23/12	309.88	964.91	A		VT		0.38
333505112065401	A-03-02 24CCB	624791	1257	PHX	WSR	01/31/12	274.8	982.2	A	V	V		11/28/12	275.8	981.2	A	V	V		-1
333434112063201	A-03-02 25BDA	626600	1240.05	PHX	WSR	02/23/12	234.36	1005.69	A		VT		10/23/12	242.99	997.06	A		VT		-8.63
333415112100701	A-03-02 29DDA2	608402	1195	PHX	WSR	01/23/12	248.9	946.1	S		V	INSTRUMENT USED: HERON STANDARD OIL/WATER INTERFACE METER	01/15/13	251.2	943.8	S		V		-2.3
333347112080401	A-03-02 34ADA	626566	1214.45	PHX	WSR	01/13/12	212.18	1002.27	A		VT		10/09/12	217.75	996.7	A		VT		-5.57
334328112175201	A-04-01 06ABB1	507620	1295	PHX	WSR	12/05/11	74.2	1220.8	A		V		12/13/12	96.8	1198.2	A		V		-22.6
334205112163801	A-04-01 08DBD	629296	1310	PHX	WSR	12/05/11	265.1	1044.9	A		V		12/13/12	238	1072	A		V		27.1
334119112140901	A-04-01 14CBB	617657	1294.57	PHX	WSR	10/19/11	469.83	824.74	A		VT		10/12/12	467.24	827.33	A		VT		2.59
334052112141401	A-04-01 22AAA	804522	1280.59	PHX	WSR	01/31/12	461.3	819.29	A		V		11/28/12	460.5	820.09	A		V		0.8
333844112144501	A-04-01 34BDD2	622789	1214.22	PHX	WSR	10/19/11	386.88	827.34	A		VT		10/12/12	382.92	831.3	A		VT		3.96
334230112070901	A-04-02 11ADB	614010	1430	PHX	WSR	02/01/12	354.3	1075.7	A		V		11/30/12	353.6	1076.4	A		V		0.7
333943112075101	A-04-02 26CBA	626639	1346	PHX	WSR	01/31/12	417.3	928.7	A		V		02/28/13	414.6	931.4	A		V		2.7
333915112104001	A-04-02 32BAA2	604123	1278	PHX	WSR	02/01/12	447.3	830.7	A		V		11/28/12	389.1	888.9	A		V		58.2
332633112240801	B-01-01 07CAA2	607164	983	PHX	WSR	12/06/11	109.4	873.6	A		V		11/29/12	117.1	865.9	A		V		-7.7
332422112185101	B-01-01 25BAA	606288	942	PHX	WSR	01/09/12	21	921	A	V	Z	CORRECTED FOR OIL; STEEL AND SOUNDER MEAUREMENT	12/13/12	24.7	917.3	A		V		-3.7

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
332342112223201	B-01-01 29DDA2	619782	915	PHX	WSR	12/06/11	25.4	889.6	A		V		11/19/12	26.3	888.7	A		V		-0.9
332725112294301	B-01-02 05CBB	804205	1063	PHX	WSR	12/21/11	212.4	850.6	A		V		12/12/12	202.5	860.5	A		V		9.9
332607112284001	B-01-02 16BBB	625579	987	PHX	WSR	12/21/11	131.5	855.5	A		V	SLIGHT OIL, NOT ENOUGH FOR CORRECTION. WELL BACK IN OPERATION; NOT IN USE SINCE PREVIOUS YEAR'S MEASUREMENT.	12/12/12	133.3	853.7	A		V		-1.8
332515112254401	B-01-02 23AAB1	605111	943	PHX	WSR	01/09/12	71.2	871.8	A		V		01/07/13	74.3	868.7	A		V		-3.1
332348112283201	B-01-02 28CBD	619794	890	PHX	WSR	12/06/11	31.1	858.9	A		V		11/14/12	37.7	852.3	A		V		-6.6
332423112301201	B-01-02 30ABB	625903	930	PHX	WSR	12/21/11	73.3	856.7	A	V	V	SLIGHT OIL, MEASUREMENT NOT CORRECTED FOR OIL.	03/27/13	73.6	856.4	A		V		-0.3
332542112314201	B-01-03 14DBB	618447	1024	PHX	WSR	01/04/12	208.3	815.7	A		V	PUMP SHUTT OFF @ 3:00 AM; MEASURED @ 10:15 AM. ACCORDING TO TOWN OF BUCKEYE EMPLOYEE, WELL SCREEN CLEANED - REHAB'D ABOUT 3 MONTHS AGO.	12/12/12	205.5	818.5	A		V		2.8
332445112362501	B-01-03 19CBB	607153	995	PHX	WSR	12/06/11	131.1	863.9	A		V		11/29/12	133.2	861.8	A		V		-2.1
332452112335001	B-01-03 21DBB	605474	993.68	PHX	WSR	10/19/11	159.2	834.48	A		VT		11/20/12	156.86	836.82	A		VT		2.34
332330112331901	B-01-03 34BBB1	607172	917	PHX	WSR	12/06/11	67.7	849.3	A		V		11/29/12	67.5	849.5	A		V		0.2
332416112390101	B-01-04 27ABB	604631	988	PHX	WSR	12/21/11	116.6	871.4	A		V		12/04/12	119.4	868.6	A		V		-2.8
332302112423001	B-01-04 31BCD	607190	928	PHX	WSR	12/06/11	66.7	861.3	A		V		11/29/12	69.4	858.6	A		V		-2.7
333213112192001	B-02-01 01CCC2	609883	1069	PHX	WSR	01/11/12	235.6	833.4	A	R	V	PUMP OFF @ 11:55 AM; MEASURED @ 12:22PM.	03/27/13	238.4	830.6	A		V		-2.8
333304112240401	B-02-01 06ABB2	620810	1113.56	PHX	WSR	10/18/11	287.56	826	A		VT		10/11/12	283.23	830.33	A		VT		4.33
333239112240301	B-02-01 06DBB1		1117	PHX	WSR	01/11/12	273.6	843.4	A		V		12/13/12	271.1	845.9	A		V		2.5
333052112202401	B-02-01 14CBB		1057	PHX	WSR	01/11/12	208.1	848.9	A		V		12/13/12	204.4	852.6	A		V		3.7
333055112243101	B-02-01 18CBB2	620817	1078	PHX	WSR	01/11/12	287.4	790.6	A	R	V		12/13/12	237.8	840.2	A		V		49.6
333006112232601	B-02-01 20BCC	611717	1042	PHX	WSR	01/11/12	197.4	844.6	A		V	PUMP OFF SINCE 8/28/2011.	03/27/13	198.6	843.4	A		V		-1.2
332918112193901	B-02-01 26ACA	607156	1013	PHX	WSR	12/07/11	143.4	869.6	A		V		11/29/12	144.4	868.6	A		V		-1
332843112191601	B-02-01 36BBA3	608792	997	PHX	WSR	01/04/12	117.3	879.7	A		V	PUMP OFF FOR 6 DAYS.	01/03/13	118.6	878.4	A		V		-1.3
333223112280901	B-02-02 04DCB	612958	1204	PHX	WSR	12/08/11	346.9	857.1	A		V		11/28/12	346.2	857.8	A		V		0.7
332943112284601	B-02-02 20DDD2	634981	1163	PHX	WSR	01/11/12	346.1	816.9	A		V		12/13/12	348.9	814.1	A		V		-2.8
333028112270701	B-02-02 22ABB	612055	1119	PHX	WSR	01/11/12	280.4	838.6	A		V		12/13/12	284.9	834.1	A		V		-4.5
332937112250201	B-02-02 25ABB2	611698	1057	PHX	WSR	01/11/12	210.1	846.9	A		V	SLIGHT OIL, NOT ENOUGH FOR CORRECTION.	12/13/12	214.2	842.8	A		V		-4.1
333818112230401	B-03-01 05ABB	623681	1238	PHX	WSR	12/05/11	402.6	835.4	A		V		12/05/12	378.7	859.3	A		V		23.9
333723112192501	B-03-01 12BBB2	608647	1151	PHX	WSR	12/07/11	380.4	770.6	A		V		03/27/13	373.5	777.5	A		V	PVC TUBE	6.9
333540112202701	B-03-01 23BBB1		1134	PHX	WSR	12/08/11	272.1	861.9	A		V		12/05/12	267.2	866.8	A		V		4.9
333539112192301	B-03-01 24BBB3	603822	1118	PHX	WSR	12/06/11	341.5	776.5	A		V		12/13/12	338.1	779.9	A		V		3.4
333357112230401	B-03-01 32BAA	610105	1135	PHX	WSR	12/08/11	330.5	804.5	A		V		12/05/12	315.2	819.8	A	S	V		15.3
333330112205801	B-03-01 34DBB1		1100	PHX	WSR	12/08/11	220.8	879.2	A	S	V		12/05/12	219.2	880.8	A		V		1.6
333611112294501	B-03-02 18ADD	503408	1470	PHX	WSR	12/07/11	591.7	878.3	A		V		03/27/13	581.7	888.3	A		V		10
333541112280101	B-03-02 21ABA	612994	1332	PHX	WSR	12/08/11	408	924	A		V		11/28/12	404.9	927.1	A		V		3.1
333449112263801	B-03-02 27AAA	613001	1249	PHX	WSR	12/08/11	394.1	854.9	A		V		11/28/12	395	854	A		V		-0.9
333357112263601	B-03-02 35BBB	613003	1220	PHX	WSR	12/08/11	364.8	855.2	A		V		11/28/12	366.3	853.7	A		V		-1.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
333803112350701	B-03-03 05ADB	623549	1797	PHX	WSR	12/08/11			A	D	S		03/27/13			A	O	V	@ 23 FT WITH SOUNDER AND STEAL TAPE.	
334218112222701	B-04-01 09BCD	612953	1341	PHX	WSR	12/08/11	370.2	970.8	A		V		11/28/12	363.9	977.1	A		V		6.3
334033112242801	B-04-01 19BDC	612965	1320	PHX	WSR	12/08/11	494.2	825.8	A		V		11/28/12	493.2	826.8	A		V		1
334055112202801	B-04-01 23BBB	610215	1262	PHX	WSR	12/13/11	374.1	887.9	A		V		12/14/12	371.6	890.4	A		V		2.5
334147112294401	B-04-02 07DDD	511308	1460	PHX	WSR	12/07/11	324.6	1135.4	A		V		03/21/13	323.5	1136.5	A		V		1.1
334136112273901	B-04-02 16AAD	614444	1411	PHX	WSR	02/22/12	334.7	1076.3	A		V		12/13/12	334.7	1076.3	A		V		0
333915112265501	B-04-02 27DCD	612957	1332	PHX	WSR	12/08/11	458.7	873.3	A		V		11/28/12	458.2	873.8	A		V		0.5
334314112343701	B-04-03 04BDB	804655	1595	PHX	WSR	12/06/11	362.1	1232.9	A		V		03/22/13	362.1	1232.9	A		V		0
334147112320301	B-04-03 14ABA	505327	1500	PHX	WSR	12/08/11	316	1184	A	R	V		12/13/12	312.1	1187.9	A	R	V	PUMPED ~ 1 MIN WHILE IN WELL	3.9
334028112361401	B-04-03 19DBA	621513	1607	PHX	WSR	12/07/11	384.8	1222.2	A		V		12/13/12	384.3	1222.7	A		V		0.5
333912112335301	B-04-03 28DDD	614445	1628	PHX	WSR	12/08/11	413.3	1214.7	A		V		12/13/12			A	O	V	OBST@~380FT	
334509112242701	B-05-01 30BBA	801021	1515	PHX	WSR	12/05/11	326.2	1188.8	A		V		03/13/13	317.7	1197.3	A		V		8.5
334708112295301	B-05-02 08CCB	060001	1707	PHX	WSR	12/07/11	509.5	1197.5	A		V		03/27/13	505.4	1201.6	A		V		4.1
334603112252701	B-05-02 24BAB		1580	PHX	WSR	12/05/11	370.3	1209.7	A		V		03/22/13	362.1	1217.9	A		V		8.2
334451112495601	B-05-02 30ADD		1571	PHX	WSR	12/06/11	391.5	1179.5	A		V		04/05/13	387.9	1183.1	A	R	V		3.6
334418112261701	B-05-02 35BAA	617007	1491	PHX	WSR	12/05/11	273.9	1217.1	A		V		03/13/13	262.4	1228.6	A		V		11.5
334654112330401	B-05-03 15AAA	640010	1710	PHX	WSR	12/06/11	483.2	1226.8	A		V		03/22/13	482.1	1227.9	A		V		1.1
333038112330101	B-05-03 22ADD	087570	1649	PHX	WSR	12/06/11	426.5	1222.5	A		V		03/13/13	425.8	1223.2	A		V		0.7
335138112302001	B-06-02 18DBB	651280	2105	PHX	WSR	12/06/11	511.1	1593.9	A		V		03/21/13	511.2	1593.8	A		V		-0.1
335331112351501	B-06-03 05ADD	804224	2220	PHX	WSR	12/07/11	164.8	2055.2	A		V		03/21/13	166.7	2053.3	A	R	V		-1.9
334848112342901	B-06-03 33DCB	634832	1850	PHX	WSR	12/07/11	601.2	1248.8	A		V		03/21/13	597.6	1252.4	A		V		3.6
334847112310201	B-06-03 36DDD	614488	1823	PHX	WSR	12/07/11	614.4	1208.6	A		V		03/21/13	613.5	1209.5	A		V		0.9
332233112195101	C-01-01 02ABB		932	PHX	WSR	08/12/12	20.9	911.1	A		V		02/26/13	20.3	911.7	A		S		0.6
332218112291001	C-01-02 06ADD	619807	876	PHX	WSR	12/06/11	25.8	850.2	A		V		11/19/12	26.4	849.6	A		V		-0.6
332102112291201	C-01-02 08CDA	614938	898.57	PHX	WSR	12/21/11	50	848.57	A		V		12/04/12	50.8	847.77	A		V		-0.8
331937112292701	C-01-02 19ACD1	611625	922	PHX	WSR	01/04/12	82	840	A		V	PUMP SHUT-OFF @ 12:00 PM; MEASURED @ 3:53 PM.	12/12/12	75.7	846.3	A		V		6.3
332203112311801	C-01-03 02DAD	619811	862	PHX	WSR	12/06/11	15.9	846.1	A		V		11/19/12	15	847	A		V		0.9
332223112362201	C-01-03 06BCB	619815	878	PHX	WSR	12/06/11	39	839	A		V		11/13/12	40.1	837.9	A		V		-1.1
332113112351301	C-01-03 08CBD		839.66	PHX	WSR	12/21/11	15.5	824.16	A		V		12/04/12	15.7	823.96	A		V		-0.2
332016112311601	C-01-03 14DAD	618942	888	PHX	WSR	01/04/12	47.7	840.3	A		V		12/04/12	48.4	839.6	A		V		-0.7
332238112385901	C-01-04 03ABB		900	PHX	WSR	12/21/11	53.7	846.3	A		V		12/04/12	55.7	844.3	A		V		-2
332236112422901	C-01-04 06BBA	607189	919.17	PHX	WSR	10/19/11	63.9	855.27	A		VT		10/11/12	64.38	854.79	A		VT		-0.48
332125112420301	C-01-04 07BDD	619803	867	PHX	WSR	12/07/11	39.7	827.3	A		V		11/13/12	35.1	831.9	A		V		4.6
331906112380001	C-01-04 26ABB	628186	823	PHX	WSR	12/21/11	33.7	789.3	A		S		12/04/12	25.3	797.7	A		V		8.4
332147112073001	D-01-02 02DCC1		1100	PHX	WSR	01/18/12	92.5	1007.5	A	P	V		11/26/12	96.7	1003.3	A		V		-4.2
332121112110901	D-01-02 07ADD	626355	1020	PHX	WSR	01/18/12	31.6	988.4	A		V		11/29/12	36.7	983.3	A		V		-5.1
332002112093601	D-01-02 16CDD	626598	1070	PHX	WSR	01/18/12	65.2	1004.8	A		V		11/26/12	69.4	1000.6	A		V		-4.2
332003112103801	D-01-02 17CDD	626453	1025	PHX	WSR	01/18/12	50.5	974.5	A		V		11/26/12	49.8	975.2	A		V		0.7
330204111292401	D-04-08 35DDA	621538	1420	PIN	ELO	11/07/11	122.4	1297.6	A		V		11/13/12	119.8	1300.2	A		V		2.6
330515111245601	D-04-09 15BCA2 PZ1		1565	PIN	ELO	01/26/12	316	1249	A		V		11/15/12	316.7	1248.3	A		V		-0.7
330235111252101	D-04-09 33AAD	627609	1456	PIN	ELO	11/07/11	178	1278	A		V		11/13/12	177.5	1278.5	A		V		0.5
330522111160601	D-04-10 12DDD	621947	1553.8	PIN	ELO	11/07/11	33.7	1520.1	A		V		11/13/12	38.1	1515.7	A		V		-4.4
330435111212601	D-04-10 18DCD PZ1		1565	PIN	ELO	01/26/12	238.6	1326.4	A		V		11/15/12	266.2	1298.8	A		V		-27.6
330435111212602	D-04-10 18DCD PZ2		1565	PIN	ELO	01/26/12	241.2	1323.8	A		V		11/15/12	265.7	1299.3	A		V		-24.5
330311111214201	D-04-10 30BDD	605530	1490	PIN	ELO	11/07/11	177.6	1312.4	A		V		11/16/12	176.8	1313.2	A		V		0.8
325711111363801	D-05-07 26CDD	622466	1401	PIN	ELO	11/07/11	85.3	1315.7	A		V		11/13/12	84.9	1316.1	A		V		0.4
325712111383001	D-05-07 28DCC2		1412	PIN	ELO	11/07/11	119	1293	A		S		11/13/12	118.2	1293.8	A		V		0.8
325618111380801	D-05-07 33DDD	609618	1402	PIN	ELO	11/07/11	105	1297	A	S	V		11/13/12	104.5	1297.5	A		V		0.5
325618111370501	D-05-07 34DDD	604184	1406	PIN	ELO	11/07/11	92.4	1313.6	A		V		11/13/12	91.3	1314.7	A		V		1.1
325908111355701	D-05-07W13CAD		1386	PIN	ELO	11/07/11	74.1	1311.9	A		V		11/13/12	73.5	1312.5	A		V		0.6
330146111292301	D-05-08 02AAA	621952	1419	PIN	ELO	11/07/11	114.5	1304.5	A		V		11/13/12	116.2	1302.8	A		V		-1.7
330008111332601	D-05-08 17BBB2	621935	1409	PIN	ELO	11/08/11	114.2	1294.8	A		V		11/13/12	113.1	1295.9	A		V		1.1

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
325640111334501	D-05-08 31DCC2	622429	1415	PIN	ELO	11/08/11	74.2	1340.8	A		V		11/13/12	73.6	1341.4	A		V		0.6
325940111241001	D-05-09 14CBB	800875	1530	PIN	ELO	11/08/11	247.3	1282.7	A		V		11/13/12	245.5	1284.5	A		V		1.8
325945111275101	D-05-09 18BDD1	601792	1464	PIN	ELO	11/08/11	156.4	1307.6	A		V		11/13/12	154.3	1309.7	A		V		2.1
325944111275001	D-05-09 18BDD2	601789	1464	PIN	ELO	11/08/11	178.4	1285.6	A		V		11/13/12	176.1	1287.9	A		V		2.3
325807111261601	D-05-09 29ADA	635611	1520	PIN	ELO	11/09/11	169.5	1350.5	A		V		11/13/12	168.4	1351.6	A		V		1.1
325707111271801	D-05-09 31ADD	621904	1505	PIN	ELO	11/09/11	149.8	1355.2	A		V		11/13/12	148.2	1356.8	A		V		1.6
325340111411801	D-06-06 14DDD2	621201	1415	PIN	ELO	11/09/11	292.9	1122.1	A	K	V		10/29/12	297.9	1117.1	A		V		-5
325201111430301	D-06-06 22CCD	503113	1410	PIN	ELO	11/09/11	244.7	1165.3	A		V		10/31/12	287	1123	A		V		-42.3
325248111421901	D-06-06 22DDD	622167	1415	PIN	ELO	11/09/11	301.8	1113.2	A	R	V		10/31/12	307.7	1107.3	A	K	V	RECENTLY PUMPED <30M	-5.9
325316111412701	D-06-06 23ADC	621197	1417	PIN	ELO	11/09/11	293	1124	A		V		10/29/12	301.8	1115.2	A		V		-8.8
325112111401701	D-06-06 36DDA	605666	1443	PIN	ELO	11/09/11	134	1309	A		V		10/29/12	137.6	1305.4	A		S		-3.6
325117111342801	D-06-07 36DCB		1477.02	PIN	ELO	11/18/11	133.15	1343.87	A		VT		01/18/13	128.77	1348.25	A		VT		4.38
325503111284801	D-06-08 11ADA1	617559	1473	PIN	ELO	11/08/11	63.9	1409.1	A		S		11/14/12	64.1	1408.9	A		V		-0.2
325342111294701	D-06-08 14CCC	625234	1456	PIN	ELO	11/08/11	107.2	1348.8	A		V		11/14/12	191.8	1264.2	A	P	V		-84.6
325339111333001	D-06-08 18CDD2	605546	1451	PIN	ELO	11/08/11	116.5	1334.5	A		V		11/15/12	98.4	1352.6	A		V		18.1
325220111302201	D-06-08 27BDD2	625232	1470	PIN	ELO	11/07/11	124.7	1345.3	A		V		11/14/12	120.1	1349.9	A		V		4.6
325102111332901	D-06-08 31CDD	612214	1485	PIN	ELO	11/07/11	149.9	1335.1	A		V		11/21/12	140.1	1344.9	A		V		9.8
325531111285301	D-06-08S02DAD	617777	1472	PIN	ELO	11/08/11			A	Z	V		11/14/12			A	M	V	WELL HAS BEEN SEALED WITH CONCRETE	
325243111263901	D-06-09 29BBA3 PZ1		1542	PIN	ELO	01/27/12	244.6	1297.4	A		V		11/15/12	250.6	1291.4	A		V		-6
325243111264001	D-06-09 29BBA4		1542	PIN	ELO	01/27/12	280.4	1261.6	A		V		11/15/12	296.6	1245.4	A		V		-16.2
325634111264801	D-06-09N06DAA	604213	1522	PIN	ELO	11/08/11			A	O	V		11/14/12	246.2	1275.8	A	K	V		
325047111462501	D-07-05 01ADA		1402	PIN	ELO	11/08/11	43.9	1358.1	A		V		10/29/12	53	1349	A		S		-9.1
325012111434801	D-07-06 04DCC		1430	PIN	ELO	11/07/11	86.5	1343.5	A		V		11/13/12	95.8	1334.2	A		V		-9.3
324825111442301	D-07-06 17DDD2		1440	PIN	ELO	11/07/11	120.1	1319.9	A		S		11/13/12	120.8	1319.2	A		V		-0.7
324626111425001	D-07-06 34BAD	604516	1470.28	PIN	ELO	02/28/12	406.04	1064.24	A		VT		01/18/13	411.35	1058.93	A		VT		-5.31
324550111424901	D-07-06 34CDD2	604518	1475	PIN	ELO	11/07/11	391.5	1083.5	A		V		11/13/12	387.1	1087.9	A		V		4.4
324616111414301	D-07-06 35ACC	604510	1482	PIN	ELO	11/07/11			A	P	V		11/13/12	421.3	1060.7	A		V		
324917111353601	D-07-07 11CDD		1494	PIN	ELO	11/07/11	173.7	1320.3	A		V		11/14/12	171.7	1322.3	A		V		2
324757111350501	D-07-07 23ADD		1513	PIN	ELO	11/07/11	194.3	1318.7	A		V		11/14/12	191.3	1321.7	A		V		3
324640111401001	D-07-07 30CCC		1496	PIN	ELO	11/07/11	174.5	1321.5	A		V		11/14/12	172.3	1323.7	A		V		2.2
324558111391301	D-07-07 31DDA	608916	1509	PIN	ELO	11/07/11	465.9	1043.1	A		V		11/14/12	459.9	1049.1	A		V		6
324548111363901	D-07-07 34CDD2		1529	PIN	ELO	11/07/11	226.9	1302.1	A		V		11/14/12	223.3	1305.7	A		V		3.6
325011111322501	D-07-08 05DCC	800830	1501	PIN	ELO	11/07/11	145.1	1355.9	A		V		11/15/12	143.6	1357.4	A		V		1.5
324920111305701	D-07-08 09DDD	621868	1515	PIN	ELO	11/07/11	152.6	1362.4	A		S		11/15/12	150.7	1364.3	A		V		1.9
324827111323001	D-07-08 17CDD	621861	1520	PIN	ELO	11/07/11	181.2	1338.8	A		V		11/15/12	175.8	1344.2	A		V		5.4
324548111305601	D-07-08 33DDD		1564	PIN	ELO	11/07/11	220.5	1343.5	A		V		11/15/12	211.2	1352.8	A		V		9.3
324917111254701	D-07-09 08DDD PZ1	505967	1550	PIN	ELO	01/27/12	200.7	1349.3	A		V		11/15/12	208.6	1341.4	A		V		-7.9
325007111244801	D-07-09 10BBB PZ1		1596	PIN	ELO	01/27/12	318.6	1277.4	A		V		11/15/12	322.7	1273.3	A		V		-4.1
325007111244802	D-07-09 10BBB PZ2		1596	PIN	ELO	01/27/12	264.5	1331.5	A		V		11/15/12	268.3	1327.7	A		V		-3.8
324707111241901	D-07-09 27BDA PZ1		1660	PIN	ELO	01/27/12	370.3	1289.7	A		V		11/15/12	372.7	1287.3	A		V		-2.4
324707111241902	D-07-09 27BDA PZ2		1660	PIN	ELO	01/27/12	343.3	1316.7	A		V		11/15/12	343.5	1316.5	A		V		-0.2
324216111421901	D-08-06 22DDD2		1518	PIN	ELO	11/08/11	151.8	1366.2	A		V		11/29/12	147.7	1370.3	A		V		4.1
324035111412301	D-08-06 35DDD2		1542	PIN	ELO	11/08/11	126.8	1415.2	A		V		11/29/12	122.8	1419.2	A		V		4
324430111371501	D-08-07 09ADD1		1538	PIN	ELO	11/08/11	220.5	1317.5	A		V		11/28/12	216.6	1321.4	A		V		3.9
324320111350801	D-08-07 14DDA		1565	PIN	ELO	11/10/11	360.2	1204.8	A		V		11/28/12	339.1	1225.9	A		V		21.1
324458111275001	D-08-08 01DDD	615519	1599	PIN	ELO	11/22/11	342.6	1256.4	A		V		11/28/12	428.6	1170.4	A		V		-86
324537111331101	D-08-08 06AAC		1551	PIN	ELO	11/22/11	234.4	1316.6	A		V		11/28/12	228.5	1322.5	A		V		5.9
324405111330101	D-08-08 07DDD1		1575	PIN	ELO	11/22/11	212.8	1362.2	A		V		11/28/12	212.4	1362.6	A		V		0.4
324405111302501	D-08-08 10CDD	618245	1587	PIN	ELO	11/10/11	310.1	1276.9	A		V		11/28/12	276.8	1310.2	A		V		33.3
324314111285501	D-08-08 14DDD	622438	1611	PIN	ELO	11/10/11	290.4	1320.6	A		V		11/28/12	281.7	1329.3	A		V		8.7
324312111333001	D-08-08 18CDD1	606865	1583	PIN	ELO	11/10/11	238.2	1344.8	A		V		11/28/12	230.8	1352.2	A		V		7.4
324154111325601	D-08-08 29BCC	618528	1607	PIN	ELO	11/10/11	381.7	1225.3	A		V		11/27/12	352.8	1254.2	A		V		28.9
324155111325501	D-08-08 29BCD	618535	1607	PIN	ELO	11/10/11	239.8	1367.2	A		V		11/27/12	236.9	1370.1	A		V		2.9
324523111260701	D-08-09 05ACD PZ1		1648	PIN	ELO	01/31/12	397.9	1250.1	A		V		11/15/12	401.9	1246.1	A		V		-4

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
324523111260702	D-08-09 05ACD PZ2		1648	PIN	ELO	01/31/12	401.2	1246.8	A		V		11/15/12	403.9	1244.1	A		V		-2.7
324432111265201	D-08-09 07ADD	622278	1635	PIN	ELO	11/22/11	399.5	1235.5	A		V		11/28/12	400.9	1234.1	A	V	V		-1.4
323859111361301	D-09-07 10DAA		1602	PIN	ELO	11/08/11	283.3	1318.7	A		V		11/27/12	262.6	1339.4	A		V		20.7
323727111361001	D-09-07 22DAA	615577	1614	PIN	ELO	11/08/11	197.6	1416.4	A		V		11/27/12	190.9	1423.1	A		V		6.7
323611111343401	D-09-07 25CDD	618276	1646	PIN	ELO	11/10/11	284.6	1361.4	A		V		11/26/12	303.8	1342.2	A	K	V		-19.2
323611111340901	D-09-07 25DDA2	618267	1652	PIN	ELO	11/10/11	472.3	1179.7	A		V		11/27/12	430.4	1221.6	A		V		41.9
323943111330801	D-09-08 06DDD	604061	1630	PIN	ELO	11/10/11	278.4	1351.6	A	K	V		11/27/12	264.7	1365.3	A		V		13.7
323849111312701	D-09-08 09DCC	625733	1654	PIN	ELO	11/10/11	503.5	1150.5	A		V		11/27/12	444.1	1209.9	A		V		59.4
323635111330001	D-09-08 29BCC	615602	1663.71	PIN	ELO	02/28/12	348.63	1315.08	A		VT		01/18/13	334.77	1328.94	A		VT		13.86
323541111330501	D-09-08 31DAA	615607	1666	PIN	ELO	11/10/11	393.4	1272.6	A		V		11/27/12	360.3	1305.7	A		V		33.1
323511111311901	D-09-08 33DCD	615610	1699	PIN	ELO	11/10/11	393.6	1305.4	A		V		11/27/12	373.3	1325.7	A		V		20.3
323545111285802	D-09-08 35ADD2	615616	1713	PIN	ELO	11/10/11	386	1327	A		V		11/27/12	369.3	1343.7	A		V		16.7
323354111422501	D-10-06 11DDD2	620687	1590	PIN	ELO	11/08/11	339.2	1250.8	A		V		11/26/12	339.8	1250.2	A		V		-0.6
323414111235001	D-10-09 10AAD1	620611	1800	PIN	ELO	01/09/12	258	1542	A	S	V		01/09/13	249	1551	A		V		9
323321111271001	D-10-09 18AAC2	622069	1764	PIN	ELO	01/09/12	278.2	1485.8	A		V		01/09/13	277.5	1486.5	A		V		0.7
323233111245601	D-10-09 21AAD	622057	1797	PIN	ELO	01/09/12	196.3	1600.7	A		V		01/09/13	195.6	1601.4	A		V		0.7
330435112085801	D-04-02 15CBC	612602	1227	PIN	MST	11/29/11	348.9	878.1	A		V		11/27/12	347.6	879.4	A		V		1.3
330355112073001	D-04-02 23ACC2		1187	PIN	MST	11/29/11	312.8	874.2	A		V		11/27/12	306.5	880.5	A	K	V	METER JUMPING	6.3
330424111594601	D-04-03 13DDD	621408	1177	PIN	MST	11/30/11	137.9	1039.1	A		V		11/27/12	137.8	1039.2	A	V	V		0.1
330444112035501	D-04-03 17DAA		1151	PIN	MST	11/29/11	67.9	1083.1	A		V		11/27/12	65.2	1085.8	A		V		2.7
330332112041401	D-04-03 20DCD		1165	PIN	MST	11/29/11	66.4	1098.6	A		V		11/27/12	64.9	1100.1	A		V		1.5
330330111581201	D-04-04 20CDD	605948	1193	PIN	MST	11/30/11	93.1	1099.9	A		V		11/27/12	92.2	1100.8	A		V		0.9
330147111584401	D-04-04 31DDD	605234	1210	PIN	MST	11/30/11	107.4	1102.6	A		V		11/27/12	103.9	1106.1	A	V	V		3.5
330148111572101	D-04-04 33CDC	610515	1217	PIN	MST	11/30/11	237.1	979.9	A		V		11/27/12	233.9	983.1	A		V		3.2
330001112070101	D-05-02 11DDD2		1270	PIN	MST	11/29/11	434.5	835.5	A		V		11/28/12	431	839	A		V		3.5
325901112100401	D-05-02 21BBB	605935	1339	PIN	MST	11/29/11	298.6	1040.4	A		V		11/28/12	297.3	1041.7	A		V		1.3
325833112080401	D-05-02 22DAD	605938	1322	PIN	MST	02/08/12	494.3	827.7	A		V		11/28/12	492.5	829.5	A		V		1.8
325656112064801	D-05-02 36BAD	615354	1316	PIN	MST	11/18/11	508.91	807.09	A		VT		01/18/13	505	811	A		VT		3.91
330053112024801	D-05-03 03CCC	612713	1195	PIN	MST	11/30/11	80.4	1114.6	A		V		11/28/12			A	W	Z	UTM AREA BULLDOZED, PUMP BASE GONE.	
325746111595201	D-05-03 25ADD		1240	PIN	MST	11/30/11	120.1	1119.9	A		V		11/28/12	117.7	1122.3	A		V		2.4
330008111584501	D-05-04 07DDA	623829	1227	PIN	MST	11/30/11	113.5	1113.5	A		V		11/28/12	110.2	1116.8	A		V		3.3
325928111554401	D-05-04 15ADD	601127	1266	PIN	MST	11/30/11	217.5	1048.5	A		V		11/28/12	211.3	1054.7	A		V		6.2
325840111551501	D-05-04 23BDD2	623811	1275	PIN	MST	12/01/11	419.3	855.7	A		V		11/28/12	417.2	857.8	A		V		2.1
335737111573201	D-05-04 28BCD1	612522	1250	PIN	MST	11/30/11	136.6	1113.4	A		V		11/28/12	133.5	1116.5	A		V		3.1
325622111544201	D-05-04 35DDD	606188	1283	PIN	MST	11/30/11	322	961	A	K	V		11/28/12	470.4	812.6	A	S	V		-148.4
325639111522101	D-05-05 32CAB	806657	1332	PIN	MST	11/10/11	376.1	955.9	A		V		11/20/12	376.6	955.4	A		V		-0.5
325542112053301	D-06-02E01CDD2		1318	PIN	MST	11/08/11	558.5	759.5	A		V		11/01/12	554.7	763.3	A		V		3.8
325508112035501	D-06-03 08BCB	610459	1293	PIN	MST	11/29/11	543.6	749.4	A		V		11/28/12	535.6	757.4	A		V		8
325433112002001	D-06-03 11CDD1		1275	PIN	MST	11/09/11	132.1	1142.9	A		V		11/20/12	130.4	1144.6	A		V		1.7
325156112015101	D-06-03 27CCC	615407	1365	PIN	MST	11/08/11	664	701	A		V		11/01/12	664.8	700.2	A		V		-0.8
325526111595401	D-06-03S02DDD2	620591	1267	PIN	MST	11/09/11	174	1093	A	P	V		11/20/12	156.7	1110.3	A		S		17.3
325339111544201	D-06-04 15DDD1	605517	1304	PIN	MST	11/09/11	542.7	761.3	A	K	V		11/20/12	540.6	763.4	A		V		2.1
325102111523901	D-06-04 36DDD	629477	1347	PIN	MST	11/08/11	461.6	885.4	A		V		10/29/12	465	882	A		V		-3.4
325525111541401	D-06-04S02CDD	609664	1295	PIN	MST	11/09/11	515.5	779.5	A		V		11/20/12	512.4	782.6	A		V		3.1
325523111554301	D-06-04S04DDD3	087174	1286	PIN	MST	11/09/11	230.2	1055.8	A		V		11/20/12	230.6	1055.4	A		V		-0.4
325529111571101	D-06-04S05DCC	619754	1277	PIN	MST	11/09/11	503.5	773.5	A		V		11/20/12	499.5	777.5	A		V		4
325256111514002	D-06-05 19DDA PZ2		1338	PIN	MST	11/08/11	318.2	1019.8	A		V		11/01/12	318.9	1019.1	A		S		-0.7
324750111544301	D-07-04 23DDD	624090	1360	PIN	MST	11/08/11	405.3	954.7	A	K	V		10/29/12	471.3	888.7	A		V		-66
324917111513801	D-07-05 07DDD	613932	1368	PIN	MST	11/08/11	434.2	933.8	A		V		10/29/12	436.2	931.8	A		V		-2
325358112153501	D-06-01 16DCD2	804042	1615	PIN	VEK	11/28/11	213.2	1401.8	A		V		11/29/12	213.2	1401.8	A		V		0
325257112152601	D-06-01 21DAC	512922	1630	PIN	VEK	11/28/11	229	1401	A		V		11/29/12	229	1401	A		V		0
325120112154501	D-06-01 33DCC		1702	PIN	VEK	11/28/11	292.1	1409.9	A		V		11/29/12	292.3	1409.7	A		V		-0.2
324953112151401	D-07-01 10CBC2		1756.4	PIN	VEK	11/28/11	342.4	1414	A		V		11/29/12	342.7	1413.7	A		V		-0.3
324754112151201	D-07-01 22CCC2		1850	PIN	VEK	11/28/11	420.3	1429.7	A		V		11/29/12	420.4	1429.6	A		V		-0.1
324401112133801	D-08-01 11CCB		1945.59	PIN	VEK	11/28/11	330.2	1615.39	A		V		11/29/12	330.1	1615.49	A		V		0.1

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
324208112172401	D-08-01 30DAA		2165	PIN	VEK	11/28/11	525.7	1639.3	A		V		11/29/12	526.1	1638.9	A		V		-0.4
324131112130401	D-08-01 35ABD		2002	PIN	VEK	11/28/11	390.3	1611.7	A		V		11/29/12	390.2	1611.8	A	V	V		0.1
323900112130201	D-09-01 13BBD		2048	PIN	VEK	11/28/11	432.8	1615.2	A		V		11/29/12	432.5	1615.5	A		V		0.3
333718114264701	B-03-21 08ABD	628121	558	PKB	CIB	11/03/11	319.7	238.3	A	R	V		11/14/12	312.5	245.5	A		V		7.2
340836114165701	B-09-19 07BBB	601138	420	PKB	CRI	11/02/11	77.1	342.9	A		V		11/01/12	77.4	342.6	A		V		-0.3
333125114065901	B-02-18 09DDC		1495	PKB	LPC	11/01/11	65.1	1429.9	A		V		11/14/12	65.7	1429.3	A		S		-0.6
344052112171701	A-15-01 17BCC	524200	4979	PRE	LIC	03/13/12	313.2	4665.8	A		V		03/13/13	311.7	4667.3	A		V		1.5
344029112143501	A-15-01 22ABB	519873	5257.81	PRE	LIC	02/08/12	70.7	5187.11	A		VT		12/13/12	71.41	5186.4	A		VT		-0.71
343734112295501	B-14-02 05BBC	540148	5305	PRE	LIC	03/14/12	191	5114	A		V		03/11/13	191.7	5113.3	A		V		-0.7
344233112193801	B-15-01 02ADC	524298	4880	PRE	LIC	03/13/12	348.6	4531.4	A		V		04/19/13	350.5	4529.5	A		V		-1.9
344134112223501	B-15-01 08DAA1 PZ1	587403	4915.24	PRE	LIC	02/07/12	393.57	4521.67	A		VT		01/16/13	394.92	4520.32	A		VT		-1.35
343930112235301	B-15-01 19DCD1	523565	4910	PRE	LIC	03/14/12	205.6	4704.4	A		V		11/15/12	218.4	4691.6	A		V		-12.8
343930112235601	B-15-01 19DCD2	562286	4910	PRE	LIC	03/14/12	389.5	4520.5	A		V		11/15/12	391.4	4518.6	A		V		-1.9
344011112200901	B-15-01 23BAD	805134	4882	PRE	LIC	03/13/12	352.4	4529.6	A		V		03/13/13	358.7	4523.3	A		V		-6.3
343847112190401	B-15-01 25CDB		4927	PRE	LIC	03/13/12	304.4	4622.6	A		V		03/13/13	305.9	4621.1	A		V		-1.5
343854112202701	B-15-01 26CBC1	541372	4949.32	PRE	LIC	02/07/12	419.95	4529.37	A		VT		01/16/13	421.38	4527.94	A	S	VT		-1.43
343836112195501	B-15-01 26DCC	583457	4990	PRE	LIC	04/03/12	514.7	4475.3	A		V		03/14/13	465.9	4524.1	A		V		48.8
343746112242601	B-15-01 31CCD	619664	5008	PRE	LIC	03/14/12	347.2	4660.8	A		V		03/11/13	351.7	4656.3	A		V		-4.5
343820112195701	B-15-01 35ABD	560334	4961	PRE	LIC	03/13/12	386.3	4574.7	A		V		03/13/13	396.3	4564.7	A		V		-10
344005112300201	B-15-02 19ADA	564575	5140	PRE	LIC	03/13/12	333.8	4806.2	A		V		03/12/13	333.9	4806.1	A		V		-0.1
343928112301401	B-15-02 19DDC	524070	5210	PRE	LIC	03/15/12	311.7	4898.3	A		V		03/13/13	313.1	4896.9	A		V		-1.4
342020112270101	B-15-02 22AAB	588619	5007.63	PRE	LIC	09/27/12	380.25	4627.38	A	Z	VT		01/16/13	382.2	4625.43	A		VT		-1.95
343905112301401	B-15-02 30ADC	601103	5170	PRE	LIC	03/15/12	209.7	4960.3	A		V		03/13/13	216.5	4953.5	A		V		-6.8
343843112303101	B-15-02 30CDA	511771	5218	PRE	LIC	03/30/12	241.7	4976.3	A		V		03/13/13	248.2	4969.8	A	S	V	WELL 4 IS PUMPING 200M EAST OF THIS POSITION	-6.5
343858112300301	B-15-02 30DAA	809476	5200	PRE	LIC	03/14/12	234.4	4965.6	A		V		03/11/13	241.6	4958.4	A		V		-7.2
343836112302401	B-15-02 30DCB	554078	5200	PRE	LIC	03/30/12	238.4	4961.6	A		V		03/13/13	244.9	4955.1	A	R	V	WELL TURNED OFF FOR MSMT AT ARRIVAL.	-6.5
343754112301101	B-15-02 31DDB	635023	5355	PRE	LIC	03/14/12	223.6	5131.4	A		V		03/11/13	224	5131	A		V		-0.4
343755112291501	B-15-02 32ACC	614788	5261	PRE	LIC	03/14/12	295.5	4965.5	A		V		03/11/13			A	D	V	SOUNDER LINE RETURNED COVERED IN RUST DUST	
344241112312201	B-15-03 01DCD	806586	5010	PRE	LIC	03/15/12	122.8	4887.2	A		V		03/12/13	154	4856	A	P	V		-31.2
344253112333001	B-15-03 03AAC	906571	5165	PRE	LIC	03/15/12	74.1	5090.9	A		V		03/12/13	77.1	5087.9	A		V		-3
344147112313201	B-15-03 13ACC	536656	5100	PRE	LIC	03/14/12	229.8	4870.2	A		V		03/12/13	230.4	4869.6	A		V		-0.6
344025112310401	B-15-03 13DDD2	550757	5140	PRE	LIC	03/14/12	286.1	4853.9	A		V		03/12/13	288	4852	A		V		-1.9
344205112322901	B-15-03S02DCD	569837	5075	PRE	LIC	03/15/12	94.9	4980.1	A		V		03/13/13	95.7	4979.3	A		V		-0.8
344628112174901	B-16-01 07CDD	606296	4705	PRE	LIC	03/14/12	185.5	4519.5	A		V		03/12/13	186.8	4518.2	A		V		-1.3
344540112202601	B-16-01 14CCC	625108	4833	PRE	LIC	03/14/12	312.1	4520.9	A		V		03/12/13	313.3	4519.7	A		V		-1.2
344501112232601	B-16-01 20CAC	625106	4781	PRE	LIC	03/16/12	235.1	4545.9	A		V		03/13/13	238.2	4542.8	A		V		-3.1
344459112232601	B-16-01 20CBD1	625107	4777	PRE	LIC	03/16/12	40.84	4736.16	A		S		03/13/13	43.5	4733.5	A		V		-2.66
344520112194301	B-16-01 23ACA	587404	4878.63	PRE	LIC	02/07/12	361.3	4517.33	A		VT		01/16/13	361.43	4517.2	A		VT		-0.13
344358112182901	B-16-01 25DDA	625105	4961	PRE	LIC	03/14/12	436.3	4524.7	A		V		03/13/13	437.8	4523.2	A		V		-1.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
344429112222001	B-16-01 28BCA	625104	4807	PRE	LIC	03/16/12	294.6	4512.4	A		V		03/13/13	295.8	4511.2	A		V		-1.2
344314112202401	B-16-01 35CBC	805135	4852.28	PRE	LIC	02/07/12	332.68	4519.6	A		VT		01/16/13	333.95	4518.33	A		VT		-1.27
344738112253301	B-16-02 01CBD	611903	4590	PRE	LIC	03/14/12	85.2	4504.8	A		V		03/12/13	85.7	4504.3	A		V		-0.5
344809112275201	B-16-02 03BBB1		4539	PRE	LIC	03/13/12	73.7	4465.3	A		V		03/13/13	74.6	4464.4	A		V		-0.9
344723112265701	B-16-02 03DDC4	603665	4590	PRE	LIC	03/13/12	65.3	4524.7	A		V		03/12/13	66.6	4523.4	A		V		-1.3
344704112291601	B-16-02 08ACA		4615	PRE	LIC	03/14/12	133.6	4481.4	A		V		03/13/13	135.1	4479.9	A		V		-1.5
344629112283401	B-16-02 09CDC	634748	4688	PRE	LIC	03/14/12	198.8	4489.2	A		V		03/13/13	199.8	4488.2	A		V		-1
344653112264901	B-16-02 11CBB1	602559	4621.94	PRE	LIC	02/06/12	66.88	4555.06	A		S		09/17/13	67.08	4554.86	A		VT		-0.2
342658112244601	B-16-02 12ADD	606295	4648	PRE	LIC	03/14/12	136.8	4511.2	A		V		03/13/13	138	4510	A		V		-1.2
344645112253401	B-16-02 12CBD	606300	4601.85	PRE	LIC	02/06/12	99.73	4502.12	A		VT		01/17/13	101.52	4500.33	A		VT		-1.79
344603112264001	B-16-02 14BCC	606022	4659	PRE	LIC	03/13/12	168	4491	A		V		03/11/13	168.3	4490.7	A		V		-0.3
344540112264501	B-16-02 14CCC	606023	4680	PRE	LIC	03/12/12	200.1	4479.9	A		V		03/14/13	201.4	4478.6	A		V		-1.3
344543112262201	B-16-02 14CDA	606021	4674	PRE	LIC	03/14/12	183.8	4490.2	A		V		03/11/13	184.1	4489.9	A		V		-0.3
344613112271901	B-16-02 15ACB	606691	4670	PRE	LIC	03/12/12	185.8	4484.2	A		V		03/11/13	187.1	4482.9	A		V		-1.3
344622112275701	B-16-02 16AAD	504619	4675	PRE	LIC	03/13/12	180.1	4494.9	A		V		03/12/13	181.2	4493.8	A		V		-1.1
344607112294301	B-16-02 17BDC	629377	4700	PRE	LIC	03/13/12			A	O	V	WELL RE-WORKED. MUD OBSTRUCTION AT 135FT.	03/13/13	199.9	4500.1	A		V		
344534112282901	B-16-02 21BAA1	604724	4738	PRE	LIC	03/14/12	248.6	4489.4	A		V		03/13/13	249.7	4488.3	A		V		-1.1
344535112283001	B-16-02 21BAA2	604725	4746.47	PRE	LIC	02/06/12	251.2	4495.27	A		VT		01/16/13	253.58	4492.89	A		VT		-2.38
344507112270101	B-16-02 22DBA	606024	4726	PRE	LIC	03/12/12	224.5	4501.5	A		V		03/14/13	225.9	4500.1	A		V		-1.4
344458112270601	B-16-02 22DBD	606025	4733	PRE	LIC	03/12/12	237.1	4495.9	A		V		03/14/13	238.8	4494.2	A		V		-1.7
344511112255901	B-16-02 23ADC	613770	4655	PRE	LIC	03/30/12	150.1	4504.9	A	R	V		02/27/13	152.2	4502.8	A	P	V		-2.1
344524112262501	B-16-02 23BAC	552320	4670	PRE	LIC	03/30/12	175.9	4494.1	A	R	V		09/20/13	185	4485	A	R	V		-9.1
344357112280901	B-16-02 28DDC	628072	4818.78	PRE	LIC	02/06/12	321.81	4496.97	A		VT		01/16/13	323.75	4495.03	A		VT		-1.94
344314112285201	B-16-02 33CBC	529457	4910	PRE	LIC	03/15/12	357.2	4552.8	A		V		03/13/13	357.2	4552.8	A		V		0
344347112271001	B-16-02 34ABA2	502645	4800	PRE	LIC	03/15/12	297	4503	A		V		03/13/13	297.6	4502.4	A		V		-0.6
344348112331401	B-16-03 35BBB	602609	5200	PRE	LIC	03/13/12	121.6	5078.4	A		V		03/12/13	136.4	5063.6	A		V		-14.8
344912112264801	B-17-02 26CCC1		4463	PRE	LIC	05/16/12	3.1	4459.9	A		S		08/20/13	3.4	4459.6	A		S		-0.3
344846112271401	B-17-02N34ACC	639281	4510	PRE	LIC	03/13/12			A	D	V	DRY AT 18.4 FT	03/12/13			A	D	V	DRY AT 18.3 FT	
344819112265701	B-17-02N34DDD1	608242	4513.79	PRE	LIC	02/06/12	28.85	4484.94	A		S		01/17/13	31.7	4482.09	A		VT		-2.85
344819112265601	B-17-02N34DDD3	633990	4515	PRE	LIC	03/13/12	48.1	4466.9	A		V		03/11/13	49	4466	A		V		-0.9
344821112301701	B-17-02S31ABA	802799	4870	PRE	LIC	03/15/12	506.7	4363.3	A		V		03/13/13	507.6	4362.4	A		V		-0.9
344820112272701	B-17-02S34ABB	609766	4516	PRE	LIC	03/13/12	20.7	4495.3	A		V		03/14/13	22.1	4493.9	A		V		-1.4
343153112122901	A-13-01 01DCA		4740	PRE	UAG	03/14/12	268.9	4471.1	A	R	V		03/15/13	209.5	4530.5	A		V		59.4
343157112135401	A-13-01 02CAD	638550	4603	PRE	UAG	03/12/12	85.3	4517.7	A		V		03/11/13	83	4520	A		V		2.3
343017112124801	A-13-01 13CAB		4620	PRE	UAG	03/12/12	155.9	4464.1	A		V		03/12/13	155.2	4464.8	A		V		0.7
343652112172101	A-14-01 08BBB	536623	4859.4	PRE	UAG	02/07/12	208.6	4650.8	A		VT		01/15/13	209.53	4649.87	A	Z	VT		-0.93
343529112162201	A-14-01 17AAD	613025	4779.25	PRE	UAG	02/07/12	126.62	4652.63	A		VT		01/15/13	127.5	4651.75	A		VT		-0.88
343434112145201	A-14-01 22CAD	613023	4720	PRE	UAG	03/12/12	85.3	4634.7	A		V		03/12/13	82.6	4637.4	A		V		2.7
343428112123701	A-14-01 24DCB	614220	4928	PRE	UAG	03/12/12	303.3	4624.7	A		V		03/12/13	303	4625	A		V		0.3
343353112144101	A-14-01 27ACC	613024	4660.63	PRE	UAG	02/07/12	42.35	4618.28	A		VT		01/15/13	43.79	4616.84	A		VT		-1.44
343415112161401	A-14-01 28BBB	613020	4714.98	PRE	UAG	03/12/12	96.8	4618.18	A		V		03/12/13	97.3	4617.68	A		V		-0.5

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
343337112152901	A-14-01 28DAC2	550395	4666	PRE	UAG	04/03/12	135.7	4530.3	A		V		03/14/13	127.8	4538.2	A		V	WELL OFF ONE WEEK	7.9
343244112150901	A-14-01 34CCA	631279	4650	PRE	UAG	03/14/12	82.6	4567.4	A		V		04/09/13	83.1	4566.9	A		V		-0.5
344157112150701	A-15-01 10BBB2	545863	5335	PRE	UAG	03/13/12	150.5	5184.5	A		V		03/11/13	75.9	5259.1	A		V		74.6
344045112151101	A-15-01 15CBB	800092	5230	PRE	UAG	03/13/12	50.5	5179.5	A		V		03/11/13	51.5	5178.5	A		V		-1
343906112154701	A-15-01 28ACC	614238	5067.21	PRE	UAG	02/08/12	321.18	4746.03	A		VT		01/15/13	322.4	4744.81	A		VT		-1.22
343909112163201	A-15-01 29ADB		5076	PRE	UAG	03/13/12	390	4686	A		V		03/11/13	390.7	4685.3	A		V		-0.7
343655112192201	B-14-01 01CCC	539499	5025	PRE	UAG	04/03/12	350.9	4674.1	A		V		03/14/13	351.5	4673.5	A		V		-0.6
343634112205201	B-14-01 10ACA	535213	5000	PRE	UAG	04/03/12	662.7	4337.3	A		V		03/14/13	755	4245	A		V		-92.3
343610112203201	B-14-01 10DDA	523346	5082	PRE	UAG	04/03/12	546.3	4535.7	A		V		03/14/13	578.5	4503.5	A		V		-32.2
343637112195701	B-14-01 11ACB	612330	5043.72	PRE	UAG	03/13/12	348.9	4694.82	A		V		03/15/13	347.7	4696.02	A		V		1.2
343628112193001	B-14-01 11DAA	612329	5043.52	PRE	UAG	04/03/12	337.6	4705.92	A		V		03/14/13	336.8	4706.72	A		V		0.8
343601112205301	B-14-01 15ABA	613028	5117.42	PRE	UAG	03/13/12	731.9	4385.52	A	K	V		03/14/13	751.5	4365.92	A	K	V		-19.6
343453112203401	B-14-01 22ADA	613045	5184.1	PRE	UAG	03/13/12	328.2	4855.9	A		V		11/15/12	336	4848.1	A		V		-7.8
343343112183801	B-14-01 25DAC	613029	4933	PRE	UAG	03/12/12	46.2	4886.8	A		V		06/05/13	53.2	4879.8	A		V		-7
352729113081501	B-24-08 20AAB2	627220	5248	PSC	PSC	10/24/11			A	O	V		11/16/12			A	O	V		
352904113333401	B-24-12 09AAD	607888	4302	PSC	PSC	10/24/11	221.8	4080.2	A		V		11/16/12	221.8	4080.2	A		V		0
352740113355501	B-24-12 17CBC	609483	4255	PSC	PSC	10/24/11	146.6	4108.4	A		V		11/16/12	146.5	4108.5	A		V		0.1
332750113313001	B-01-12 05BCC	603147	1458	RAN	RAN	11/02/11	435.7	1022.3	A		V		11/13/12	435.8	1022.2	A		V	REMOVED GENERATOR	-0.1
333121113413001	B-02-14 10CDC	600171	1350	RAN	RAN	11/02/11	346.4	1003.6	A		V		11/13/12	347.7	1002.3	A		V		-1.3
333737113460801	B-03-15 02DAC	601120	1210	RAN	RAN	11/03/11	214.6	995.4	A		V		11/13/12	214.3	995.7	A		V	GATE OPEN	0.3
334121113450101	B-04-15 13ADA	600133	1239	RAN	RAN	11/03/11	365.2	873.8	A		V		11/13/12	374.2	864.8	A		V		-9
334118113463501	B-04-15 14CAA	600129	1181.1	RAN	RAN	03/01/12	285.38	895.72	A		VT		02/05/13	289.4	891.7	A	K	VT		-4.02
334122113510901	B-04-15 18BCC	620833	1135	RAN	RAN	11/03/11	144.3	990.7	A		V		11/13/12	145	990	A		V		-0.7
334840113514101	B-05-15 06BAA1	618772	1156	RAN	RAN	10/31/11	241	915	A		V		10/31/12	241.9	914.1	A		V		-0.9
334446113500601	B-05-15 29DAA	613116	1121	RAN	RAN	10/31/11			A	D	V		10/23/12			A	D	V		
334357113473201	B-05-15 35BDD2	801955	1208	RAN	RAN	10/31/11	335.5	872.5	A		V		10/23/12	341.1	866.9	A		V		-5.6
334722113562001	B-05-16 09BCC	600166	1083	RAN	RAN	10/31/11	143.1	939.9	A		V		10/31/12	143.4	939.6	A		V		-0.3
334422113524001	B-05-16 25DCC	614479	1123	RAN	RAN	10/31/11	164.3	958.7	A		V		10/23/12	165.4	957.6	A		V		-1.1
335024113485701	B-06-15 27BBA	614505	1341	RAN	RAN	10/31/11	437.3	903.7	A		V		10/31/12	438.1	902.9	A		V		-0.8
335257113520601	B-06-16 12AAA	613120	1207	RAN	RAN	10/31/11	286	921	A		V		10/31/12	286.7	920.3	A		V		-0.7
335054113564301	B-06-16 20ACD	505096	1055	RAN	RAN	10/31/11	122.8	932.2	A		V		10/31/12	122.2	932.8	A		V		0.6
335102113541301	B-06-16 22ADA	613119	1121	RAN	RAN	10/31/11	192.1	928.9	A		V		10/31/12	192.7	928.3	A		V		-0.6
335235113585701	B-06-17 12DBB3	502760	1005	RAN	RAN	10/31/11	84.8	920.2	A		V		10/31/12	85.2	919.8	A		V		-0.4
335556114000101	B-07-17 23CAC2	645951	960	RAN	RAN	11/02/11	77.1	882.9	A		V		04/01/13	70	890	A	R	V		7.1
342753113511901	B-13-15 17CAC2		2080	SAC	SAC	10/26/11	666.3	1413.7	A		V		10/24/12	666.4	1413.6	A		V		-0.1
344005113532701	B-15-16 01CAA		3105	SAC	SAC	10/26/11	100.8	3004.2	A		V		10/24/12	101.5	3003.5	A		V		-0.7
343923113583301	B-15-16 07BDD	611808	2341	SAC	SAC	10/26/11	934.1	1406.9	A		V		10/24/12	934.2	1406.8	A		V		-0.1
343712114034501	B-15-17 20DCC	590022	1890	SAC	SAC	10/26/11	496.8	1393.2	A		V		10/24/12	496.8	1393.2	A		V		0
343940114170301	B-15-19 07AAB	629451	1472	SAC	SAC	10/27/11	485.6	986.4	A		V		10/25/12	483.1	988.9	A		V		2.5
344424114144301	B-16-19 10CBC		1165	SAC	SAC	10/25/11	63.8	1101.2	A		V		10/23/12	63.8	1101.2	A		V		0
344347114180601	B-16-20 13BCD	616522	980	SAC	SAC	10/25/11	38.9	941.1	A		V		10/23/12	36.2	943.8	A		V		2.7
345232114084601	B-17-18 12ACB1	600262	1850	SAC	SAC	10/25/11	339	1511	A		V		10/23/12	339.1	1510.9	A		V		-0.1

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
344954114084501	B-17-18 25ADB1	628122	1745.99	SAC	SAC	02/01/12	297.39	1448.6	A		VT		01/24/13	297.48	1448.51	A		VT		-0.09
345801114082801	B-18-18 01DCD		2181	SAC	SAC	10/25/11	526	1655	A		V		10/23/12	526.2	1654.8	A		V		-0.2
350818114063901	B-20-17E07AAB2	529524	2864	SAC	SAC	10/25/11	177.9	2686.1	A		V		10/24/12	181	2683	A		V		-3.1
350920114122701	B-20-18 04BBB	623085	2524	SAC	SAC	10/25/11	809.6	1714.4	A	P	V		10/23/12	764.8	1759.2	A		V	OFF 12HOURS	44.8
350633114103701	B-20-18 22AAC		2495.57	SAC	SAC	02/01/12	745.54	1750.03	A		VT		01/24/13	745.96	1749.61	A		VT		-0.42
351123114032201	B-21-17 24CBC	612663	3330	SAC	SAC	10/26/11	140.3	3189.7	A		V		10/24/12	140.3	3189.7	A		V		0
350937114044201	B-21-17 34DDB2	646882	3050	SAC	SAC	10/25/11	60.9	2989.1	A		V		10/23/12	59	2991	A		V		1.9
351401114132401	B-21-18 05DBD	610756	2855.82	SAC	SAC	01/31/12	1065.94	1789.88	A		VT		01/24/13	1066.88	1788.94	A		VT		-0.94
351340114125401	B-21-18 09BBA	610757	2832	SAC	SAC	10/25/11	1041.4	1790.6	A		V		10/23/12	1042	1790	A		V		-0.6
332507110425001	A-01-16 19BAD	623061	3730	SAF	GSK	12/02/11	724.3	3005.7	A		V	WELL SHUT-OFF ABOUT 2 MONTHS AGO - NO PUMPING.	11/02/12	724.3	3005.7	A		V		0
332128110432101	D-01-16 09CBC UNSURV	526251	3510	SAF	GSK	12/02/11	658.6	2851.4	A		V	PUMP SHUT OFF ABOUT 10:00AM, MEASURED @ 1:35PM.	11/02/12	678.4	2831.6	A		V		-19.8
330240110031101	D-04-22 35ADA	611941	2857.54	SAF	SAF	11/29/11	22.9	2834.64	A		S		10/29/12	25.6	2831.94	A		V		-2.7
330128109572301	D-05-23 02DBC2		2720	SAF	SAF	11/29/11	29.2	2690.8	A		S		10/29/12	31.2	2688.8	A		V		-2
330135109583801	D-05-23 03CAB1	624721	2790	SAF	SAF	11/29/11	71.7	2718.3	A		V		10/29/12	75.8	2714.2	A		V		-4.1
325742109560901	D-05-23 25DCD		2778	SAF	SAF	11/29/11	53.8	2724.2	A		V		10/29/12	54.1	2723.9	A		V		-0.3
330018109545301	D-05-24 18AAA		2730	SAF	SAF	11/29/11	34.38	2695.62	A		S		10/30/12	34.4	2695.6	A		V		-0.02
325458109511201	D-06-24 14AAD	607880	2800	SAF	SAF	12/02/11	20.8	2779.2	A	X	S	WELL LOCATED NEXT TO DODGE NEVADA	10/29/12	22.2	2777.8	A		V		-1.4
325253109495501	D-06-25 30CBA	611078	2895	SAF	SAF	12/02/11	38	2857	A		V	SOME OIL, NOT ENOUGH FOR CORRECTION.	10/29/12	39.4	2855.6	A		V		-1.4
325033109460101	D-07-25 10AAD		2924	SAF	SAF	11/28/11	69.15	2854.85	A		S		10/30/12	66.9	2857.1	A		V		2.25
325045109384101	D-07-26 01CCD		3135	SAF	SAF	12/01/11	78.45	3056.55	A		S		11/01/12	90.2	3044.8	A		V		-11.75
324908109433001	D-07-26 18CDA1	611966	2961.14	SAF	SAF	12/02/11	59	2902.14	A		V		10/30/12	59.1	2902.04	A		V		-0.1
324855109403301	D-07-26 22BAB	622921	2951.16	SAF	SAF	12/02/11	41.5	2909.66	A		V		11/01/12	46.5	2904.66	A		V		-5
325115109324501	D-07-27 02ADD	605867	3065	SAF	SAF	12/01/11	37.3	3027.7	A		V		11/01/12	51.6	3013.4	A		V		-14.3
324113109415401	D-08-26 33CDC1		3341.21	SAF	SAF	10/27/11	43.96	3297.25	A		VT		10/09/12	45.94	3295.27	A		VT		-1.98
324303109283601	D-08-28 22CCB	615569	3340	SAF	SAF	12/01/11	85.39	3254.61	A		S		10/29/12	87.5	3252.5	A		V		-2.11
323240109384601	D-10-26 25CBA	644135	4089	SAF	SAF	11/28/11	637.9	3451.1	A		V		10/30/12	636.7	3452.3	A		V		1.2
315836109011501	27S 21W 07 232A		4019	SAF	SSI	11/30/11	131.2	3887.8	A		V		11/07/12	132.3	3886.7	A		V		-1.1
315846109011601	27S 21W S06 443		4001	SAF	SSI	11/30/11	124.4	3876.6	A	P	V		11/07/12	125.4	3875.6	A	P	V		-1
314935109015901	28S 21W 31 133		4137	SAF	SSI	11/30/11	109.2	4027.8	A		V		11/07/12	109.3	4027.7	A		V		-0.1
314750109024501	29S 22W 11 243A		4164	SAF	SSI	11/30/11	135.1	4028.9	A		V		11/07/12	138.4	4025.6	A		V		-3.3
322545109194001	D-11-30 31CCA	615823	3473	SAF	SSI	11/29/11	35	3438	A		V		11/06/12	47.9	3425.1	A	P	V		-12.9
322110109362701	D-12-27 32AAB1		3979	SAF	SSI	11/29/11	131.8	3847.2	A		V		11/06/12	131.8	3847.2	A		V		0
322334109285801	D-12-28 15BCB	625831	3684	SAF	SSI	11/29/11	356.7	3327.3	A		V		11/06/12	358.5	3325.5	A		V		-1.8
322301109300901	D-12-28 17DDD	609816	3724	SAF	SSI	11/29/11	261.6	3462.4	A		V		11/06/12			A	O	V	OBST @ 262.4FT	
322116109262201	D-12-28 25DCC		3645	SAF	SSI	11/29/11	294.2	3350.8	A		V		11/06/12	301	3344	A	K	V		-6.8
321812109264401	D-13-28 13BCD	610898	3732.16	SAF	SSI	10/27/11	111.1	3621.06	A		VT		10/09/12	111.59	3620.57	A		VT		-0.49
321721109286001	D-13-28 22BCC	618342	3838	SAF	SSI	11/29/11	540.4	3297.6	A		V		11/06/12	542	3296	A		V		-1.6
321648109202001	D-13-29 24DCC2	621310	3655	SAF	SSI	11/29/11	151.6	3503.4	A		V		11/06/12	166.6	3488.4	A		V		-15

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
321637109235401	D-13-29 28BBB		3738	SAF	SSI	11/29/11	166.5	3571.5	A		V		11/06/12	167.4	3570.6	A		V		-0.9
321857109170101	D-13-30 09ACD2		3566	SAF	SSI	11/29/11	50.1	3515.9	A		V		11/06/12	50.2	3515.8	A		V		-0.1
321830109165001	D-13-30 15BBB	622807	3569	SAF	SSI	11/29/11	62.7	3506.3	A		V		11/06/12	62.9	3506.1	A		V		-0.2
321607109114101	D-13-31 29DDA	805565	3620	SAF	SSI	11/29/11	46.7	3573.3	A		V		11/06/12	47.7	3572.3	A		V		-1
321355109120501	D-14-31 08ABC1		3632	SAF	SSI	12/01/11	55.8	3576.2	A		V		11/08/12	57	3575	A		V		-1.2
321210109132001	D-14-31 19BAC	615982	3713	SAF	SSI	12/01/11	79.6	3633.4	A		V		11/08/12	81	3632	A		V		-1.4
321200109094501	D-14-31 22ADC	612633	3693	SAF	SSI	12/01/11	204.2	3488.8	A	K	V		11/08/12			A	P	V		
321016109095601	D-14-31 34ACC		3774	SAF	SSI	12/01/11	219.7	3554.3	A		V		11/08/12	247.8	3526.2	A	S	V		-28.1
321016109094501	D-14-31 35BCC		3772	SAF	SSI	12/01/11	244.9	3527.1	A		V		11/08/12			A	P	V		
321053109071801	D-14-32 30CCB	613339	3730	SAF	SSI	12/01/11	233	3497	A		V		11/08/12	243.5	3486.5	A		V		-10.5
320805109085001	D-15-31 11DCC	605286	3904	SAF	SSI	12/01/11	256	3648	A		V		11/08/12	265.2	3638.8	A		V		-9.2
320316109103801	D-16-31 09ACB	616118	4307	SAF	SSI	12/01/11	584.5	3722.5	A		V		11/08/12	586.8	3720.2	A		V		-2.3
320051109050601	D-16-32 21CCB		4088	SAF	SSI	11/30/11	204.5	3883.5	A		V		11/07/12	211.7	3876.3	A		V		-7.2
315901109062301	D-17-32N06AAB	621601	4215	SAF	SSI	11/30/11	320.9	3894.1	A		V		11/07/12	323.8	3891.2	A	P	V		-2.9
315012109030401	D-18-32 26BBC		4125	SAF	SSI	11/30/11	99.3	4025.7	A		V		11/07/12	99.9	4025.1	A		V		-0.6
314949109040001	D-18-32 27CBA	605458	4142	SAF	SSI	11/30/11	93.9	4048.1	A		V		11/07/12	95.3	4046.7	A		V		-1.4
314854109025601	D-18-32 35CBA		4153	SAF	SSI	11/30/11	121.3	4031.7	A		V		11/07/12	120.8	4032.2	A		V		0.5
312340109121601	D-23-31 29DDB	640715	4020	SBV	SBV	11/17/11	203.8	3816.2	A		V		11/07/12	204.4	3815.6	A		V		-0.6
312006109180601	D-24-30 16CCC	616444	3796	SBV	SBV	11/17/11	31.3	3764.7	A		S		11/07/12	30.7	3765.3	A		V		0.6
314716111113101	D-19-11 11CAC	616245	3825	SCA	SCA	01/12/12	211.2	3613.8	A		V		01/07/13	211.1	3613.9	A		S		0.1
314526111114901	D-19-11 23CCB	625265	3555	SCA	SCA	01/12/12	175	3380	A		V		01/07/13	175.6	3379.4	A		S		-0.6
314401111124501	D-19-11 34BCC	616247	3640	SCA	SCA	01/09/12	176.7	3463.3	A		V		01/07/13	176.7	3463.3	A		S		0
314413111030001	D-19-13 31ABD		3042	SCA	SCA	09/12/12	89.2	2952.8	A		VT		08/13/13	95.6	2946.4	A		S		-6.4
314152111111601	D-20-11 11DCC2	801469	3380	SCA	SCA	01/12/12	46.7	3333.3	A		V		01/07/13	47.1	3332.9	A		S		-0.4
314024111125301	D-20-11 21DAA		3449	SCA	SCA	01/09/12	61.2	3387.8	A		S		01/07/13	64.9	3384.1	A		S		-3.7
313817111141001	D-20-11 32DDD	616246	3548	SCA	SCA	01/09/12	42.4	3505.6	A		V		01/07/13	43.5	3504.5	A		S		-1.1
314332111064001	D-20-12 03BBB	612066	3175	SCA	SCA	01/27/12	214.5	2960.5	A		V		08/13/13	215.1	2959.9	A		S		-0.6
314321111075001	D-20-12 05AAC	640384	3226.08	SCA	SCA	10/12/11	18.12	3207.96	A		VT		10/02/12	16.36	3209.72	A		VT		1.76
314318111075401	D-20-12 05ADB2	621510	3224	SCA	SCA	01/09/12	22	3202	A		S		01/07/13	22	3202	A		S		0
313915111052001	D-20-12 26CAD2	804782	3290	SCA	SCA	01/11/12	176.9	3113.1	A		V		01/09/13	178.1	3111.9	A		S		-1.2
314303111032801	D-20-13 06CBA	627932	3064	SCA	SCA	01/11/12	56.7	3007.3	A		V		01/09/13	57.7	3006.3	A		S		-1
314214111025601	D-20-13 07ACD	617275	3063	SCA	SCA	01/27/12	30.3	3032.7	A		V		02/13/13	32	3031	A		V		-1.7
314157111003701	D-20-13 09DDD	611218	3450	SCA	SCA	01/27/12	243.6	3206.4	A		V		12/12/12	244.1	3205.9	A		VT		-0.5
313845111023101	D-20-13 32BCC	610533	3149	SCA	SCA	01/27/12	29.8	3119.2	A		V		12/12/12	32.3	3116.7	A		VT		-2.5
313538111181801	D-21-10 22ABA		3742	SCA	SCA	01/09/12	95.4	3646.6	A		V		01/07/13	95.8	3646.2	A		S		-0.4
313539111033701	D-21-12 24AAA	509495	3380	SCA	SCA	09/12/12	156.2	3223.8	A		S		12/12/12	156	3224	A		V		0.2
313735111023701	D-21-13 05CCB	608125	3180.46	SCA	SCA	01/24/12	15.63	3164.83	A		VT		02/07/13	16.09	3164.37	A		VT		-0.46
313506111030701	D-21-13 19DBC	617995	3240	SCA	SCA	01/11/12	25.1	3214.9	A		S		01/08/13	25.7	3214.3	A		S		-0.6
313408111025601	D-21-13 30DCA		3250	SCA	SCA	01/27/12	11.2	3238.8	A		S		12/12/12	8.3	3241.7	A	X	S		2.9
313345111024802	D-21-13 31AAC2UNSURV	551439	3262.76	SCA	SCA	01/24/12	9.89	3252.87	A		VT		02/07/13	9.69	3253.07	A		VT		0.2
313211111014001	D-22-13 05DD2 UNSURV	619360	3310	SCA	SCA	01/11/12	18.3	3291.7	A	R	S		01/10/13	16.1	3293.9	A		S		2.2
313137111004301	D-22-13 09DA2 UNSURV	619348	3327	SCA	SCA	01/11/12	15.3	3311.7	A		S		01/10/13	11.9	3315.1	A		S		3.4
313120111005801	D-22-13 09DCC UNSURV	605206	3333	SCA	SCA	09/12/12	26.1	3306.9	A		S		12/12/12	19.5	3313.5	A		V		6.6
312946111025301	D-22-13 19DCC1 UNS	524009	3518	SCA	SCA	01/10/12	199.5	3318.5	A		V		05/30/13	200.5	3317.5	A	S	V		-1

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
312929110594201	D-22-13 27AAB UNSURV	619353	3381	SCA	SCA	01/11/12	17.6	3363.4	A		S		01/10/13	12.4	3368.6	A		S		5.2
312818110594501	D-22-13 34ADD UNSURV	619367	3401	SCA	SCA	01/11/12	31.1	3369.9	A	R	S	PUMP WAS TURNED OFF APPROXIMATELY 15 MINUTES PRIOR TO	01/10/13	18	3383	A		S		13.1
312756110584801	D-22-13 35DCD UNSURV	619351	3430	SCA	SCA	01/11/12	27.6	3402.4	A		S		01/10/13	29.1	3400.9	A		S		-1.5
312823110573501	D-22-13 36AD UNSURV	619352	3471	SCA	SCA	01/27/12	49.1	3421.9	A		V		02/13/13	51.7	3419.3	A		S		-2.6
312740110581301	D-23-13 01BBD UNSURV	506506	3444.16	SCA	SCA	01/24/12	32.73	3411.43	A		VT		02/07/13	30.11	3414.05	A		VT		2.62
312633111023301	D-23-13 08CB UNSURV		3535	SCA	SCA	09/12/12	10.5	3524.5	A		S		05/07/13	11.4	3523.6	A		V		-0.9
312630110575301	D-23-13 12ACD UNSURV	603437	3485	SCA	SCA	01/10/12	25.3	3459.7	A		S		01/09/13	23.4	3461.6	A		S		1.9
312423110574901	D-23-13 24DDC	500951	3597	SCA	SCA	01/10/12	58.5	3538.5	A		V		01/08/13	59.5	3537.5	A		V	TURBINE GONE. NOW SUB PUMP	-1
312301111024801	D-23-13 31DAB	634030	4040	SCA	SCA	01/10/12	316.2	3723.8	A		V		01/08/13	316.6	3723.4	A		S		-0.4
312316110574801	D-23-13 36ADB	603432	3675	SCA	SCA	01/10/12	127.7	3547.3	A		V		01/08/13	126.3	3548.7	A		S		1.4
312308110580601	D-23-13 36BDD	506340	3700.19	SCA	SCA	01/23/12	153.19	3547	A		S		02/07/13	149.93	3550.26	A		VT		3.26
312523110542801	D-23-14 15CCB1	607491	3554	SCA	SCA	01/27/12	53.8	3500.2	A	S	V		02/13/13	59.5	3494.5	A		S		-5.7
312545110552801	D-23-14 16BCC	619649	3500	SCA	SCA	09/12/12	20.4	3479.6	A	X	S		08/13/13	32.3	3467.7	A		S		-11.9
312426110540201	D-23-14 22CDD2		3575	SCA	SCA	01/27/12	28.75	3546.25	A		S		02/13/13	37	3538	A		S		-8.25
312513110505401	D-23-15 19ABB	805426	3895	SCA	SCA	01/11/12	141.6	3753.4	A		V		01/08/13	142.4	3752.6	A		V		-0.8
312240110511001	D-23-15 31CDC		3682	SCA	SCA	09/12/12	23.2	3658.8	A		S		08/13/13	20.8	3661.2	A		S		2.4
312204110575601	D-24-13 01DBD	571751	3827	SCA	SCA	01/27/12	286.8	3540.2	A	S	V		12/12/12	292.4	3534.6	A	S	S		-5.6
312017110573001	D-24-14 18CBC	603434	3960	SCA	SCA	01/10/12	203.4	3756.6	A		V		01/08/13	203.6	3756.4	A		V		-0.2
312147110482801	D-24-15 04DDD1UNSURV	625340	4018	SCA	SCA	01/11/12	80	3938	A		V		01/09/13	84.6	3933.4	A		V		-4.6
312123110484201	D-24-15 04DDD2UNSURV	625346	4018	SCA	SCA	01/11/12	269.4	3748.6	A		V	PUMP WAS OFF FOR 24 HOURS PRIOR TO MEASUREMENT.	01/09/13	275.6	3742.4	A		V		-6.2
312230110503301	D-24-15 06AAD	803465	3663.85	SCA	SCA	01/23/12	29.1	3634.75	A		S		05/15/13	31.43	3632.42	A		VT		-2.33
312124110493301	D-24-15 08ADC UNSURV	510018	3844	SCA	SCA	01/27/12	85.5	3758.5	A		V		02/13/13	86.4	3757.6	A		S		-0.9
332241110461201	D-01-15 01BBA	703145	3603.72	SRB	SRL	08/15/12	32.68	3571.04	A		VT		10/09/12	33.42	3570.3	A		VT		-0.74
340642110554801	A-09-14 20ACA	644398	5165	SRB	USR	11/15/11	20	5145	A		V		10/22/12	21.1	5143.9	A		V		-1.1
312941110341601	D-22-17 25BDA2	630082	5085	SRF	SRF	01/11/12	27.55	5057.45	A		S		01/09/13	30.7	5054.3	A		V		-3.15
312848110384801	D-22-17 31ADA	611862	5145	SRF	SRF	01/11/12	114.9	5030.1	A		S		01/09/13	127.4	5017.6	A		S		-12.5
312647110364101	D-23-17 10CBC2	624898	4946	SRF	SRF	01/11/12	124.9	4821.1	A		S		01/09/13	124.4	4821.6	A		V		0.5
312207110400301	D-24-16 12BAB UNSURV	640950	4998	SRF	SRF	01/11/12	212.3	4785.7	A		V		01/09/13	214.2	4783.8	A		V		-1.9
312109110352501	D-24-17 14BAB		4645	SRF	SRF	01/11/12	6.35	4638.65	A		S		01/09/13	6.27	4638.73	A		S		0.08
312031110363201	D-24-17 15CCA	602673	4680	SRF	SRF	01/11/12	13.95	4666.05	A		S		01/09/13	23	4657	A	P	S		-9.05
334830113102401	B-05-09S02BBD	612682	2168	TIG	TIG	11/03/11	218.5	1949.5	A		V		11/01/12	217.8	1950.2	A		V		0.7
334653111154101	A-05-11 18AAA	600998	2145	TON	TON	11/14/11	4.45	2140.55	A		S		10/25/12	6.2	2138.8	A		S		-1.75
335205111180601	A-06-10 14ABC2		2316	TON	TON	11/14/11	16.05	2299.95	A		S		10/25/12	15.9	2300.1	A		S		0.15
335322111150701	A-06-11 05CAD	601024	2720	TON	TON	11/14/11	64.4	2655.6	A		V		10/25/12	70.2	2649.8	A		S		-5.8
335812111192401	A-07-10 10BAA	601025	2590	TON	TON	03/06/12	67	2523	A		S		03/14/13	71.7	2518.3	A	R	S	BRAKED WINDMILL 10 MINUTES BEFORE MEASUREMENT	-4.7
340143111211001	A-08-10 20ABA	601016	3060	TON	TON	03/06/12	51	3009	A		S		03/14/13	51.1	3008.9	A		S		-0.1
340932111204001	A-09-10 05AAA		4200	TON	TON	11/14/11	96	4104	A		V		10/25/12	99.4	4100.6	A		VT		-3.4
340654111211201	A-09-10 20BAA	601014	3190	TON	TON	11/14/11	68.7	3121.3	A		V		10/25/12	69.7	3120.3	A		S		-1

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
340458111211801	A-09-10 32BDB	601022	3030	TON	TON	11/14/11	38.6	2991.4	A		S		10/25/12	39.2	2990.8	A		S		-0.6
341408111212001	A-10-10 05CCA	620875	4820	TON	TON	11/14/11	34.1	4785.9	A		S		11/07/12	35.2	4784.8	A		V		-1.1
341336111174801	A-10-10 11ACB	509660	4821.29	TON	TON	02/07/12	6.42	4814.87	A		VT		01/30/13	5	4816.29	A		VT		1.42
341350111181301	A-10-10 11BBA	620871	4960	TON	TON	11/14/11	41.1	4918.9	A		S		11/07/12	44.4	4915.6	A		V		-3.3
341623111182401	A-11-10 26BBC	577330	5120	TON	TON	11/14/11	120.8	4999.2	A		V		11/08/12	122.3	4997.7	A		V		-1.5
341558111173301	A-11-10 26DAB	565428	4971.9	TON	TON	02/07/12	103.06	4868.84	A		VT		10/02/12	109.86	4862.04	A		VT		-6.8
341447111182501	A-11-10 35CCC	631835	5060	TON	TON	11/14/11	118.4	4941.6	A		V		11/07/12	122.9	4937.1	A		V		-4.5
341743110582401	A-11-13 34CBA2	569391	6145	TON	TON	11/15/11	69.8	6075.2	A		V		10/22/12	89.5	6055.5	A		V		-19.7
324919110585701	D-07-13 15CAC1		3600	TUC	AVR	01/10/12	43.1	3556.9	A		V		01/08/13	27.3	3572.7	A		V		15.8
324157111153101	D-08-11 31BBB	607144	2105	TUC	AVR	01/11/12	452.2	1652.8	A		V		01/08/13	452.1	1652.9	A		V		0.1
324304111082101	D-08-12 19DDA	804174	2732	TUC	AVR	01/10/12	19.2	2712.8	A		V		01/08/13	14.7	2717.3	A		V		4.5
324007111224501	D-09-09 01BCC PZ1	504989	1858	TUC	AVR	01/31/12	291.8	1566.2	A		V		11/15/12	291.6	1566.4	A		V		0.2
323759111201201	D-09-10 17CDD PZ1	504992	1854	TUC	AVR	01/31/12	250.1	1603.9	A		V		11/15/12	250.2	1603.8	A		V		-0.1
323759111201202	D-09-10 17CDD PZ2	504992	1854	TUC	AVR	01/31/12	221.8	1632.2	A		V		11/15/12	222	1632	A		V		-0.2
323753111204601	D-09-10 19AAA	804195	1840	TUC	AVR	01/09/12	177.9	1662.1	A		V		01/07/13	178.9	1661.1	A		V		-1
323730111204501	D-09-10 19ADD	615627	1836	TUC	AVR	01/09/12	200.7	1635.3	A		V		01/07/13	200.6	1635.4	A		V		0.1
323623111201201	D-09-10 29CDA PZ1	504993	1850	TUC	AVR	01/31/12	249.7	1600.3	A		V		11/15/12	250.2	1599.8	A		V		-0.5
323623111201202	D-09-10 29CDA PZ2	504993	1850	TUC	AVR	01/31/12	199.2	1650.8	A		V		11/15/12	200.1	1649.9	A		V		-0.9
323759111011501	D-09-13 20DBD	615648	3360	TUC	AVR	01/10/12	306.1	3053.9	A		V		01/08/13	306.1	3053.9	A		V		0
323438111194501	D-10-10 05DAD	624751	1855	TUC	AVR	01/09/12	200.7	1654.3	A		V		01/09/13	201	1654	A		V		-0.3
323152111200401	D-10-10 20DCC	618728	1862	TUC	AVR	01/11/12	175.2	1686.8	A		V		01/09/13	173.9	1688.1	A		V		1.3
323338111141501	D-10-11 17CAB2	638306	2140	TUC	AVR	01/09/12	437.6	1702.4	A		V		01/09/13	436.2	1703.8	A		V		1.4
323307111151901	D-10-11 19BDB PZ1	504994	2043	TUC	AVR	01/31/12	349.1	1693.9	A		V		11/15/12	349.5	1693.5	A		V		-0.4
323307111151902	D-10-11 19BDB PZ2	504994	2043	TUC	AVR	01/31/12	349.4	1693.6	A		V		11/15/12	348.5	1694.5	A		V		0.9
322732111181701	D-11-10 22ADD1	626687	1914	TUC	AVR	01/10/12	158.2	1755.8	A		V		01/07/13	158.5	1755.5	A		V		-0.3
322621111161301	D-11-10 25DDA2	615764	1953	TUC	AVR	01/10/12	170.3	1782.7	A	V	V	HEAVY OIL	01/07/13	170.3	1782.7	A	V	V	BLACK CRUDE	0
322636111181401	D-11-10 27DAA		1935	TUC	AVR	01/13/12	181.4	1753.6	A		V		01/07/13	179.2	1755.8	A		V		2.2
322924111131801	D-11-11 09ACD PZ1	504996	2043	TUC	AVR	01/31/12	317.2	1725.8	A		V		11/15/12	317.1	1725.9	A		V		0.1
322924111131802	D-11-11 09ACD PZ2	504996	2043	TUC	AVR	01/31/12	296.9	1746.1	A		V		11/15/12	299.3	1743.7	A		V		-2.4
322923111112101	D-11-11 11DCD	600235	2148	TUC	AVR	01/11/12	409.2	1738.8	A		V		01/09/13	407.9	1740.1	A		V		1.3
322805111133101	D-11-11 16CDD2	604802	1968	TUC	AVR	01/10/12	195.1	1772.9	A	S	V		01/07/13	195.7	1772.3	A		V		-0.6
322554111115801	D-11-11 34ADD2	604805	2008	TUC	AVR	01/10/12			A	Z	V	BOTTOMS OUT AT 210', PROBE COMES BACK DRY. WELL HASN'T BEEN USED IN `2.5 YEARS.	01/07/13	209.5	1798.5	A		V		
322219111172801	D-12-10 23DAB	621364	2025.8	TUC	AVR	01/10/12	251	1774.8	A		V		01/07/13	250.8	1775	A		V		0.2
322444111095401	D-12-11 01DDA PZ1	508652	2041	TUC	AVR	02/01/12	206.7	1834.3	A		V		11/15/12	207.1	1833.9	A		V		-0.4
322444111095402	D-12-11 01DDA PZ2	508652	2041	TUC	AVR	02/01/12	85.6	1955.4	A		V		11/15/12	85.9	1955.1	A		V		-0.3
322245111140401	D-12-11 20AAA	504485	2019	TUC	AVR	01/10/12	215.6	1803.4	A		V		01/07/13	217.2	1801.8	A		V		-1.6
321728111193401	D-13-10 16DCD	615881	2136	TUC	AVR	01/10/12			A	Z	V	SAME LEVEL AS PREVIOUS MSMT, PROBE RETURNED PLUGGED WITH MUD.	01/07/13			A	D	V	PROBE RETURNED TO SURFACE PLUGGED WITH SEDIMENT	

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
321851111112601	D-13-11 11ACC2		2393	TUC	AVR	01/10/12	201.2	2191.8	A		V		01/07/13	200.5	2192.5	A		V		0.7
321806111150401	D-13-11 17BCB PZ1	508422	2144	TUC	AVR	02/01/12	338.5	1805.5	A		V		11/15/12	338.5	1805.5	A		V		0
321806111150402	D-13-11 17BCB PZ2	508422	2144	TUC	AVR	02/01/12	340.4	1803.6	A		V		11/15/12	340.1	1803.9	A		V		0.3
321256111162901	D-14-10 12BAC	633627	2240	TUC	AVR	01/10/12	394.5	1845.5	A		V		01/07/13	392	1848	A		V		2.5
321220111111201	D-14-11 14DDB PZ1	509590	2374	TUC	AVR	02/01/12	411.4	1962.6	A		V		11/15/12	397.9	1976.1	A		V		13.5
321220111111202	D-14-11 14DDB PZ2	509590	2374	TUC	AVR	02/01/12	411.8	1962.2	A		V		11/15/12	397.1	1976.9	A		V		14.7
320434111200701	D-15-10 33CBC2	603530	2540	TUC	AVR	01/11/12	155.6	2384.4	A		V		01/08/13	155.8	2384.2	A		V		-0.2
320511111171201	D-15-10 35AAA	612020	2529.6	TUC	AVR	01/11/12	219.7	2309.9	A		V		01/08/13	219.8	2309.8	A		V		-0.1
320850111145901	D-15-11 05CCD	610699	2368	TUC	AVR	01/11/12	346.3	2021.7	A		V	RISE IN WL DUE TO LOCAL RECHARGE FACILITY	01/08/13	326.9	2041.1	A		V	RECHARGE EFFECTS	19.4
320104111215301	D-16-10 19CCA		2652	TUC	AVR	01/11/12	153.5	2498.5	A		V		01/08/13	152.9	2499.1	A		V		0.6
320007111183601	D-16-10 34BAA	621997	3096	TUC	AVR	01/11/12	601.2	2494.8	A		V		01/08/13	601.2	2494.8	A		V		0
315825111230601	D-17-09 02DDA	612492	2744	TUC	AVR	01/11/12	183.9	2560.1	A		V		01/08/13	183.6	2560.4	A		V		0.3
315257111234501	D-18-09 11BAC	624829	2915	TUC	AVR	01/11/12	245.9	2669.1	A		V		01/08/13	246.4	2668.6	A		V		-0.5
315241111240301	D-18-09 11BCC	624828	2923	TUC	AVR	01/11/12	243.5	2679.5	A		V		01/08/13	243.3	2679.7	A	R	V	TURNED OFF FOR MSMT	0.2
314830111243101	D-19-09 03ACA	634260	3054	TUC	AVR	01/11/12	321.2	2732.8	A		V		01/08/13	321.2	2732.8	A		V		0
313850111295701	D-20-08 35BDB	630265	3463	TUC	AVR	01/11/12	461.8	3001.2	A		V		01/08/13	462.4	3000.6	A		V	UNKNOWN LAST PUMP CYCLE	-0.6
314135111263101	D-20-09 17ABA	630266	3254	TUC	AVR	01/11/12	304	2950	A		V		01/08/13	304.6	2949.4	A		V		-0.6
312946111334501	D-22-08 19DBC	630269	3610	TUC	AVR	01/11/12	88.6	3521.4	A		V		01/08/13	89.8	3520.2	A		V		-1.2
312827111303301	D-22-08 34ABD	630270	3450	TUC	AVR	01/11/12	198.4	3251.6	A		V		01/08/13	199	3251	A		V		-0.6
323942111030201	D-09-13 07CBC		3115	TUC	USC	01/10/12	157.4	2957.6	A	P	V		01/08/13	182.6	2932.4	A	R	V		-25.2
323418110565401	D-10-13 12DDA	615717	3418	TUC	USC	01/10/12	452.2	2965.8	A		V		01/08/13	453.4	2964.6	A		V		-1.2
323139110550801	D-10-14 29DCA	615723	3273	TUC	USC	01/10/12	334.9	2938.1	A	P	V		01/08/13	330.4	2942.6	A		V		4.5
323029110553401	D-11-14 04BBC2	807195	3158	TUC	USC	01/10/12	244.5	2913.5	A		V		01/08/13	245.8	2912.2	A		V		-1.3
322227111055901	D-12-12 22ADC		2139	TUC	USC	01/09/12	160.1	1978.9	A		V		01/07/13	167.7	1971.3	A		V		-7.6
322434110562501	D-12-14 05CCD		2628	TUC	USC	01/10/12	148.1	2479.9	A		V		01/08/13			A	O	V	OBST @ 155.5FT	
321830110583201	D-13-13 13BBA	631710	2395	TUC	USC	01/10/12	251.9	2143.1	A		V		01/07/13	255.9	2139.1	A		V		-4
321806111021501	D-13-13 17BDD2	510904	2237	TUC	USC	01/10/12	151.5	2085.5	A		V		01/07/13	157.6	2079.4	A		V		-6.1
321638110591001	D-13-13 26BAD2	626047	2321.22	TUC	USC	12/19/11	194	2127.22	R	Z	R	UTM SOUNDER PROBLEMS. GOT LAST MEASURMENT FROM IRRIGATION DIST.	01/08/13	195.1	2126.12	A		V		-1.1
321507111024001	D-13-13 32CCC	635619	2468	TUC	USC	01/10/12	232.1	2235.9	A		V		01/09/13	233.7	2234.3	A		V		-1.6
321735110573301	D-13-14 19BBB1	808475	2321.3	TUC	USC	03/07/12	138.82	2182.48	T		V		01/09/13	141.4	2179.9	A		V		-2.58
321654110564101	D-13-14 19DDA2	618723	2342	TUC	USC	01/12/12	143.7	2198.3	A		V		01/09/13	146.9	2195.1	A		V		-3.2
321653110564801	D-13-14 19DDB2	618686	2339	TUC	USC	01/12/12	144.8	2194.2	A		V		01/09/13	147.4	2191.6	A		V		-2.6
321649110564001	D-13-14 19DDD	618684	2342	TUC	USC	01/12/12	149.4	2192.6	A		V		01/09/13	151	2191	A		V		-1.6
321647110563301	D-13-14 20CCC	618705	2348.16	TUC	USC	01/24/12	150.46	2197.7	A		VT		10/02/12	151.96	2196.2	A		VT		-1.5
321649110563201	D-13-14 20CCD	618683	2348	TUC	USC	01/12/12	148.6	2199.4	A		V		01/09/13	150.7	2197.3	A		V		-2.1
321647110532201	D-13-14 26BBB	620156	2464	TUC	USC	01/12/12	70.6	2393.4	A		V		01/10/13	74.8	2389.2	A		V		-4.2
321614110533001	D-13-14 26CBB2	519320	2409	TUC	USC	01/12/12	66.8	2342.2	A		V		01/10/13	80.6	2328.4	A		V		-13.8
321558110531901	D-13-14 26CCD1	610544	2418	TUC	USC	01/12/12	104.1	2313.9	A		V		01/10/13	118.3	2299.7	A		V		-14.2

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
321612110524001	D-13-14 26DAC1		2429	TUC	USC	01/10/12	22.7	2406.3	A		V		01/09/13	25.5	2403.5	A		V		-2.8
321612110523701	D-13-14 26DAC2	611990	2430	TUC	USC	01/12/12	24.6	2405.4	A		V		01/10/13	26.7	2403.3	A		V		-2.1
321604110525601	D-13-14 26DCB2	519317	2423	TUC	USC	01/12/12	82.6	2340.4	A		V		01/10/13	103.4	2319.6	A		V		-20.8
321558110523901	D-13-14 26DDC	801050	2425	TUC	USC	01/12/12	59.3	2365.7	A		V		01/10/13	71.2	2353.8	A		V		-11.9
321555110534501	D-13-14 27DDC3	802445	2412	TUC	USC	01/12/12	153	2259	A	P	V		01/10/13	164.2	2247.8	A	P	V		-11.2
321639110560401	D-13-14 29ABB	610524	2353	TUC	USC	01/12/12	152.4	2200.6	A		V		01/09/13	154.1	2198.9	A		V		-1.7
321635110572602	D-13-14 30BBD	620294	2345	TUC	USC	01/12/12	175.1	2169.9	A		V		01/09/13	174.7	2170.3	A		V		0.4
321616110571001	D-13-14 30CAA1	620292	2357	TUC	USC	01/12/12	188.5	2168.5	A		V		01/09/13	188.2	2168.8	A		V		0.3
321546110533701	D-13-14 34AAD		2421	TUC	USC	01/12/12	156.1	2264.9	A		V		01/10/13	165.6	2255.4	A		V		-9.5
321545110530401	D-13-14 35BAD	636082	2430	TUC	USC	01/12/12	142.3	2287.7	A		V		01/09/13	155.1	2274.9	A		V		-12.8
321514110531701	D-13-14 35CCA	620140	2454	TUC	USC	01/12/12	233.5	2220.5	A		V		01/10/13	233.5	2220.5	A		V		0
321229110553201	D-14-14 16CCC PZ1		2480	TUC	USC	01/10/12	246.6	2233.4	A		V		01/09/13	246	2234	A		V		0.6
321229110553202	D-14-14 16CCC PZ2		2480	TUC	USC	01/10/12	245.9	2234.1	A		V		01/09/13	245.9	2234.1	A		V		0
321229110553203	D-14-14 16CCC PZ3		2480	TUC	USC	01/10/12			A	D	V		01/09/13			A	D	V		
321229110553204	D-14-14 16CCC PZ4		2480	TUC	USC	01/10/12	249.7	2230.3	A		V		01/09/13	249.6	2230.4	A		V		0.1
321033110523601	D-14-14 35AAA	621581	2643	TUC	USC	01/12/12	333.7	2309.3	A		V		01/09/13			A	O	V		
321140110451501	D-14-16 19CCB	808558	2962	TUC	USC	01/11/12	246.6	2715.4	A		V		01/08/13	248.3	2713.7	A		V		-1.7
320910110533001	D-15-14 03DAD	611361	2653.23	TUC	USC	01/17/12	392.5	2260.73	A	V	V		01/08/13	392.3	2260.93	A		V		0.2
320916110570701	D-15-14 06CAA	616564	2524	TUC	USC	01/12/12	103	2421	A	R	V	PUMP ONLY OFF FOR 15 MIN	01/10/13	102.8	2421.2	A		V		0.2
320904110570401	D-15-14 06DCB2	616565	2528	TUC	USC	01/12/12	243.6	2284.4	A		V		01/10/13	236.9	2291.1	A		V		6.7
320516110542301	D-15-14 34BBC	616008	2690	TUC	USC	01/12/12	187.3	2502.7	A		V		01/17/13	188.1	2501.9	A		V		-0.8
320941110512201	D-15-15 06BBB	621584	2715	TUC	USC	01/12/12	365.7	2349.3	A		V		01/09/13	368.7	2346.3	A		V		-3
320732110492201	D-15-15 16CBB PZ1		2842	TUC	USC	01/12/12	340.19	2501.81	A		V		01/09/13	342.7	2499.3	A		V		-2.51
320732110492202	D-15-15 16CBB PZ2		2842	TUC	USC	01/12/12	340.75	2501.25	A		V		01/09/13	343.35	2498.65	A		V		-2.6
320732110492203	D-15-15 16CBB PZ3		2842	TUC	USC	01/12/12	400.74	2441.26	A		V	REMEASURED TO MAKE SURE. GOT THE SAME EXACT MEASUREMENT TWICE.	01/09/13	402.34	2439.66	A		V		-1.6
320533110454901	D-15-15 25DBC2		3025	TUC	USC	01/12/12	446.7	2578.3	A		V		01/08/13	449.8	2575.2	A		V		-3.1
320335110572701	D-16-14S06CCD	632691	2580	TUC	USC	01/12/12	58	2522	A		V		01/10/13	52.7	2527.3	A		V		5.3
320402110502802	D-16-15 05CBC PZ2		2867	TUC	USC	01/11/12	326.07	2540.93	A		V		01/08/13	330.07	2536.93	A		V		-4
320402110502803	D-16-15 05CBC PZ3		2867	TUC	USC	01/11/12	303.45	2563.55	A		V		03/08/13	306.35	2560.65	A		V		-2.9
320253110423701	D-16-16 09DCD2	504558	3235	TUC	USC	01/13/12	584.5	2650.5	A		V		01/08/13	587.3	2647.7	A		V		-2.8
320216110405901	D-16-16 14CAC	209531	3178.92	TUC	USC	01/24/12	52.86	3126.06	A		VT		02/07/13	59.93	3118.99	A		VT		-7.07
320249110413501	D-16-16 15ABD	209530	3147.46	TUC	USC	10/12/11	206.62	2940.84	A		VT		10/02/12	226.06	2921.4	A		VT		-19.44
315705110560901	D-17-14 17BDD	214277	2733.37	TUC	USC	11/22/11	214.15	2519.22	A		VT		11/21/12	208.22	2525.15	A		VT		5.93
315614110543601	D-17-14 21ADA	216391	2815.86	TUC	USC	10/12/11	227.5	2588.36	A		VT		10/02/12	226.61	2589.25	A		VT		0.89
315840110463701	D-17-15 02DCD		3194	TUC	USC	01/17/12	555.7	2638.3	A		V		01/08/13	557.3	2636.7	A		V		-1.6
315023110570201	D-18-14 30ABA	540451	3053	TUC	USC	01/11/12	333.1	2719.9	A		V		01/10/13			A	O	V	DOWN VERY SLOWLY AND FINALLY STOPS AT ABOUT 250'	

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[2]	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE[3]	WY12 REMARK[4]	WY12 METHOD[5]	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[3]	WY13 REMARK[4]	WY13 METHOD[5]	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
314827111015801	D-19-13 05ACA2		3080	TUC	USC	01/11/12	280.4	2799.6	A	R	V	PUMP CAME ON AT START. PUMPED ~ 30 SEC AND STOPPED.	01/10/13	283.2	2796.8	A	R	V		-2.8
314728111011101	D-19-13 09CAA		2955	TUC	USC	01/11/12	138.7	2816.3	A		V		01/10/13	143.8	2811.2	A		V		-5.1
314606111011301	D-19-13 21BAA	623123	2966.59	TUC	USC	01/24/12	102.91	2863.68	A		VT		02/08/13	103.45	2863.14	A		VT		-0.54
314454111023701	D-19-13 29BCC	623122	3014.8	TUC	USC	01/24/12	84.84	2929.96	A		VT		10/02/12	87.42	2927.38	A		VT		-2.58
313506111210901	D-21-10 19DAD		3576.84	TUC	USC	01/23/12	27.3	3549.54	A		VT		02/08/13	25.27	3551.57	A		VT		2.03
313433111201601	D-21-10 29ADB		3609.3	TUC	USC	01/23/12	10.45	3598.85	A		VT		12/18/12	9.59	3599.71	A		VT		0.86
313305111174901	D-21-10 35CCD		3699.36	TUC	USC	01/23/12	34.8	3664.56	A		VT		10/03/12	34.78	3664.58	A		VT		0.02
335754112430301	B-07-04 07BCC	628115	2030	UHA	UHA	12/14/11	16.2	2013.8	A		V		10/25/12	8.9	2021.1	A		V		7.3
335828112453801	B-07-05 03DCB1	605607	2160	UHA	UHA	12/14/11	130.2	2029.8	A	P	V		10/25/12	131.7	2028.3	A	S	V		-1.5
340258112452001	B-08-05 10DAA	801840	2580	UHA	UHA	12/14/11	420.8	2159.2	A		V		10/25/12	421.9	2158.1	A		V		-1.1
340440112443601	B-09-05 35DBB		2640	UHA	UHA	01/25/12	404.7	2235.3	A		V		10/25/12	404.3	2235.7	A		V		0.4
340908112533801	B-09-06 05ADD	614605	2955.88	UHA	UHA	10/24/11	815.4	2140.48	A		V		10/25/12	814.6	2141.28	A		V		0.8
320947110094701	D-15-21 01BBC2	646835	4380	USP	SEV	01/25/12	215.5	4164.5	A	R	V		12/08/12	181.5	4198.5	A	P	V		34
320113110174901	D-16-20 27BBB	613532	3505	USP	SEV	01/25/12			A	Z	Z	UTM - MEAN DOGS, CANNOT GAIN ACCESS TO SITE	12/08/12			A	Z	Z	UTM - MEAN DOGS, CANNOT GAIN ACCESS TO SITE	
320005110170901	D-16-20 34ACB	611018	3533	USP	SEV	01/26/12	82.6	3450.4	A		S		12/07/12	80.1	3452.9	A	S	S		2.5
315734110221301	D-17-19 14ACA		4180	USP	SEV	01/26/12	552.1	3627.9	A		V		12/06/12	556.3	3623.7	A		V		-4.2
315700110164501	D-17-20 14CCC		3580	USP	SEV	01/27/12	14.5	3565.5	A		S		12/07/12	4.86	3575.14	A		S		9.64
315725110063001	D-17-22 17DAA	805032	4335	USP	SEV	01/26/12	520.8	3814.2	A		V		12/07/12	520.7	3814.3	A		V		0.1
315005110212501	D-18-19 25DCC	538969	4699.21	USP	SEV	10/25/11	73.36	4625.85	A		VT		10/10/12	74.61	4624.6	A		VT		-1.25
314940110212301	D-18-19 36ADC	593469	4702.6	USP	SEV	10/25/11	245.63	4456.97	A		VT		10/10/12	250.19	4452.41	A		VT		-4.56
315356110203001	D-18-20 06BDD	623648	4440	USP	SEV	11/14/11	264.9	4175.1	A		V		11/14/12	271	4169	A		V		-6.1
315019110203501	D-18-20 30CAB	598675	4541.22	USP	SEV	10/25/11	406.13	4135.09	A		VT		10/10/12	405.13	4136.09	A		VT		1
315335110090101	D-18-21 01DCA	626893	4160	USP	SEV	01/26/12	339.9	3820.1	A		V		12/07/12	338.3	3821.7	A		V		1.6
315417110140001	D-18-21 06AAB2	607856	3622	USP	SEV	01/26/12	39	3583	A		S		12/07/12	39.3	3582.7	A		V		-0.3
315019110115001	D-18-21 28DAA	612550	3745	USP	SEV	01/26/12	79.4	3665.6	A		V		12/06/12	80.7	3664.3	A	P	V		-1.3
314927110010301	D-18-23 32DBB		4840	USP	SEV	01/26/12	611.2	4228.8	A		V		12/06/12	611.7	4228.3	A	S	V		-0.5
314738110090601	D-19-21 12DBB2	616255	4045	USP	SEV	01/26/12	220.4	3824.6	A		V		12/06/12	220.3	3824.7	A		V	(D-19-21) 12DBB1 OFF FOR LAST SIX DAYS - NO PUMPING	0.1
314417109575101	D-19-23 35ACD	616270	4880	USP	SEV	11/15/11	293.2	4586.8	A		V		11/14/12	292.4	4587.6	A		V		0.8
314323110293901	D-20-18 03CAA	642963	4895	USP	SEV	01/10/12	138.5	4756.5	A		V		01/09/13	140.1	4754.9	A		V		-1.6
314300110155401	D-20-20 02DDD	616332	4183	USP	SEV	11/14/11	101.6	4081.4	A		V		11/14/12	102.2	4080.8	A		V		-0.6
314239110035301	D-20-22 11ADB	616498	4550	USP	SEV	11/15/11	421.7	4128.3	A		V		11/14/12	421.7	4128.3	A		V		0
313633110351101	D-21-17 14ACC	633080	5072	USP	SEV	01/12/12	52.1	5019.9	A		V		01/09/13	53.4	5018.6	A		S		-1.3
313556110334801	D-21-17 24AAB	648467	4965	USP	SEV	01/12/12	25.4	4939.6	A		S		01/09/13	23.7	4941.3	A		S		1.7
313559110283601	D-21-18 24BBB	628318	4827	USP	SEV	01/09/12	126.1	4700.9	A		V		01/09/13	126.7	4700.3	A		V		-0.6
313729110182501	D-21-20 10BBC		4355	USP	SEV	11/15/11	236.5	4118.5	A		V		11/15/12	236.8	4118.2	A		V		-0.3
313706110171601	D-21-20 11BCD		4345	USP	SEV	11/15/11	233.4	4111.6	A		V		11/15/12	233.8	4111.2	A		V		-0.4
313639110183501	D-21-20 16AAC1		4429.82	USP	SEV	10/25/11	298.02	4131.8	A		VT		10/10/12	299.04	4130.78	A		VT		-1.02

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
313553110163701	D-21-20 23AAB	626103	4440	USP	SEV	11/15/11	305	4135	A		V		11/15/12	305.2	4134.8	A		V		-0.2
313338110185601	D-21-20 33ACC UNSURV	626107	4630	USP	SEV	11/15/11	539.2	4090.8	A		V		11/15/12	540.4	4089.6	A		V		-1.2
313404110173101	D-21-20 34AAA	610125	4566	USP	SEV	11/16/11	447.4	4118.6	A		V		11/15/12	447.8	4118.2	A		V		-0.4
313320110165301	D-21-20 35CDD	610120	4560	USP	SEV	11/16/11	447.9	4112.1	A		V		11/15/12	448.6	4111.4	A		V		-0.7
313825110195801	D-21-20S05ABC	603068	4335	USP	SEV	11/18/11	229	4106	A	P	V		11/16/12	214.8	4120.2	A		V		14.2
313425110115401	D-21-21 27CAA	805650	4250	USP	SEV	11/15/11	67.5	4182.5	A		V		11/15/12	68.7	4181.3	A		V		-1.2
313347110150701	D-21-21 31BDC	610123	4440	USP	SEV	11/16/11	308.5	4131.5	A		V		11/15/12	309.2	4130.8	A		V		-0.7
313341110132101	D-21-21 33CBB1	616677	4327	USP	SEV	11/18/11	190.2	4136.8	A		V		11/16/12	189.9	4137.1	A		V		0.3
313808110083801	D-21-22 06ACD2		4130	USP	SEV	11/15/11	29.2	4100.8	A		V		11/15/12	29.5	4100.5	A		V		-0.3
313435110060801	D-21-22 27BCD	515720	4180	USP	SEV	11/15/11	121.9	4058.1	A		V		11/15/12	122.2	4057.8	A		V		-0.3
313104110302901	D-22-18 15CBD	640945	5130	USP	SEV	01/12/12	41	5089	A	P	S		01/09/13	42.4	5087.6	A		V		-1.4
313224110154301	D-22-20 01DCD	519004	4500	USP	SEV	11/16/11	384.3	4115.7	A		V		11/15/12	384.6	4115.4	A		V		-0.3
313317110165201	D-22-20 10ABB	610130	4677	USP	SEV	11/16/11	562.4	4114.6	A		V		11/15/12	563.5	4113.5	A		V		-1.1
312803110165801	D-22-20 35CDC	805793	5005	USP	SEV	11/16/11	40.3	4964.7	A		V		11/16/12	38.5	4966.5	A		V		1.8
313009110111101	D-22-21 23CBA	642816	4320	USP	SEV	11/16/11	134.5	4185.5	A		V		11/15/12	135.6	4184.4	A		V		-1.1
312832110114901	D-22-21 34ACC	087668	4410	USP	SEV	11/16/11	206.6	4203.4	A		V		11/15/12	207.7	4202.3	A		V		-1.1
313247110060501	D-22-22 03CBA	809378	4255	USP	SEV	11/15/11	183.6	4071.4	A		V		11/15/12	183.8	4071.2	A		V		-0.2
313052110075501	D-22-22 17CDB UNSURV	623592	4097	USP	SEV	11/17/11	4.1	4092.9	A		V		11/15/12	5.3	4091.7	A		V		-1.2
312712110152101	D-23-21 06CCC2		4840	USP	SEV	11/16/11	24.4	4815.6	A		V		11/15/12	15.8	4824.2	A		V		8.6
312620110132901	D-23-21 08DDD	640780	4660	USP	SEV	11/16/11	145.6	4514.4	A		V		11/16/12	145.8	4514.2	A		V		-0.2
312405110103101	D-23-21 26ADC	553330	4472	USP	SEV	11/16/11	236.6	4235.4	A		V		11/16/12	237	4235	A		V		-0.4
312802110042601	D-23-22 02AAB	624537	4315	USP	SEV	11/17/11			A	O	V		11/16/12	205.5	4109.5	A		V		
312619110084801	D-23-22 07DCC	603003	4327	USP	SEV	11/16/11	107.3	4219.7	A		V		11/16/12	107.6	4219.4	A		V		-0.3
312554110064701	D-23-22 16BDD	085799	4230	USP	SEV	11/16/11	59.6	4170.4	A		V		11/15/12	59.4	4170.6	A		V		0.2
312421110041001	D-23-22 25BBC	632053	4380	USP	SEV	11/16/11	179.4	4200.6	A		V		11/16/12	179.6	4200.4	A		V		-0.2
312249110072101	D-23-22 32DDD2	806643	4248	USP	SEV	11/16/11	39.1	4208.9	A		V		11/16/12	39	4209	A		V		0.1
312006110075501	D-24-22 20BBA	603543	4295	USP	SEV	11/16/11	40.5	4254.5	A		V		11/16/12	40.7	4254.3	A		V		-0.2
344207112306001	B-15-02 06CCC	569852	5000	VRB	BIC	03/16/12	140.7	4859.3	A		V		03/12/13	148.1	4851.9	A		V		-7.4
343827112304801	B-15-02 31BBD	511301	5280	VRB	BIC	03/30/12	195.5	5084.5	A		V		03/13/13	198.5	5081.5	A		V		-3
344122112322201	B-15-03 11DDB	569850	5060	VRB	BIC	03/15/12	79.9	4980.1	A		V		03/26/13	86.8	4973.2	A	P	V		-6.9
344038112321101	B-15-03 14DAD	573968	5075	VRB	BIC	03/14/12	59	5016	A		V		03/12/13	60.7	5014.3	A		V		-1.7
344017112321101	B-15-03 23AAA	585987	5030	VRB	BIC	03/15/12	21.9	5008.1	A		V		03/12/13	20.8	5009.2	A		V		1.1
343957112322001	B-15-03 23ADC	526935	5085	VRB	BIC	03/15/12	64.4	5020.6	A		V		03/12/13	62.6	5022.4	A		V		1.8
343938112320101	B-15-03 24CCB	511633	5120	VRB	BIC	03/15/12	96.8	5023.2	A		V		03/12/13	96.6	5023.4	A		V		0.2
343932112310401	B-15-03 24DDD	602453	5190	VRB	BIC	03/15/12	225.5	4964.5	A		V		03/11/13	230.9	4959.1	A		V		-5.4
344158112384201	B-15H04 26DAA	649862	4796	VRB	BIC	03/13/12	172.3	4623.7	A	P	V		02/25/13	148.6	4647.4	A		V		23.7
344604112354301	B-16-03 17DAD	525910	4800	VRB	BIC	03/13/12	108.6	4691.4	A		V		02/25/13	110.6	4689.4	A		V		-2
344422112332001	B-16-03 27ADD	635246	5090	VRB	BIC	03/13/12	62.6	5027.4	A		V		02/25/13	64.1	5025.9	A		V		-1.5
344549112410901	B-16-04 16DCD	614807	4643	VRB	BIC	08/14/12	17.2	4625.8	A		VT		02/25/13	16.4	4626.6	A		S		0.8
344544112393401	B-16-04 23BBA	605218	4625	VRB	BIC	08/14/12	4.5	4620.5	A		S	NEARBY PUMPING N & S OF HERE.	09/18/13	3.6	4621.4	A		S		0.9
344435112404301	B-16-04 27BCB	631901	4682	VRB	BIC	03/13/12	39.99	4642.01	A		S		02/25/13	35	4647	A		S		4.99
344358112390701	B-16-04 35ABB	605221	4684	VRB	BIC	08/14/12	54.9	4629.1	A		S		08/23/13	53.9	4630.1	A		S		1

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
345205112240601	B-17-01 07DBB		4242	VRB	BIC	08/15/12	42.7	4199.3	A		S		12/06/12	43.8	4198.2	A		S		-1.1
345144112235901	B-17-01 07DCD		4244	VRB	BIC	05/16/12	42.6	4201.4	A		S		12/06/12	44.6	4199.4	A		S		-2
345314112263801	B-17-02 02CAA	908192	4575	VRB	BIC	08/14/12	323.8	4251.2	A		V		08/22/13	324.5	4250.5	A		V		-0.7
345338112311801	B-17-02 06BBB	603912	4390	VRB	BIC	03/08/12	134.7	4255.3	A		V		03/11/13	134.8	4255.2	A		V		-0.1
342600112513401	B-17-02 14ADA		4250	VRB	BIC	08/15/12	5.1	4244.9	A		S		12/06/12	3.6	4246.4	A		S		1.5
345109112264401	B-17-02 14CCA	548995	4390	VRB	BIC	03/13/12	96.1	4293.9	A		V		03/11/13	96.2	4293.8	A		V		-0.1
345048112292201	B-17-02 20ABD	801489	4467	VRB	BIC	03/16/12	189.1	4277.9	A		V		03/13/13	189.5	4277.5	A		V		-0.4
345030112282301	B-17-02 21ACC	541012	4480	VRB	BIC	03/13/12	119.3	4360.7	A		V		03/14/13	119.8	4360.2	A		V		-0.5
345056112271601	B-17-02 22ABB	606020	4375	VRB	BIC	03/13/12	29.6	4345.4	A		V		03/11/13	30	4345	A		V		-0.4
344915112264001	B-17-02 26CCD2	627269	4457	VRB	BIC	05/06/12	7.8	4449.2	A	V	V		08/20/13	7.6	4449.4	A	V	V		0.2
344950112291101	B-17-02 29ADC	574763	4605	VRB	BIC	03/16/12	240.3	4364.7	A		V		03/13/13	240.7	4364.3	A		V		-0.4
344928112294601	B-17-02 29CAC	518331	4750	VRB	BIC	03/15/12	463.8	4286.2	A		V		03/13/13	463.7	4286.3	A		V		0.1
345302112275601	B-17-02S03CCD		4430	VRB	BIC	08/14/12	163.7	4266.3	A		VT		08/22/13	164.2	4265.8	A		V		-0.5
345301112283701	B-17-02S04DBC1		4362	VRB	BIC	08/14/12	106.1	4255.9	A		VT		08/22/13	106.8	4255.2	A		V		-0.7
345256112261901	B-17-02W02DCC1	527679	4570	VRB	BIC	03/13/12	325.8	4244.2	A		V		03/11/13	326.3	4243.7	A		V		-0.5
344930112391901	B-17-04 26DBC UNSURV	614821	4634	VRB	BIC	03/06/12	78.3	4555.7	A	P	V		02/25/13	74.5	4559.5	A	P	V		3.8
344841112463701	B-17-05 34DBA	802802	4875	VRB	BIC	08/14/12	18.9	4856.1	A		VT		02/25/13	20	4855	A	P	V		-1.1
345557112294501	B-18-02 20DBB	614830	4498	VRB	BIC	08/16/12	236.1	4261.9	A		VT		02/27/13	236.4	4261.6	A		V		-0.3
345449112271101	B-18-02 27DDA	614831	4482	VRB	BIC	02/27/12	226.3	4255.7	A		V		02/27/13	227.1	4254.9	A		V		-0.8
345542112312801	B-18-03 24DDA		4435	VRB	BIC	02/27/12	168.8	4266.2	A		V		02/27/13	169.8	4265.2	A		V		-1
345507112330901	B-18-03 26BDB1		4405	VRB	BIC	02/27/12	135.4	4269.6	A		V		02/27/13	137.5	4267.5	A		V		-2.1
345842112380201	B-18-04 01ACA2	905773	4556.31	VRB	BIC	09/26/12	158.67	4397.64	A		VT		01/17/13	159	4397.31	A		VT		-0.33
345804112425701	B-18-04 08BBB	631897	4795	VRB	BIC	08/14/12	355.8	4439.2	A	P	V		02/26/13	353.3	4441.7	A	P	V		2.5
345755112413201	B-18-04 09BAD	622507	4650	VRB	BIC	08/16/12	362.3	4287.7	A	P	V		02/26/13	363.5	4286.5	A	P	V		-1.2
345738112391501	B-18-04 11ACC	200027	4615.7	VRB	BIC	02/06/12	320.87	4294.83	A		VT		01/17/13	322.18	4293.52	A		VT		-1.31
345712112374501	B-18-04 13AAA	622509	4538	VRB	BIC	08/16/12	175.9	4362.1	A	P	V		02/26/13	197.5	4340.5	A	P	V		-21.6
345629112405201	B-18-04 16DDA	622506	4720	VRB	BIC	08/16/12	393.6	4326.4	A		VT		08/21/13	393.9	4326.1	A		V		-0.3
345533112431001	B-18-04 19DDC	622504	4887	VRB	BIC	08/16/12	338.1	4548.9	A	P	VT		02/26/13	343	4544	A	P	V		-4.9
345530112405501	B-18-04 21DDD	622505	4786	VRB	BIC	08/16/12	289	4497	A		VT		02/26/13	290.2	4495.8	A	P	V		-1.2
345524112374401	B-18-04 25AAA2	211839	4572.77	VRB	BIC	02/06/12	262.53	4310.24	A		VT		01/17/13	263.93	4308.84	A		VT		-1.4
345347112405801	B-18-04 33DDD	622514	4654	VRB	BIC	03/06/12	178.3	4475.7	A		V		02/26/13	178.3	4475.7	A		V		0
345548112483101	B-18-05 20DAC		5075	VRB	BIC	08/14/12	29.8	5045.2	A		V		02/25/13	23.9	5051.1	A	X	V		5.9
345734112445501	B-18-05W12CBD	631896	4850	VRB	BIC	03/08/12	141.1	4708.9	A	P	V		02/26/13	151.4	4698.6	A	P	V		-10.3
350059112373101	B-19-03 19CBD	611027	4530	VRB	BIC	08/16/12	56.1	4473.9	A		V		02/28/13	55.5	4474.5	A		V		0.6
350359112381501	B-19-04 01BAD3	607039	4775	VRB	BIC	03/07/12	268.8	4506.2	A		V		02/28/13			A	O	V	OBSTRUCTED @ 190FT	
350341112403901	B-19-04 03BCD	607028	4560	VRB	BIC	08/16/12	50.8	4509.2	A		V		08/23/13	54.9	4505.1	A		V		-4.1
350356112413901	B-19-04 04BDB		4549	VRB	BIC	08/16/12	31.7	4517.3	A		V		02/28/13	30.8	4518.2	A		V		0.9
350332112413701	B-19-04 04CAC	624118	4547	VRB	BIC	08/16/12	27.2	4519.8	A		V		02/28/13	26.1	4520.9	A		V		1.1
350327112425901	B-19-04 05CCB	624147	4649	VRB	BIC	03/08/12	161	4488	A	P	V		02/26/13	126.8	4522.2	A		V		34.2
350303112395601	B-19-04 10ADA	607043	4570	VRB	BIC	08/16/12	64.3	4505.7	A		V		08/23/13	67.1	4502.9	A		V		-2.8
350302112404801	B-19-04 10BCB	607026	4529	VRB	BIC	08/16/12	22.5	4506.5	A		V		08/23/13	23	4506	A		V		-0.5
350016112421001	B-19-04 29DAB	624146	4642	VRB	BIC	03/08/12	351.6	4290.4	A		V		02/26/13	353	4289	A		V		-1.4
350224112445801	B-19-05 13BBA	624143	4902	VRB	BIC	08/13/12	226.9	4675.1	A		V		08/20/13	228.1	4673.9	A		V		-1.2

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA_1	SUB $BASIN_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 $SOURCE_3$	WY12 $REMARK_4$	WY12 $METHOD_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 $SOURCE_3$	WY13 $REMARK_4$	WY13 $METHOD_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
350111112455601	B-19-05 23CBA	624142	4968	VRB	BIC	08/13/12	296.8	4671.2	A		V		08/22/13	298.4	4669.6	A		V		-1.6
350037112440301	B-19-05 25AAA	624141	4770	VRB	BIC	03/08/12	135	4635	A		V		02/26/13	134.7	4635.3	A		V		0.3
350616112435601	B-20-04 19CBA	624116	4597	VRB	BIC	08/16/12	68	4529	A		V		02/28/13	67.7	4529.3	A		V		0.3
350535112432701	B-20-04 30AAD	607032	4571	VRB	BIC	08/16/12	52.2	4518.8	A		V		08/23/13	49.2	4521.8	A		V		3
350500112424601	B-20-04 32BBA	629225	4588	VRB	BIC	08/16/12	49.4	4538.6	A		V		02/28/13	48.5	4539.5	A		V		0.9
350436112395901	B-20-04 34ADC	614851	4694	VRB	BIC	08/16/12	188.5	4505.5	A		V		08/23/13	188.4	4505.6	A		V		0.1
350814112452701	B-20-05 11ACA		4678	VRB	BIC	08/15/12	131.5	4546.5	A		V		02/27/13	131.4	4546.6	A		V		0.1
350709112441101	B-20-05 13DAA	624124	4606	VRB	BIC	08/16/12	71	4535	A		V		02/28/13	70.9	4535.1	A		V		0.1
350647112471101	B-20-05 15CCC	624139	4994	VRB	BIC	08/16/12	185.8	4808.2	A		V		02/27/13	186.5	4807.5	A		V		-0.7
350423112471201	B-20-05 34CBC	579656	4960	VRB	BIC	08/14/12	166.1	4793.9	A		V		08/19/13	167.2	4792.8	A		V		-1.1
350410112464401	B-20-05 34CDD	644045	4930	VRB	BIC	08/14/12	152.1	4777.9	A	P	V		08/20/13	149.4	4780.6	A		V		2.7
350423112451101	B-20-05 35DAD	624137	4830	VRB	BIC	08/16/12	191.1	4638.9	A		V		02/27/13	191.1	4638.9	A		V		0
351207112283701	B-21-02 14BCC	604624	5110	VRB	BIC	03/08/12	996.6	4113.4	A		V		03/12/13	999	4111	O	Z	A		-2.4
350953112445701	B-21-04 31ABA UNSURV	608293	4768	VRB	BIC	03/09/12	173.3	4594.7	A		V		02/27/13	172.7	4595.3	A		V		0.6
351120112502401	B-21-05 20ACB	608296	4846	VRB	BIC	03/09/12	256.8	4589.2	A		V		02/27/13	256.3	4589.7	A		V		0.5
350932112470301	B-21-05 35ACD	608313	4713	VRB	BIC	03/09/12	73.7	4639.3	A		V		02/27/13	74.1	4638.9	A		V		-0.4
351552112572901	B-22-07W25ADD	608304	5076	VRB	BIC	08/15/12	190.1	4885.9	A		V		08/19/13	191	4885	A		V		-0.9
341436111190001	A-10-10 03BAD	512430	4985	VRB	LVR	11/14/11	201.4	4783.6	A		V		11/07/12	205.9	4779.1	A		V		-4.5
341356111191901	A-10-10 03CCD	512431	4917.63	VRB	LVR	06/05/12	125.57	4792.06	A		VT		10/02/12	119.54	4798.09	A		VT		6.03
341442111200101	A-10-10 04ABB	571659	4924.6	VRB	LVR	06/05/12	166.99	4757.61	A		VT		10/02/12	169.97	4754.63	A		VT		-2.98
341418111194901	A-10-10 04DBA		4960	VRB	LVR	08/09/12	212.2	4747.8	A		V		11/07/12	209.9	4750.1	A		V		2.3
341402111215101	A-10-10 06DCC	569710	4778.22	VRB	LVR	06/05/12	19.2	4759.02	A		VT		10/02/12	19.05	4759.17	A		VT		0.15
341347111205401	A-10-10 08ABD	620874	4820	VRB	LVR	11/14/11	61	4759	A		S		11/07/12	61.2	4758.8	A		V		-0.2
341338111194401	A-10-10 09ADB	631255	4970	VRB	LVR	11/14/11	94.8	4875.2	A		S		11/07/12	91.6	4878.4	A		V		3.2
341605111190301	A-11-10 27CAA	518735	5053	VRB	LVR	02/15/12	234	4819	A		V		11/07/12	229.9	4823.1	A	P	V		4.1
341547111192501	A-11-10 27CCB		5000	VRB	LVR	08/10/12	189.4	4810.6	A		V		08/21/13	191.1	4808.9	A		V		-1.7
341504111214601	A-11-10 31DAC1	620879	5060	VRB	LVR	11/14/11	193.6	4866.4	A		V		11/07/12	220.6	4839.4	A	R	V		-27
341518111205401	A-11-10 32ACD	650931	5140	VRB	LVR	11/14/11	299.7	4840.3	A		V		11/07/12	301.7	4838.3	A		V		-2
341535111213601	A-11-10 32BBB	568987	5096	VRB	LVR	02/07/12	250.55	4845.45	A		VT		01/30/13	249.5	4846.5	A		VT		1.05
342427111293401	A-12-08 22CDA	644149	5880	VRB	LVR	11/14/11	131.3	5748.7	A		V		11/07/12	126.5	5753.5	A		V		4.8
342408111270301	A-12-08 25AAC1		5562	VRB	LVR	11/14/11	101.6	5460.4	A		V		11/08/12	118.5	5443.5	A		V		-16.9
342344111280701	A-12-08 26DAB1	635775	5645	VRB	LVR	02/16/12	95.5	5549.5	A		V		11/07/12	94.8	5550.2	A		V		0.7
342406111293901	A-12-08 27BAD	515206	5960	VRB	LVR	11/14/11	353.6	5606.4	A		V		11/07/12	365.1	5594.9	A		V		-11.5
342347111162401	A-12-10 26CBB	641886	5590	VRB	LVR	03/06/12	403.8	5186.2	A		V		05/13/13	404.1	5185.9	A	R	V	PUMP SHUT-OFF 15 MINUTES PRIOR TO MEASUREMENT	-0.3
342344111155801	A-12-10 26CAA	521343	5450	VRB	VER	03/06/12	258.9	5191.1	A		V		05/13/13	234.1	5215.9	A		V	WELL HAS BEEN OFF ABOUT ONE WEEK PRIOR TO MEASUREMENT.	24.8

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[2]	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE[3]	WY12 REMARK[4]	WY12 METHOD[5]	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[3]	WY13 REMARK[4]	WY13 METHOD[5]	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
343134111465301	A-13-05 12CCC2	646829	3180	VRB	VER	03/05/12	18.7	3161.3	A		S		03/14/13	13.9	3166.1	A	Z	S	WEST FIELD ADJACENT TO MR. DUGANS WELL SITE HAS BEEN HEAVILY IRRIGATED FOR LAST 3 WEEKS.	4.8
343058111462902	A-13-05 13DBC2	524344	3201	VRB	VER	03/05/12	103.5	3097.5	A		V		03/14/13	100.8	3100.2	A	S	V		2.7
343105111504601	A-13-05 17CAA2	086280	3055	VRB	VER	03/05/12	37.7	3017.3	A		V		03/13/13	37.5	3017.5	A		S		0.2
342859111492901	A-13-05 28DCD1	085970	3060	VRB	VER	03/05/12	138.9	2921.1	A		V		03/13/13	131.6	2928.4	A	Z	V	MUD ON WIRE FOR AT LEAST 40 FEET.	7.3
343028111413801	A-13-06 23BBC	627339	4420	VRB	VER	03/05/12	339.1	4080.9	A		V		05/07/13	337.6	4082.4	A		V		1.5
342914111441601	A-13-06 29DBB	627333	3492	VRB	VER	07/19/12	302.5	3189.5	A		V		03/14/13	302	3190	A		V		0.5
343122111350401	A-13-07 14BAB1	627332	5955	VRB	VER	03/05/12	727.3	5227.7	A		V		03/14/13	727.9	5227.1	A		V		-0.6
343512112020501	A-14-03 21ABB1	603340	4950	VRB	VER	03/09/12	40.1	4909.9	A		V		03/19/13	41.5	4908.5	A		S		-1.4
343535111531001	A-14-04 24BCB2	505167	3121	VRB	VER	03/09/12	32	3089	A	R	V		03/11/13	33.8	3087.2	A		S		-1.8
343833111490101	A-14-05 04AAA	806134	3480	VRB	VER	03/08/12	327.8	3152.2	A		V		03/11/13	319	3161	A		V		8.8
343341111511201	A-14-05 32CBB2	605030	3138	VRB	VER	03/09/12	70.8	3067.2	A		V		03/11/13	70.3	3067.7	A		S		0.5
343638111501301	A-14-05E17AAC	629124	3190	VRB	VER	03/09/12	42.7	3147.3	A		V		03/11/13	45.1	3144.9	A		S		-2.4
343733111425801	A-14-06 09AAB	522310	3925	VRB	VER	03/08/12	213.5	3711.5	A	R	V		03/11/13	239.6	3685.4	A	R	VT		-26.1
343750111223101	A-14-09 02BCC	511926	6790	VRB	VER	07/17/12	766.9	6023.1	A		V		05/07/13	767.1	6022.9	A		V		-0.2
343314111183801	A-14-10 32DBD	611623	6855	VRB	VER	05/10/12	347.8	6507.2	A	R	V		05/07/13	344.9	6510.1	A	R	V		2.9
344304111585601	A-15-03 01DCC2	802758	3265	VRB	VER	03/07/12	59.4	3205.6	A		V		03/12/13	61.2	3203.8	A		S		-1.8
344354112014901	A-15-03 04AAB	506580	3500	VRB	VER	03/07/12	253	3247	A		V		03/12/13	251.1	3248.9	A		S		1.9
344258111595501	A-15-03 11ABB	613162	3320	VRB	VER	03/07/12	65.9	3254.1	A		V		03/12/13	67.4	3252.6	A		S		-1.5
344250111583401	A-15-03 12ADB1	630899	3265	VRB	VER	03/07/12	43.2	3221.8	A		V		03/12/13	47.4	3217.6	A		S		-4.2
344250111584101	A-15-03 12ADB3	802787	3265	VRB	VER	03/07/12	42.6	3222.4	A		V		03/12/13	45.2	3219.8	A		S		-2.6
344312111540801	A-15-04 02CCB4		3420	VRB	VER	03/07/12	97.45	3322.55	A		V		03/12/13	107.75	3312.25	A		S		-10.3
344307111552701	A-15-04 04DDC1		3355	VRB	VER	03/07/12	59.7	3295.3	A		V		03/12/13	60.4	3294.6	A		S		-0.7
344052111560601	A-15-04 21CBA2	631840	3225	VRB	VER	03/07/12	59.65	3165.35	A		V		03/12/13	59.3	3165.7	A		S		0.35
344105111503401	A-15-05 20BAA	519065	3600	VRB	VER	03/08/12	274.1	3325.9	A		V		03/12/13	288.7	3311.3	A		S		-14.6
344331111515501	A-15-05S06BCA	627337	3700	VRB	VER	03/07/12	383.7	3316.3	A		V		03/12/13	383.2	3316.8	A		V		0.5
344019111424301	A-15-06 21DDC	627282	3815	VRB	VER	03/08/12	31.7	3783.3	A		V		03/11/13	31.4	3783.6	A		S		0.3
343854111453301	A-15-06 31CBA2	629125	3515	VRB	VER	05/09/12	138.8	3376.2	A	R	V		03/11/13	136.3	3378.7	A		S		2.5
344556112040501	A-16-03 19DBD	525162	3660	VRB	VER	03/07/12	278.8	3381.2	A		V		03/12/13	276.5	3383.5	A		S		2.3
344545112005401	A-16-03 22DCD	629211	3430	VRB	VER	03/07/12	40.3	3389.7	A		V		03/12/13	39.2	3390.8	A		S		1.1
344440112003801	A-16-03 34AAD	609076	3310	VRB	VER	03/07/12	35.8	3274.2	A		V		03/12/13	33.3	3276.7	A		S		2.5
344428112004801	A-16-03 34ADC1	609079	3340	VRB	VER	03/07/12	67.8	3272.2	A		V		03/12/13	70.8	3269.2	A		S		-3
344359111591101	A-16-03 36CDC	614257	3428.04	VRB	VER	02/06/12	84.46	3343.58	A		VT		02/04/13	85.93	3342.11	A		VT		-1.47
344632111541701	A-16-04 15DDC2	509984	3620	VRB	VER	03/07/12	77.3	3542.7	A		V		03/13/13	80.3	3539.7	A		S	NEW OWNERS. OK TO MEASURE	-3
344625111571401	A-16-04 20BBB	614259	3740	VRB	VER	03/06/12	180.8	3559.2	A		V		03/13/13	190.7	3549.3	A		V	GENERATOR IN PUMP HOUSE	-9.9

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
344510111531601	A-16-04 26DAB1	503653	3443	VRB	VER	03/07/12	13.4	3429.6	A		V		03/13/13	8.6	3434.4	A		S	WELL ENCLOSED IN HOUSING	4.8
344733111292201	A-16-08 10ABC	641798	7370	VRB	VER	03/06/12	3.8	7366.2	A		S		05/07/13	4.17	7365.83	A		S		-0.37
344435111243501	A-16-09 28CBC3	627289	7490	VRB	VER	07/17/12	22.1	7467.9	A		S		05/07/13	21.46	7468.54	A		S		0.64
345057112145201	A-17-01 15CDC UNSURV	631883	4540	VRB	VER	03/14/12	417.1	4122.9	A	P	V		03/12/13	416.3	4123.7	A		V		0.8
345312111532001	A-17-04 01ACA	512462	4435	VRB	VER	03/06/12	736.6	3698.4	A		V		03/13/13	737.3	3697.7	A		V		-0.7
345302111582201	A-17-04 06ADD		4345	VRB	VER	03/06/12	673.1	3671.9	A		V		03/14/13	674.8	3670.2	A		V		-1.7
345001111514801	A-17-05 20CCC1	631803	4030	VRB	VER	03/06/12	391.1	3638.9	A		V		03/13/13	394.1	3635.9	A		V		-3
344943111483201	A-17-05 26BCA1	632376	3980	VRB	VER	03/06/12	117.2	3862.8	A	S	V		03/13/13	113.8	3866.2	A		S		3.4
344850111494801	A-17-05 33ADA1	614282	3840	VRB	VER	03/06/12	220	3620	A		V		03/13/13	219.5	3620.5	A		S		0.5
344829111492601	A-17-05 34CAC	614284	3970	VRB	VER	03/06/12	311.6	3658.4	A		V		03/13/13	312.3	3657.7	A		S		-0.7
345137111454801	A-17-06 18AAB	522853	4180	VRB	VER	03/09/12	11	4169	A		V	THIS WELL LOCATED LESS THAN 30 FEET FROM OAK CREEK - THUS ALL PREVIOUS MEASUREMENT REMARKS COULD HAVE NEARBY FLOW.	03/13/13	9.1	4170.9	A		S		1.9
344957111463102	A-17-06E30BBB		4300	VRB	VER	03/06/12	455.8	3844.2	A		V		03/13/13	457.1	3842.9	A		V		-1.3
345644111451601	A-18-06 17ACC	523380	4965	VRB	VER	03/08/12	510.7	4454.3	A		V		03/13/13	517.8	4447.2	A		V		-7.1
345619111385501	A-18-07 15CCB2	630882	6450	VRB	VER	03/07/12	118.8	6331.2	A		V		03/13/13	64.5	6385.5	A	X	V	NEARBY SURFACE FLOW	54.3
345612111385301	A-18-07 15CCC3	568934	6440	VRB	VER	03/07/12	714.2	5725.8	A		V		03/20/13	718.3	5721.7	O		T	ARIZONA WATER COMPANY MEASUREMENT	-4.1
350159111435701	A-19-06W14BAB	637391	6490	VRB	VER	03/08/12	816.6	5673.4	A		V	PUMP SHUT-OFF 1 HOUR BEFORE MEASUREMENT.	03/13/13	816	5674	A		V		0.6
350829111575601	A-20-04 03CBB	522705	6709	VRB	VER	03/07/12	54.1	6654.9	A		S		03/12/13	54.61	6654.39	A		S		-0.51
350624111482501	A-20-06 19BBB	500322	7163	VRB	VER	05/10/12	95.7	7067.3	A		S		05/08/13	104.8	7058.2	A		S		-9.1
351253112050001	A-21-03 09BDC	500519	6923	VRB	VER	05/17/12	143.1	6779.9	A		V		03/12/13	104	6819	A		S	PUMP OFF FOR 3 DAYS	39.1
351121111545601	A-21-04 24AAC	522559	6822	VRB	VER	03/07/12	149.1	6672.9	A		V		03/12/13	149.2	6672.8	A		V		-0.1
351409111500302	A-21-05 02ABC3	627254	7131	VRB	VER	03/07/12	36.2	7094.8	A		S		05/09/13	27.75	7103.25	A		S	WELL SHUT OFF LAST TWO MONTHS	8.45
351557112020401	A-22-03 24CCC	618481	6887	VRB	VER	03/07/12	8.3	6878.7	A		S		03/12/13	9.12	6877.88	A		S		-0.82
351702111555001	A-22-04 14DAD2	529277	7302	VRB	VER	03/07/12	150.9	7151.1	A		V		03/12/13	150.4	7151.6	A		V		0.5
352108111504801	A-23-05 27AAC	613888	7660	VRB	VER	05/10/12	711.4	6948.6	A		V		05/08/13	710.7	6949.3	A		V		0.7
345653112223701	B-18-01 17AAA	511557	4643	VRB	VER	03/08/12	424.1	4218.9	A		V		03/11/13	422	4221	O	Z	R		2.1
350154112220001	B-19-01 16ACB	645843	4790	VRB	VER	03/08/12	555.3	4234.7	A		V		05/16/13	556.4	4233.6	A		V		-1.1
365321113572401	B-40-15 06CDD	540950	2040.93	VRG	VRG	02/02/12	266.91	1774.02	A		VT		01/23/13	266.78	1774.15	A		VT		0.13
324018110005401	D-09-23 08ABC	805360	5150	WIL	WIL	11/29/11	231.2	4918.8	A		V		11/07/12	235.6	4914.4	A		V		-4.4
323511109591401	D-10-23 10BBA	627747	4543	WIL	WIL	11/29/11	416.1	4126.9	A		V		11/07/12	419.6	4123.4	A		V		-3.5

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SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA$_1$	SUB BASIN$_2$	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE$_3$	WY12 REMARK$_4$	WY12 METHOD$_5$	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE$_3$	WY13 REMARK$_4$	WY13 METHOD$_5$	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
322931109554201	D-11-24 07DAA	605412	4471	WIL	WIL	11/29/11	412	4059	A		V		11/07/12	417.6	4053.4	A		V		-5.6
322840109543901	D-11-24 17DAA	622902	4472	WIL	WIL	11/29/11	422.6	4049.4	A		V		11/07/12	428.8	4043.2	A		V	BEE'S	-6.2
322718109554101	D-11-24 30AAA	604191	4369	WIL	WIL	11/29/11	316.8	4052.2	A		V		11/07/12	327.1	4041.9	A		V		-10.3
322349109580601	D-12-23 14ABB		4269	WIL	WIL	11/19/11	215	4054	A		V		11/08/12	227.3	4041.7	A		V		-12.3
322234109553001	D-12-24 20CBB	626856	4246	WIL	WIL	11/28/11	197.2	4048.8	A		V		11/08/12	205.8	4040.2	A		S		-8.6
322008109523401	D-13-24 03ADA		4219	WIL	WIL	11/29/11	145	4074	A		V		11/05/12	145.7	4073.3	A		S		-0.7
321941109553101	D-13-24 05CCB2	619477	4221	WIL	WIL	11/28/11	157.4	4063.6	A		V		11/05/12	165.3	4055.7	A		V		-7.9
321834109543001	D-13-24 16BBB	805474	4212	WIL	WIL	11/28/11	138.7	4073.3	A		V		11/05/12	145.3	4066.7	A		S		-6.6
321736109473801	D-13-25 21AAC		4214	WIL	WIL	11/29/11	144.7	4069.3	A		V		11/05/12	150	4064	A		S		-5.3
321336110032801	D-14-22 12CDC	615961	4650	WIL	WIL	01/25/12	118.3	4531.7	A		V		12/07/12	146.5	4503.5	A		V		-28.2
321414109573001	D-14-23 12BBB2	608286	4357	WIL	WIL	11/28/11	283	4074	A		V		11/05/12	286.1	4070.9	A		V		-3.1
321323109521701	D-14-24 14BBA2	635009	4170	WIL	WIL	12/01/11	35.4	4134.6	A		V		11/05/12	36.3	4133.7	A		V		-0.9
321303109435201	D-14-26 18CAA1		4245	WIL	WIL	11/29/11	256.8	3988.2	A		V		11/07/12	260.7	3984.3	A		V		-3.9
320830109550901	D-15-24 08CDA	629684	4171	WIL	WIL	11/14/11	73.5	4097.5	A		V		11/05/12	73.8	4097.2	A		V		-0.3
320614109442401	D-15-25 25AAD	604416	4220	WIL	WIL	11/30/11	310.6	3909.4	A		V		11/06/12	329.4	3890.6	A		V		-18.8
320633109393901	D-15-26 23DCC2	611586	4460	WIL	WIL	11/30/11	345.1	4114.9	A		V		11/07/12	347	4113	A		V		-1.9
320119109545001	D-16-24 21CCC	606236	4273	WIL	WIL	11/15/11	254.2	4018.8	A		V		11/05/12	262.9	4010.1	A		V		-8.7
320441109453901	D-16-25 01BBB	607558	4207.33	WIL	WIL	02/02/12	88.38	4118.95	A		VT		10/09/12	88.61	4118.72	A		VT		-0.23
320237109475101	D-16-25 16ADD2	512259	4187	WIL	WIL	11/30/11	82.5	4104.5	A		V		11/06/12	89	4098	A		S		-6.5
320022109444601	D-16-25 36AAA	609186	4243	WIL	WIL	11/30/11	321.8	3921.2	A		V		11/06/12	331	3912	A		V		-9.2
320435109394301	D-16-26 02ADD	609041	4391	WIL	WIL	11/30/11	305.6	4085.4	A		V		11/07/12	308.7	4082.3	A		V		-3.1
320409109424501	D-16-26 05DAD	616104	4290	WIL	WIL	11/30/11	387.3	3902.7	A		V		11/07/12	398.6	3891.4	A		V		-11.3
320403109434701	D-16-26 06DDA	612109	4257.8	WIL	WIL	11/30/11	357.5	3900.3	A		V		11/07/12	369.9	3887.9	A		V		-12.4
320232109394201	D-16-26 14DAA	809034	4375	WIL	WIL	11/30/11	387.4	3987.6	A		V		11/07/12	394.5	3980.5	A		V		-7.1
320105109382001	D-16-27 30BAC	608128	4397.28	WIL	WIL	10/26/11	359.24	4038.04	A		VT		10/09/12	364.54	4032.74	A		VT		-5.3
315816109494501	D-17-25 08BCC2		4222	WIL	WIL	11/15/11	202	4020	A		V		11/05/12	212.8	4009.2	A	K	V	SOUNDS LIKE CASCADING IN EFFECT	-10.8
315910109414501	D-17-26 04ADD1	620777	4300	WIL	WIL	11/30/11	285	4015	A		V		11/06/12	288.3	4011.7	A		V		-3.3
315745109393901	D-17-26 14AAA		4329	WIL	WIL	11/30/11	226.5	4102.5	A		V		11/06/12	230.2	4098.8	A		S		-3.7
315858109323201	D-17-27 01DAD	616193	4621	WIL	WIL	12/01/11	279.5	4341.5	A		V		11/06/12	276.8	4344.2	A		V		2.7
315626109363601	D-17-27 20DAA2	606029	4413	WIL	WIL	11/30/11	275.6	4137.4	A		V		11/06/12	283.6	4129.4	A		V		-8
315602109360701	D-17-27 28BAA	627815	4427	WIL	WIL	11/30/11	271	4156	A		V		11/06/12	278	4149	A		V		-7
315421109380401	D-17-27 31CDD2	618485	4366	WIL	WIL	11/30/11	271.6	4094.4	A		V		11/06/12	284.2	4081.8	A		V		-12.6
315318109372101	D-18-27 08BAC	648836	4395	WIL	WIL	11/15/11	257.4	4137.6	A		V		11/06/12	263.2	4131.8	A		V		-5.8
315228109310301	D-18-28 17BAA	505333	4742	WIL	WIL	11/30/11	380.4	4361.6	A		V		11/06/12	381.7	4360.3	A		V		-1.3
313533109301801	D-21-28 21BCB	203421	4647.8	WIL	WIL	02/01/12	17.54	4630.26	A		VT		02/06/13	11.11	4636.69	A		S		6.43
315702112480401	C-17-05 17ABC2UNSURV	629090	1660	WMD	WMD	11/22/11	382.3	1277.7	A	Z	V		11/01/12	380.5	1279.5	A		V	USED SOUNDER TUBE FOR MSMT.	1.8
324330114252601	C-08-21 21BCA	612897	170	YUM	YUM	11/01/11	24.3	145.7	A		V		11/14/12	25.1	144.9	A		S		-0.8
324212114274801	C-08-22 25DAC3		155	YUM	YUM	11/01/11	17.4	137.6	A		V		11/14/12	19.1	135.9	A		S		-1.7
323840114320101	C-09-22 17DCA		208	YUM	YUM	10/31/11	64.7	143.3	A		V		11/14/12	69	139	A		S		-4.3
323602114480401	C-09-25 35CBD		104	YUM	YUM	11/01/11	20.5	83.5	A		V		11/15/12	21.2	82.8	A		S		-0.7
323124114395601	C-10-23 31BBB2		173	YUM	YUM	10/31/11	110.35	62.65	A		V		10/31/12	97.35	75.65	A		S		13

Appendix 4. Groundwater level change in Arizona – Water Years 2012 to 2013.

SITE ID	CADASTRAL	REG ID	SITE ALTITUDE [ft]	BASIN/ AMA[1]	SUB BASIN[2]	WL DATE 2012	WL 2012 [ft]	WL 2012 ELEVATION [ft]	WY12 SOURCE[3]	WY12 REMARK[4]	WY12 METHOD[5]	WY12 COMMENT	WL Date 2013	WL 2013 [ft]	WL 2013 ELEVATION [ft]	WY13 SOURCE[3]	WY13 REMARK[4]	WY13 METHOD[5]	WY13 COMMENT	WL CHANGE WY12 - WY13 [ft]
323133114475501	C-10-25 26CDB		90	YUM	YUM	11/01/11	24.35	65.65	A		S		11/15/12	26.15	63.85	A		S		-1.8
322737114415301	C-11-24 23BCB		160	YUM	YUM	10/31/11	120.2	39.8	A		V		11/14/12	120.3	39.7	A		S		-0.1
322449114323901	C-12-22 06DAA2	212452	202	YUM	YUM	10/31/11	167.7	34.3	A		V		11/15/12	168	34	A		S		-0.3

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona.
2. A = A.D.W.R, O = Owner, R= Other reported, S = Reporting Agency, T= City of Tucson
3. D = Dry, K = Cascading water, M = Well plugged, O = Obstruction, P = Pumping, R = Recently pumped, S = Nearby pumping, V = Foreign material (oil), W = Well destroyed, X = Surface water effects, Z = Other
4. A = Airline, F = Automated device, R= Reported, S = Steel tape, V = A.D.W.R calibrated electric sounder or non A.D.W.R electric tape, VT = A.D.W.R calibrated electric tape, Z = Other (explained in comments)

Appendix 5

Statewide groundwater level change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

Appendix 5. Statewide WL change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

WL Change	WL Change Time Period	Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
20 Year	9/30/1993 - 10/1/2013	AGF	AGF	4	0	4	0	-24.2 to -0.4	-6.65	-9.47	10.33	-0.47	22.30	65.10	42.35	43.03
10 Year	9/30/2003 - 10/1/2013	AGF	AGF	6	4	2	0	-25.8 to 5	1.20	-4.53	11.80	-0.23	22.30	448.80	55.75	123.70
1 Year	9/30/2012 - 10/1/2013	AGF	AGF	9	5	4	0	-2.3 to 2.66	0.09	-0.02	1.39	0.00	4.90	448.80	38.30	88.22
20 Year	9/30/1993 - 10/1/2013	ARA	ARA	1	0	1	0	-28.5 to -28.5	-28.50	-28.50	N/A	-1.43	135.30	135.30	135.30	135.30
10 Year	9/30/2003 - 10/1/2013	ARA	ARA	2	0	2	0	-13.9 to -5.5	-9.70	-9.70	5.94	-0.49	66.00	135.30	100.65	100.65
1 Year	9/30/2012 - 10/1/2013	ARA	ARA	2	1	1	0	-4 to 0.5	-1.75	-1.75	3.18	-0.09	37.10	66.00	51.55	51.55
20 Year	9/30/1993 - 10/1/2013	BIS	FTR	1	1	0	0	4.6 to 4.6	4.60	4.60	N/A	0.23	123.60	123.60	123.60	123.60
10 Year	9/30/2003 - 10/1/2013	BIS	FTR	1	1	0	0	4.5 to 4.5	4.50	4.50	N/A	0.23	123.60	123.60	123.60	123.60
1 Year	9/30/2012 - 10/1/2013	BIS	FTR	1	0	0	1	0 to 0	0.00	0.00	N/A	0.00	123.60	123.60	123.60	123.60
20 Year	9/30/1993 - 10/1/2013	BIS	WIK	6	2	3	1	-27.72 to 4.8	-1.00	-6.50	12.34	-0.33	14.70	372.50	101.81	149.85
10 Year	9/30/2003 - 10/1/2013	BIS	WIK	5	3	2	0	-4.7 to 3.5	0.10	-0.66	3.40	-0.03	14.70	372.50	105.82	170.76
1 Year	9/30/2012 - 10/1/2013	BIS	WIK	10	0	9	1	-4.8 to 0	-1.10	-1.55	1.55	-0.08	14.70	520.40	120.11	174.40
20 Year	9/30/1993 - 10/1/2013	BUT	BUT	7	0	7	0	-44.9 to -1.5	-8.80	-12.90	14.57	-0.65	94.00	514.20	221.20	252.04
10 Year	9/30/2003 - 10/1/2013	BUT	BUT	8	0	8	0	-30.5 to -0.7	-7.71	-10.75	10.06	-0.54	94.00	514.20	221.05	245.18
1 Year	9/30/2012 - 10/1/2013	BUT	BUT	6	0	6	0	-1.6 to -0.4	-1.30	-1.15	0.50	-0.06	94.00	514.20	238.45	257.23
20 Year	9/30/1993 - 10/1/2013	BWM	ALR	3	3	0	0	2.1 to 4.2	2.60	2.96	1.10	0.15	51.10	639.90	137.30	276.10
10 Year	9/30/2003 - 10/1/2013	BWM	ALR	4	4	0	0	0.6 to 6.1	1.04	2.19	2.63	0.11	51.10	639.90	386.70	366.10
1 Year	9/30/2012 - 10/1/2013	BWM	ALR	4	2	2	0	-0.2 to 0.6	0.00	0.10	0.36	0.01	51.10	639.90	386.70	366.10
20 Year	9/30/1993 - 10/1/2013	BWM	CLA	1	1	0	0	2.8 to 2.8	2.80	2.80	N/A	0.14	20.50	20.50	20.50	20.50
10 Year	9/30/2003 - 10/1/2013	BWM	CLA	1	1	0	0	3.5 to 3.5	3.50	3.50	N/A	0.18	98.30	98.30	98.30	98.30
1 Year	9/30/2012 - 10/1/2013	BWM	CLA	2	0	2	0	-0.83 to -0.72	-0.78	-0.77	0.08	-0.04	20.50	98.30	59.40	59.40
20 Year	9/30/1993 - 10/1/2013	BWM	SKU	7	2	5	0	-54.1 to 13.8	-2.60	-7.45	21.58	-0.37	81.80	248.50	111.70	155.83
10 Year	9/30/2003 - 10/1/2013	BWM	SKU	7	2	5	0	-3.5 to 12.6	-0.06	1.20	5.70	0.06	35.40	248.50	111.70	149.20
1 Year	9/30/2012 - 10/1/2013	BWM	SKU	9	3	5	1	-1.67 to 2.7	-0.20	0.11	1.34	0.01	35.40	485.70	111.70	175.43
20 Year	9/30/1993 - 10/1/2013	BWM	SMR	4	1	3	0	-9.5 to 2.5	-1.75	-2.62	5.12	-0.13	17.90	75.50	47.50	47.10
10 Year	9/30/2003 - 10/1/2013	BWM	SMR	4	2	2	0	-1.5 to 3.53	-0.25	0.38	2.20	0.02	17.90	75.50	47.50	47.10
1 Year	9/30/2012 - 10/1/2013	BWM	SMR	4	1	3	0	-2.2 to 2.8	-0.35	-0.02	2.08	0.00	17.90	75.50	47.50	47.10
20 Year	9/30/1993 - 10/1/2013	CCK	CCK	5	1	4	0	-8.4 to 0.8	-3.90	-3.56	3.39	-0.18	26.60	204.70	178.40	146.46
10 Year	9/30/2003 - 10/1/2013	CCK	CCK	8	1	7	0	-7.3 to 0.27	-2.76	-3.26	2.45	-0.16	21.90	207.40	108.85	112.98
1 Year	9/30/2012 - 10/1/2013	CCK	CCK	11	3	8	0	-11.8 to 0.8	-0.90	-2.60	4.04	-0.13	21.90	207.40	102.50	105.44
20 Year	9/30/1993 - 10/1/2013	COP	COP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	COP	COP	2	1	1	0	-0.4 to 16.25	7.93	7.92	11.77	0.40	91.90	269.40	180.65	180.65
1 Year	9/30/2012 - 10/1/2013	COP	COP	3	0	3	0	-0.6 to -0.4	-0.48	-0.49	0.10	-0.02	91.90	2842.90	269.40	1068.07
20 Year	9/30/1993 - 10/1/2013	DET	DET	5	3	2	0	-1.1 to 1.9	1.20	0.70	1.29	0.04	57.50	594.50	303.50	322.51
10 Year	9/30/2003 - 10/1/2013	DET	DET	4	2	2	0	-1.16 to 3	0.15	0.53	1.79	0.03	57.50	594.50	382.33	354.17
1 Year	9/30/2012 - 10/1/2013	DET	DET	10	5	4	1	-0.3 to 3.3	0.04	0.52	1.15	0.03	57.50	736.90	382.33	377.34
20 Year	9/30/1993 - 10/1/2013	DOU	DIN	19	1	18	0	-100.3 to 8.9	-19.00	-25.70	28.29	-1.29	69.50	377.90	130.70	169.92
10 Year	9/30/2003 - 10/1/2013	DOU	DIN	17	1	16	0	-58.67 to 4	-10.61	-14.15	14.91	-0.71	71.80	377.90	130.70	172.06
1 Year	9/30/2012 - 10/1/2013	DOU	DIN	19	2	16	1	-16 to 2.9	-1.30	-2.68	4.07	-0.13	69.50	377.90	130.70	169.47
20 Year	9/30/1993 - 10/1/2013	DOU	DOU	1	1	0	0	23.6 to 23.6	23.60	23.60	N/A	1.18	232.20	232.20	232.20	232.20
10 Year	9/30/2003 - 10/1/2013	DOU	DOU	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2012 - 10/1/2013	DOU	DOU	2	1	1	0	-5.8 to 0.7	-2.55	-2.55	4.60	-0.13	132.00	232.20	182.10	182.10
20 Year	9/30/1993 - 10/1/2013	DSW	DSW	2	0	2	0	-65.3 to -55.73	-60.52	-60.51	6.77	-3.03	75.60	98.90	87.25	87.25
10 Year	9/30/2003 - 10/1/2013	DSW	DSW	2	1	1	0	-0.7 to 10.8	5.50	5.05	8.13	0.25	75.60	98.90	87.25	87.25
1 Year	9/30/2012 - 10/1/2013	DSW	DSW	1	0	1	0	-0.7 to -0.7	-0.70	-0.70	N/A	-0.04	98.90	98.90	98.90	98.90
20 Year	9/30/1993 - 10/1/2013	DUN	DNM	3	2	1	0	-0.6 to 1.6	1.50	0.83	1.24	0.04	126.10	317.30	275.70	239.70
10 Year	9/30/2003 - 10/1/2013	DUN	DNM	3	1	2	0	-0.6 to 0.7	-0.01	0.03	0.65	0.00	126.10	317.30	275.70	239.70

Appendix 5. Statewide WL change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

WL Change	WL Change Time Period	Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
1 Year	9/30/2012 - 10/1/2013	DUN	DNM	2	0	2	0	-5.5 to -0.4	-2.95	-2.95	3.61	-0.15	275.70	317.30	296.50	296.50
20 Year	9/30/1993 - 10/1/2013	DUN	DUN	7	0	7	0	-22.3 to -1	-8.30	-10.25	6.87	-0.51	23.70	192.80	54.10	79.43
10 Year	9/30/2003 - 10/1/2013	DUN	DUN	7	0	7	0	-17.1 to -0.11	-3.80	-5.21	5.97	-0.26	23.70	192.80	54.10	79.43
1 Year	9/30/2012 - 10/1/2013	DUN	DUN	6	0	6	0	-8.9 to -0.1	-1.15	-2.70	3.41	-0.14	31.40	192.80	63.15	88.72
20 Year	9/30/1993 - 10/1/2013	GIL	GIL	16	1	15	0	-146.7 to 18.4	-39.75	-47.21	41.61	-2.36	37.50	656.10	277.15	306.85
10 Year	9/30/2003 - 10/1/2013	GIL	GIL	15	1	14	0	-73.65 to 3.39	-37.40	-36.48	21.33	-1.82	37.50	656.10	275.30	306.39
1 Year	9/30/2012 - 10/1/2013	GIL	GIL	20	0	20	0	-19.9 to -0.1	-4.00	-6.38	5.63	-0.32	37.50	656.10	277.15	295.00
20 Year	9/30/1993 - 10/1/2013	HAR	HAR	26	16	10	0	-44.5 to 41.1	5.80	3.89	24.95	0.19	38.60	607.60	384.30	342.95
10 Year	9/30/2003 - 10/1/2013	HAR	HAR	20	5	15	0	-59.76 to 32.1	-16.25	-16.59	25.61	-0.83	25.40	607.60	384.30	350.67
1 Year	9/30/2012 - 10/1/2013	HAR	HAR	25	7	17	1	-21.6 to 10.3	-2.10	-4.70	7.14	-0.24	25.40	607.60	370.96	338.51
20 Year	9/30/1993 - 10/1/2013	HUA	HUA	3	0	3	0	-33.3 to -1.3	-10.30	-14.96	16.50	-0.75	558.80	929.20	587.30	691.77
10 Year	9/30/2003 - 10/1/2013	HUA	HUA	8	3	5	0	-17.9 to 1	-0.56	-2.48	6.29	-0.12	264.20	654.10	406.10	448.85
1 Year	9/30/2012 - 10/1/2013	HUA	HUA	14	1	14	2	-2.9 to 2.8	-0.65	-0.62	1.29	-0.03	264.20	959.00	549.51	538.57
20 Year	9/30/1993 - 10/1/2013	KAN	KAN	3	1	2	0	-4.2 to 1	-0.60	-1.26	2.66	-0.06	87.60	611.30	484.70	394.53
10 Year	9/30/2003 - 10/1/2013	KAN	KAN	2	0	2	0	-1.3 to -0.21	-0.76	-0.75	0.77	-0.04	87.60	611.30	349.45	349.45
1 Year	9/30/2012 - 10/1/2013	KAN	KAN	3	1	1	1	-0.1 to 0.1	0.00	0.00	0.10	0.00	87.60	611.30	484.70	394.53
20 Year	9/30/1993 - 10/1/2013	LCR	JCI	2	0	2	0	-31.4 to -16.1	-23.75	-23.75	10.82	-1.19	44.30	50.90	47.60	47.60
10 Year	9/30/2003 - 10/1/2013	LCR	JCI	1	0	1	0	-8.9 to -8.9	-8.90	-8.90	N/A	-0.45	50.90	50.90	50.90	50.90
1 Year	9/30/2012 - 10/1/2013	LCR	JCI	2	0	2	0	-12.84 to -0.1	-6.47	-6.47	9.01	-0.32	44.30	50.90	47.60	47.60
20 Year	9/30/1993 - 10/1/2013	LCR	LCR	28	4	24	0	-84.05 to 4.4	-4.95	-11.20	18.74	-0.56	27.60	710.30	155.75	209.21
10 Year	9/30/2003 - 10/1/2013	LCR	LCR	36	16	20	0	-54.45 to 162.4	-0.90	1.92	31.15	0.10	24.90	1960.50	175.20	372.32
1 Year	9/30/2012 - 10/1/2013	LCR	LCR	66	25	41	0	-36.9 to 14.7	-0.06	-1.81	7.71	-0.09	2.60	1960.30	155.75	299.87
20 Year	9/30/1993 - 10/1/2013	LGB	CHV	1	1	0	0	17.1 to 17.1	17.10	17.10	N/A	0.86	672.90	672.90	672.90	672.90
10 Year	9/30/2003 - 10/1/2013	LGB	CHV	1	1	0	0	6.5 to 6.5	6.50	6.50	N/A	0.33	672.90	672.90	672.90	672.90
1 Year	9/30/2012 - 10/1/2013	LGB	CHV	1	1	0	0	0.5 to 0.5	0.50	0.50	N/A	0.03	672.90	672.90	672.90	672.90
20 Year	9/30/1993 - 10/1/2013	LGB	WEM	21	8	13	0	-121.1 to 10.8	-1.90	-8.25	28.73	-0.41	13.10	388.00	106.70	138.62
10 Year	9/30/2003 - 10/1/2013	LGB	WEM	20	6	14	0	-52 to 13.6	-1.39	-3.41	12.59	-0.17	14.80	631.30	104.85	167.41
1 Year	9/30/2012 - 10/1/2013	LGB	WEM	23	5	16	2	-6.7 to 7.1	-0.62	-0.51	2.72	-0.03	13.10	631.30	106.70	171.32
20 Year	9/30/1993 - 10/1/2013	LKH	LKH	1	1	0	0	29.8 to 29.8	29.80	29.80	N/A	1.49	25.80	25.80	25.80	25.80
10 Year	9/30/2003 - 10/1/2013	LKH	LKH	1	1	0	0	47.1 to 47.1	47.10	47.10	N/A	2.36	25.80	25.80	25.80	25.80
1 Year	9/30/2012 - 10/1/2013	LKH	LKH	1	1	0	0	0.8 to 0.8	0.80	0.80	N/A	0.04	25.80	25.80	25.80	25.80
20 Year	9/30/1993 - 10/1/2013	LSP	CGW	1	0	1	0	-37.4 to -37.4	-37.40	-37.40	N/A	-1.87	72.80	72.80	72.80	72.80
10 Year	9/30/2003 - 10/1/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2012 - 10/1/2013	LSP	CGW	1	0	1	0	-1.6 to -1.6	-1.60	-1.60	N/A	-0.08	72.80	72.80	72.80	72.80
20 Year	9/30/1993 - 10/1/2013	LSP	MAM	5	1	4	0	-30.51 to 6.2	-2.60	-6.32	14.04	-0.32	16.10	490.10	44.70	177.82
10 Year	9/30/2003 - 10/1/2013	LSP	MAM	7	4	3	0	-25.26 to 75.97	1.40	8.00	32.09	0.40	16.10	490.10	44.70	120.33
1 Year	9/30/2012 - 10/1/2013	LSP	MAM	10	3	7	0	-12.4 to 1	-0.60	-1.77	3.92	-0.09	16.10	490.10	44.20	121.43
20 Year	9/30/1993 - 10/1/2013	MEA	MEA	1	0	1	0	-30.83 to -30.83	-30.80	-30.83	N/A	-1.54	424.03	424.03	424.03	424.03
10 Year	9/30/2003 - 10/1/2013	MEA	MEA	1	0	1	0	-18.93 to -18.93	-18.93	-18.93	N/A	-0.95	424.03	424.03	424.03	424.03
1 Year	9/30/2012 - 10/1/2013	MEA	MEA	2	1	1	0	-0.33 to 0.1	-0.12	-0.11	0.30	-0.01	133.00	424.03	278.52	278.52
20 Year	9/30/1993 - 10/1/2013	MHV	MHV	2	1	1	0	-2 to 19.5	8.75	8.75	15.20	0.44	345.00	427.10	386.05	386.05
10 Year	9/30/2003 - 10/1/2013	MHV	MHV	2	1	1	0	-2 to 4.1	1.05	1.05	4.31	0.05	338.50	345.00	341.75	341.75
1 Year	9/30/2012 - 10/1/2013	MHV	MHV	2	0	2	0	-0.2 to -0.1	-0.15	-0.15	0.07	-0.01	338.50	427.10	382.80	382.80
20 Year	9/30/1993 - 10/1/2013	MMU	MMU	16	2	14	0	-251.1 to 39.5	-31.20	-41.61	60.85	-2.08	44.30	676.60	445.20	429.12
10 Year	9/30/2003 - 10/1/2013	MMU	MMU	14	2	12	0	-85.8 to 55.8	-14.81	-15.87	29.68	-0.79	44.30	676.60	445.20	424.44
1 Year	9/30/2012 - 10/1/2013	MMU	MMU	19	7	12	0	-22.5 to 63.2	-1.20	1.97	16.17	0.10	44.30	676.60	487.20	432.39
20 Year	9/30/1993 - 10/1/2013	MOR	MOR	3	1	2	0	-8.6 to 8.8	-0.70	-0.16	8.71	-0.01	14.30	503.80	81.30	199.80

Appendix 5. Statewide WL change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

WL Change	WL Change Time Period	Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
10 Year	9/30/2003 - 10/1/2013	MOR	MOR	3	1	2	0	-7.39 to 2.1	-0.80	-2.03	4.86	-0.10	14.30	503.80	81.30	199.80
1 Year	9/30/2012 - 10/1/2013	MOR	MOR	5	0	5	0	-7.6 to -0.3	-1.68	-3.57	3.53	-0.18	20.10	503.80	81.30	148.46
20 Year	9/30/1993 - 10/1/2013	PAR	PAR	2	1	1	0	-20.3 to 0.2	-10.50	-10.05	14.50	-0.50	131.60	498.90	315.25	315.25
10 Year	9/30/2003 - 10/1/2013	PAR	PAR	2	0	2	0	-22.6 to -17.3	-19.95	-19.95	3.75	-1.00	131.60	498.90	315.25	315.25
1 Year	9/30/2012 - 10/1/2013	PAR	PAR	1	0	1	0	-4.7 to -4.7	-4.70	-4.70	N/A	-0.24	498.90	498.90	498.90	498.90
20 Year	9/30/1993 - 10/1/2013	PHX	CRF	4	3	1	0	-55.3 to 124.6	32.62	33.63	73.68	1.68	108.80	339.66	205.15	214.69
10 Year	9/30/2003 - 10/1/2013	PHX	CRF	5	4	1	0	-14.15 to 87.5	41.05	34.14	40.97	1.71	28.70	339.66	161.20	177.49
1 Year	9/30/2012 - 10/1/2013	PHX	CRF	5	2	3	0	-10.6 to 8.39	-3.20	-0.74	7.96	-0.04	28.70	339.66	161.20	177.49
20 Year	9/30/1993 - 10/1/2013	PHX	ESR	57	40	17	0	-55.2 to 485	52.80	54.38	84.10	2.72	59.80	847.67	325.30	329.48
10 Year	9/30/2003 - 10/1/2013	PHX	ESR	113	86	27	0	-67 to 106.3	24.10	23.41	29.70	1.17	14.70	847.67	273.70	289.80
1 Year	9/30/2012 - 10/1/2013	PHX	ESR	108	61	47	0	-21.7 to 17.4	0.90	0.14	5.78	0.01	14.70	847.67	261.48	283.36
20 Year	9/30/1993 - 10/1/2013	PHX	FNH	6	3	3	0	-6.7 to 350.8	3.65	62.21	141.77	3.11	14.00	326.40	119.20	132.98
10 Year	9/30/2003 - 10/1/2013	PHX	FNH	6	5	1	0	-117.8 to 161.1	6.65	24.43	94.20	1.22	55.10	650.30	181.25	242.75
1 Year	9/30/2012 - 10/1/2013	PHX	FNH	9	0	9	0	-4.2 to -0.6	-1.45	-1.73	1.07	-0.09	14.00	340.20	62.20	139.06
20 Year	9/30/1993 - 10/1/2013	PHX	HAS	20	9	11	0	-13.85 to 138.85	-0.28	14.50	37.36	0.73	28.70	426.30	154.65	178.92
10 Year	9/30/2003 - 10/1/2013	PHX	HAS	45	23	22	0	-39.41 to 200.09	1.20	14.65	47.04	0.73	28.70	655.90	208.80	241.08
1 Year	9/30/2012 - 10/1/2013	PHX	HAS	47	25	20	2	-14 to 14.2	0.20	1.15	5.00	0.06	17.50	655.90	165.20	218.79
20 Year	9/30/1993 - 10/1/2013	PHX	LKP	4	3	1	0	-12.4 to 25.1	9.50	7.92	15.45	0.40	58.70	277.20	207.95	187.95
10 Year	9/30/2003 - 10/1/2013	PHX	LKP	7	4	3	0	-9.91 to 11.7	4.15	2.06	7.58	0.10	28.80	277.20	203.80	154.17
1 Year	9/30/2012 - 10/1/2013	PHX	LKP	7	4	3	0	-7.3 to 2.2	0.30	-1.58	3.50	-0.08	28.80	277.20	203.80	154.17
20 Year	9/30/1993 - 10/1/2013	PHX	WAT	14	5	9	0	-67.6 to 54.3	-3.85	-7.35	31.04	-0.37	250.10	576.60	369.75	370.70
10 Year	9/30/2003 - 10/1/2013	PHX	WAT	18	10	8	0	-54.41 to 23.89	2.35	0.93	16.86	0.05	250.10	447.60	364.35	361.53
1 Year	9/30/2012 - 10/1/2013	PHX	WAT	20	2	17	1	-8.7 to 2.8	-1.25	-1.94	2.97	-0.10	250.10	491.60	364.35	364.75
20 Year	9/30/1993 - 10/1/2013	PHX	WSR	62	25	36	1	-52.1 to 142.7	-1.50	5.76	36.14	0.29	15.70	597.60	174.05	214.04
10 Year	9/30/2003 - 10/1/2013	PHX	WSR	175	110	65	0	-262.9 to 225.2	2.19	8.55	35.78	0.43	15.00	613.50	134.00	179.00
1 Year	9/30/2012 - 10/1/2013	PHX	WSR	127	54	70	3	-88 to 60	-0.70	-1.22	14.95	-0.06	15.00	613.50	167.84	215.31
20 Year	9/30/1993 - 10/1/2013	PIN	ELO	78	50	28	0	-111.6 to 102.9	16.50	9.90	39.73	0.50	38.10	459.90	211.80	225.97
10 Year	9/30/2003 - 10/1/2013	PIN	ELO	67	37	30	0	-97.8 to 53.2	3.00	-1.54	26.08	-0.08	48.80	459.90	211.20	223.21
1 Year	9/30/2012 - 10/1/2013	PIN	ELO	73	49	24	0	-86 to 59.4	1.50	2.13	17.48	0.11	38.10	459.90	212.40	228.66
20 Year	9/30/1993 - 10/1/2013	PIN	MST	22	19	3	0	-49.7 to 144	65.40	58.10	49.77	2.91	64.90	664.80	362.10	336.31
10 Year	9/30/2003 - 10/1/2013	PIN	MST	19	14	5	0	-12.1 to 69.25	24.15	25.45	25.60	1.27	64.90	664.80	347.60	336.71
1 Year	9/30/2012 - 10/1/2013	PIN	MST	25	19	6	0	-3.4 to 8	2.10	2.00	2.48	0.10	64.90	664.80	347.60	329.77
20 Year	9/30/1993 - 10/1/2013	PIN	VEK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	PIN	VEK	8	3	5	0	-0.9 to 1	-0.30	-0.11	0.75	-0.01	213.20	526.10	336.40	348.29
1 Year	9/30/2012 - 10/1/2013	PIN	VEK	8	2	4	2	-0.4 to 0.3	-0.05	-0.07	0.23	0.00	213.20	526.10	336.40	348.29
20 Year	9/30/1993 - 10/1/2013	PKB	CIB	1	0	1	0	-0.7 to -0.7	-0.70	-0.70	N/A	-0.04	312.50	312.50	312.50	312.50
10 Year	9/30/2003 - 10/1/2013	PKB	CIB	1	1	0	0	18 to 18	18.00	18.00	N/A	0.90	312.50	312.50	312.50	312.50
1 Year	9/30/2012 - 10/1/2013	PKB	CIB	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/1993 - 10/1/2013	PKB	CRI	1	0	1	0	-1.5 to -1.5	-1.50	-1.50	N/A	-0.08	77.40	77.40	77.40	77.40
10 Year	9/30/2003 - 10/1/2013	PKB	CRI	1	0	1	0	-1.8 to -1.8	-1.80	-1.80	N/A	-0.09	77.40	77.40	77.40	77.40
1 Year	9/30/2012 - 10/1/2013	PKB	CRI	1	0	1	0	-0.3 to -0.3	-0.30	-0.30	N/A	-0.02	77.40	77.40	77.40	77.40
20 Year	9/30/1993 - 10/1/2013	PKB	LPC	2	0	2	0	-15.9 to -5.8	-10.85	-10.85	7.14	-0.54	65.70	139.30	102.50	102.50
10 Year	9/30/2003 - 10/1/2013	PKB	LPC	1	1	0	0	0.39 to 0.39	0.39	0.39	N/A	0.02	65.70	65.70	65.70	65.70
1 Year	9/30/2012 - 10/1/2013	PKB	LPC	1	0	1	0	-0.6 to -0.6	-0.60	-0.60	N/A	-0.03	65.70	65.70	65.70	65.70
20 Year	9/30/1993 - 10/1/2013	PRE	LIC	15	0	15	0	-38.8 to -12.6	-27.80	-26.97	8.22	-1.35	43.50	437.80	186.80	187.92
10 Year	9/30/2003 - 10/1/2013	PRE	LIC	53	4	49	0	-73.1 to 18.7	-12.90	-13.36	13.92	-0.67	22.10	507.60	225.90	232.44
1 Year	9/30/2012 - 10/1/2013	PRE	LIC	55	2	52	1	-14.8 to 48.8	-1.30	-1.25	7.50	-0.06	3.40	507.60	225.90	227.76

Appendix 5. Statewide WL change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

WL Change	WL Change Time Period	Basin/ AMA[1]	Sub-basin[1]	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]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
20 Year	9/30/1993 - 10/1/2013	PRE	UAG	10	3	7	0	-80.6 to 8.41	-8.52	-15.36	26.02	-0.77	43.79	339.40	215.25	204.01
10 Year	9/30/2003 - 10/1/2013	PRE	UAG	19	4	15	0	-74.5 to 82.4	-5.70	-2.91	31.21	-0.15	43.79	755.00	303.00	291.27
1 Year	9/30/2012 - 10/1/2013	PRE	UAG	20	8	12	0	-92.3 to 74.6	-0.55	-2.78	28.25	-0.14	43.79	755.00	141.50	235.12
20 Year	9/30/1993 - 10/1/2013	PSC	PSC	2	1	1	0	-1.7 to 0.1	-0.80	-0.80	1.27	-0.04	146.50	221.80	184.15	184.15
10 Year	9/30/2003 - 10/1/2013	PSC	PSC	2	2	0	0	0.7 to 1.3	1.00	1.00	0.42	0.05	146.50	221.80	184.15	184.15
1 Year	9/30/2012 - 10/1/2013	PSC	PSC	2	1	0	1	0 to 0.1	0.05	0.05	0.07	0.00	146.50	221.80	184.15	184.15
20 Year	9/30/1993 - 10/1/2013	RAN	RAN	16	1	15	0	-62.2 to 0.3	-9.60	-19.28	22.15	-0.96	85.20	438.10	264.30	261.66
10 Year	9/30/2003 - 10/1/2013	RAN	RAN	13	1	12	0	-31.4 to 0.19	-4.20	-8.44	10.47	-0.42	85.20	438.10	214.30	246.13
1 Year	9/30/2012 - 10/1/2013	RAN	RAN	14	2	12	0	-9 to 0.6	-0.70	-1.47	2.61	-0.07	85.20	438.10	228.10	252.41
20 Year	9/30/1993 - 10/1/2013	SAC	SAC	8	5	3	0	-6.3 to 16.3	0.85	2.09	6.64	0.10	59.00	1042.00	596.30	574.65
10 Year	9/30/2003 - 10/1/2013	SAC	SAC	10	6	4	0	-3.4 to 19.5	0.60	2.23	6.61	0.11	36.20	1042.00	504.65	481.44
1 Year	9/30/2012 - 10/1/2013	SAC	SAC	16	3	10	3	-3.1 to 2.7	-0.10	0.04	1.38	0.00	36.20	1066.88	411.10	448.75
20 Year	9/30/1993 - 10/1/2013	SFA	GSK	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	SAF	GSK	2	0	2	0	-32 to -5.4	-18.70	-18.70	18.81	-0.94	678.40	724.30	701.35	701.35
1 Year	9/30/2012 - 10/1/2013	SAF	GSK	2	0	1	1	-19.8 to 0	-9.90	-9.90	14.00	-0.50	678.40	724.30	701.35	701.35
20 Year	9/30/1993 - 10/1/2013	SAF	SAF	11	2	9	0	-33.1 to 12.8	-11.00	-9.54	12.63	-0.48	25.60	636.70	59.10	121.11
10 Year	9/30/2003 - 10/1/2013	SAF	SAF	9	0	9	0	-13.5 to -0.51	-6.00	-6.05	4.92	-0.30	25.60	636.70	75.80	137.26
1 Year	9/30/2012 - 10/1/2013	SAF	SAF	14	2	12	0	-14.3 to 2.25	-1.99	-3.02	4.68	-0.15	25.60	636.70	52.85	96.07
20 Year	9/30/1993 - 10/1/2013	SAF	SSI	19	6	13	0	-72.8 to 4.95	-9.80	-16.46	23.22	-0.82	47.70	542.00	131.80	164.42
10 Year	9/30/2003 - 10/1/2013	SAF	SSI	18	2	16	0	-45.01 to 1.3	-7.76	-11.85	14.01	-0.59	47.70	542.00	126.30	152.18
1 Year	9/30/2012 - 10/1/2013	SAF	SSI	21	1	19	1	-15 to 0.5	-1.20	-2.80	4.11	-0.14	47.70	586.80	131.80	179.99
20 Year	9/30/1993 - 10/1/2013	SBV	SBV	1	0	1	0	-2 to -2	-2.00	-2.00	N/A	-0.10	30.70	30.70	30.70	30.70
10 Year	9/30/2003 - 10/1/2013	SBV	SBV	1	0	1	0	-0.22 to -0.22	-0.22	-0.22	N/A	-0.01	30.70	30.70	30.70	30.70
1 Year	9/30/2012 - 10/1/2013	SBV	SBV	2	1	1	0	-0.6 to 0.6	0.00	0.00	0.85	0.00	30.70	204.40	117.55	117.55
20 Year	9/30/1993 - 10/1/2013	SCA	SCA	7	1	6	0	-46.8 to 12	-5.00	-12.54	19.62	-0.63	25.70	203.60	84.60	111.13
10 Year	9/30/2003 - 10/1/2013	SCA	SCA	32	10	22	0	-30.6 to 13.7	-1.69	-3.82	7.54	-0.19	14.60	316.60	42.00	84.71
1 Year	9/30/2012 - 10/1/2013	SCA	SCA	40	12	26	2	-8.25 to 6.6	-0.55	-0.54	2.85	-0.03	9.69	316.60	54.70	90.98
20 Year	9/30/1993 - 10/1/2013	SRB	SRL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	SRB	SRL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2012 - 10/1/2013	SRB	SRL	1	0	1	0	-0.74 to -0.74	-0.74	-0.74	N/A	-0.04	33.42	33.42	33.42	33.42
20 Year	9/30/1993 - 10/1/2013	SRB	USR	1	0	1	0	-5.8 to -5.8	-5.80	-5.80	N/A	-0.29	21.10	21.10	21.10	21.10
10 Year	9/30/2003 - 10/1/2013	SRB	USR	1	1	0	0	0.6 to 0.6	0.60	0.60	N/A	0.03	21.10	21.10	21.10	21.10
1 Year	9/30/2012 - 10/1/2013	SRB	USR	1	0	1	0	-1.1 to -1.1	-1.10	-1.10	N/A	-0.06	21.10	21.10	21.10	21.10
20 Year	9/30/1993 - 10/1/2013	SRF	SRF	3	1	2	0	-25.5 to 0.63	-2.20	-9.02	14.34	-0.45	6.27	214.20	30.70	83.72
10 Year	9/30/2003 - 10/1/2013	SRF	SRF	4	1	3	0	-11.6 to 1.3	-6.38	-5.76	6.52	-0.29	6.27	214.20	79.05	94.64
1 Year	9/30/2012 - 10/1/2013	SRF	SRF	5	2	3	0	-12.5 to 0.5	-1.90	-3.39	5.30	-0.17	6.27	214.20	124.40	100.59
20 Year	9/30/1993 - 10/1/2013	TIG	TIG	1	1	0	0	4.4 to 4.4	4.40	4.40	N/A	0.22	217.80	217.80	217.80	217.80
10 Year	9/30/2003 - 10/1/2013	TIG	TIG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1 Year	9/30/2012 - 10/1/2013	TIG	TIG	1	1	0	0	0.7 to 0.7	0.70	0.70	N/A	0.04	217.80	217.80	217.80	217.80
20 Year	9/30/1993 - 10/1/2013	TON	TON	9	1	8	0	-31.3 to 0.26	-7.30	-10.27	10.34	-0.51	5.00	122.90	39.20	51.41
10 Year	9/30/2003 - 10/1/2013	TON	TON	9	7	2	0	-13.4 to 59.3	2.87	8.13	20.26	0.41	6.20	122.90	39.20	50.88
1 Year	9/30/2012 - 10/1/2013	TON	TON	14	2	12	0	-19.7 to 1.42	-1.63	-3.42	5.23	-0.17	5.00	122.90	60.40	62.92
20 Year	9/30/1993 - 10/1/2013	TUC	AVR	44	35	9	0	-18.9 to 79.8	23.75	23.37	26.00	1.17	14.70	601.20	248.30	263.82
10 Year	9/30/2003 - 10/1/2013	TUC	AVR	37	30	7	0	-11.9 to 69.4	18.70	16.25	18.91	0.81	14.70	601.20	250.20	269.29
1 Year	9/30/2012 - 10/1/2013	TUC	AVR	44	5	19	20	-2.4 to 19.4	0.00	1.54	4.75	0.08	14.70	601.20	248.30	261.95
20 Year	9/30/1993 - 10/1/2013	TUC	USC	31	2	29	0	-72.6 to 56.7	-24.00	-23.56	25.40	-1.18	25.50	587.30	245.90	251.46
10 Year	9/30/2003 - 10/1/2013	TUC	USC	37	20	17	0	-72.4 to 32.1	1.10	-0.99	21.16	-0.05	25.50	587.30	167.70	215.65

Appendix 5. Statewide WL level change statistics in Arizona by Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013

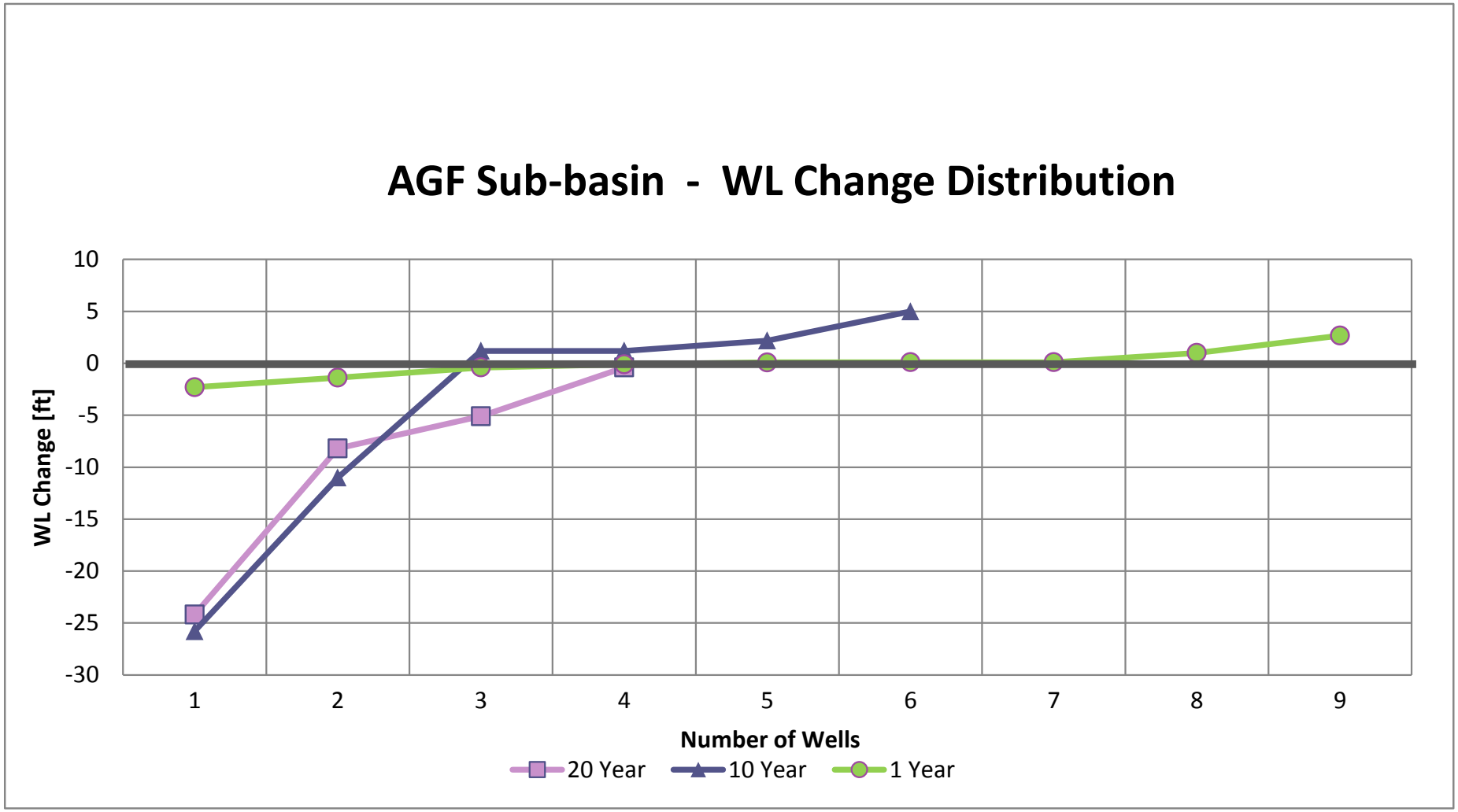
WL Change	WL Change Time Period	Basin/ AMA[1]	Sub-basin[1]	Count	Wells w/ Rising WLs	Wells w/ Declining WLs	Wells w/ No Change in WLs	Range of WL Change [ft]	Median WL Change [ft]	Mean WL Change [ft]	Standard Deviation of WL Change [ft]	Mean Rate of WL Change [ft/yr]	Minimum WL 2013 [ft bls]	Maximum WL 2013 [ft bls]	Median WL [ft bls]	Mean WL [ft bls]
1 Year	9/30/2012 - 10/1/2013	TUC	USC	51	11	38	2	-20.8 to 6.7	-2.10	-3.28	5.48	-0.16	9.59	587.30	167.70	201.09
20 Year	9/30/1993 - 10/1/2013	UHA	UHA	4	2	2	0	-2 to 7.2	1.60	2.10	4.43	0.11	8.90	814.60	413.10	412.43
10 Year	9/30/2003 - 10/1/2013	UHA	UHA	4	2	2	0	-2.9 to 9.3	0.79	1.99	5.37	0.10	8.90	814.60	413.10	412.43
1 Year	9/30/2012 - 10/1/2013	UHA	UHA	4	3	1	0	-1.1 to 7.3	0.60	1.85	3.72	0.09	8.90	814.60	413.10	412.43
20 Year	9/30/1993 - 10/1/2013	USP	SEV	21	2	19	0	-20.6 to 26.6	-6.50	-6.55	10.84	-0.33	15.80	563.50	140.10	195.60
10 Year	9/30/2003 - 10/1/2013	USP	SEV	38	6	32	0	-26.25 to 27.8	-4.07	-3.00	8.86	-0.15	5.30	563.50	197.70	224.94
1 Year	9/30/2012 - 10/1/2013	USP	SEV	44	12	31	1	-6.1 to 9.64	-0.30	-0.17	2.50	-0.01	4.86	563.50	186.85	214.00
20 Year	9/30/1993 - 10/1/2013	VRB	BIC	7	4	3	0	-5.4 to 21.5	4.70	5.24	8.83	0.26	23.00	190.80	67.10	99.47
10 Year	9/30/2003 - 10/1/2013	VRB	BIC	23	9	14	0	-67.9 to 13	-1.50	-3.19	15.37	-0.16	20.80	996.70	131.40	186.93
1 Year	9/30/2012 - 10/1/2013	VRB	BIC	60	22	36	2	-7.4 to 4.99	-0.40	-0.49	1.77	-0.02	3.60	463.70	133.05	142.54
20 Year	9/30/1993 - 10/1/2013	VRB	LVR	8	0	8	0	-154.5 to -19.9	-63.45	-73.49	48.30	-3.67	91.60	351.10	204.40	220.86
10 Year	9/30/2003 - 10/1/2013	VRB	LVR	10	8	2	0	-127.8 to 42.1	12.84	-0.02	49.17	0.00	84.60	365.10	197.05	198.47
1 Year	9/30/2012 - 10/1/2013	VRB	LVR	14	7	7	0	-16.9 to 6.03	-0.03	-1.53	6.18	-0.08	19.05	365.10	148.24	166.03
20 Year	9/30/1993 - 10/1/2013	VRB	VER	10	1	9	0	-64.7 to 14.3	-9.55	-16.69	23.82	-0.83	27.75	457.10	142.28	189.79
10 Year	9/30/2003 - 10/1/2013	VRB	VER	41	14	27	0	-37.9 to 44.4	-1.75	-0.65	11.14	-0.03	4.17	816.00	104.00	215.40
1 Year	9/30/2012 - 10/1/2013	VRB	VER	50	22	28	0	-14.6 to 39.1	-0.44	0.28	7.80	0.01	4.17	816.00	106.28	236.39
20 Year	9/30/1993 - 10/1/2013	VRG	VRG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	VRG	VRG	1	1	0	0	0.59 to 0.59	0.59	0.59	N/A	0.03	266.78	266.78	266.78	266.78
1 Year	9/30/2012 - 10/1/2013	VRG	VRG	1	1	0	0	0.13 to 0.13	0.13	0.13	N/A	0.01	266.78	266.78	266.78	266.78
20 Year	9/30/1993 - 10/1/2013	WIL	WIL	24	1	23	0	-143.2 to 8.8	-56.10	-61.05	42.02	-3.05	36.30	428.80	281.10	262.35
10 Year	9/30/2003 - 10/1/2013	WIL	WIL	21	0	21	0	-84.01 to -3.3	-27.01	-33.26	23.48	-1.66	36.30	419.60	278.00	259.78
1 Year	9/30/2012 - 10/1/2013	WIL	WIL	36	2	34	0	-4.3 to 13	-5.70	-6.24	6.08	-0.31	11.11	428.80	277.40	257.02
20 Year	9/30/1993 - 10/1/2013	WMD	WMD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10 Year	9/30/2003 - 10/1/2013	WMD	WMD	1	0	1	0	-43.9 to -43.9	-43.90	-43.90	N/A	-2.20	380.50	380.50	380.50	380.50
1 Year	9/30/2012 - 10/1/2013	WMD	WMD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20 Year	9/30/1993 - 10/1/2013	YUM	YUM	4	0	4	0	-14.6 to -1.9	-10.65	-9.45	5.82	-0.47	19.10	120.30	47.05	58.38
10 Year	9/30/2003 - 10/1/2013	YUM	YUM	6	0	6	0	-20.3 to -0.5	-7.70	-8.69	7.58	-0.43	19.10	210.30	25.63	46.81
1 Year	9/30/2012 - 10/1/2013	YUM	YUM	8	1	7	0	-4.3 to 13	-0.75	0.41	5.26	0.02	19.10	168.00	47.58	68.28

1. Refer to Appendix 1. Groundwater Basins, AMAs and Sub-basins in Arizona

Appendix 6

Distribution Graphs of Groundwater Level Change per Well by AMA/Basin and Subbasin– Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013.

Appendix 6. Distribution graphs of groundwater level change per well by AMA/Basin and Sub-basin – Water Years 1993 to 2013, 2003 – 2013, 2012 to 2013.



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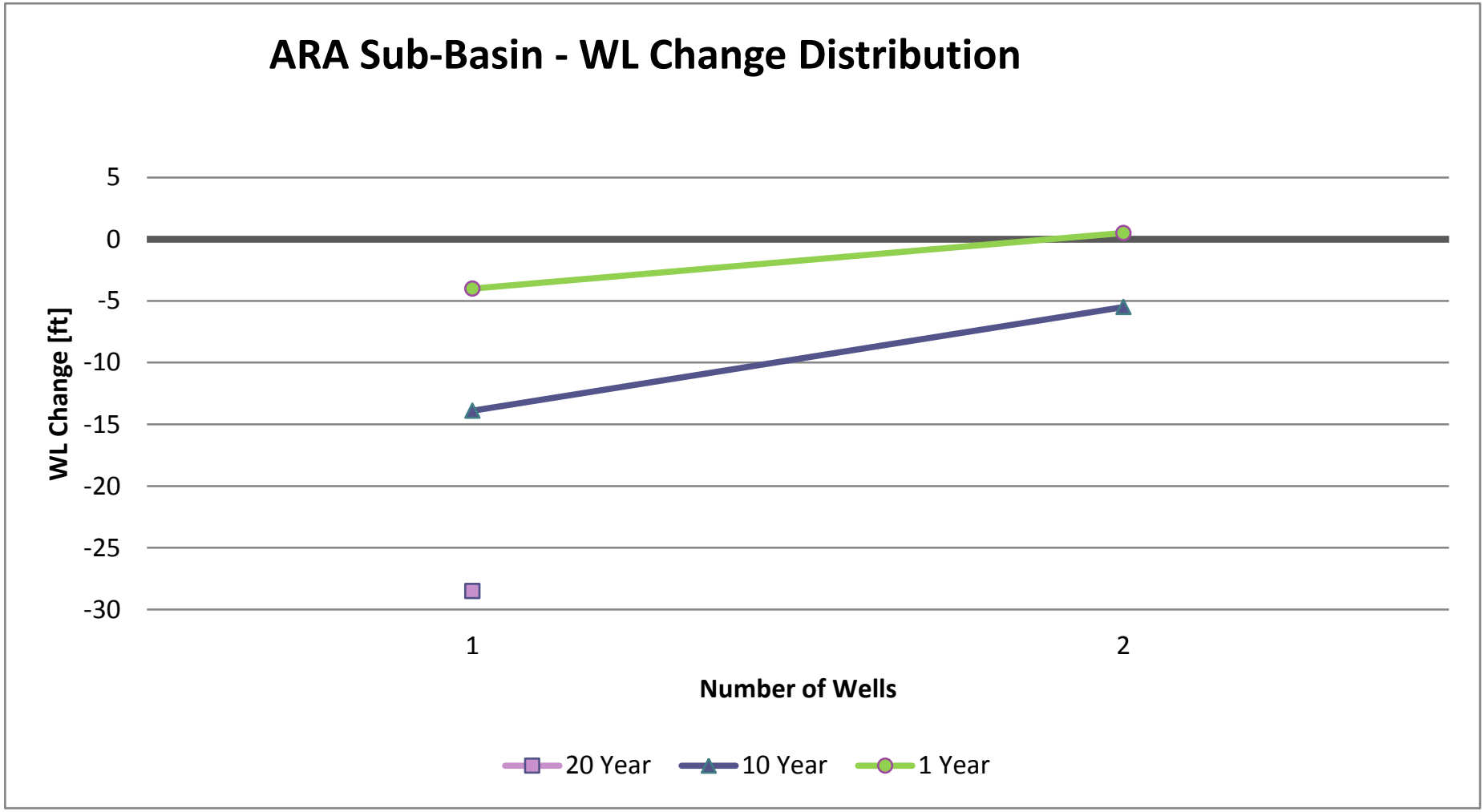

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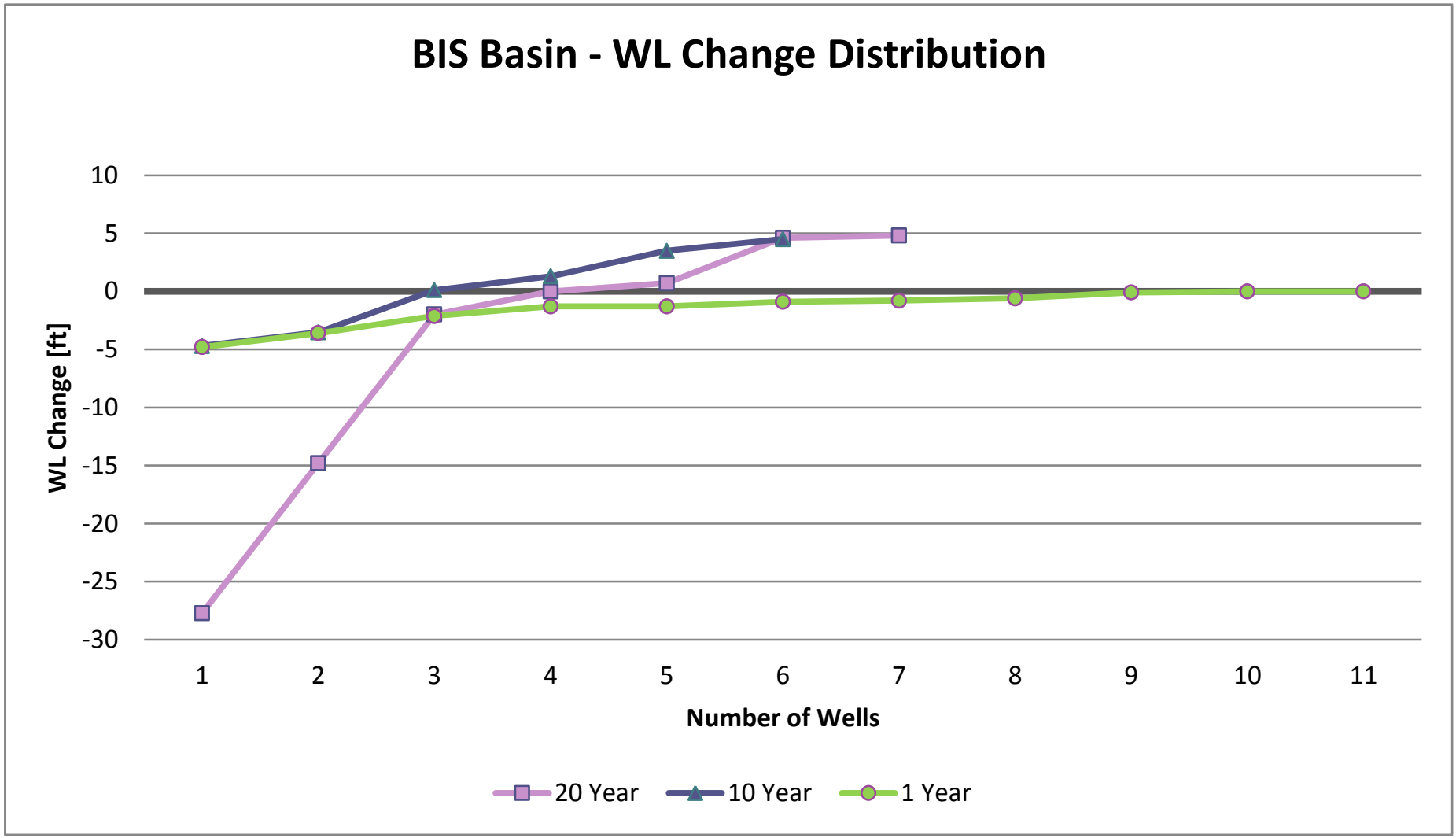

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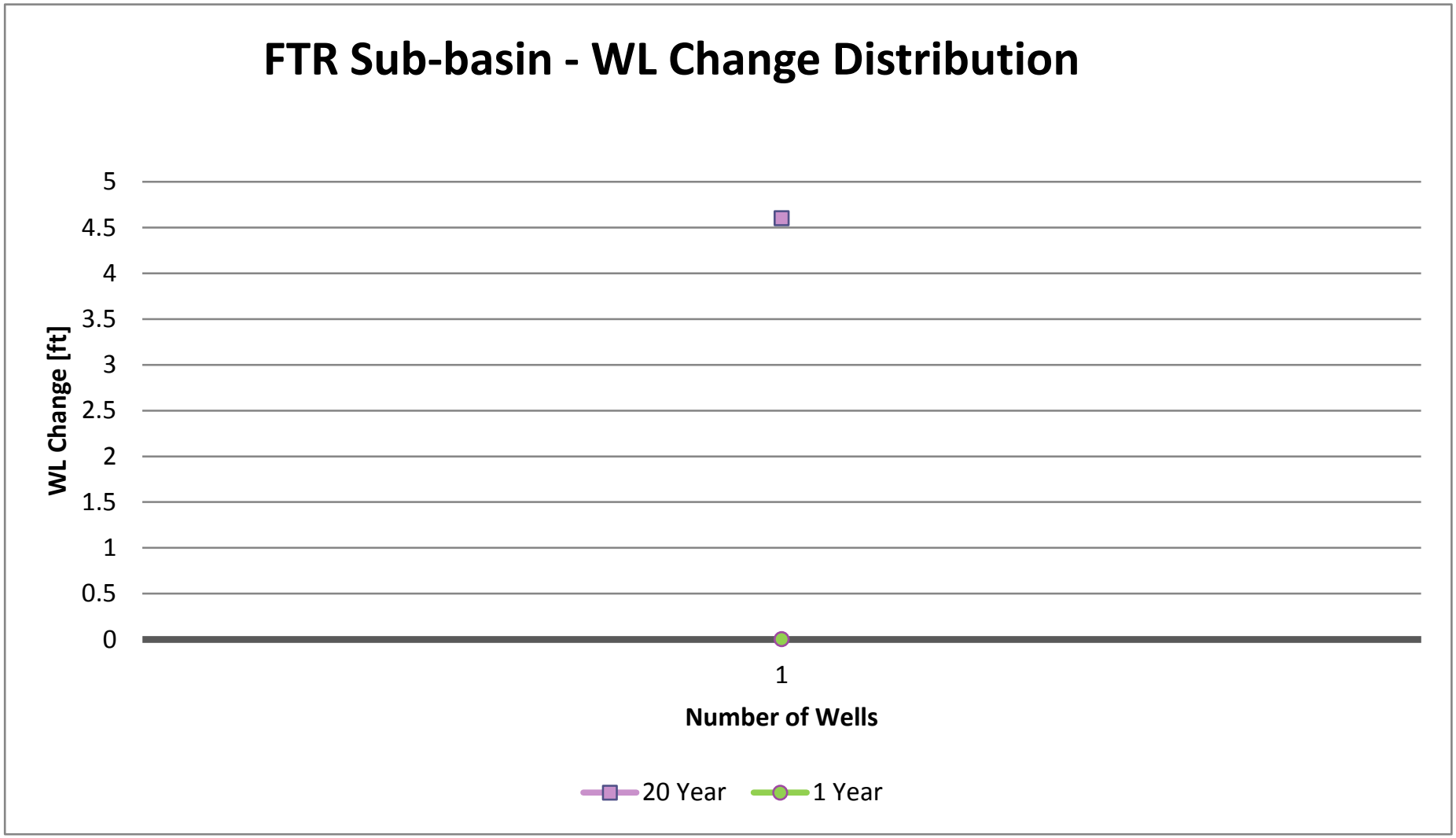

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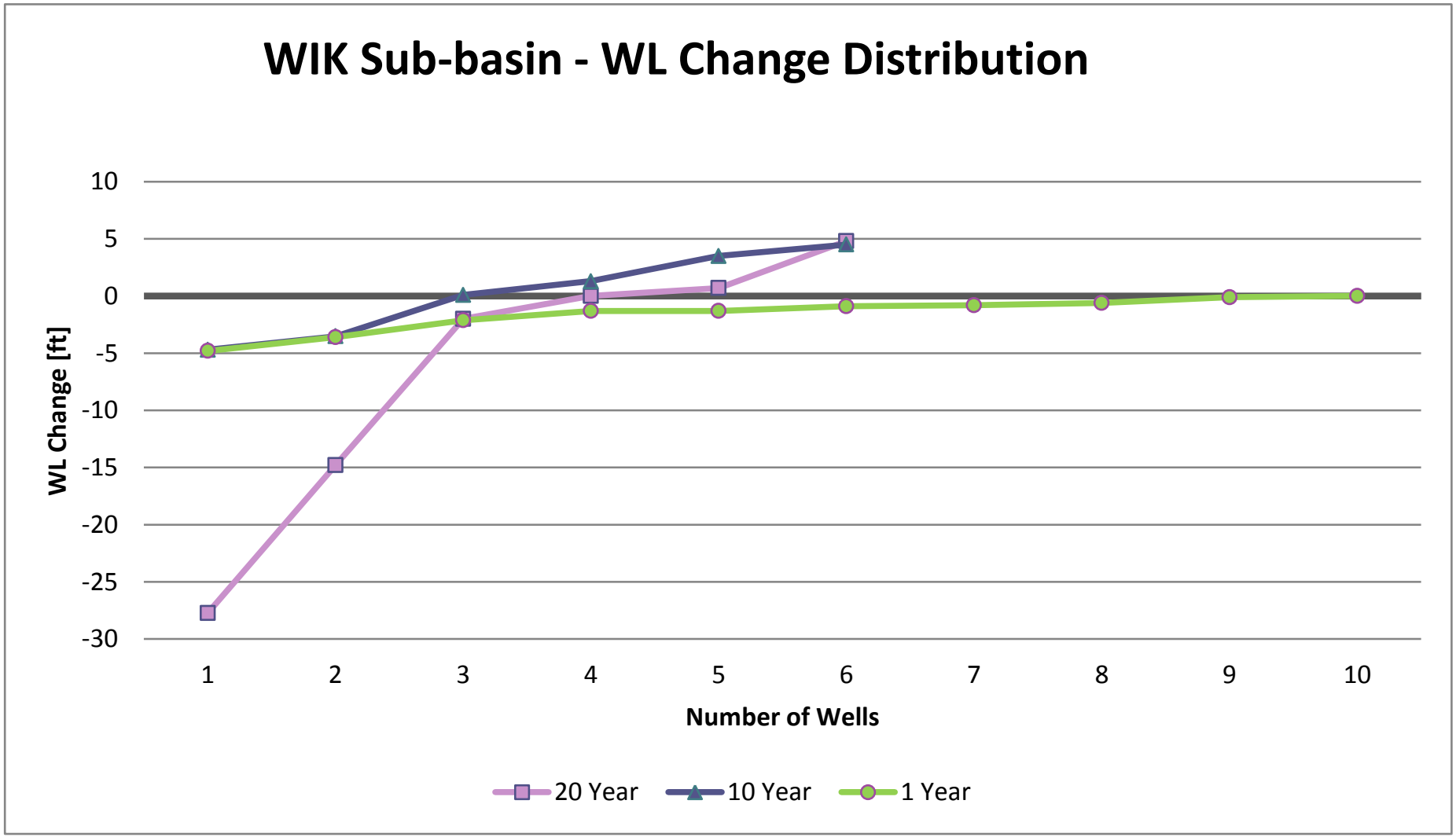

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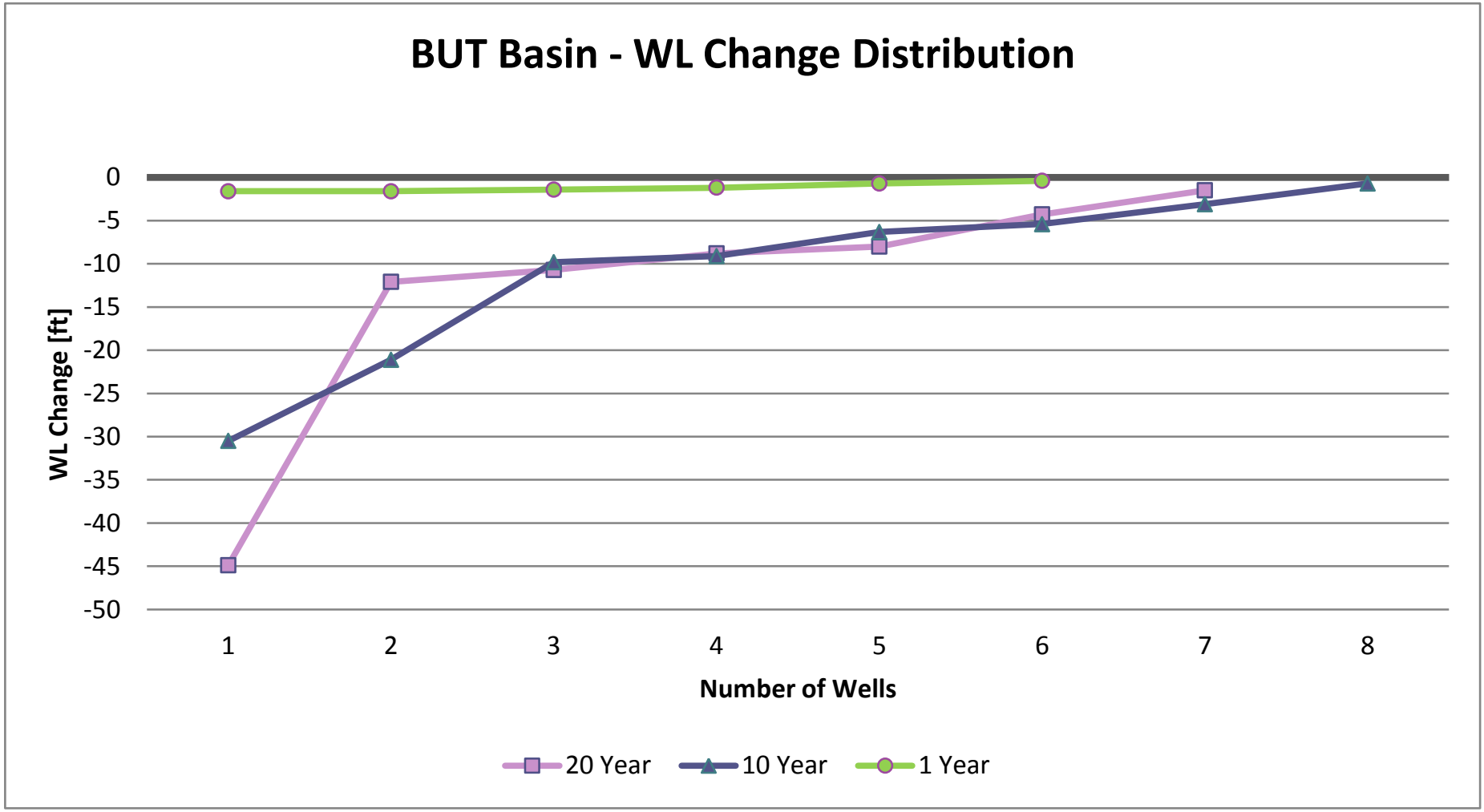

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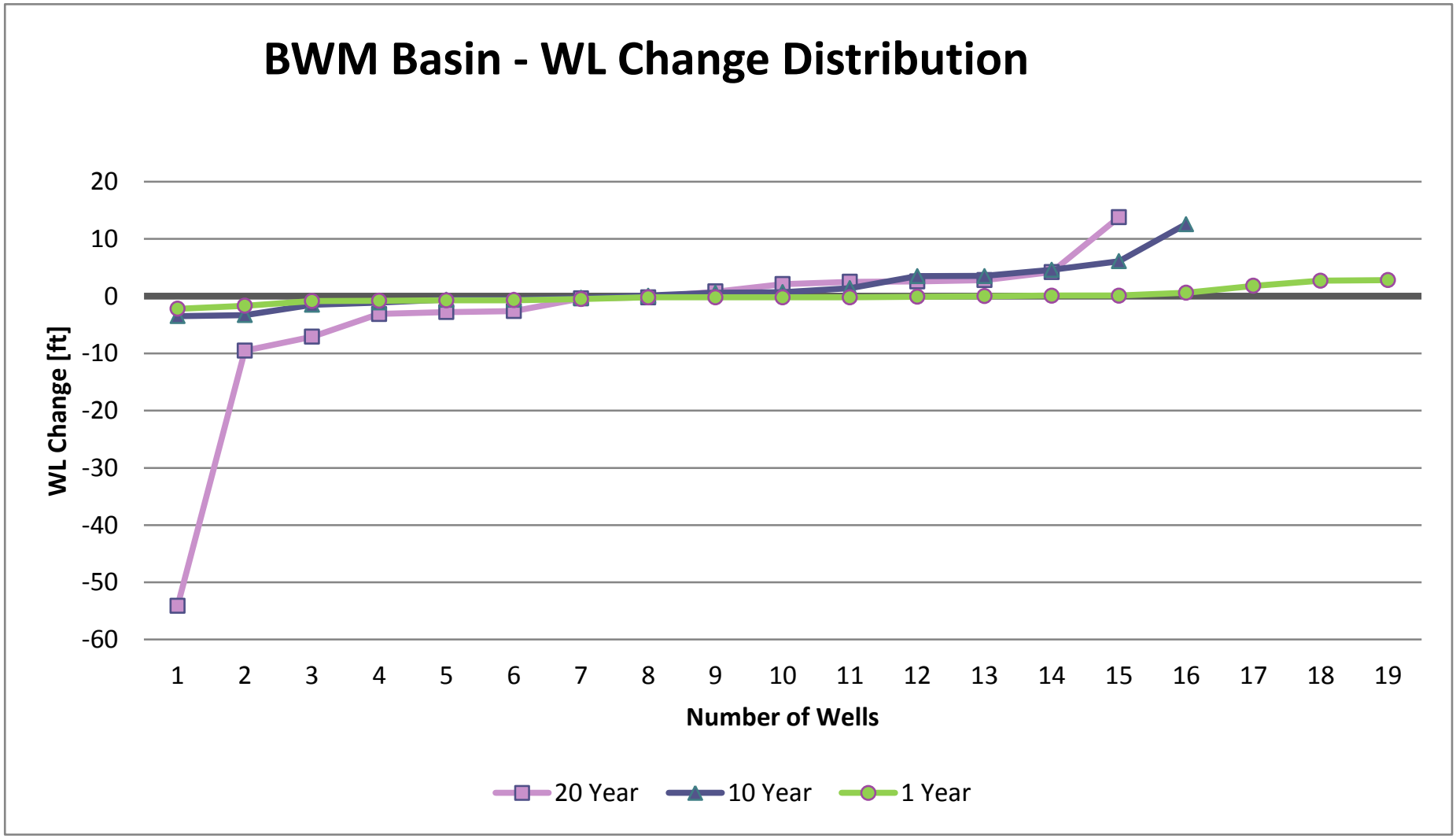

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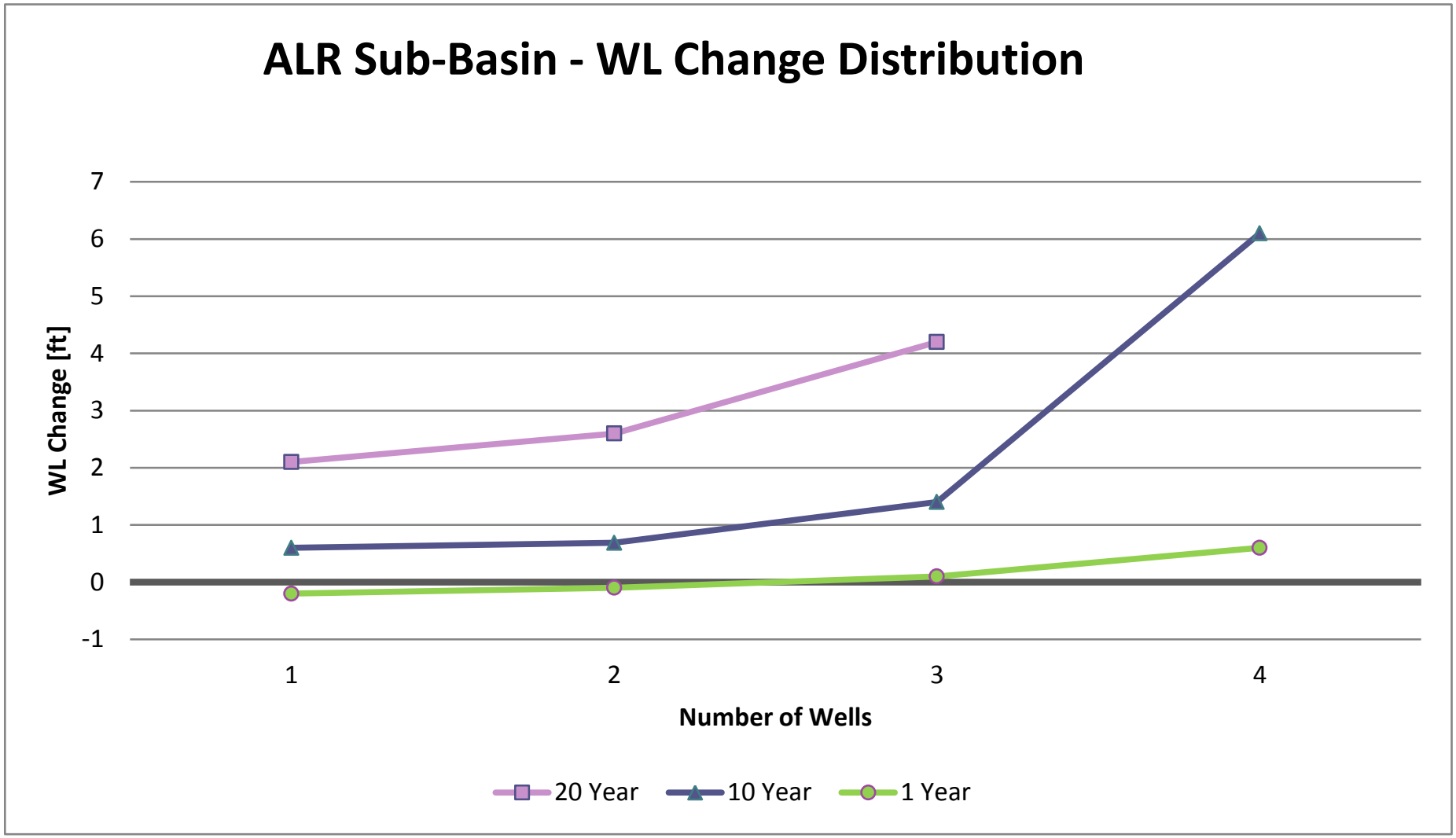

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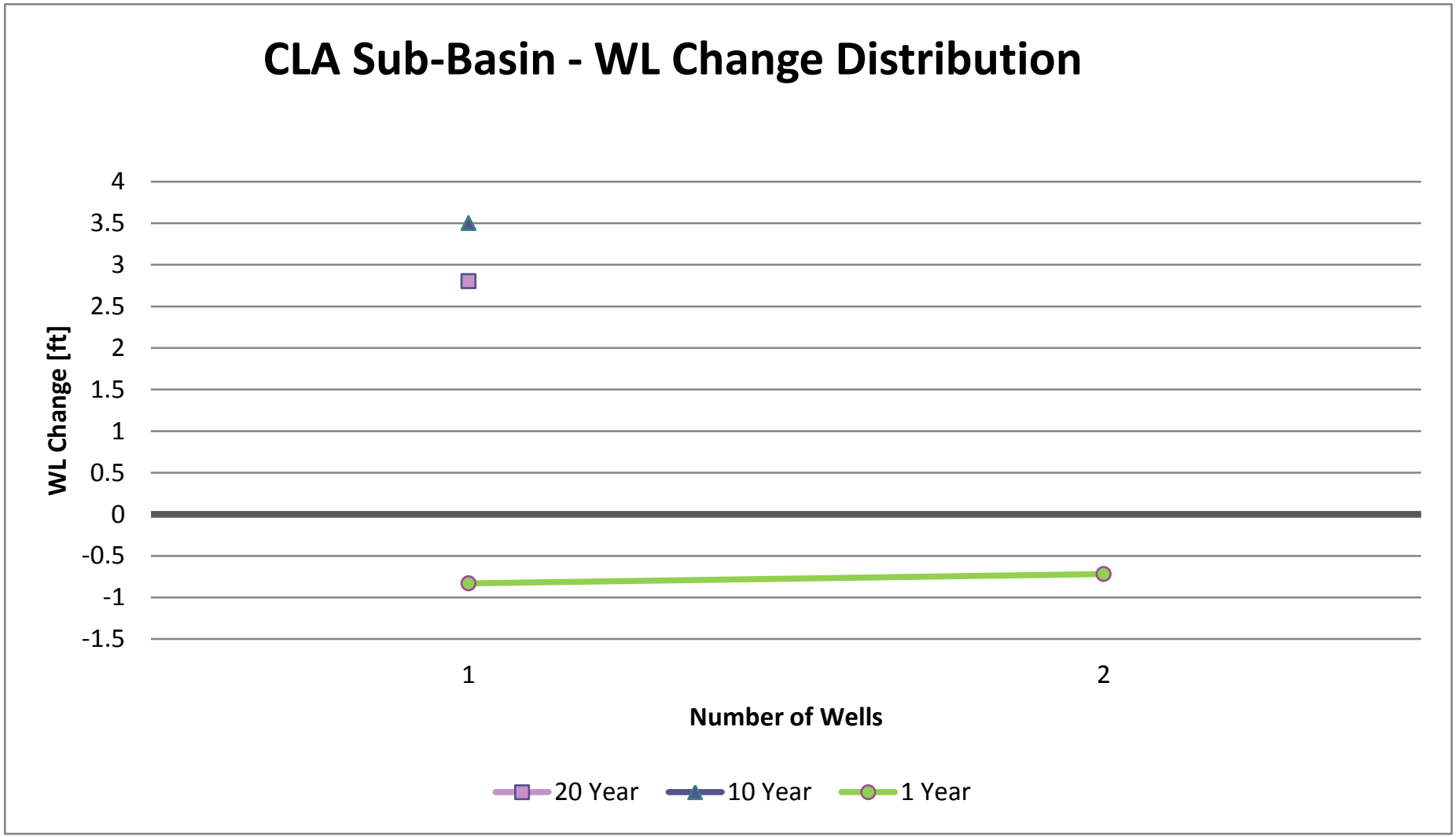

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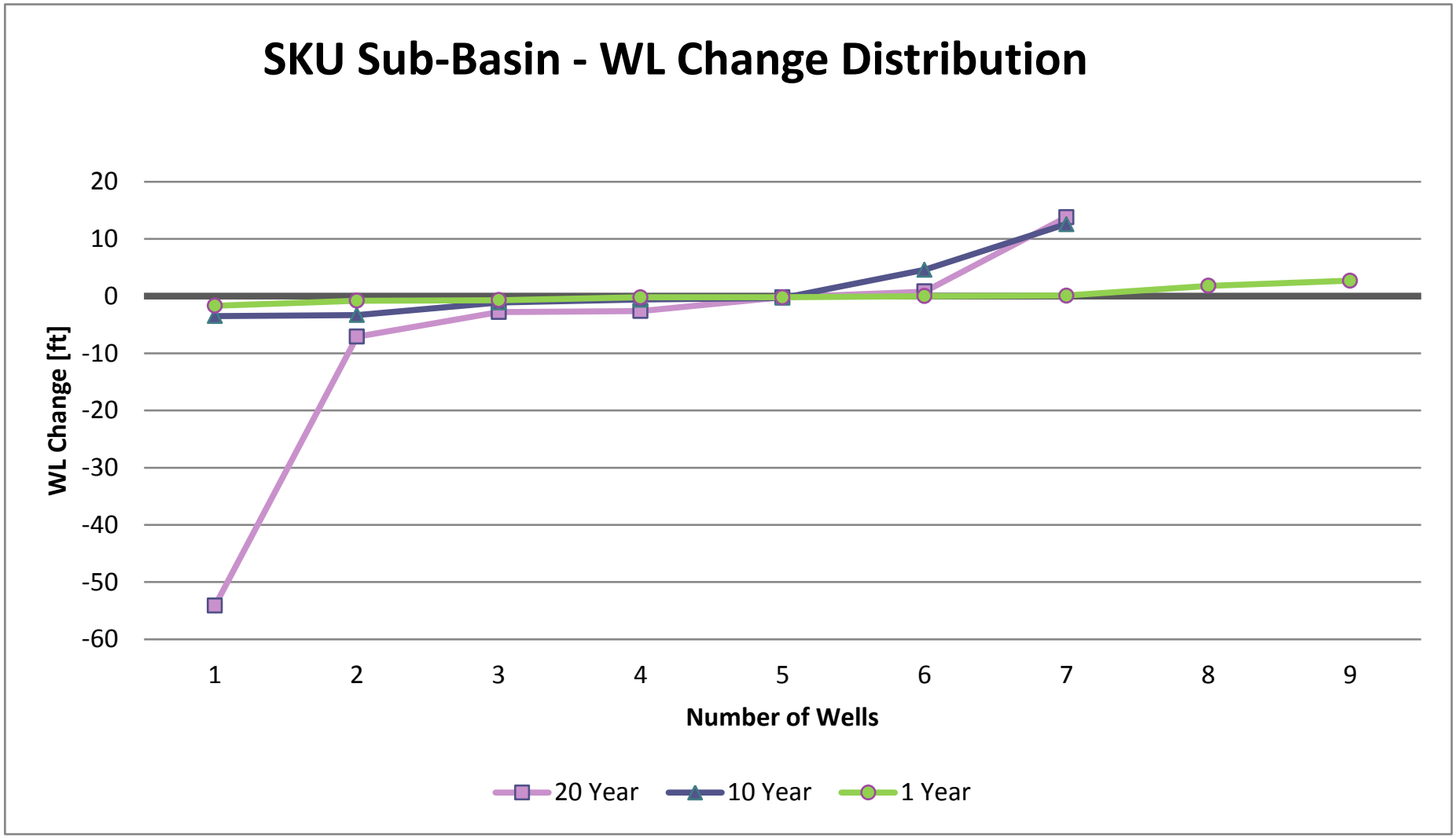

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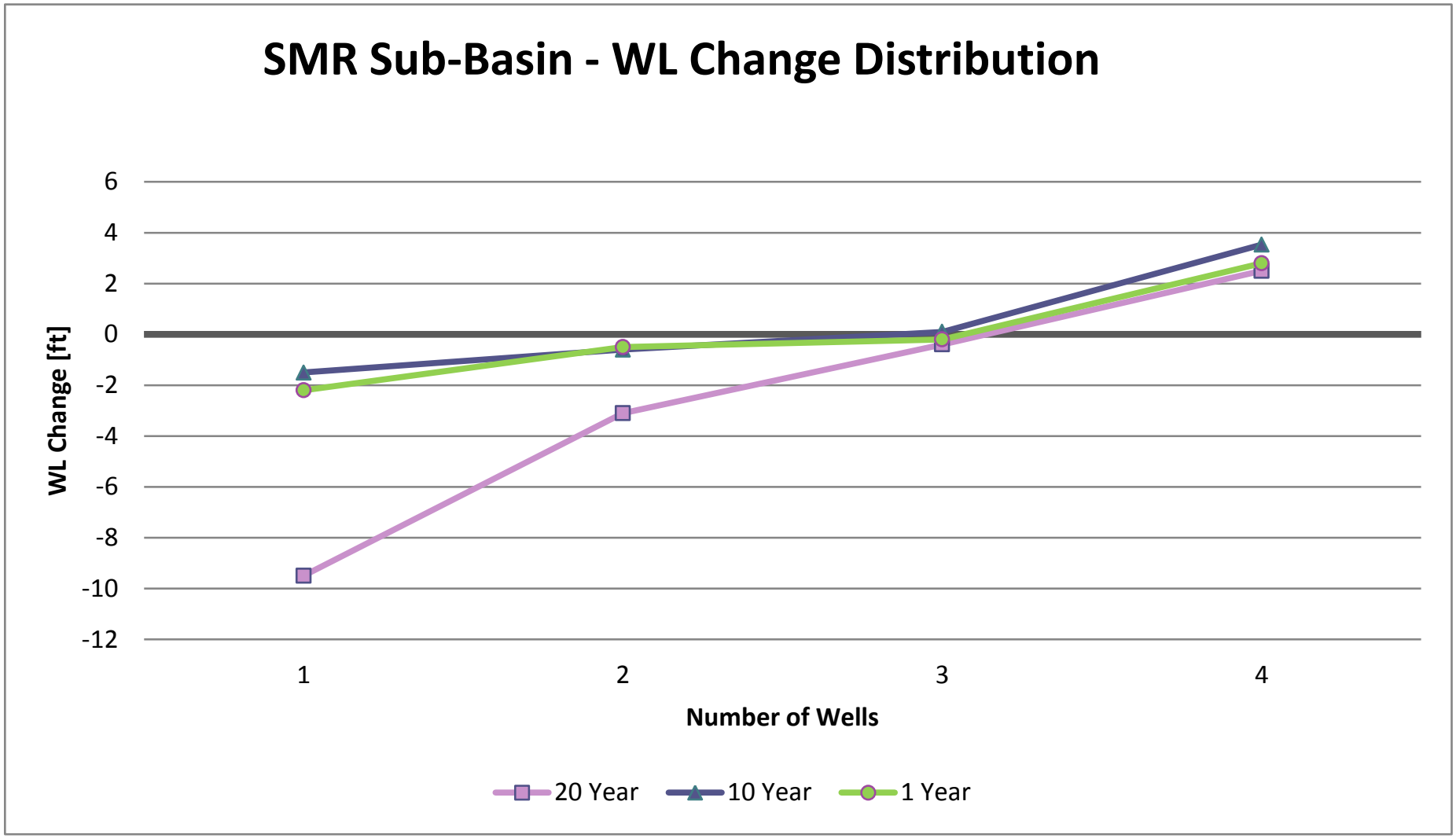

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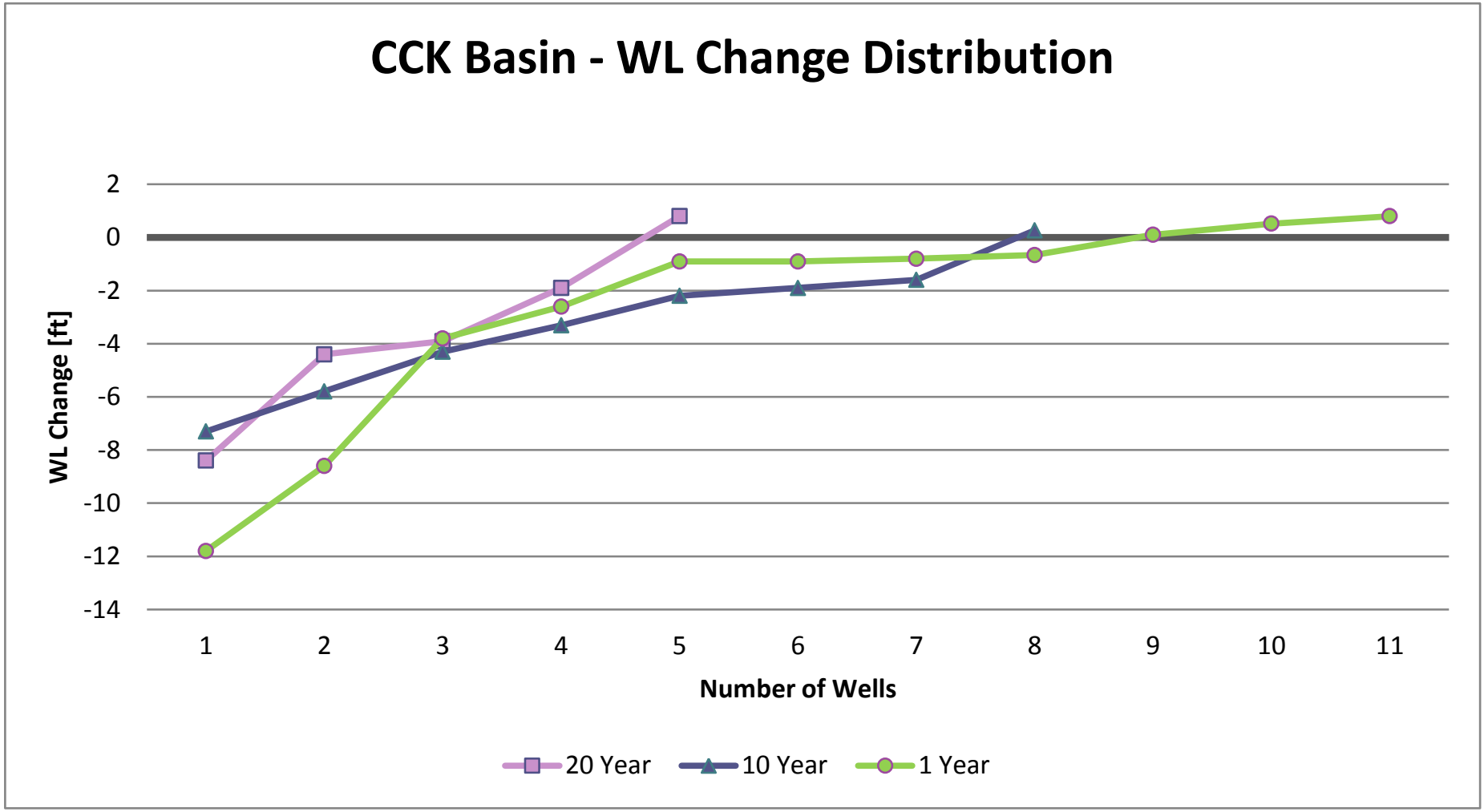

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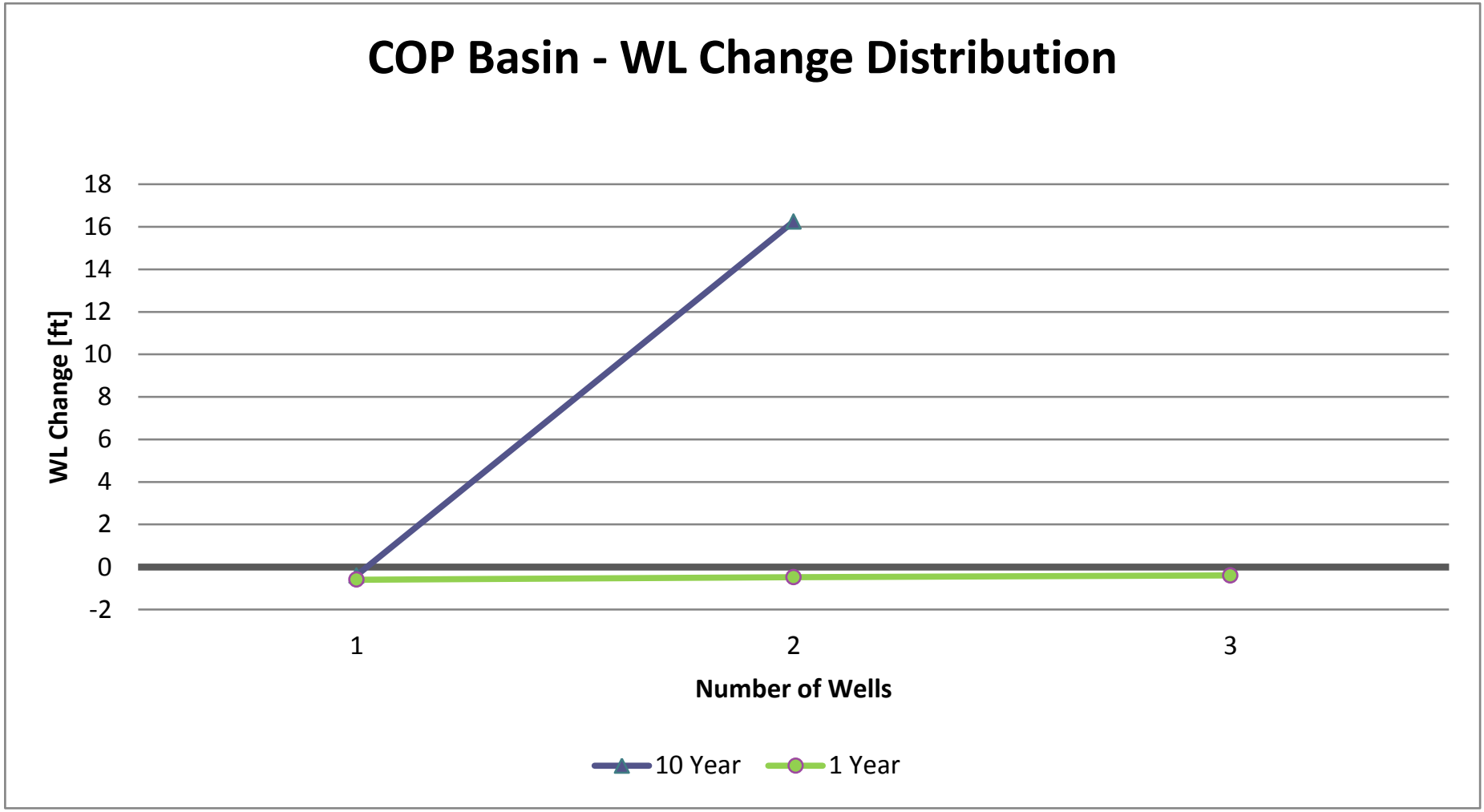

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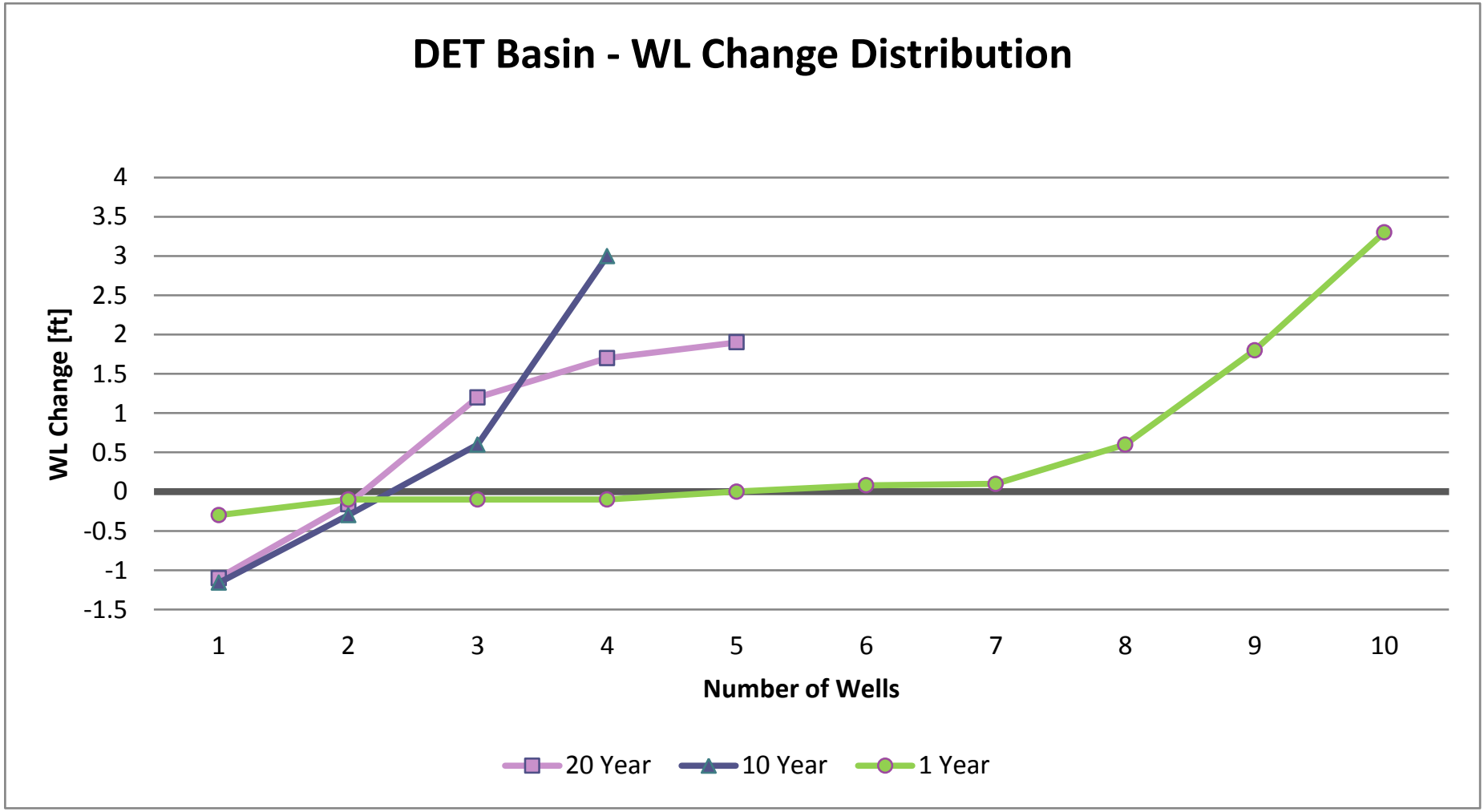

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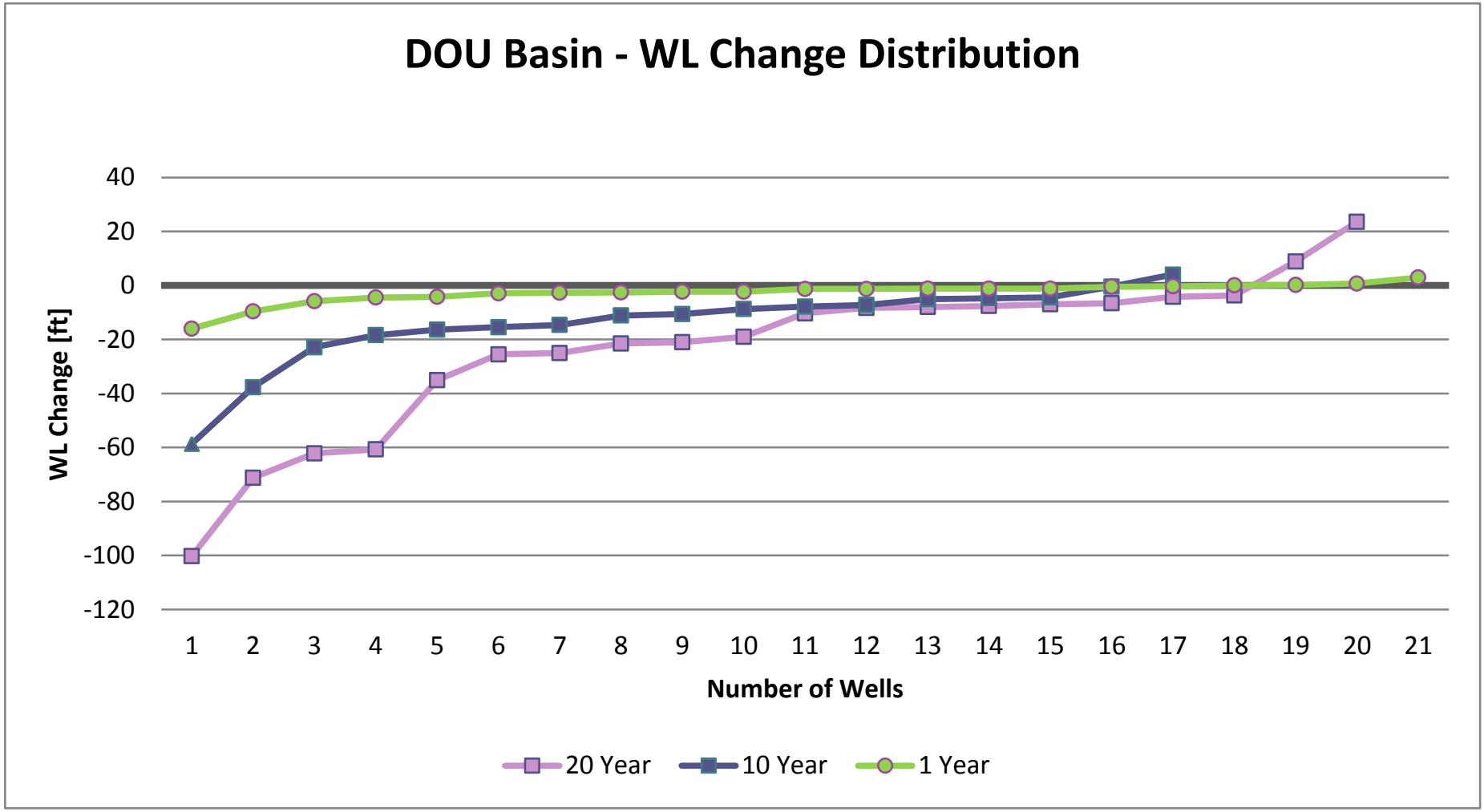

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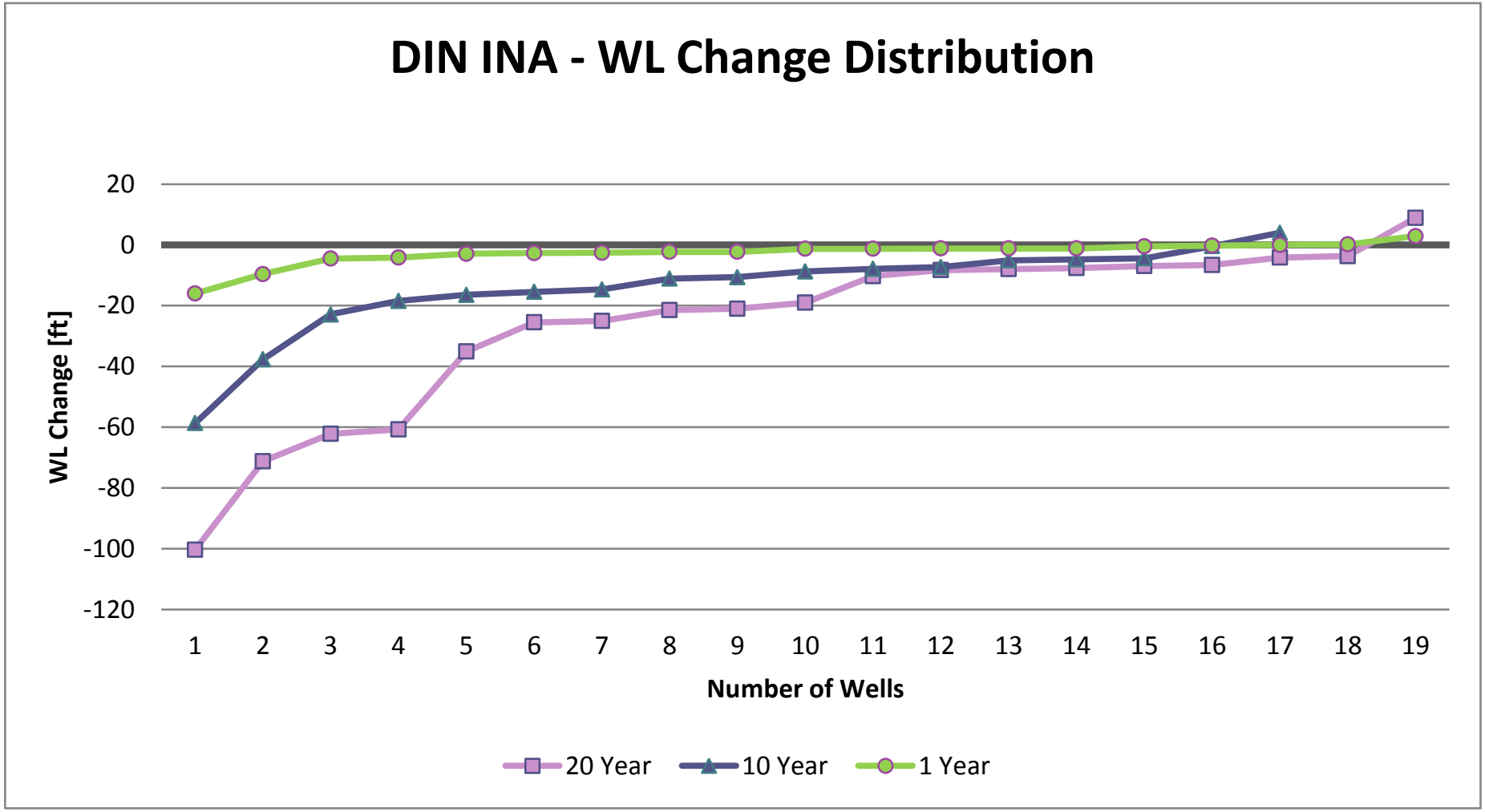

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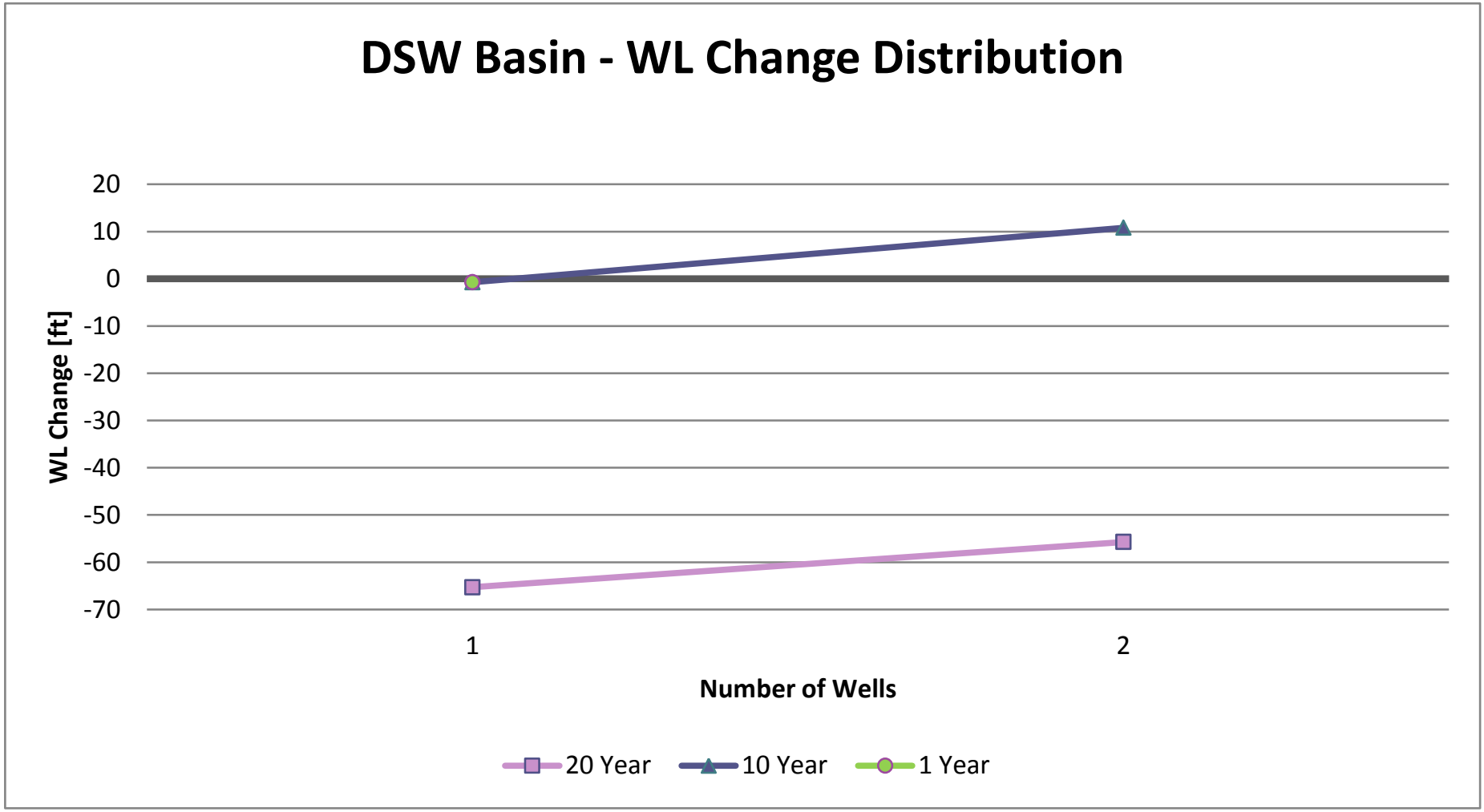

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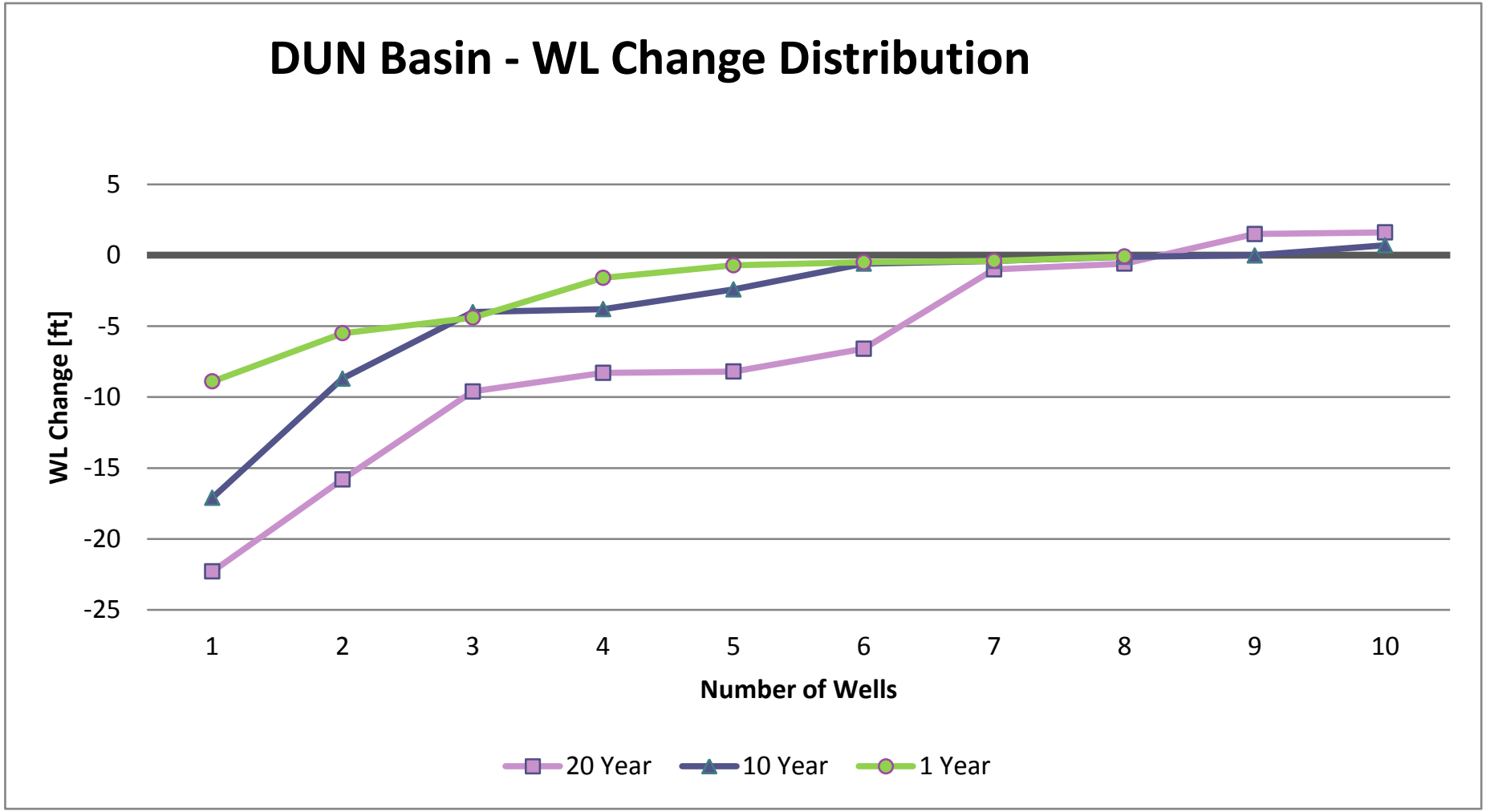

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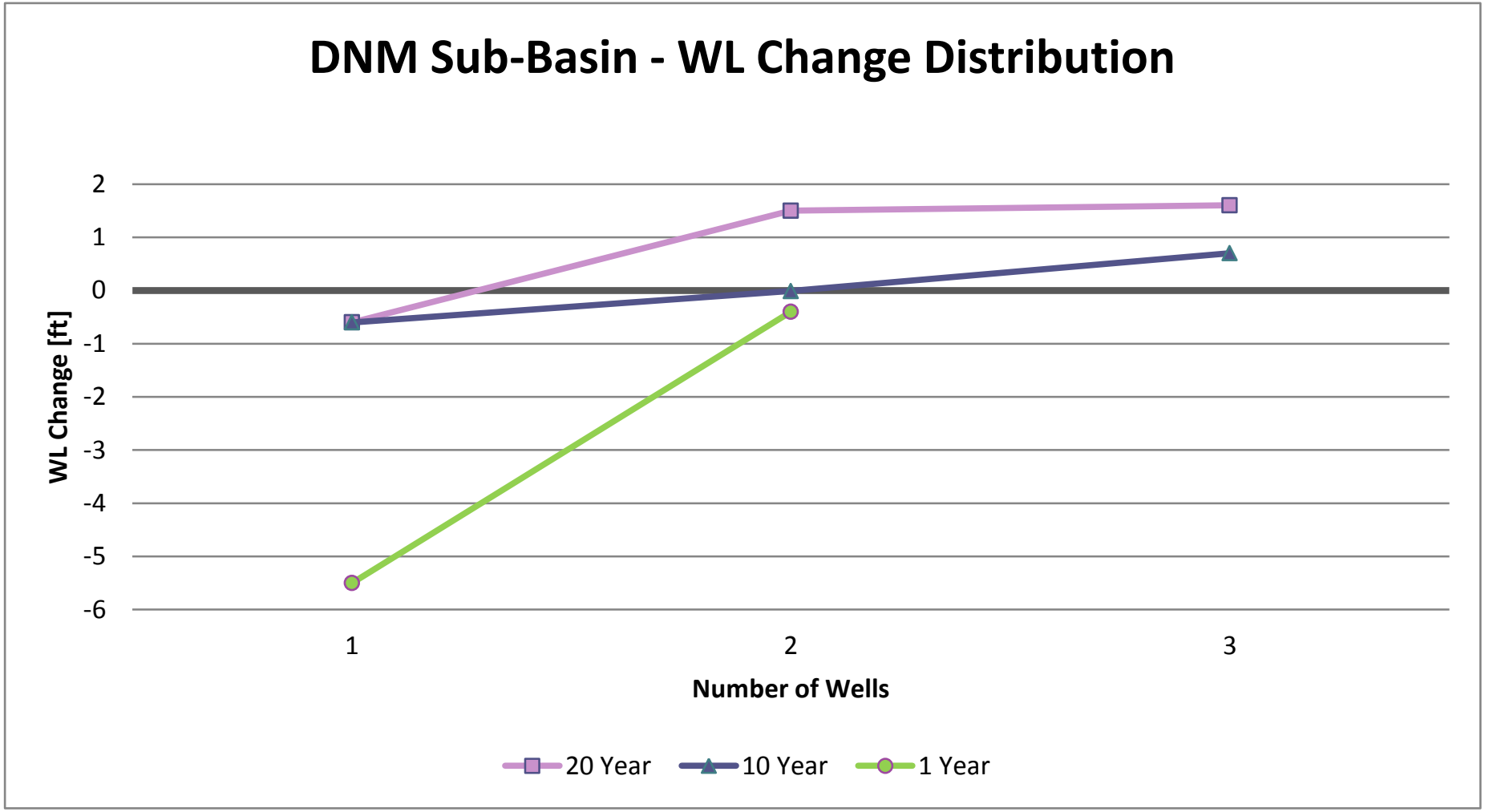

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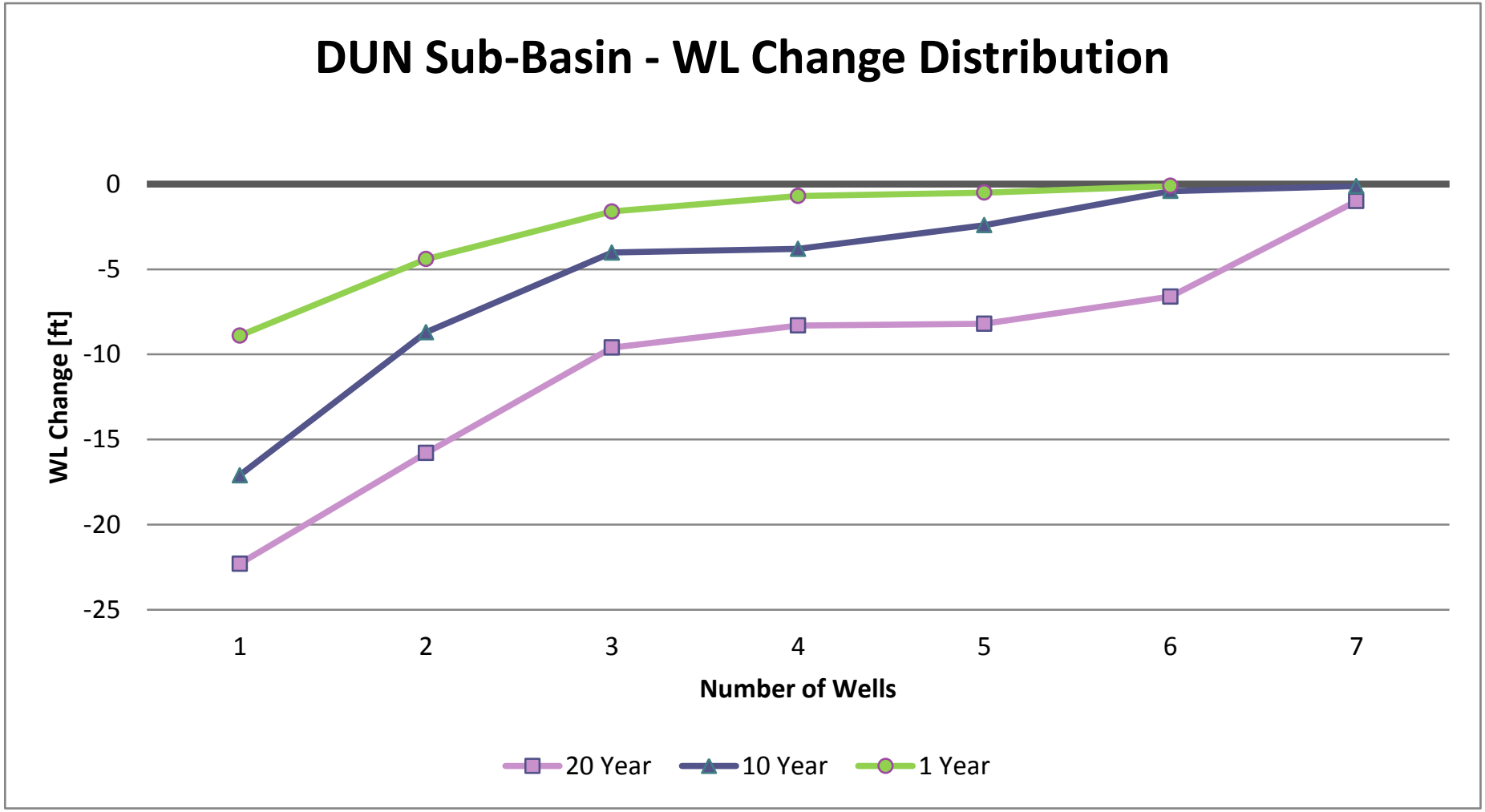

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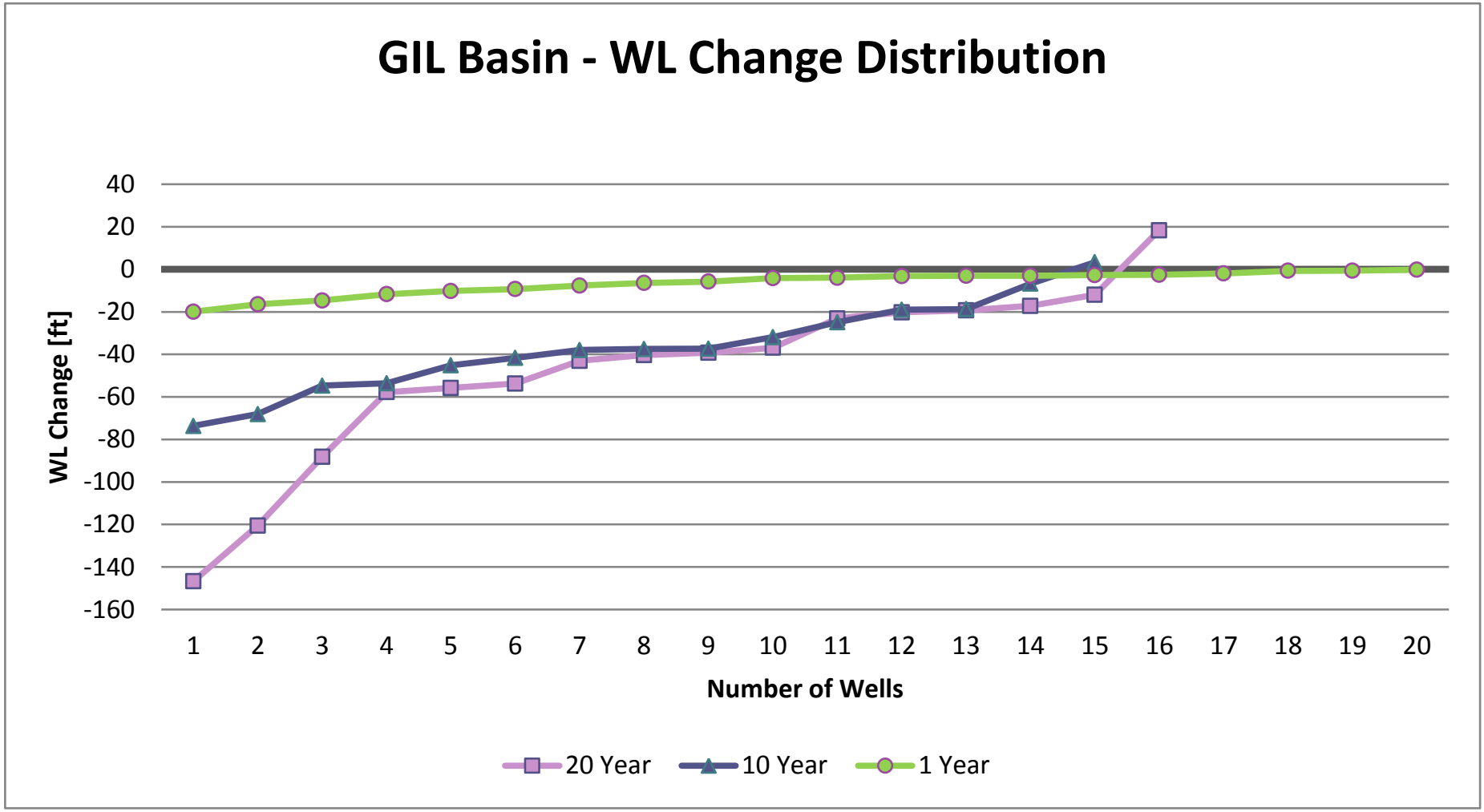

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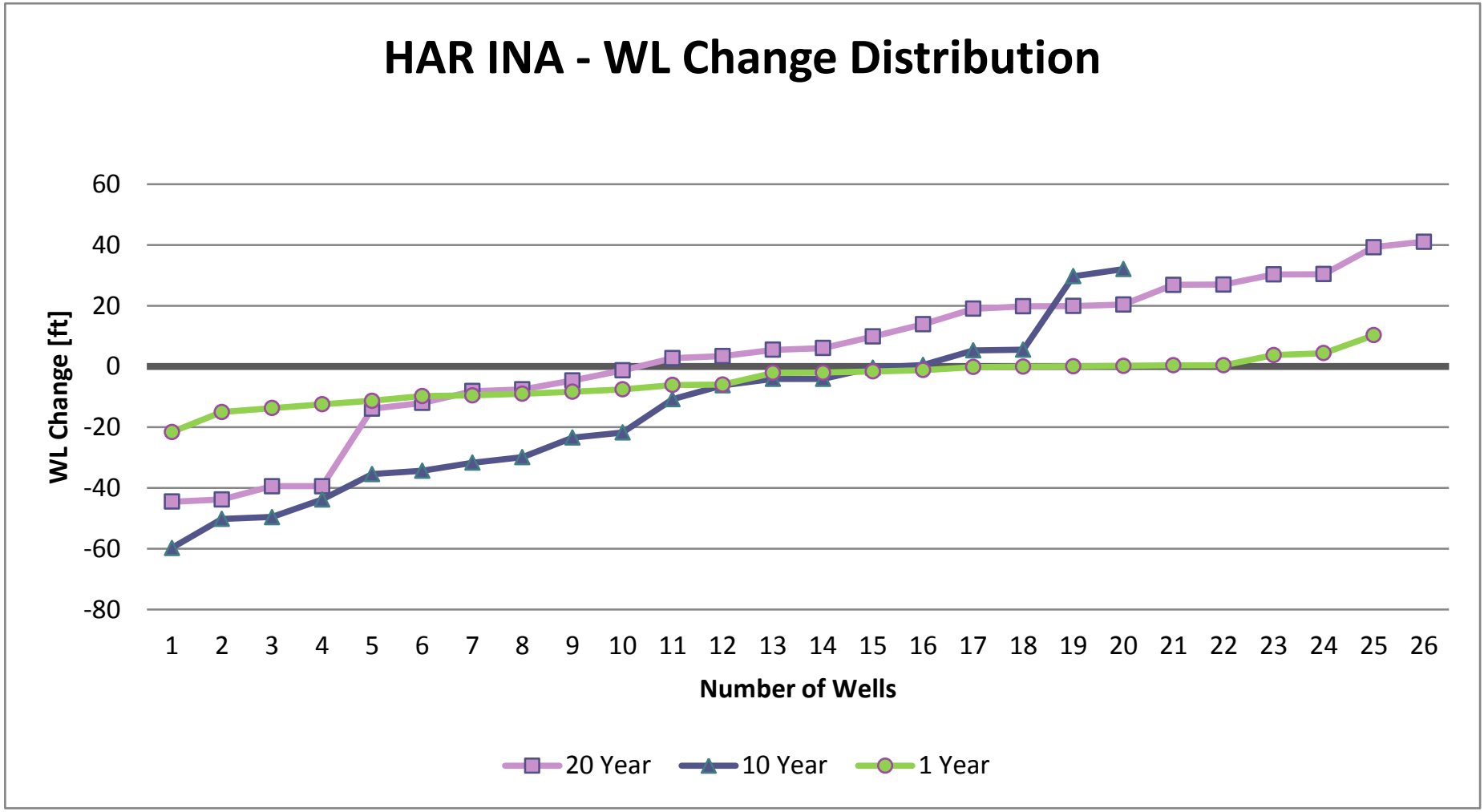

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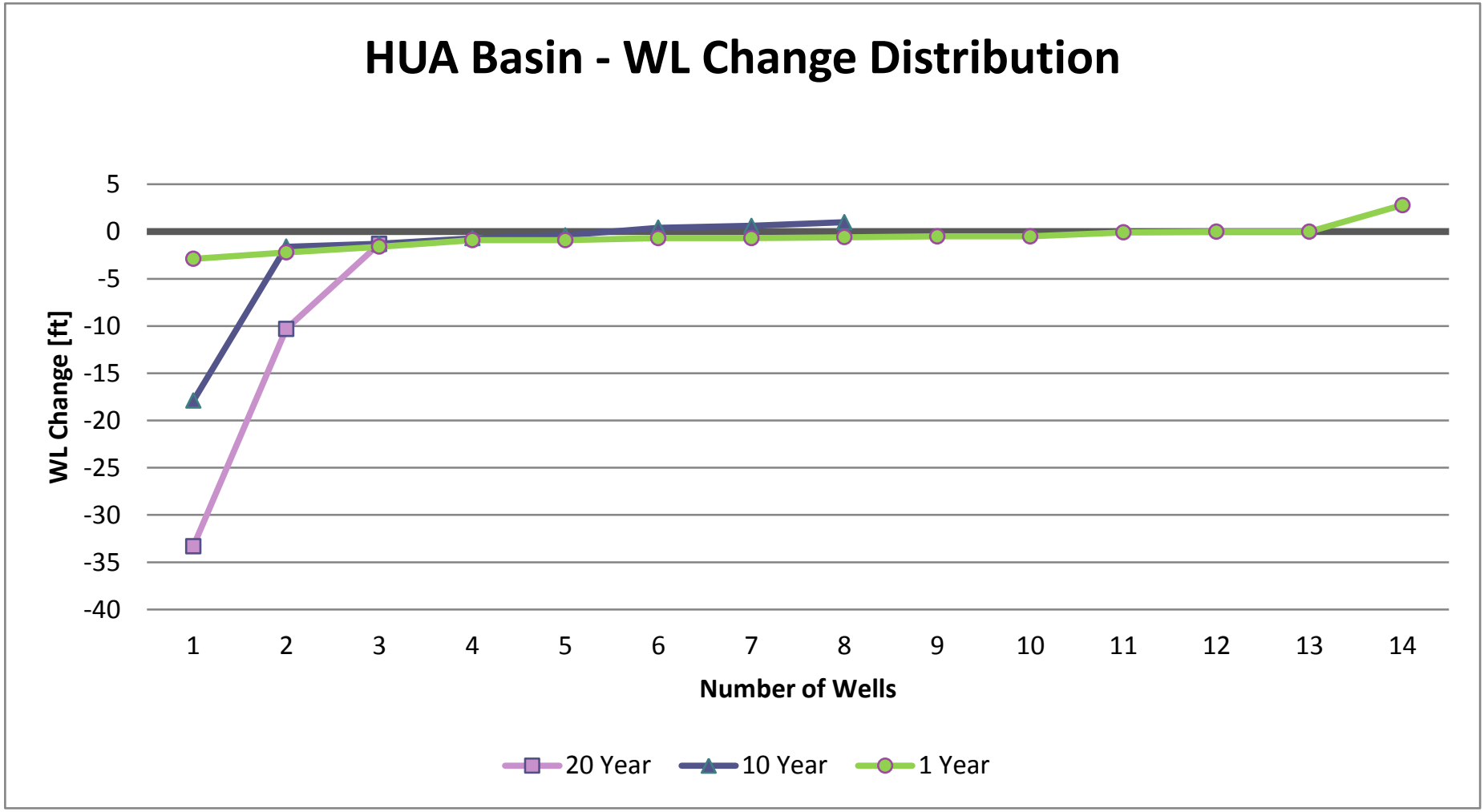

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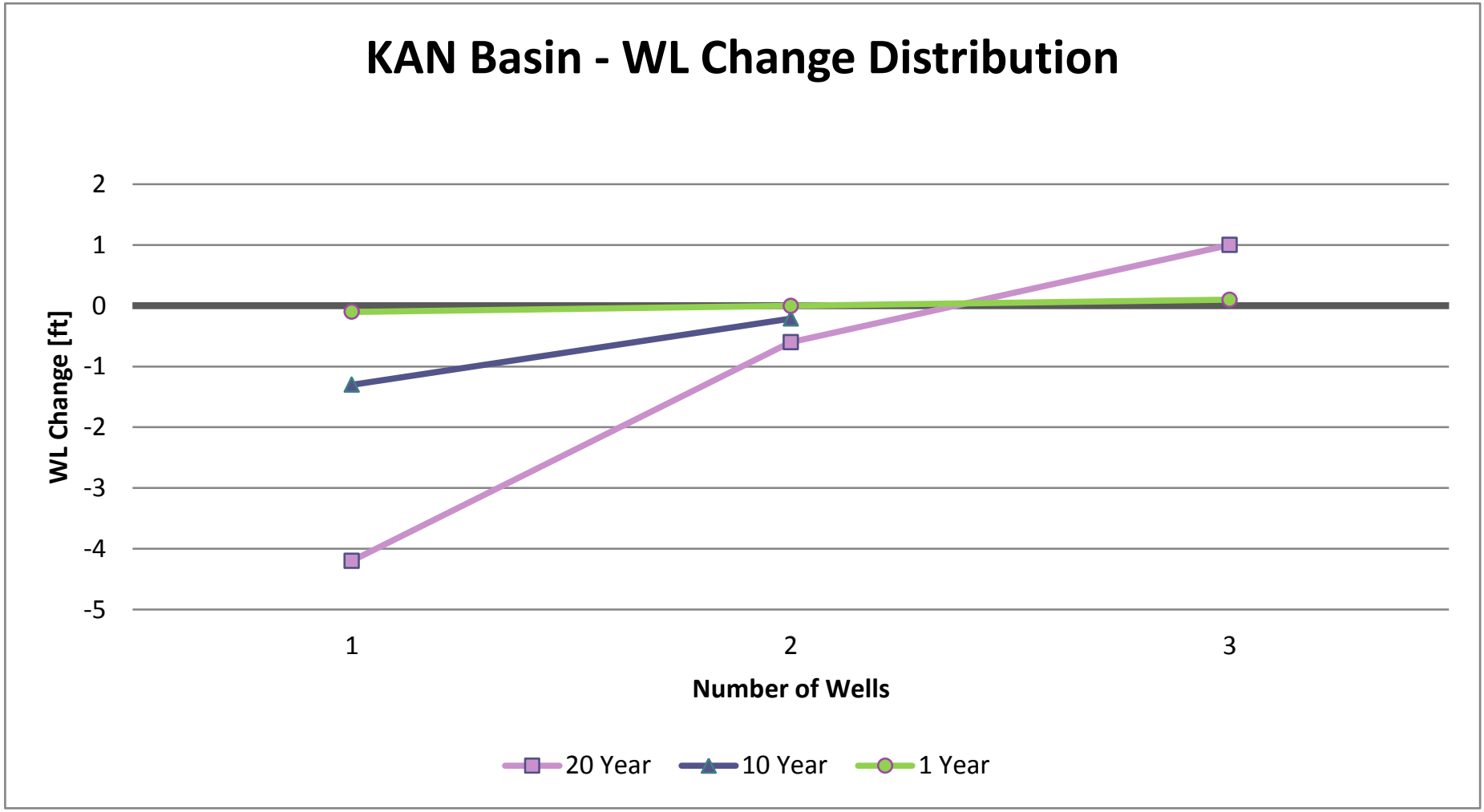

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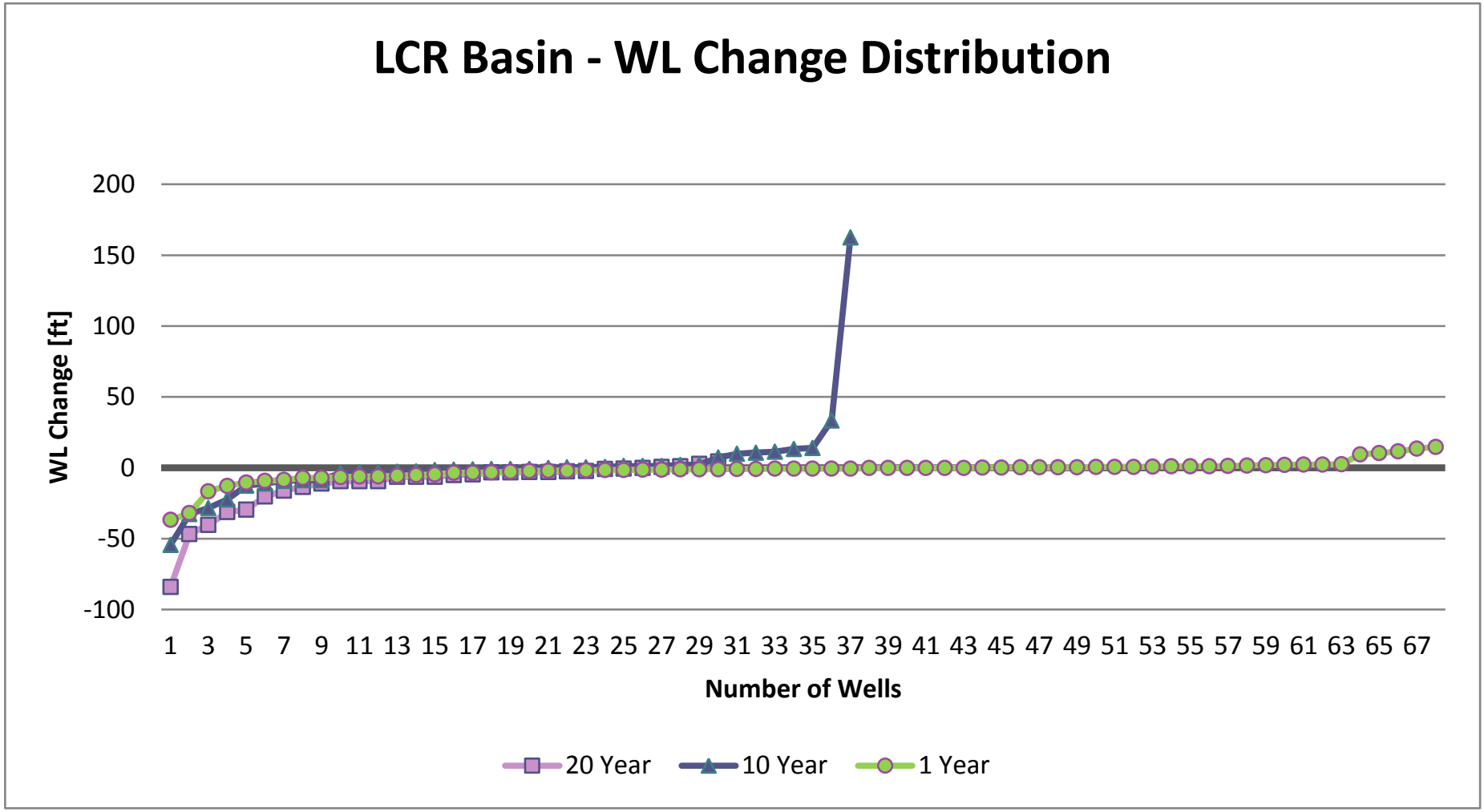

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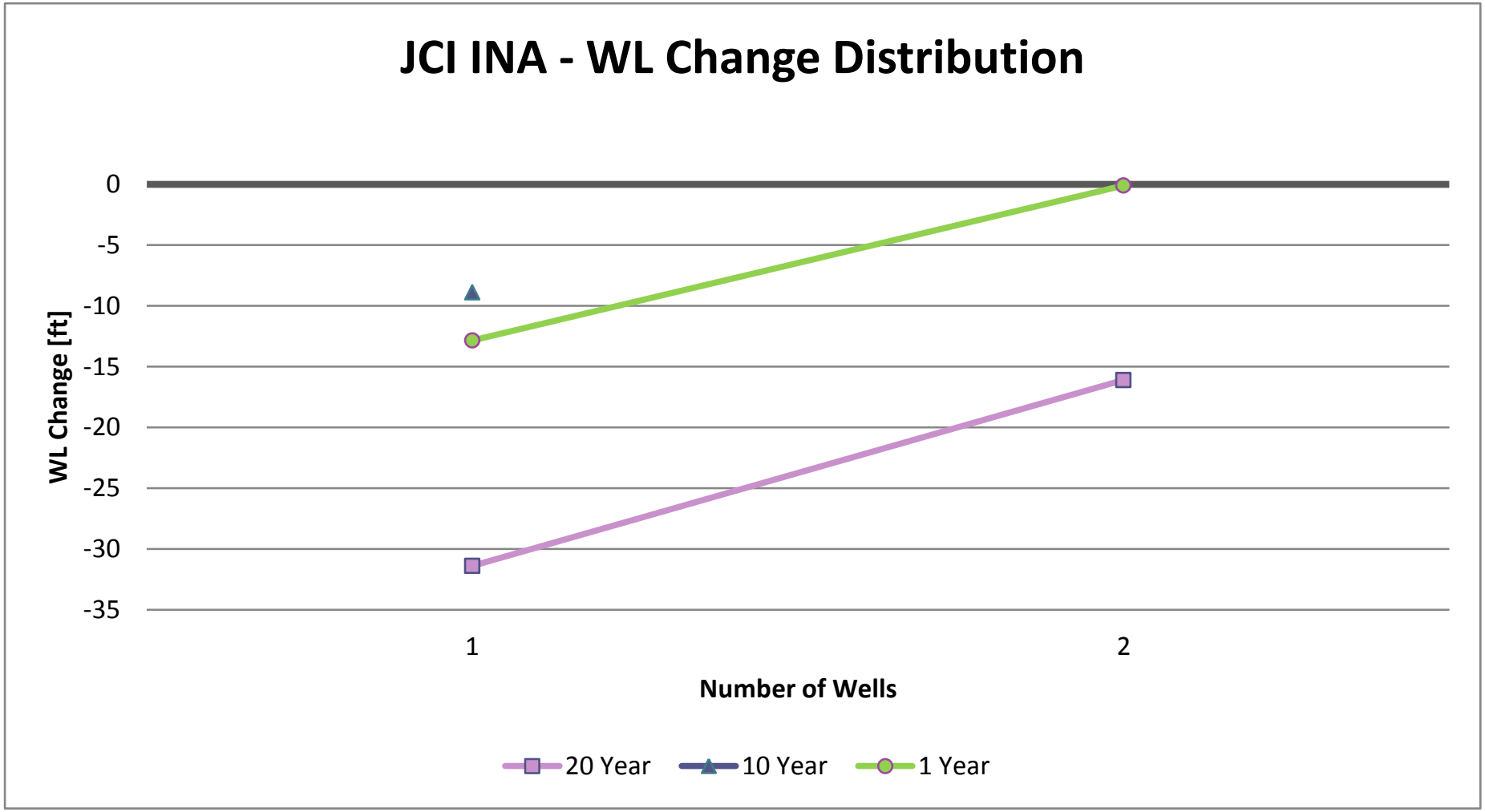

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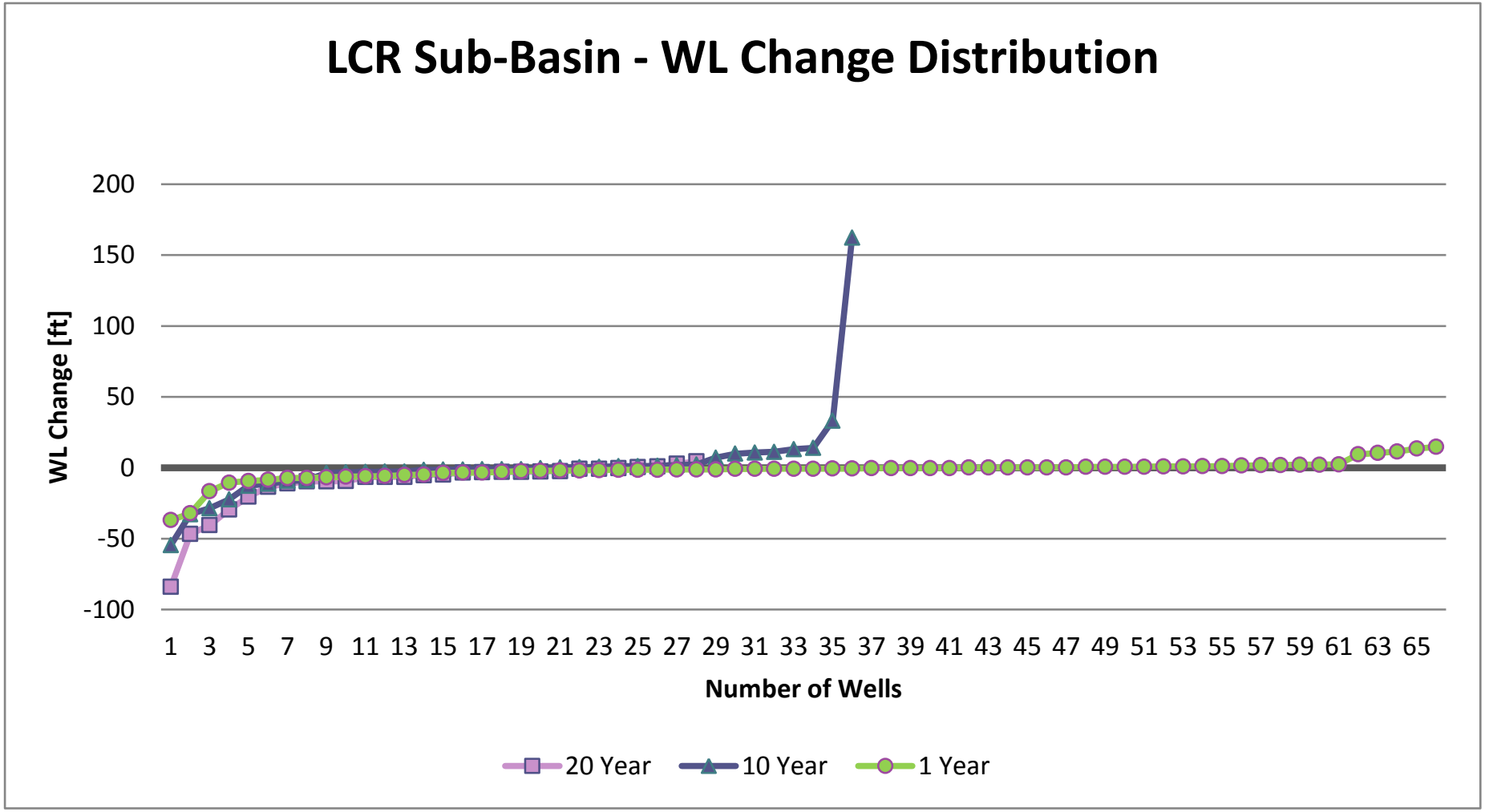

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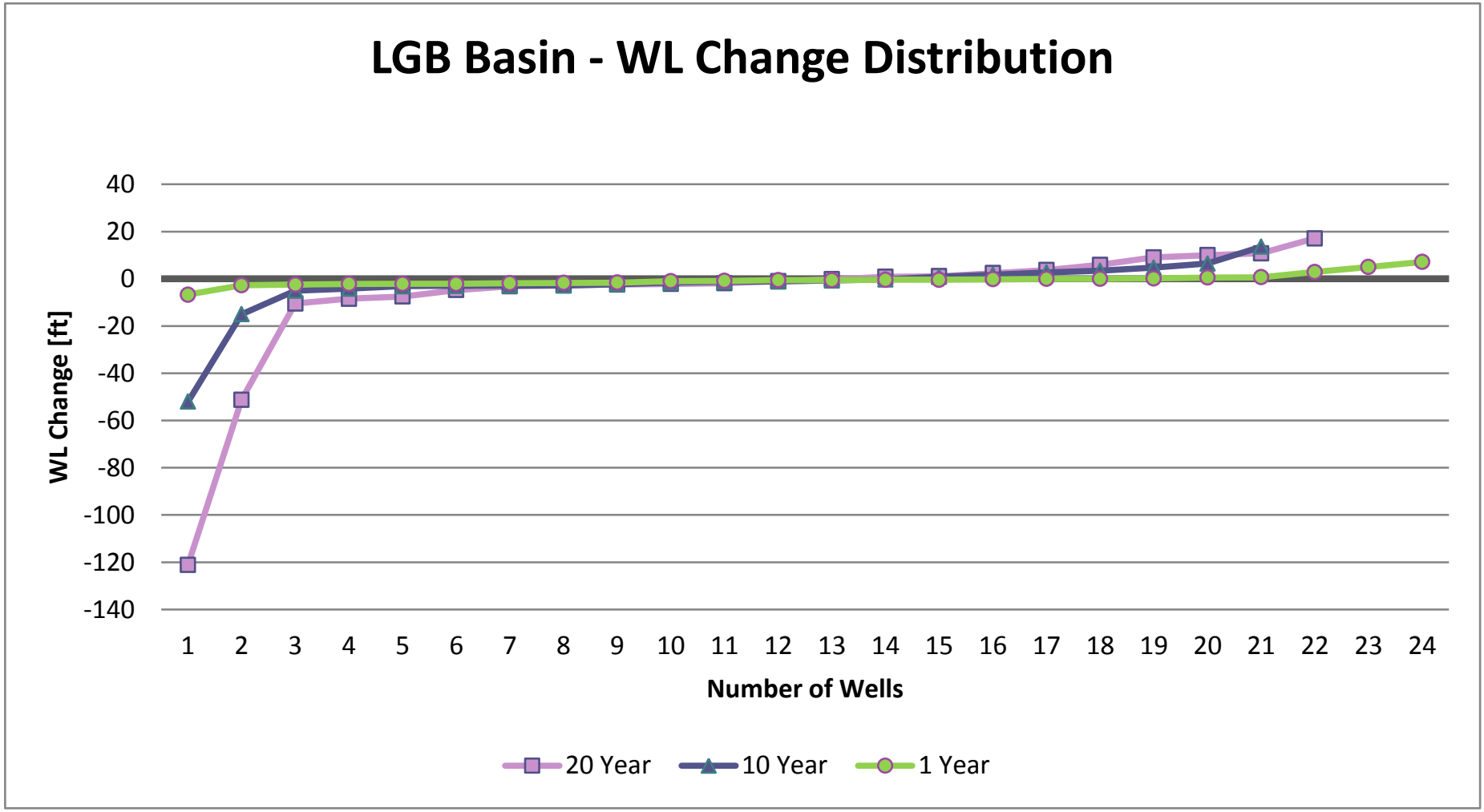

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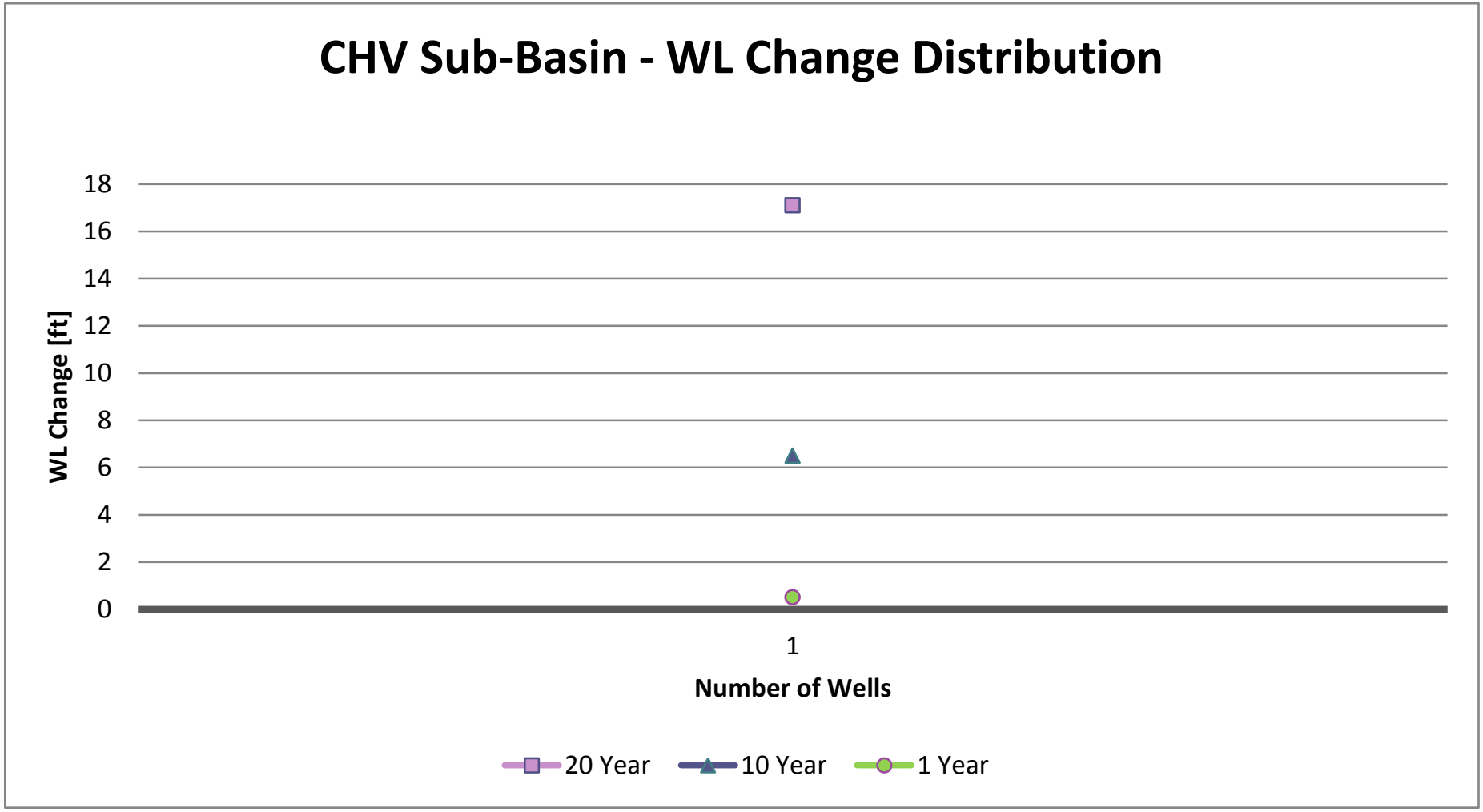

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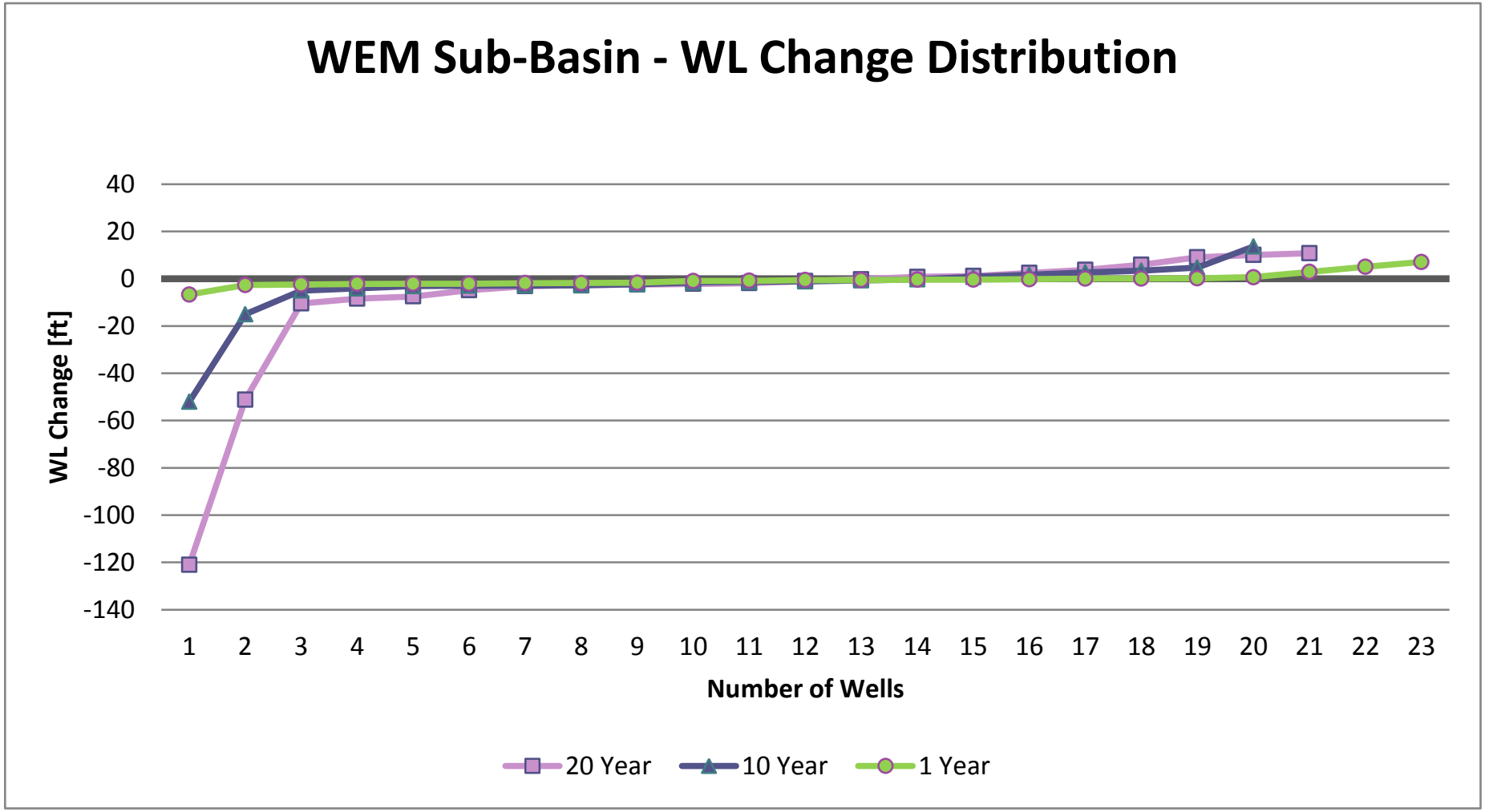

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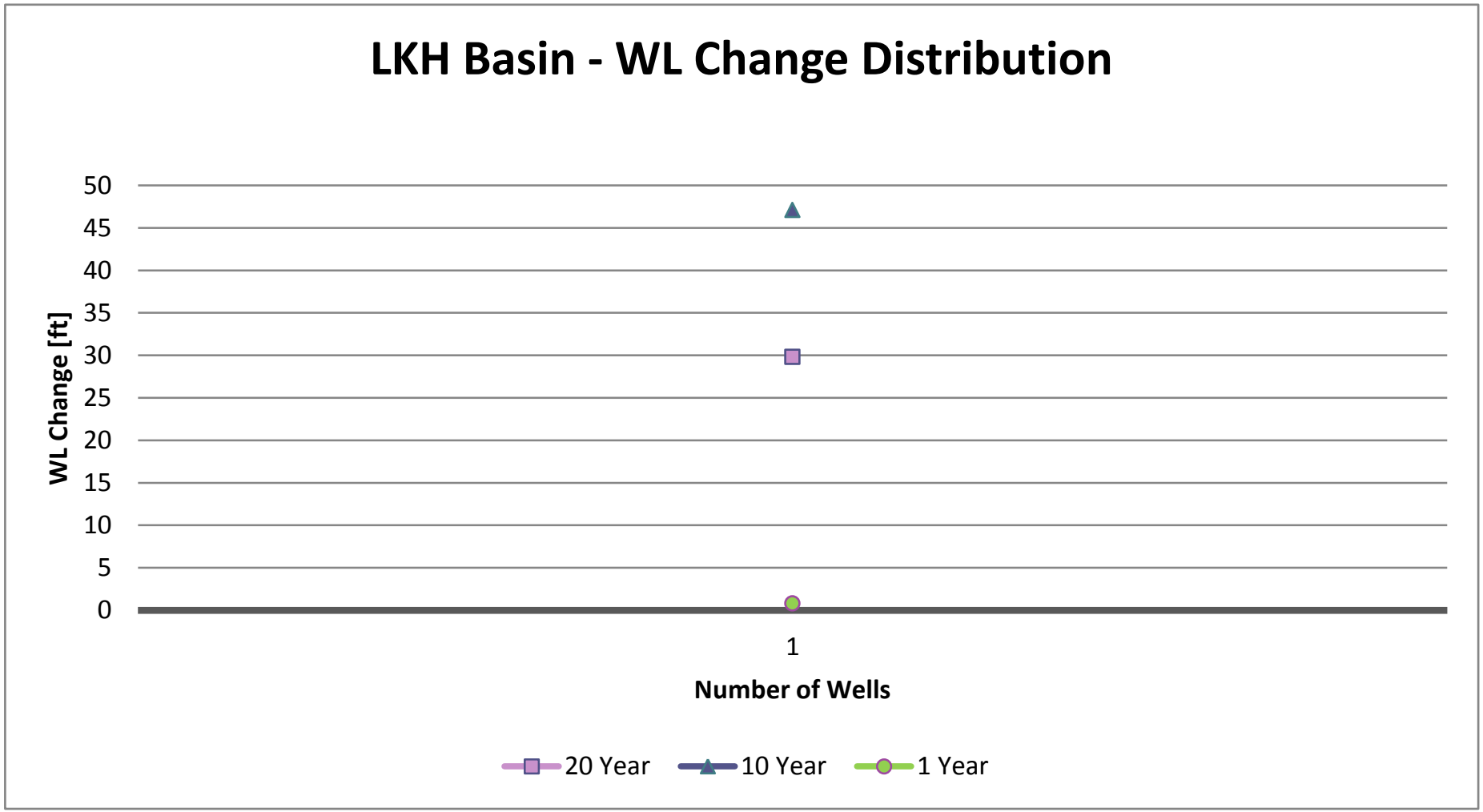

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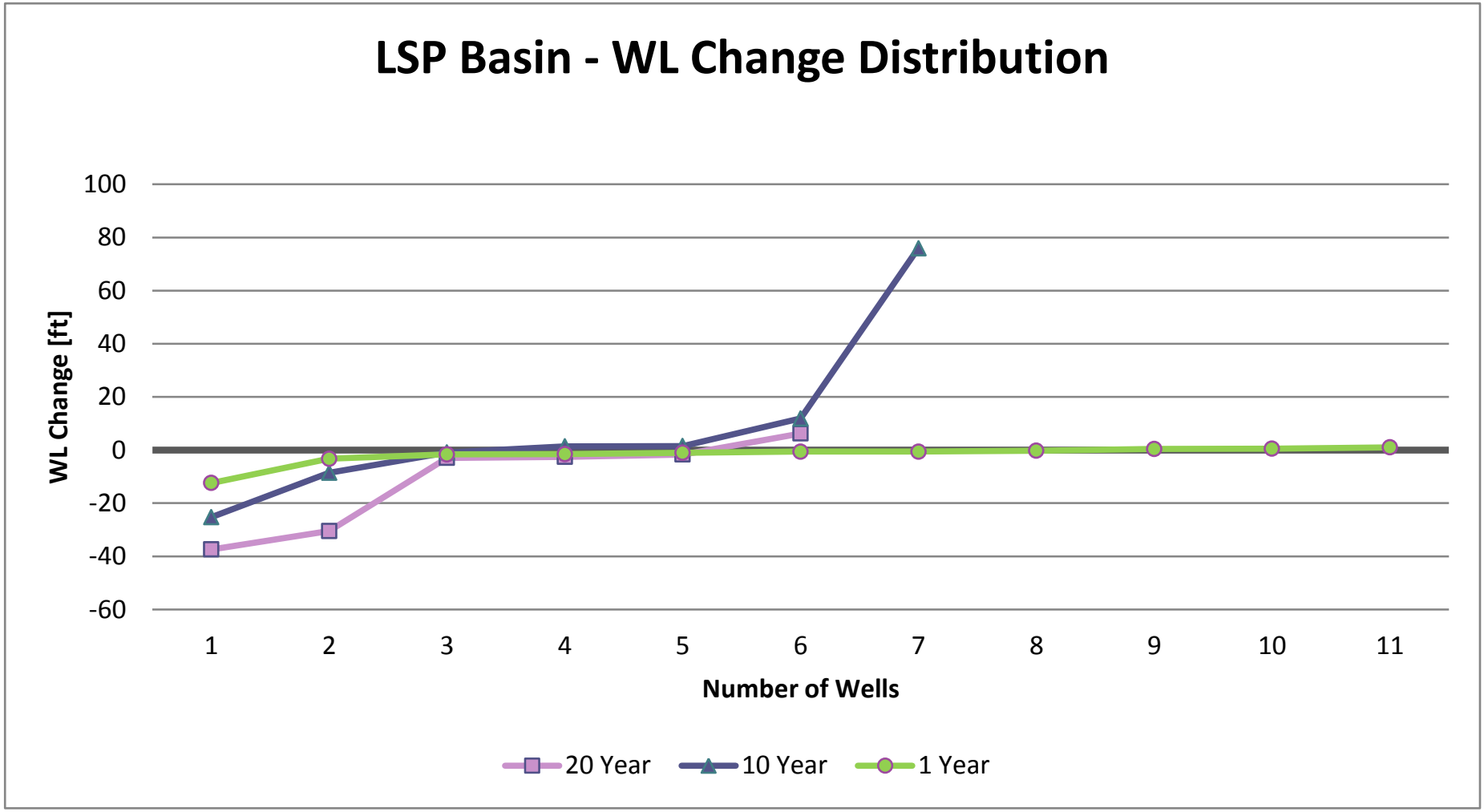

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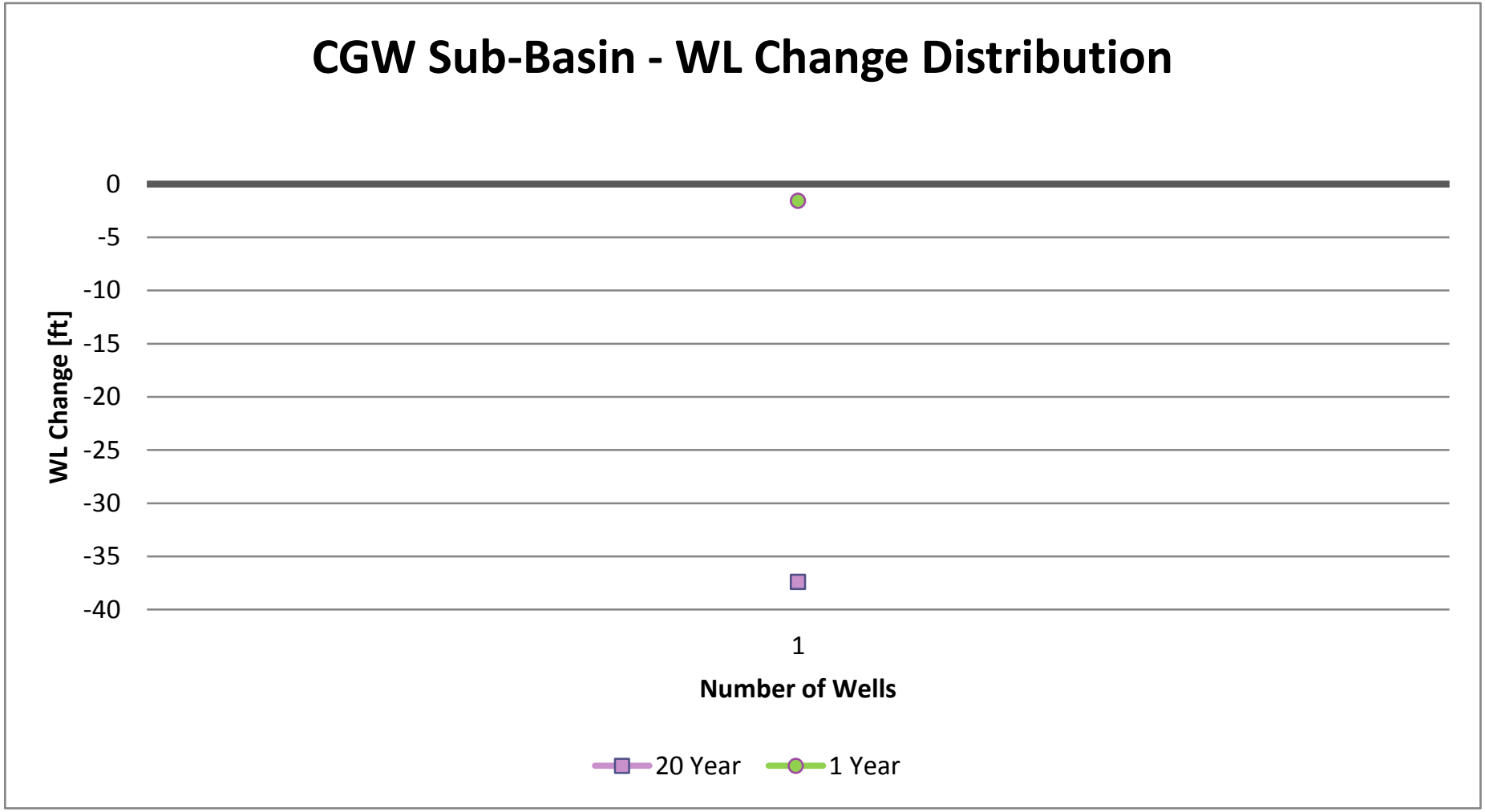

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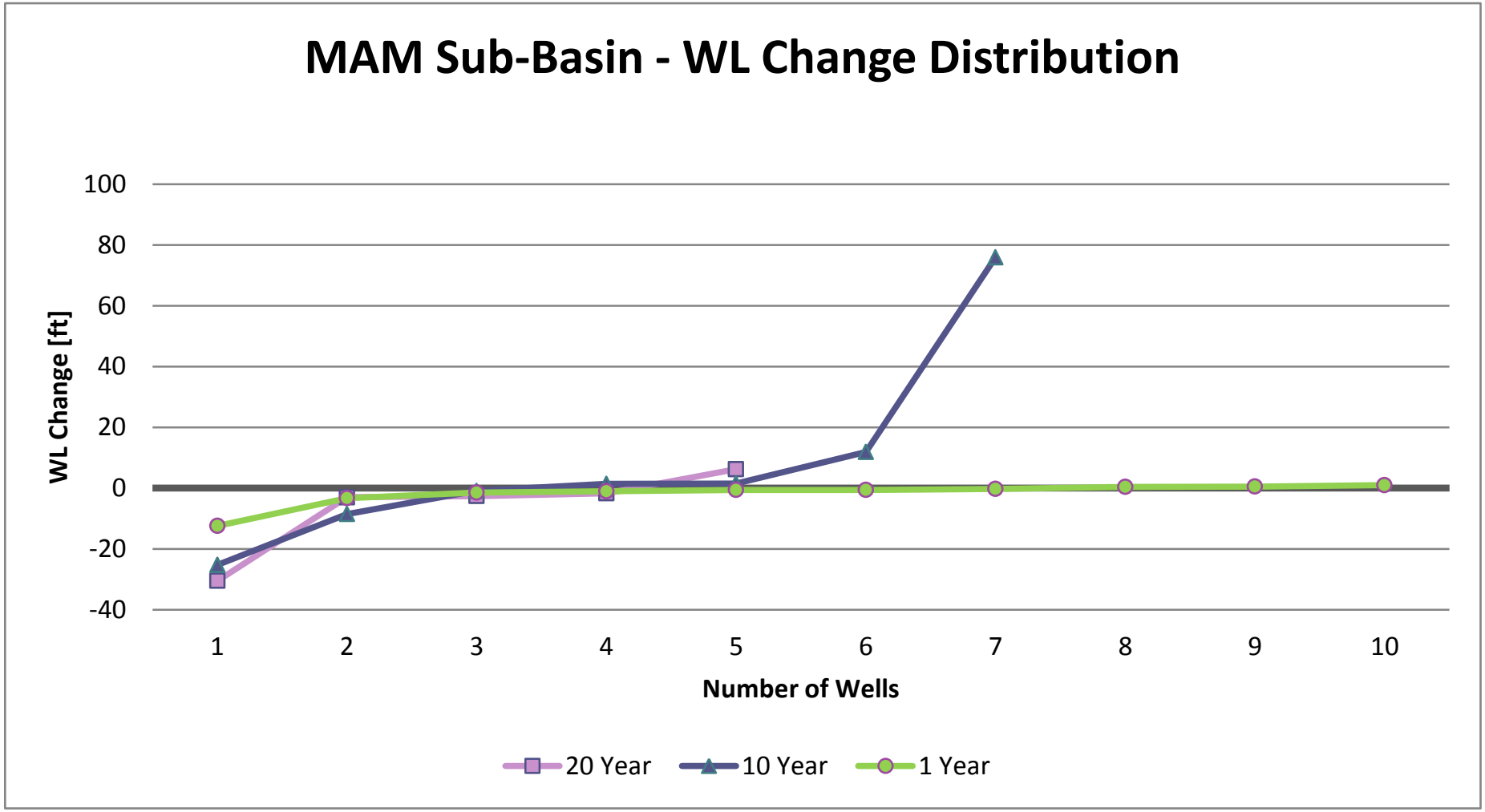

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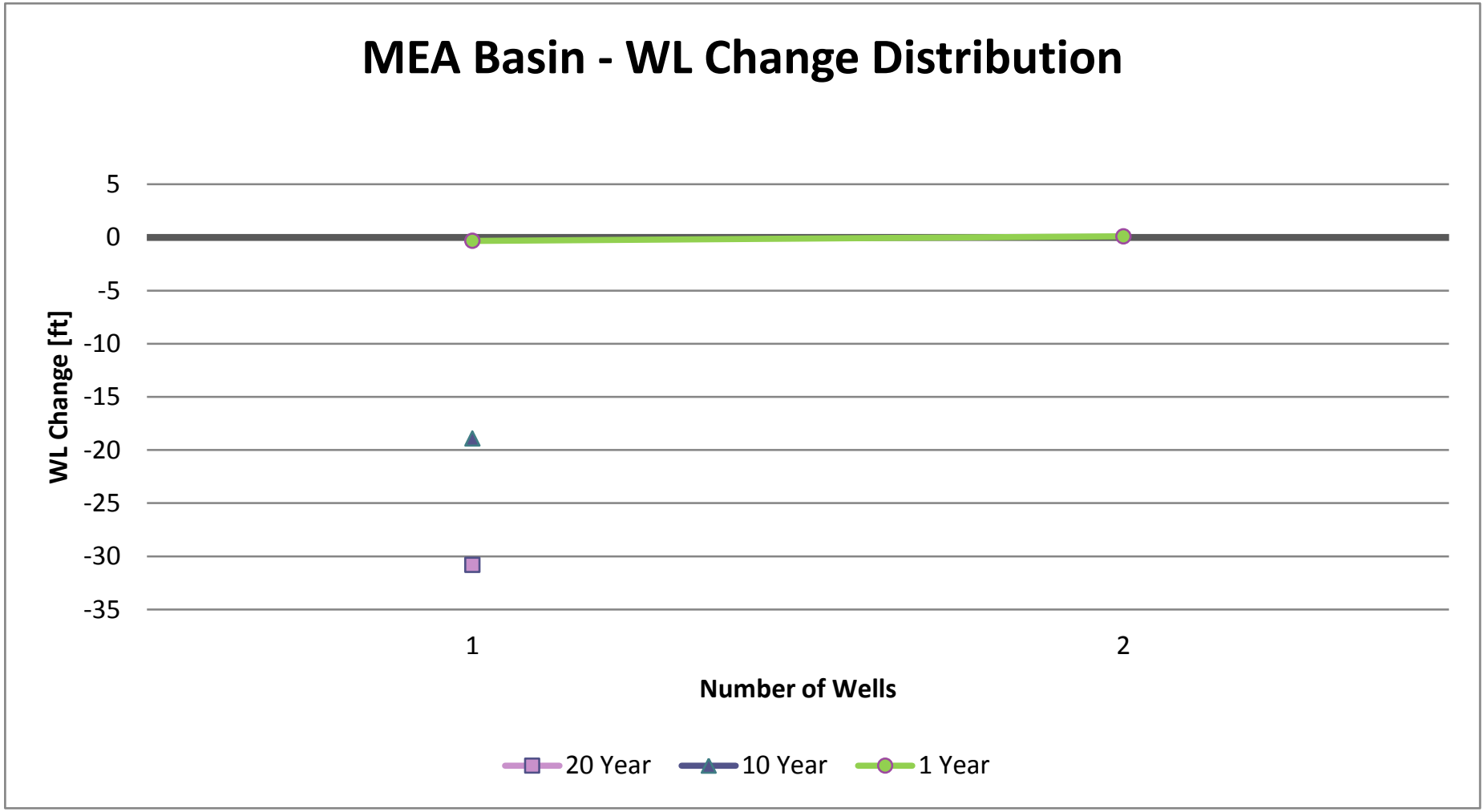

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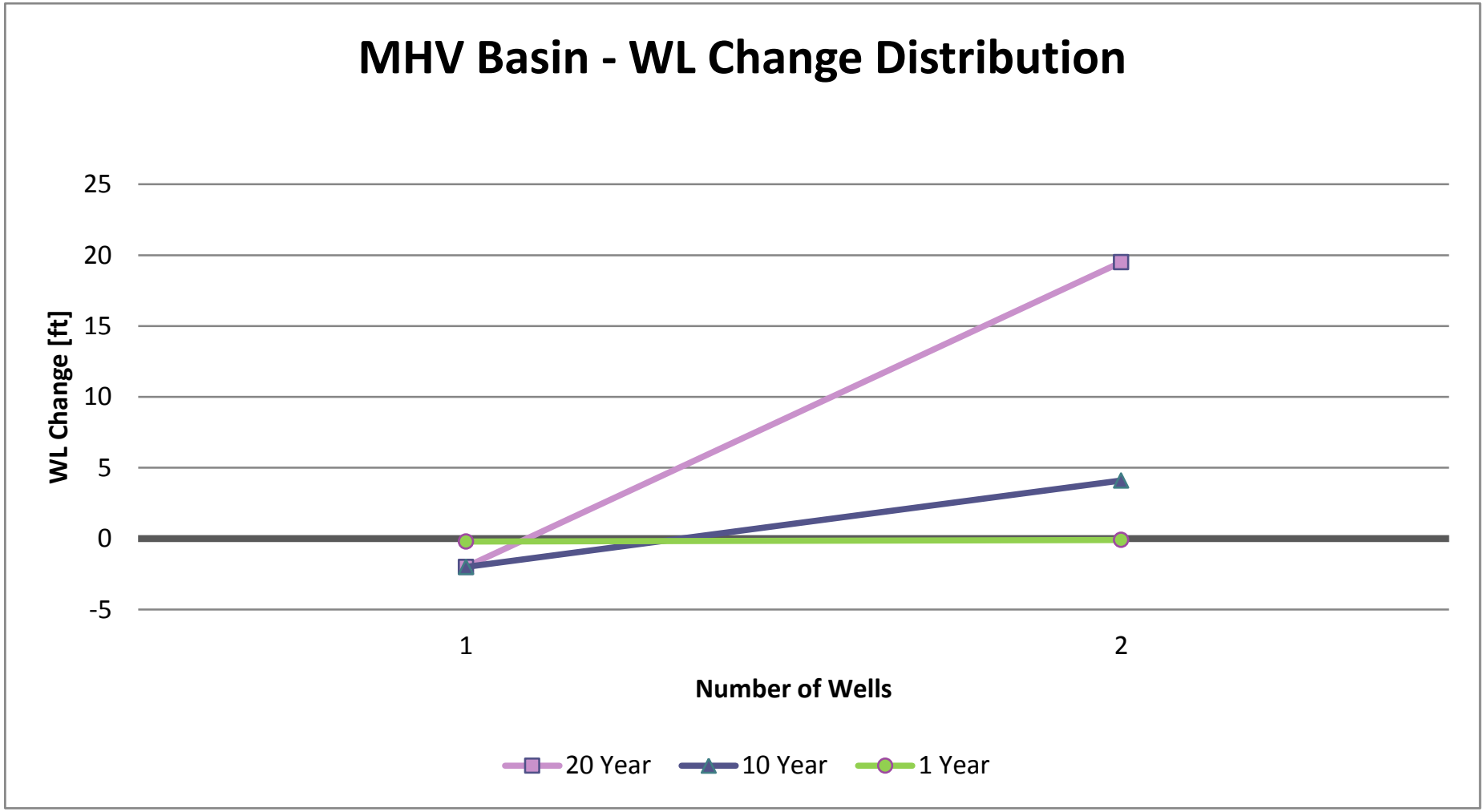

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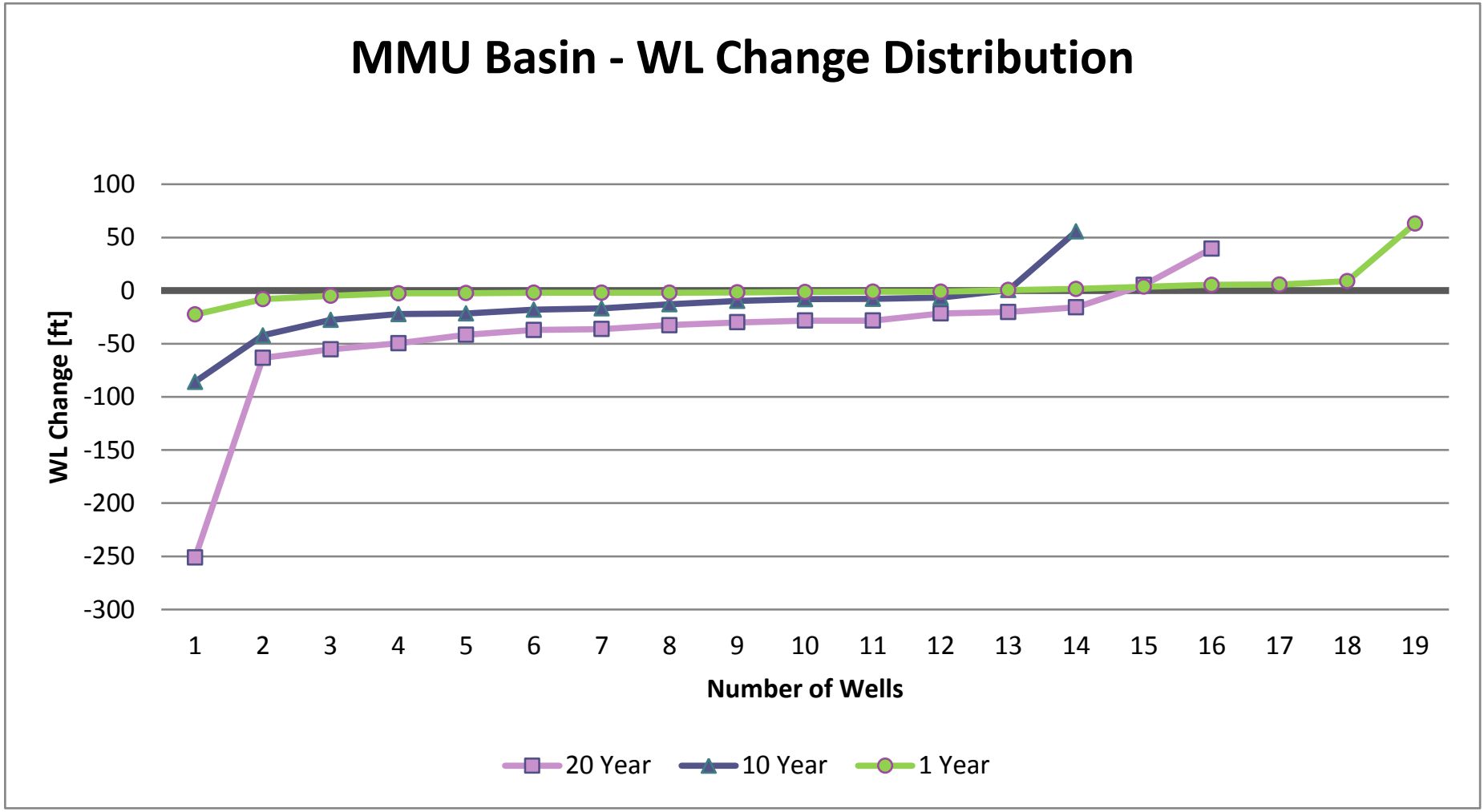

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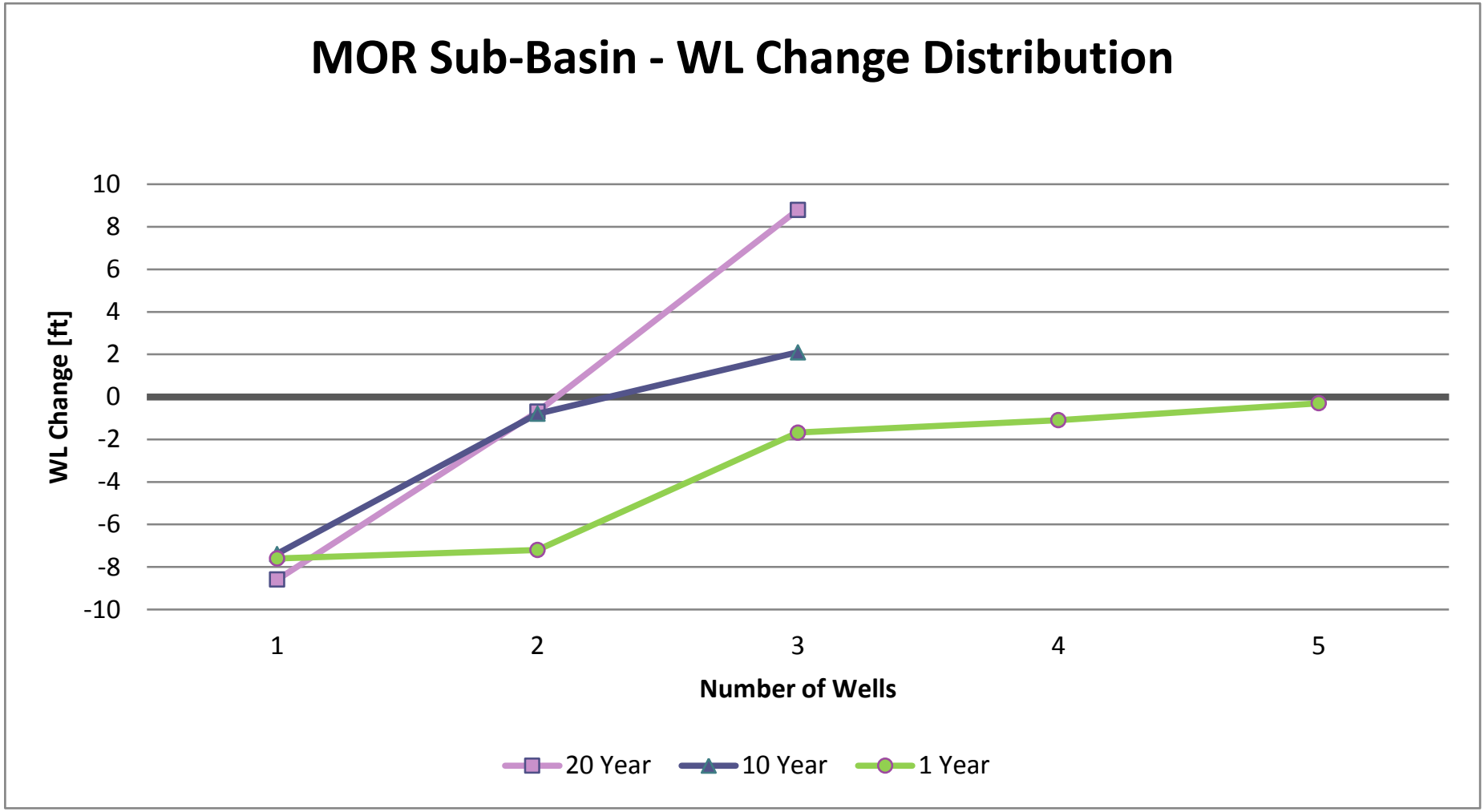

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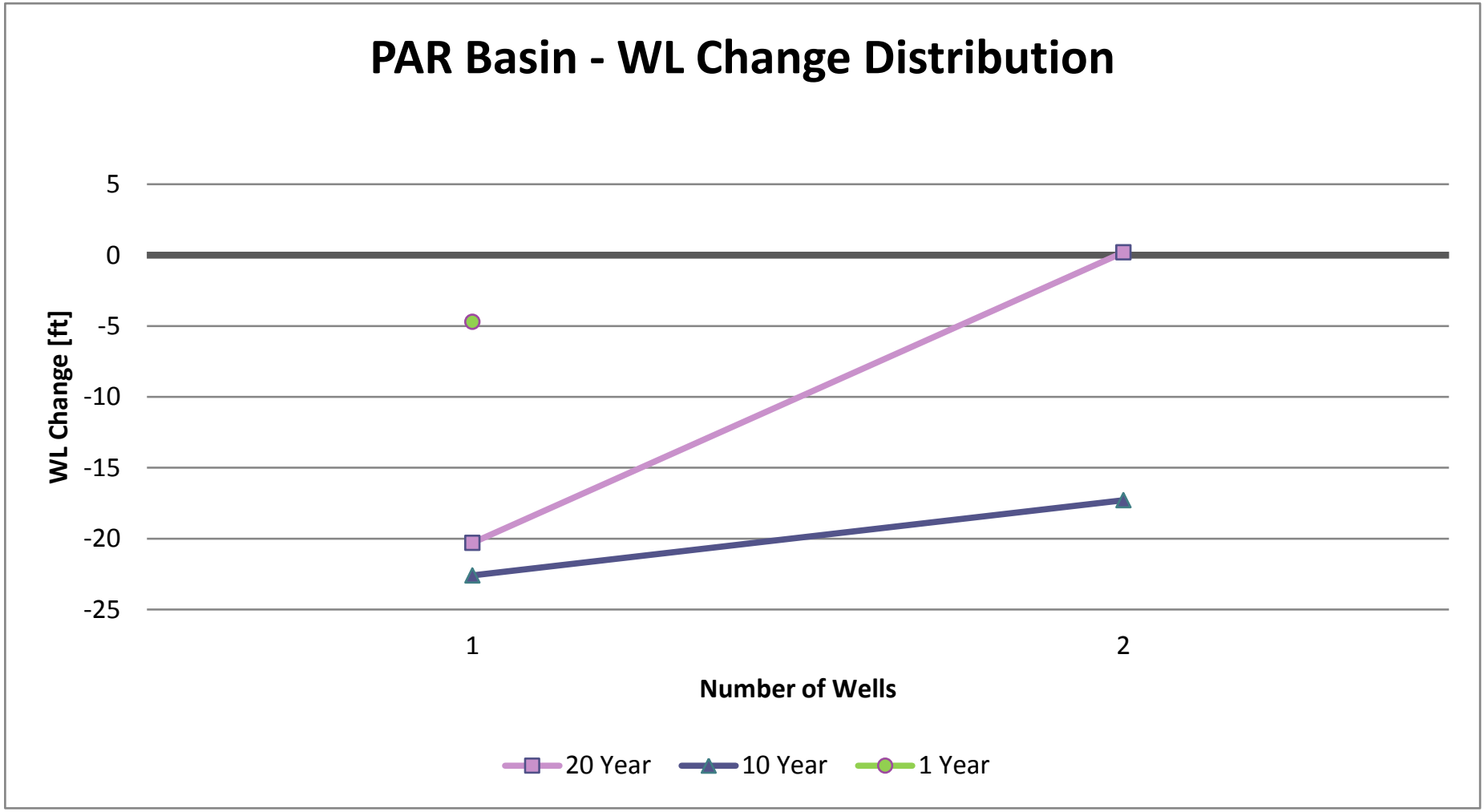

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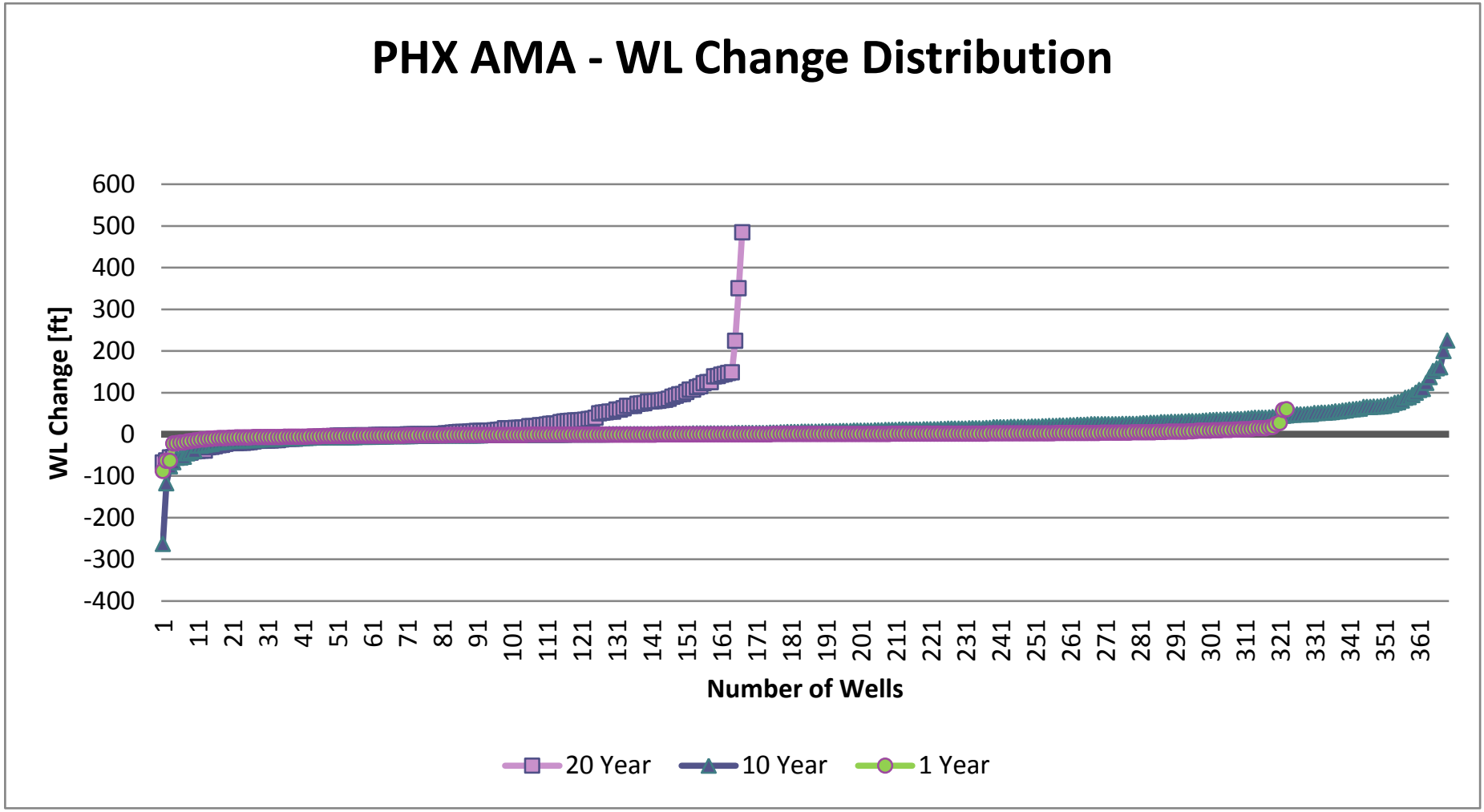

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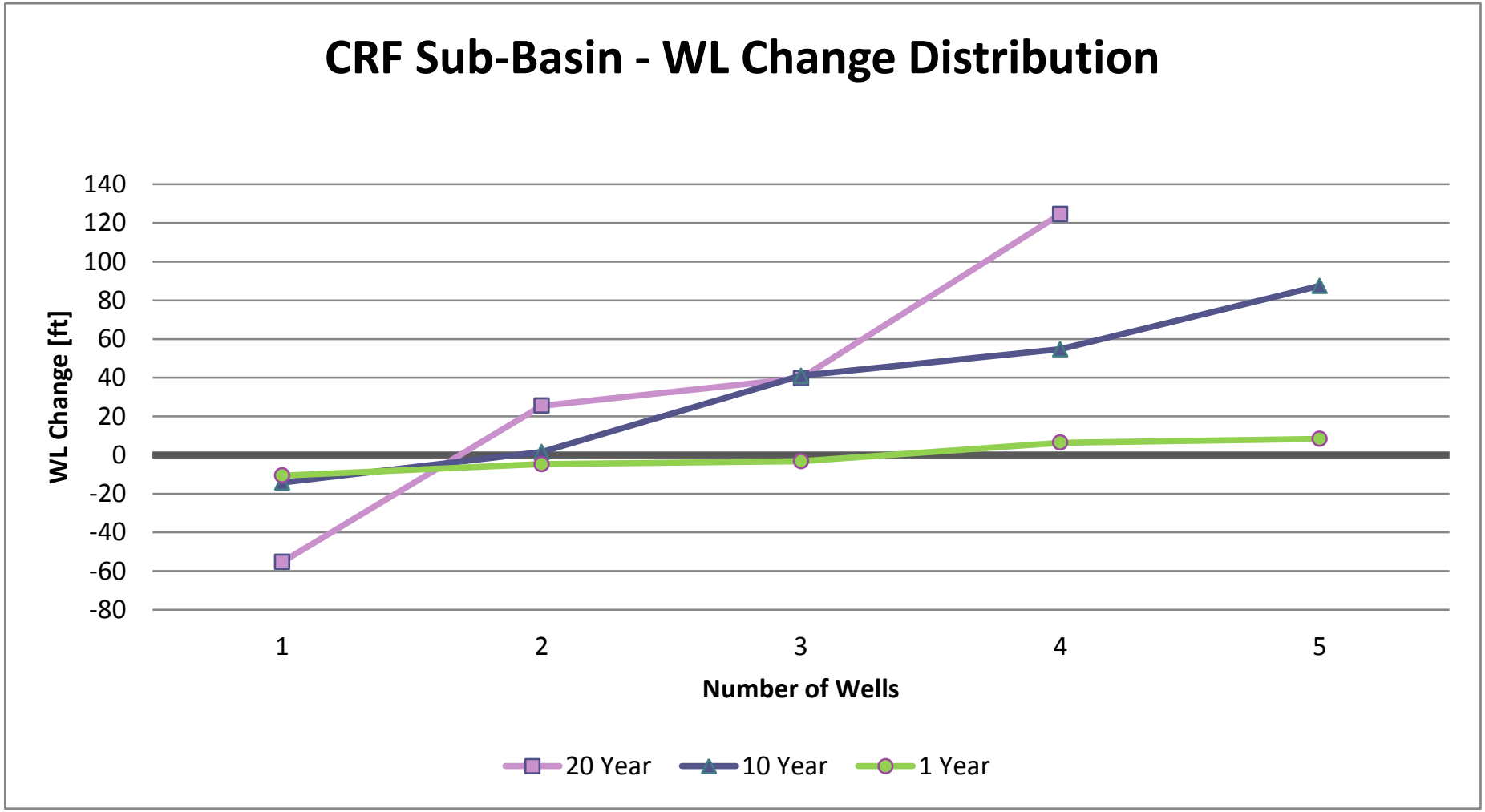

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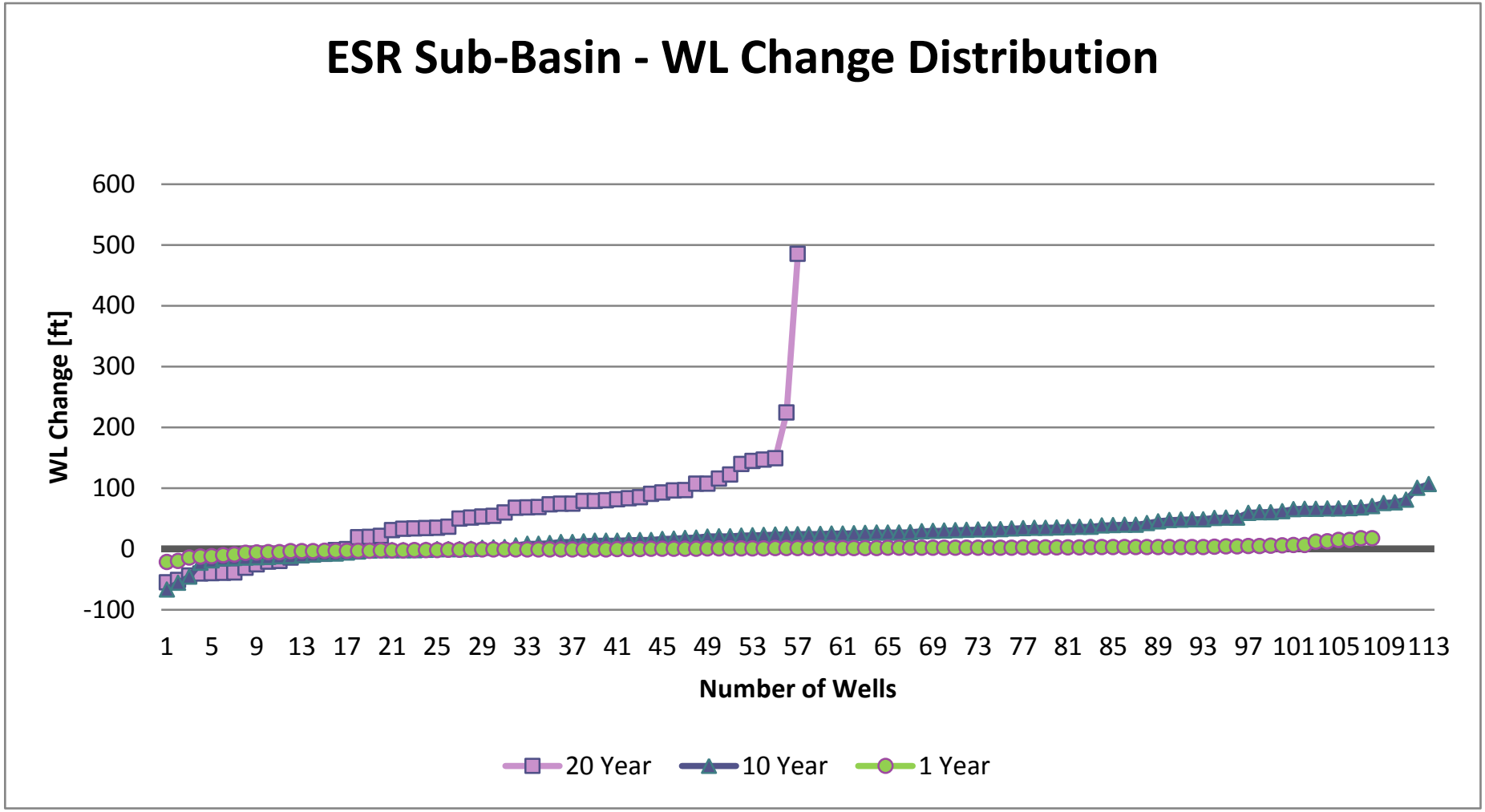

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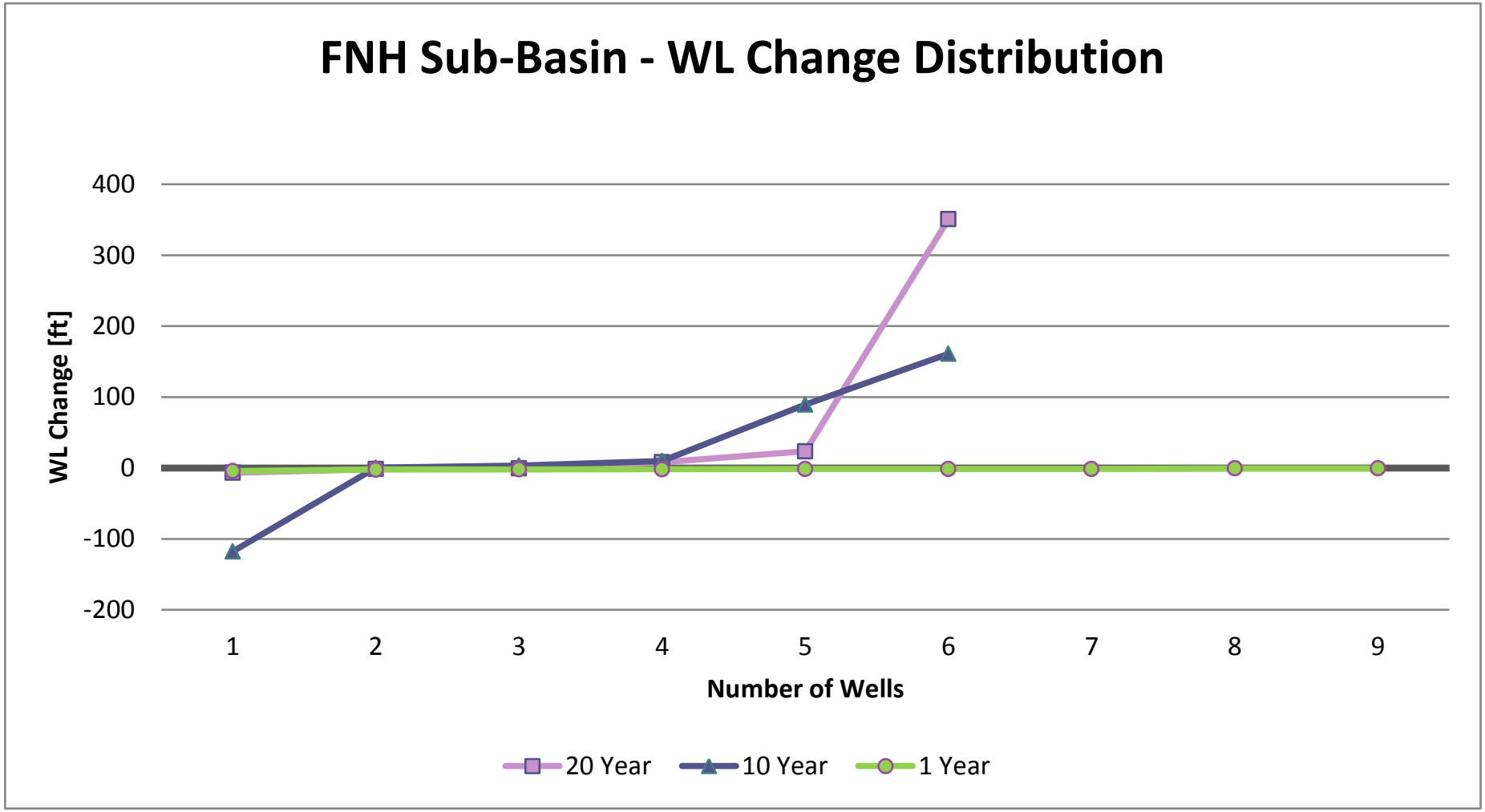

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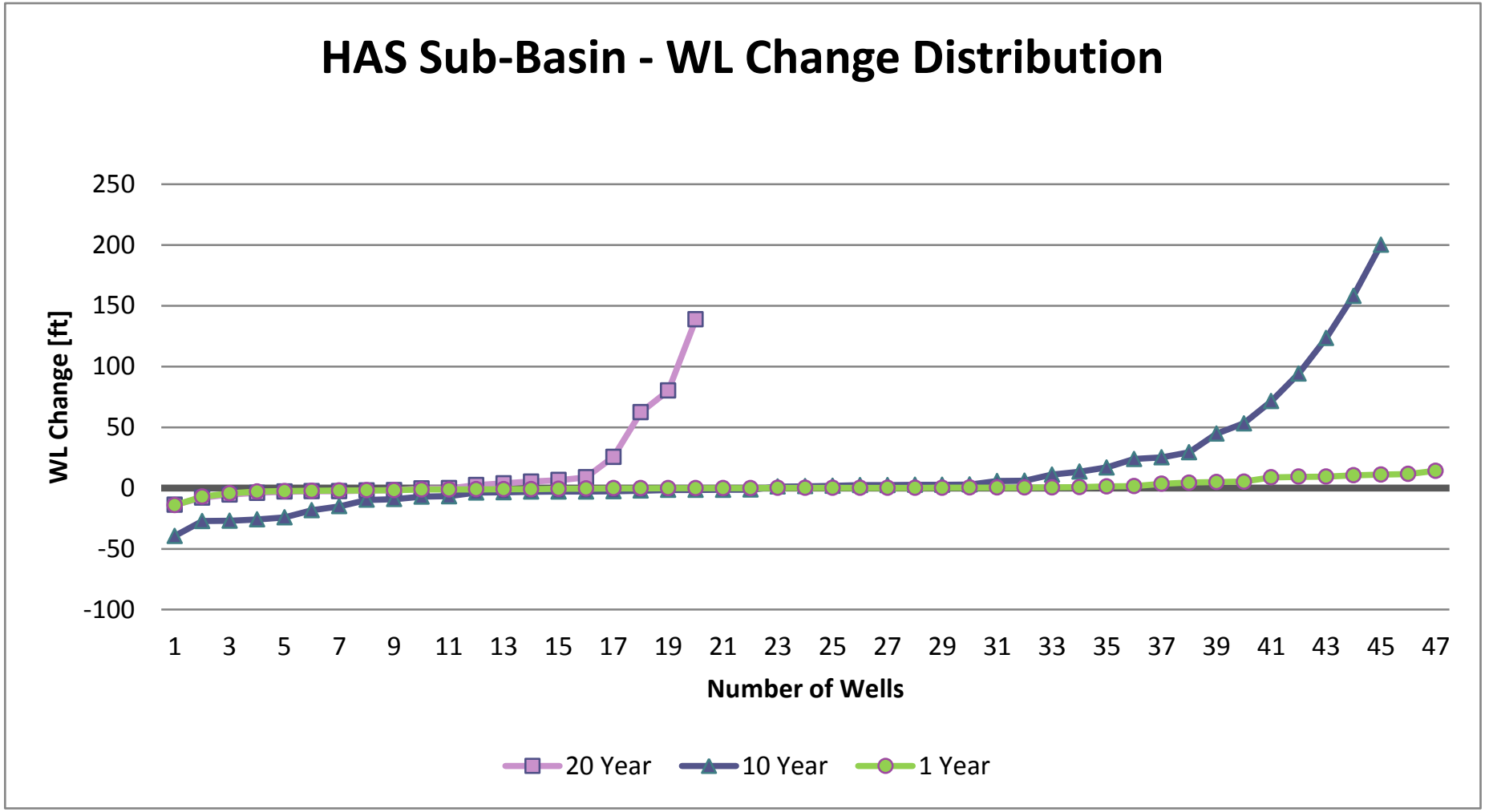

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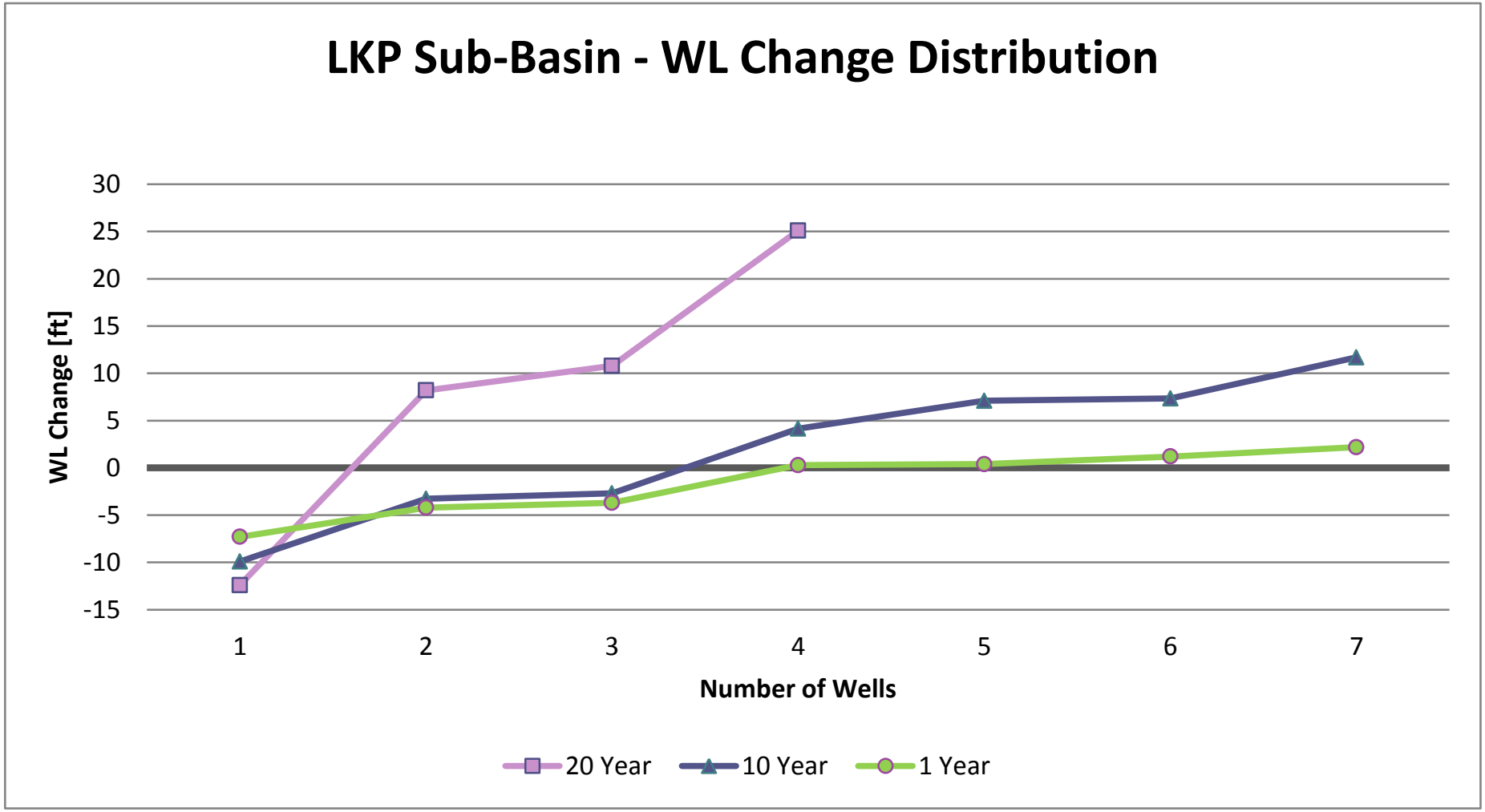

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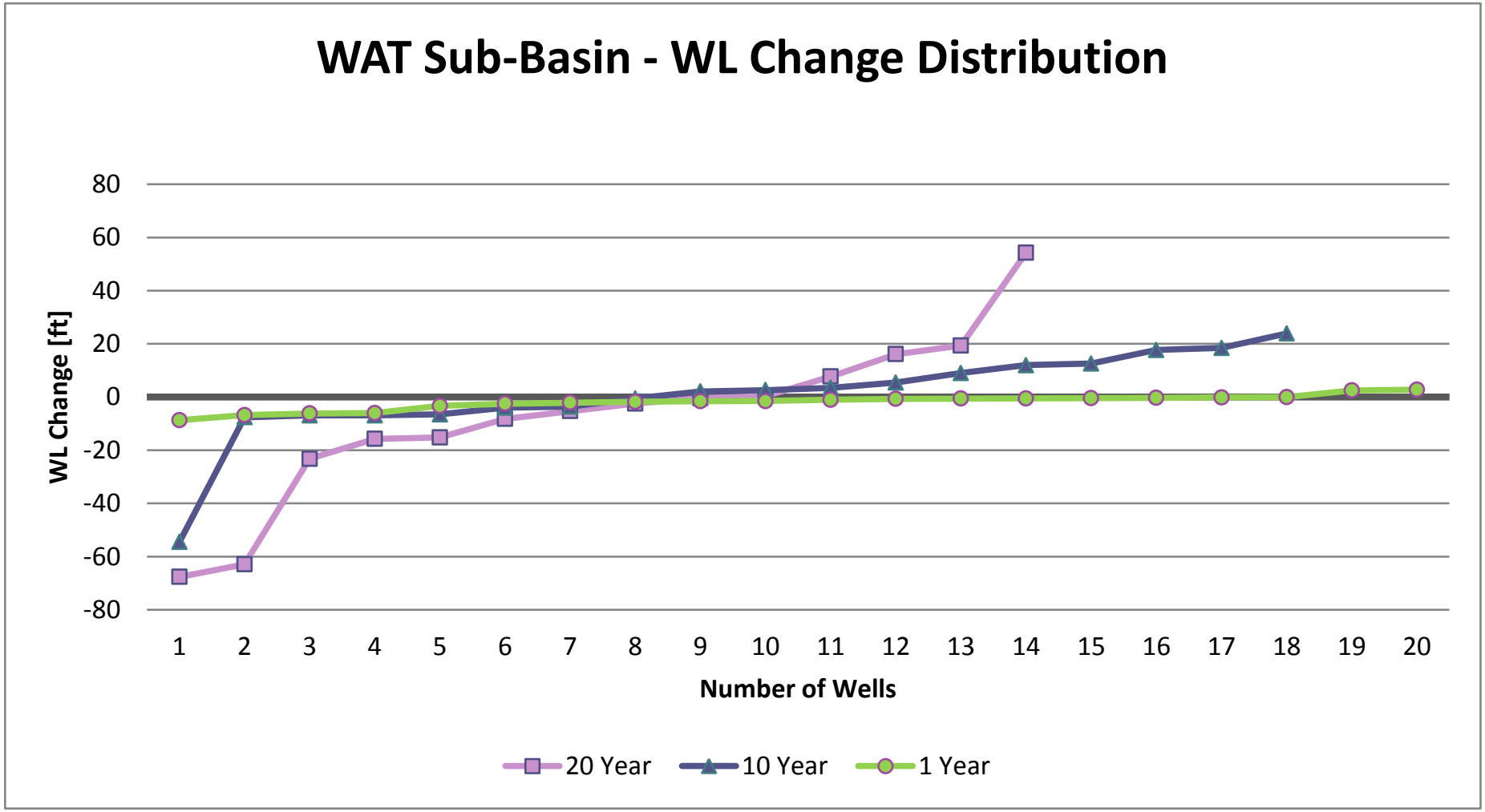

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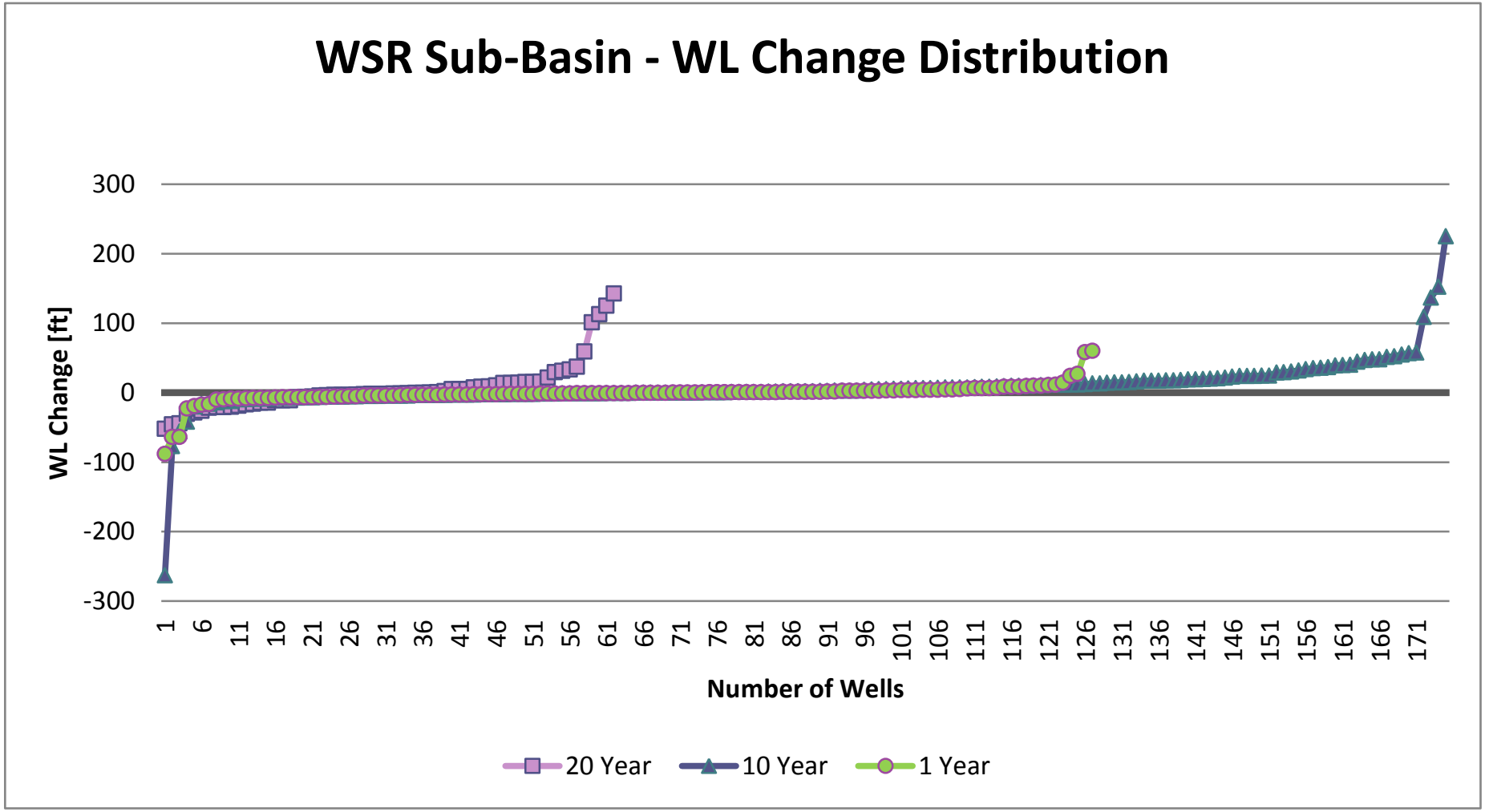

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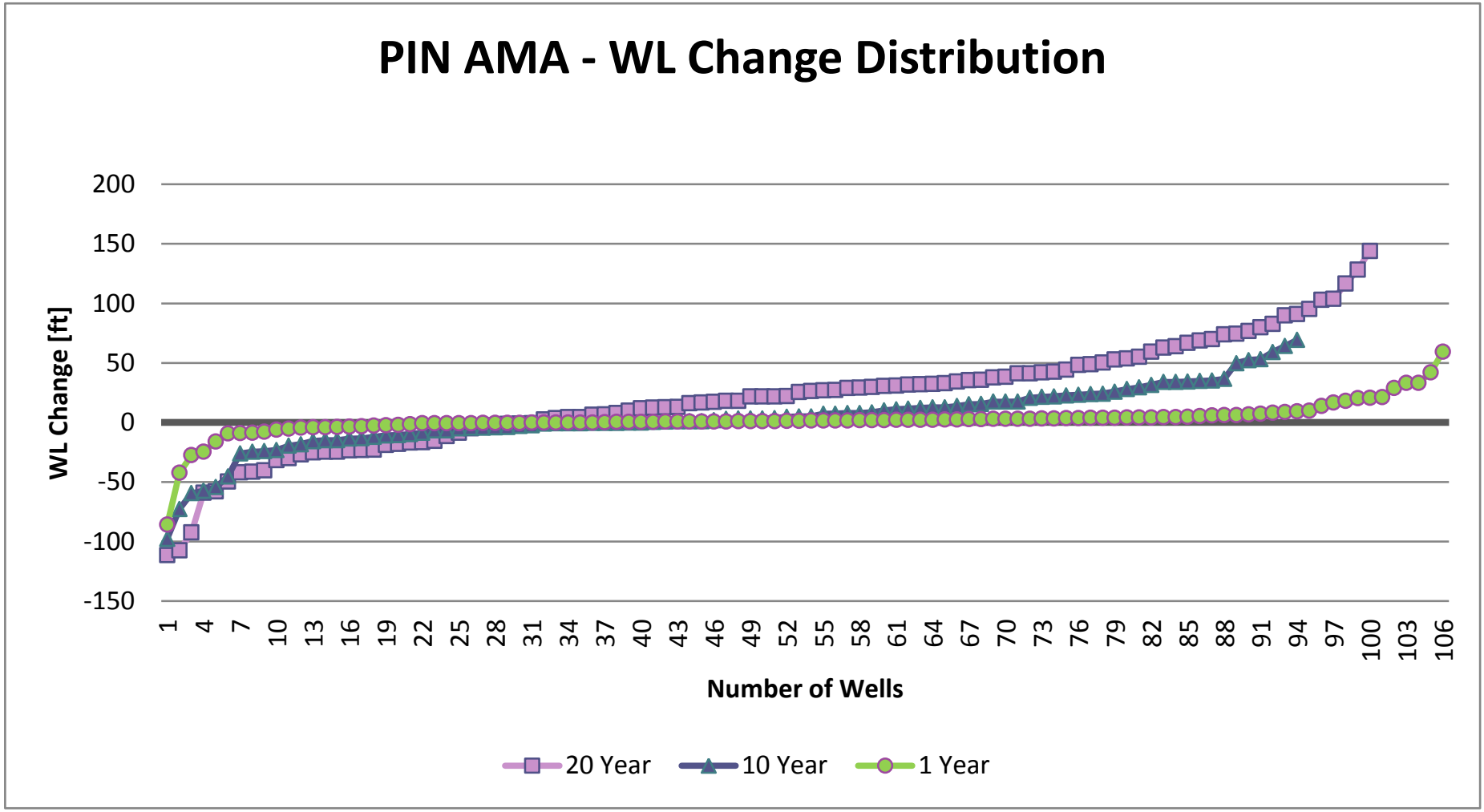

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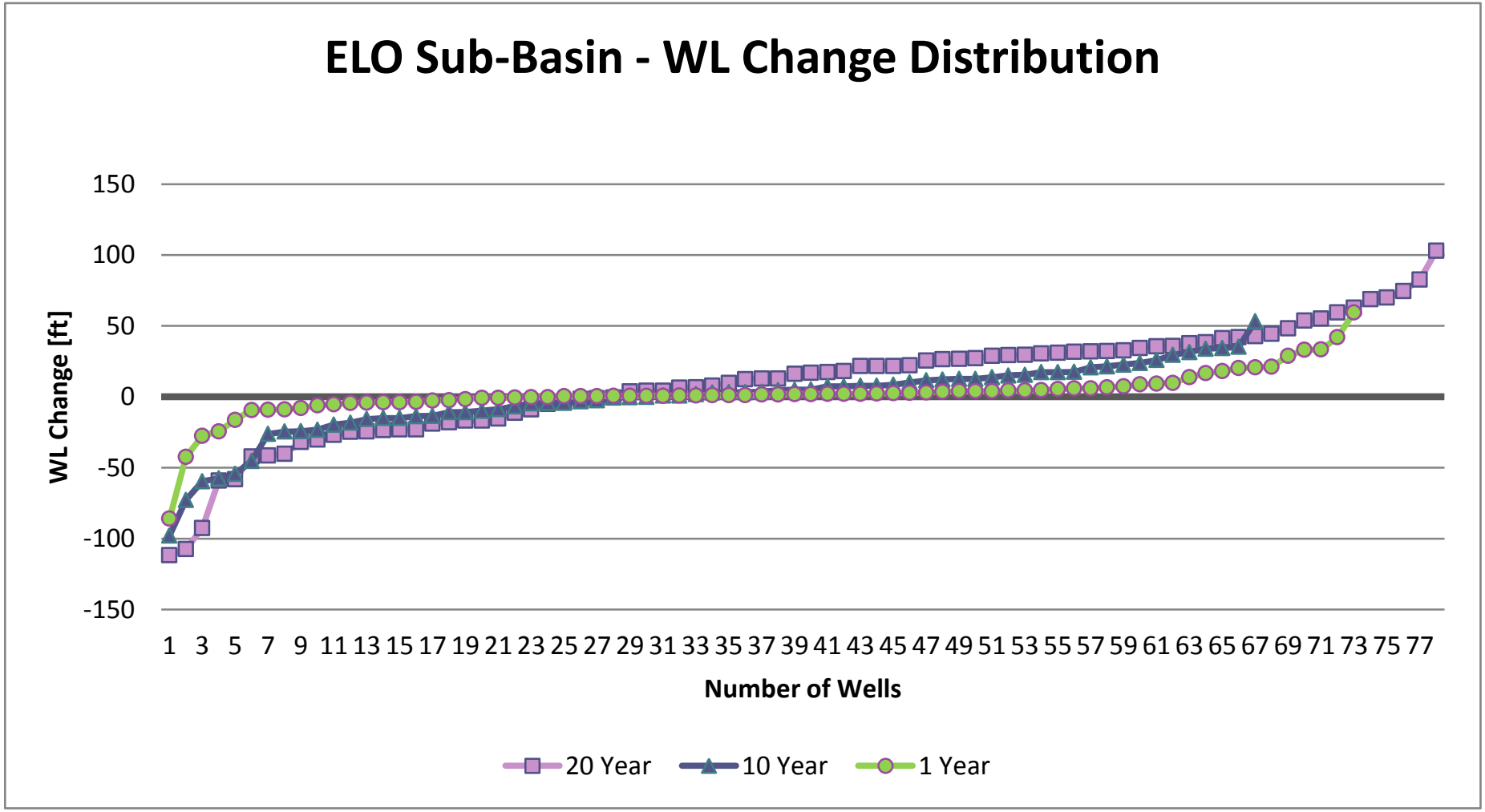

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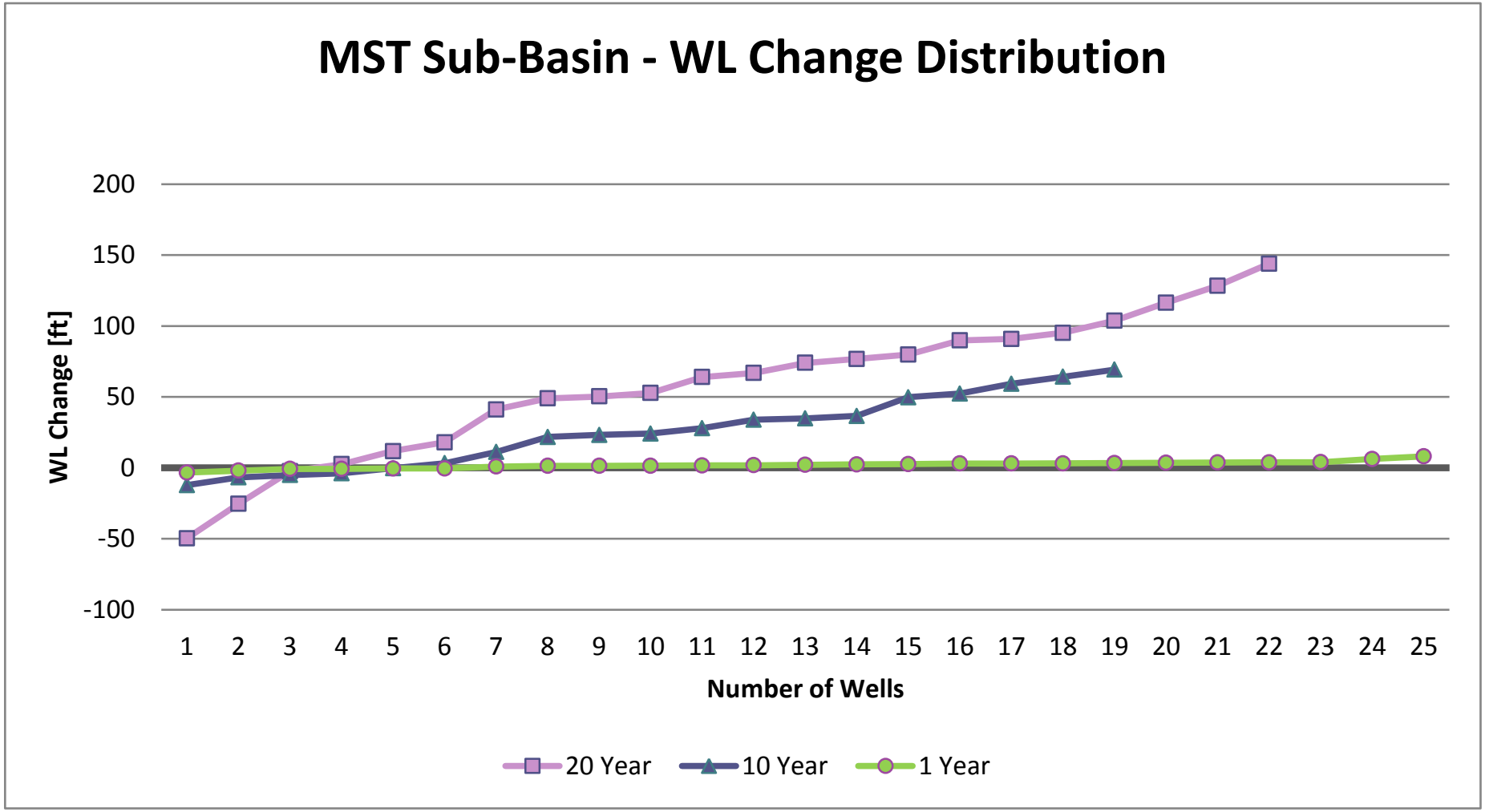

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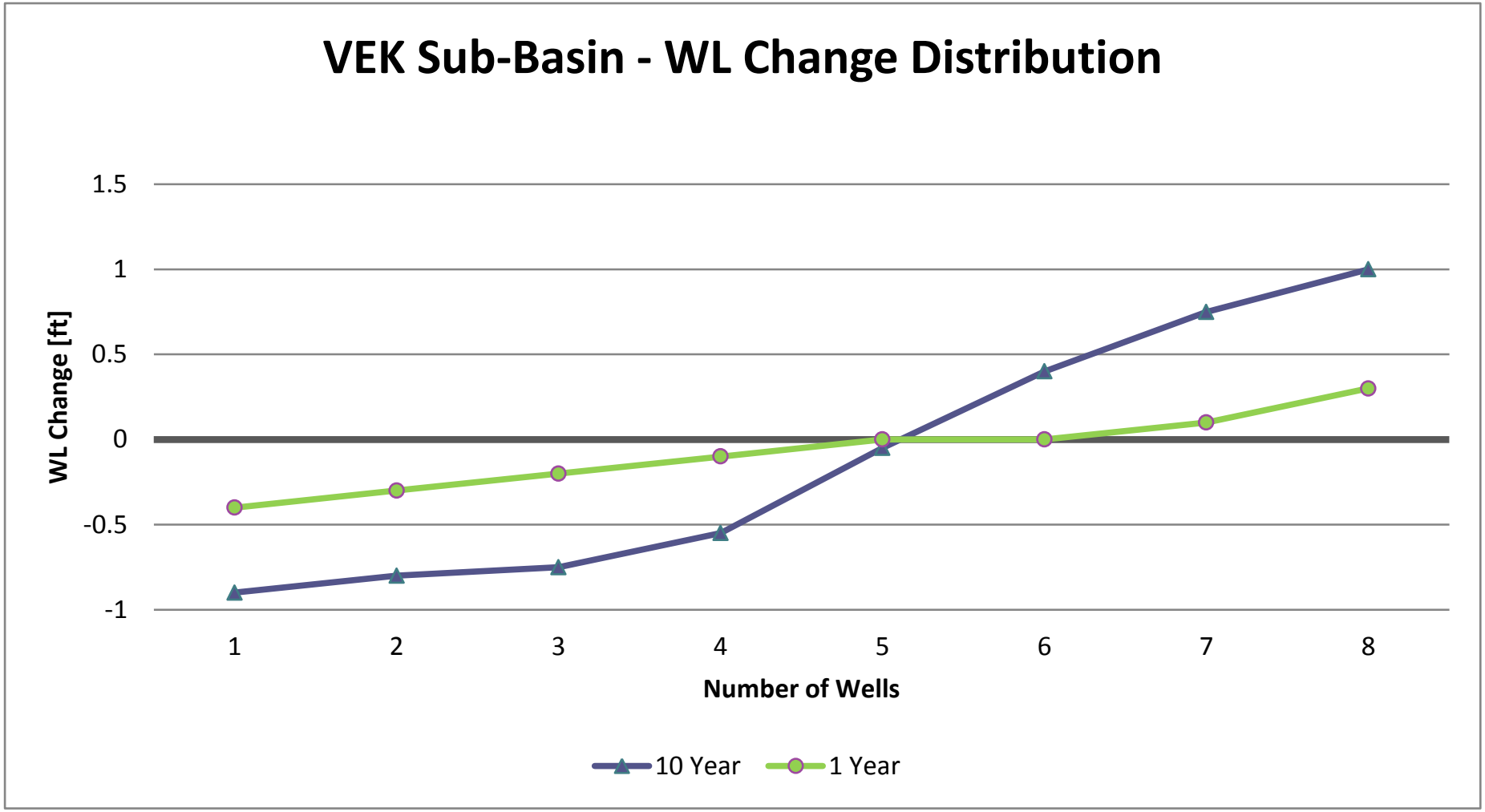

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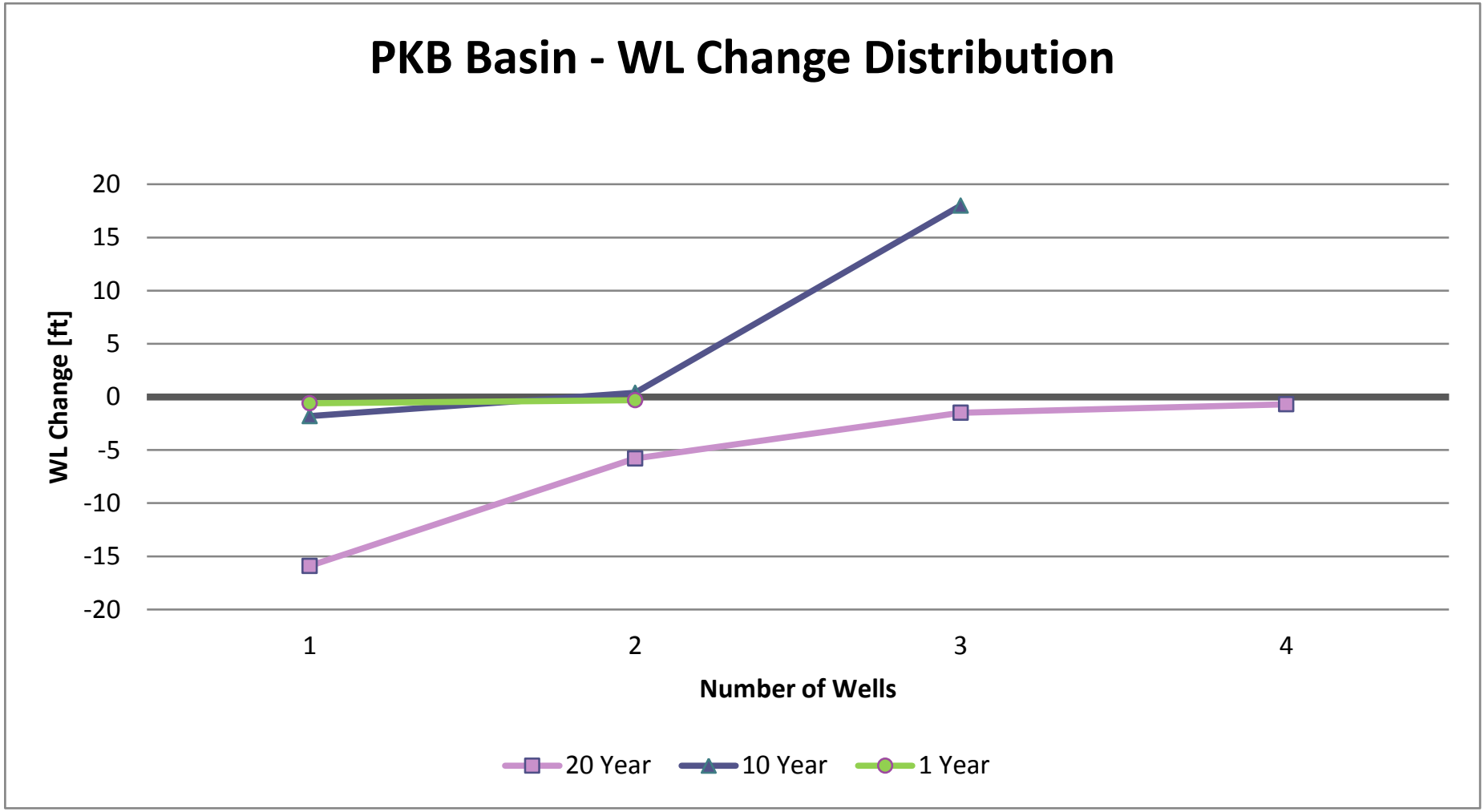

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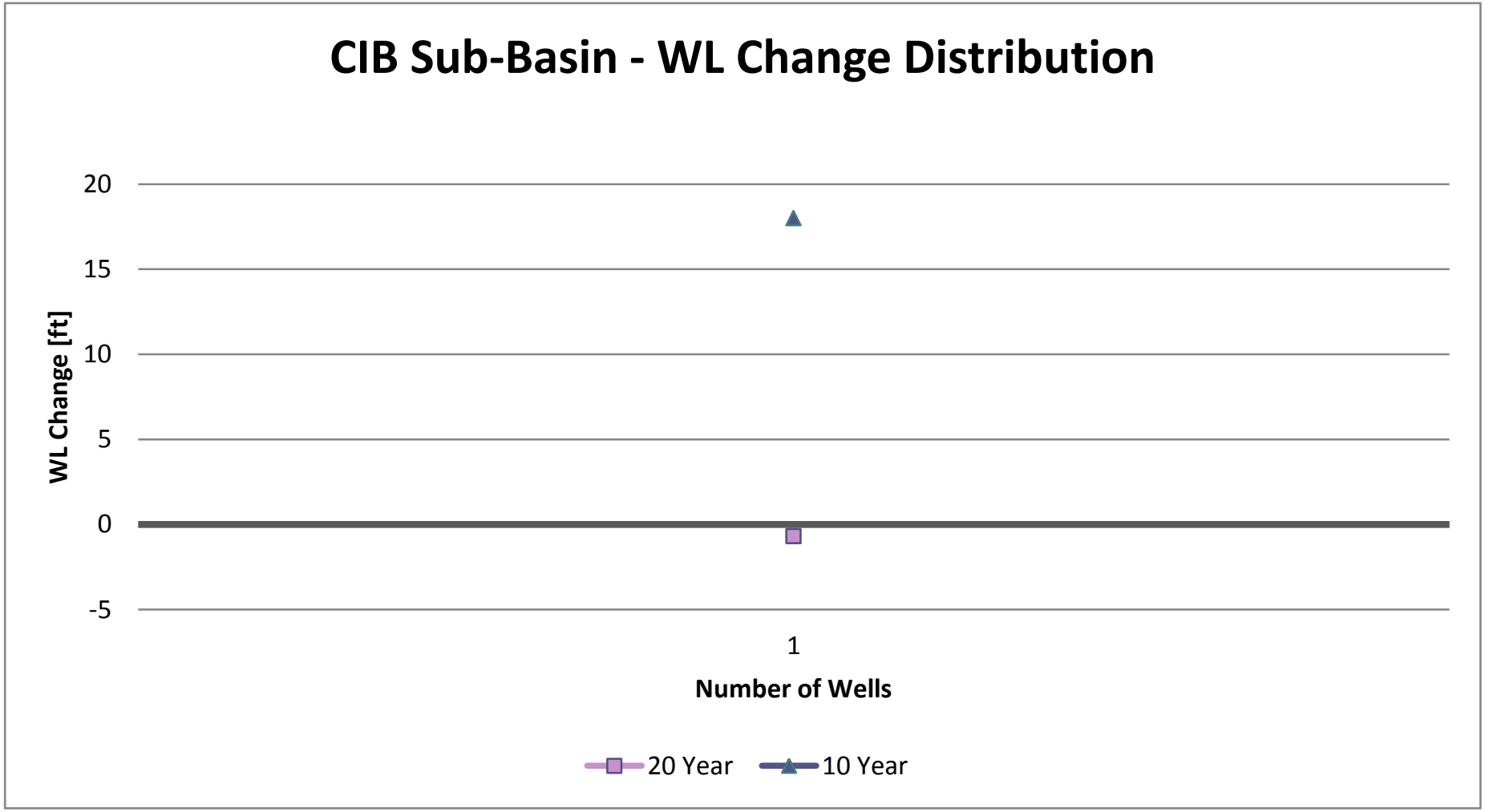

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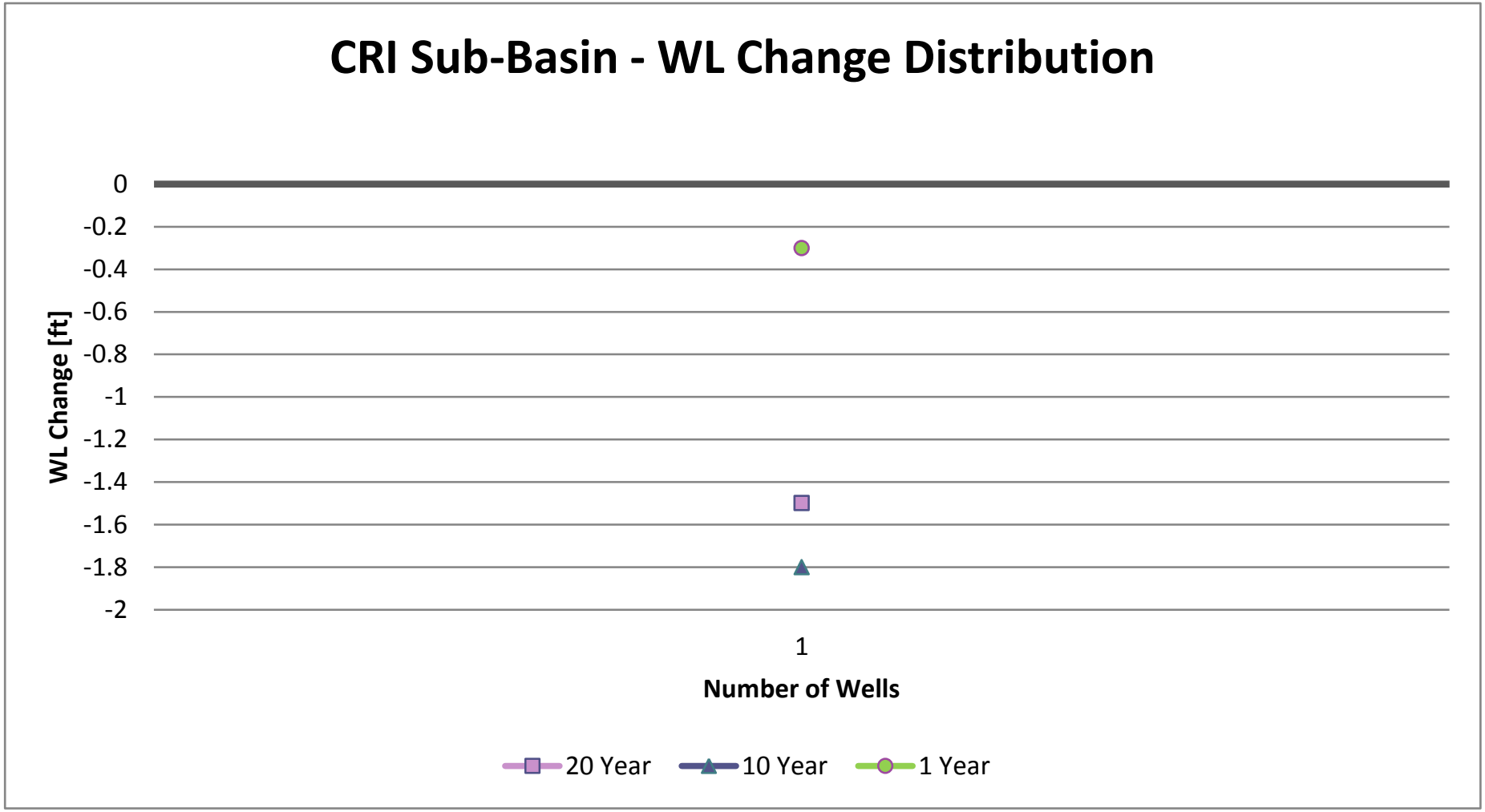

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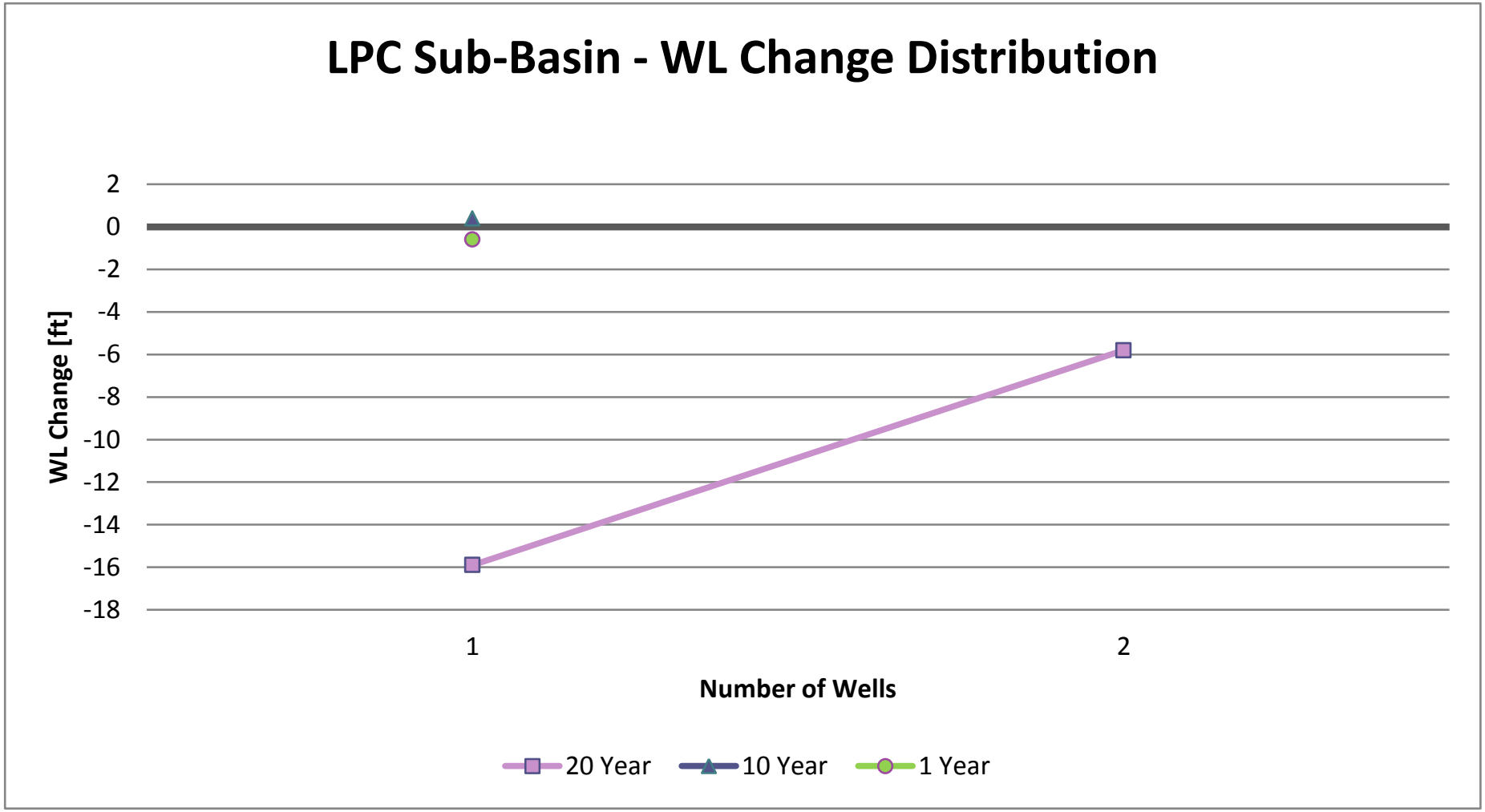

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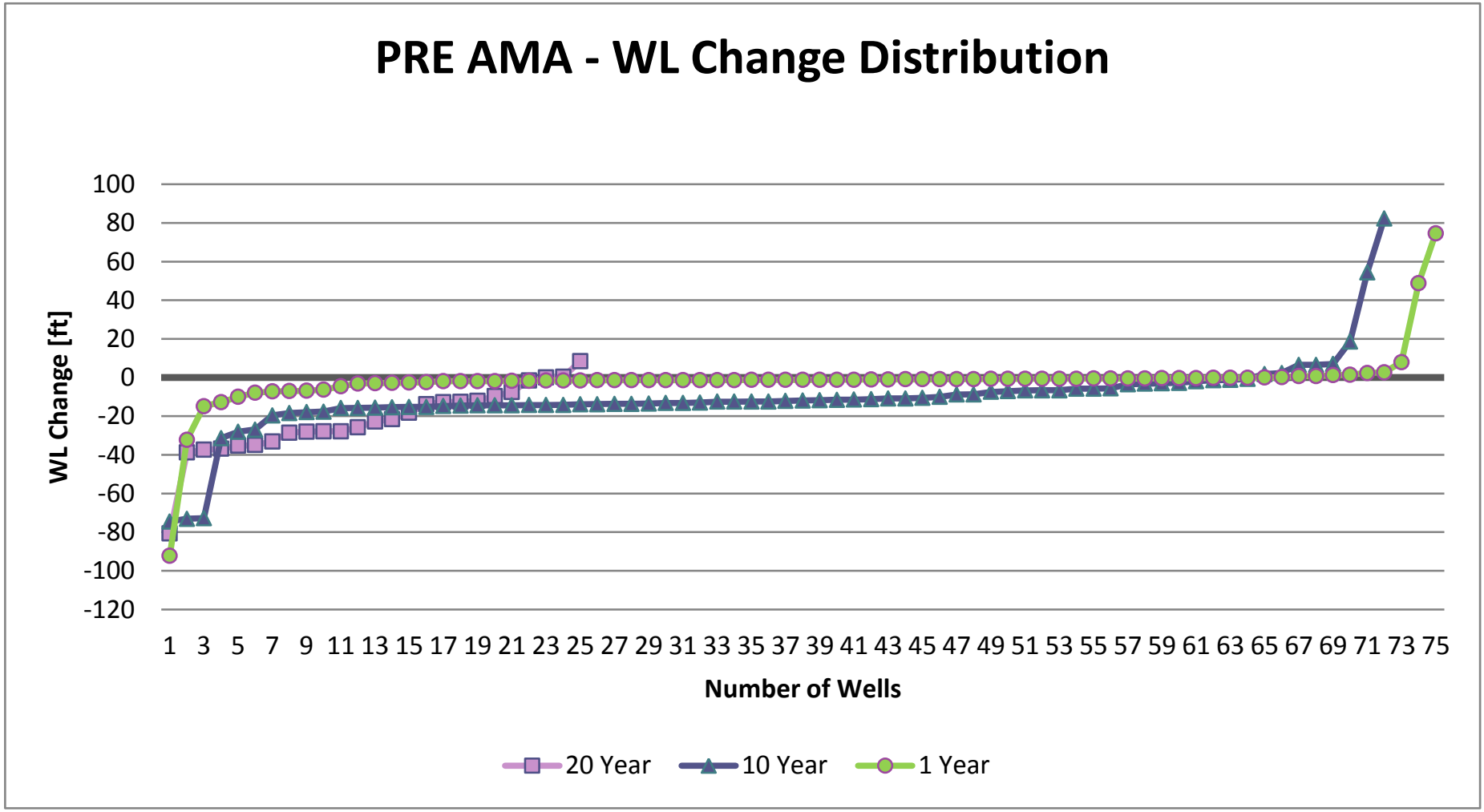

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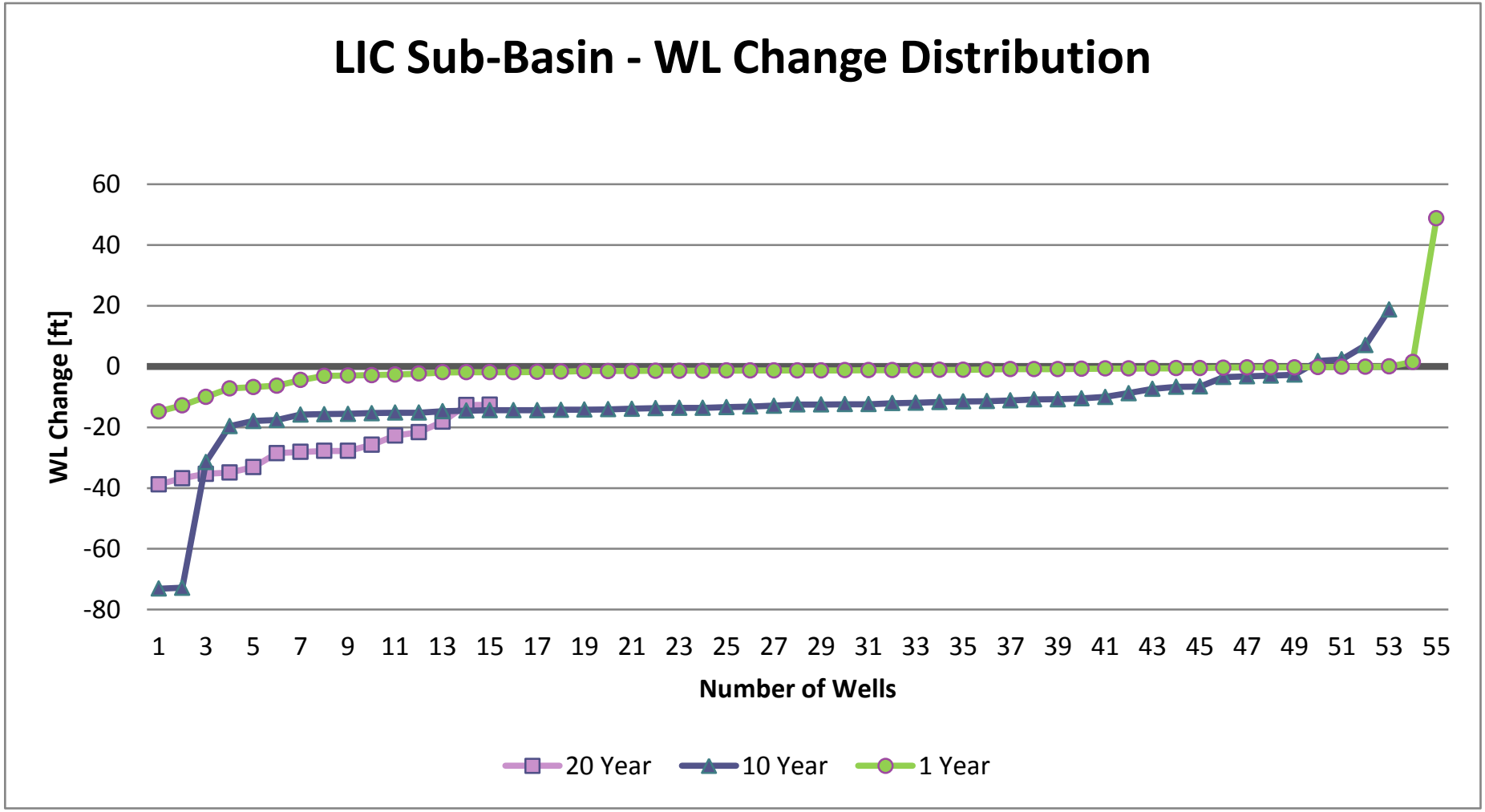

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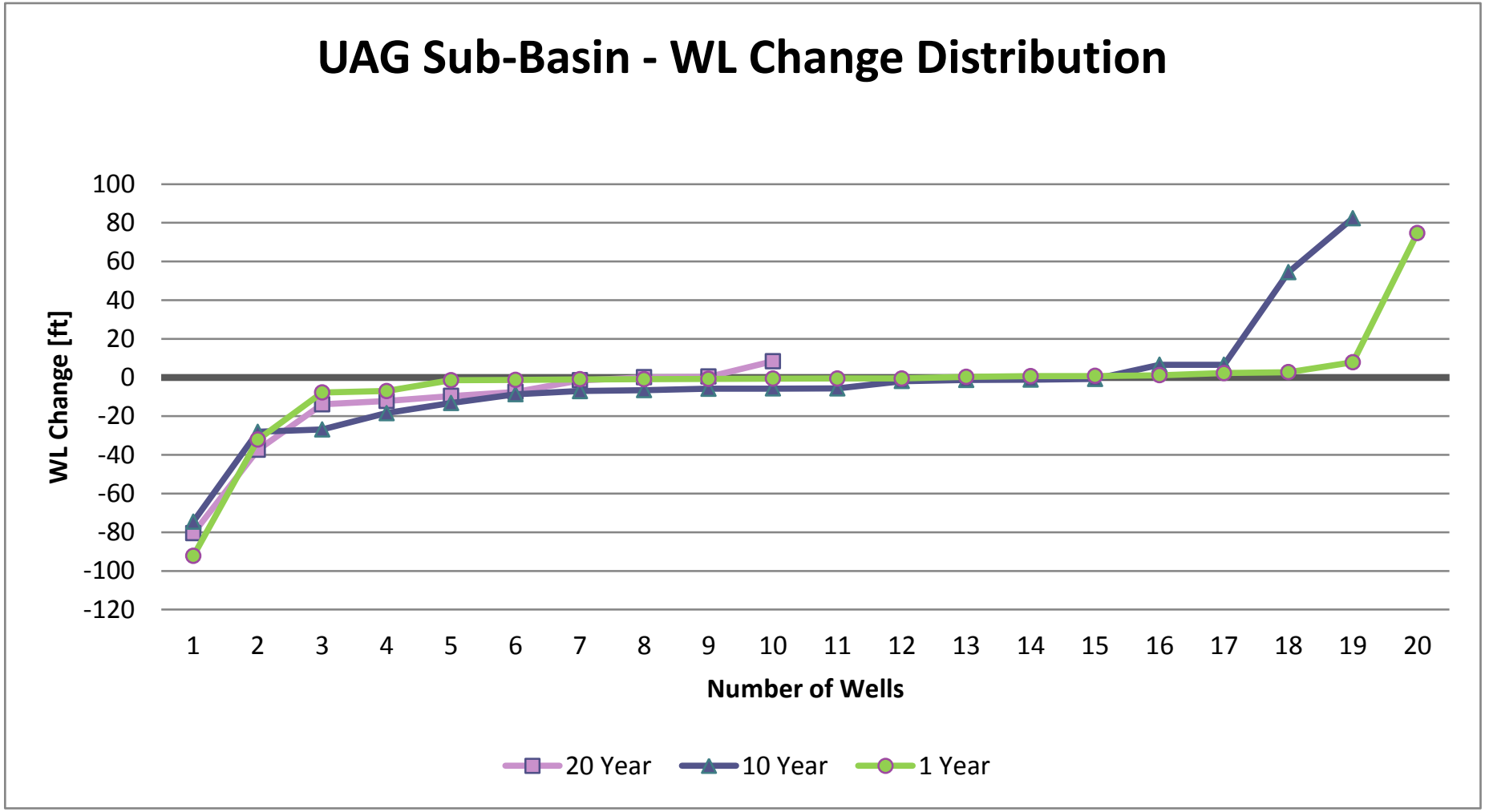

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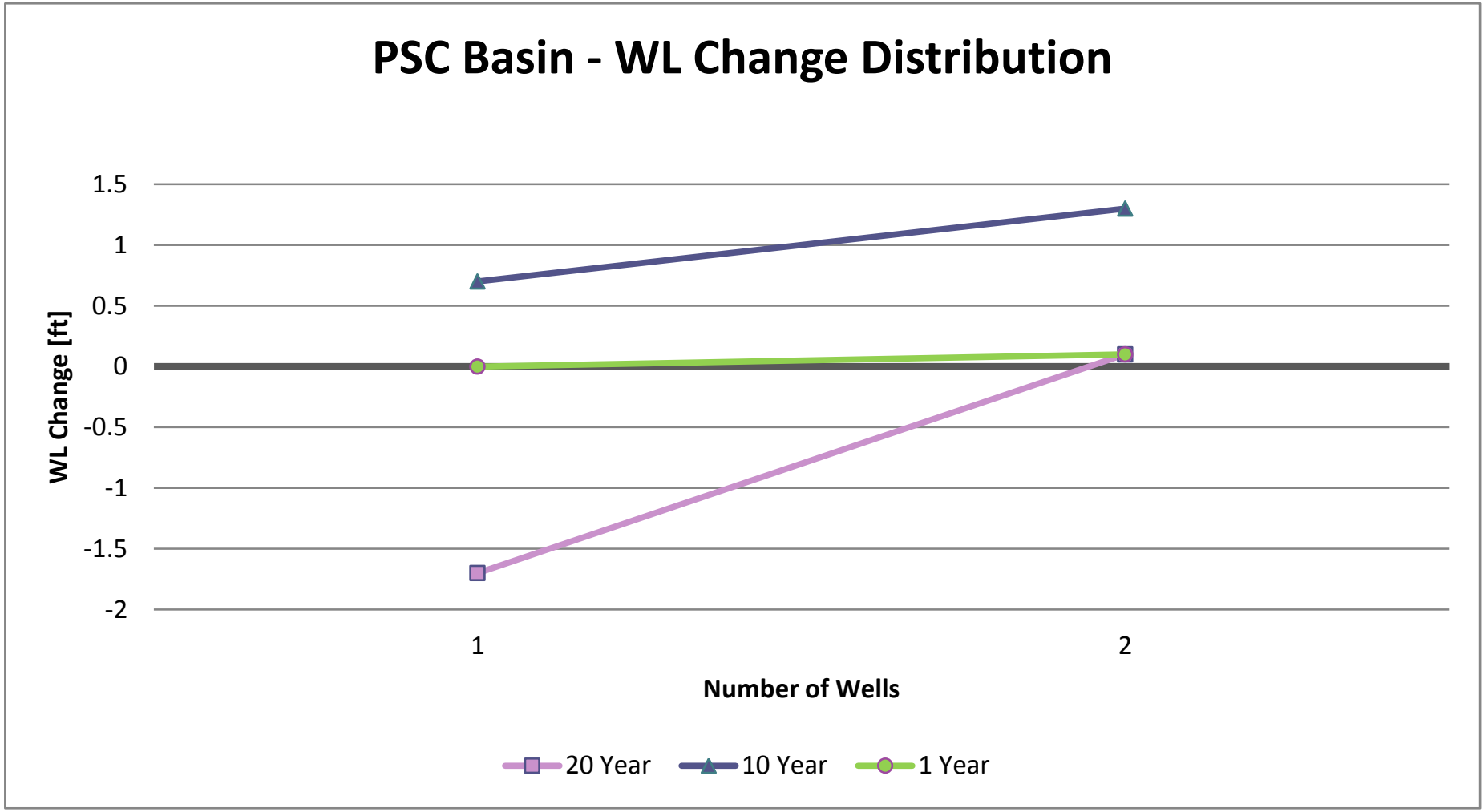

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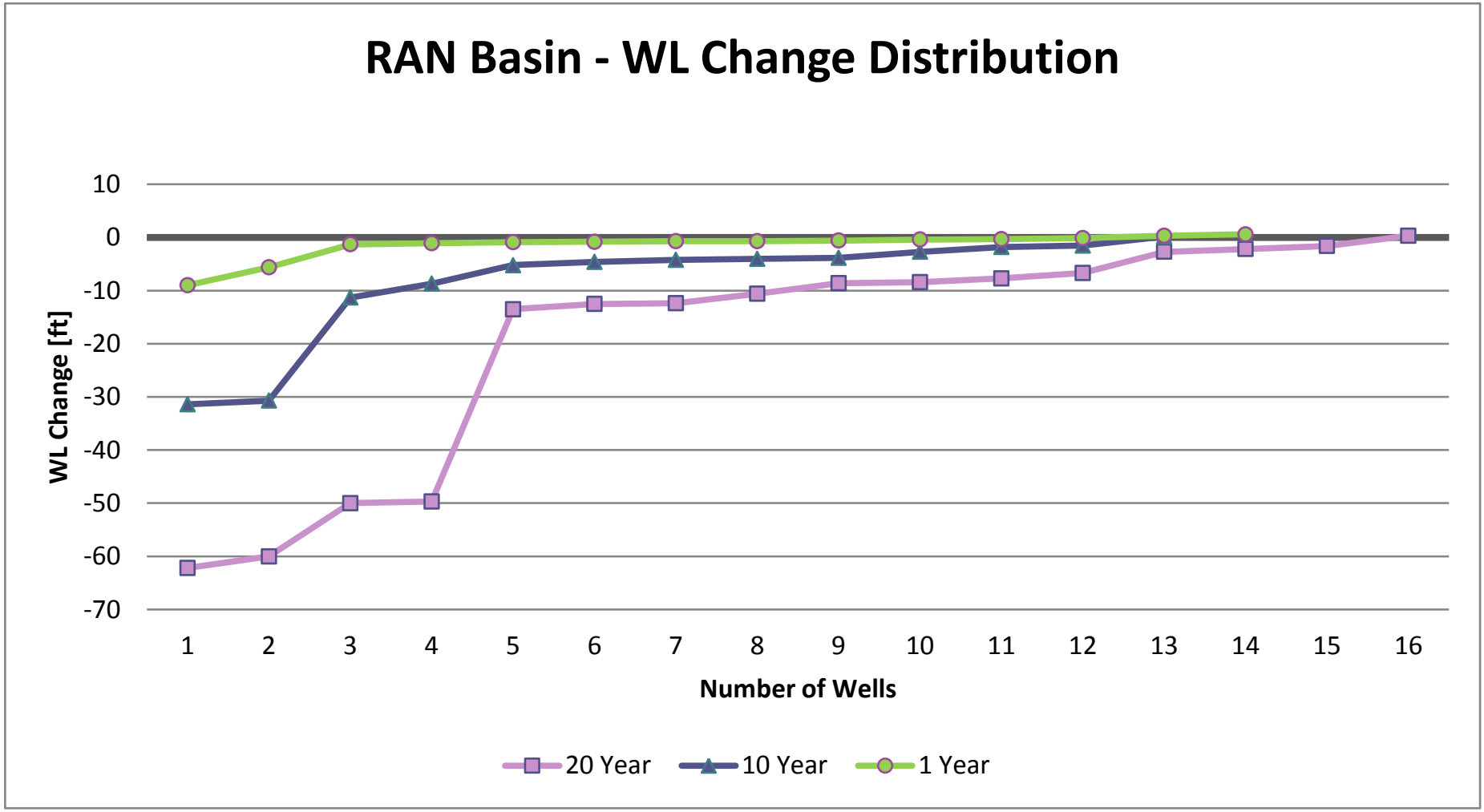

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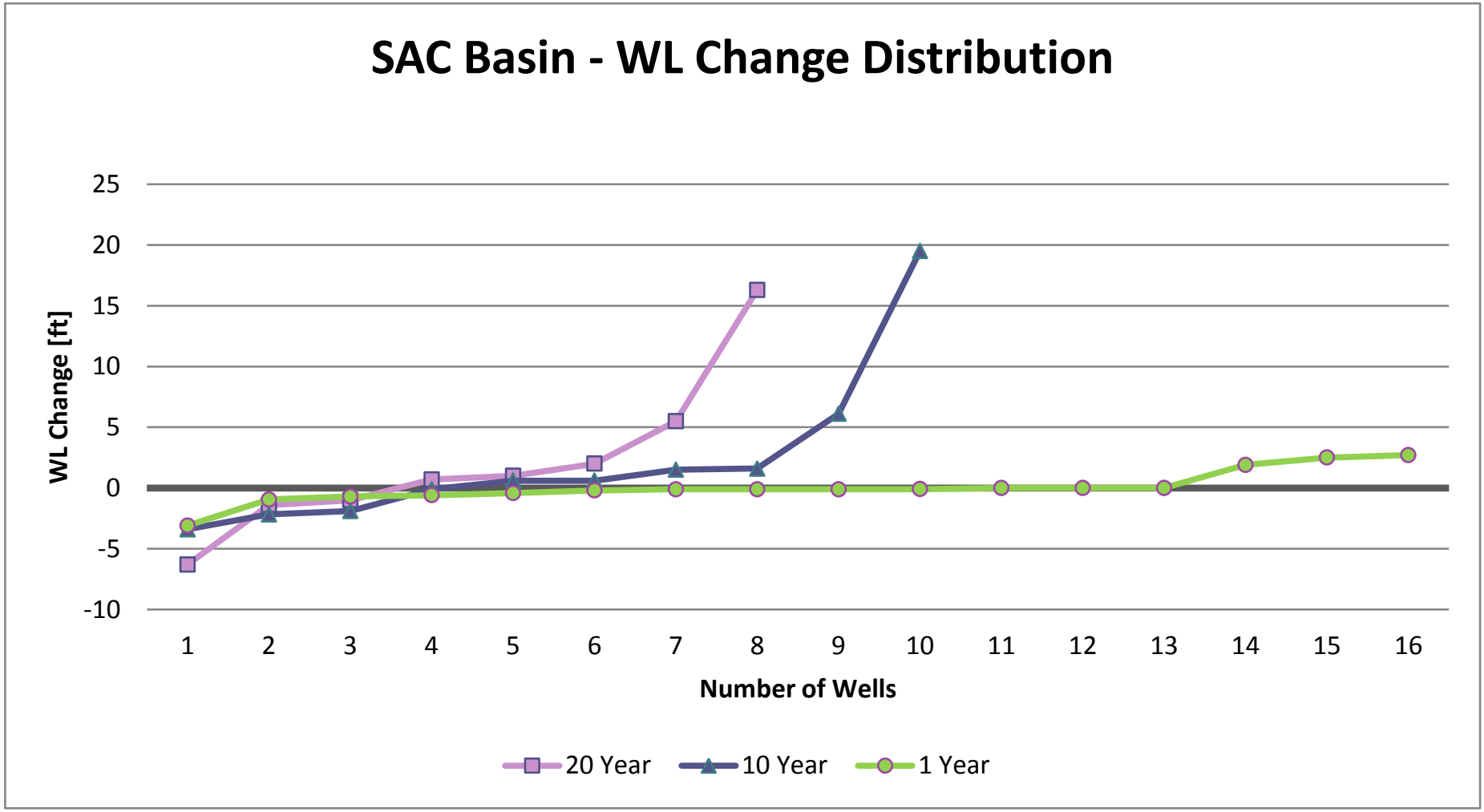

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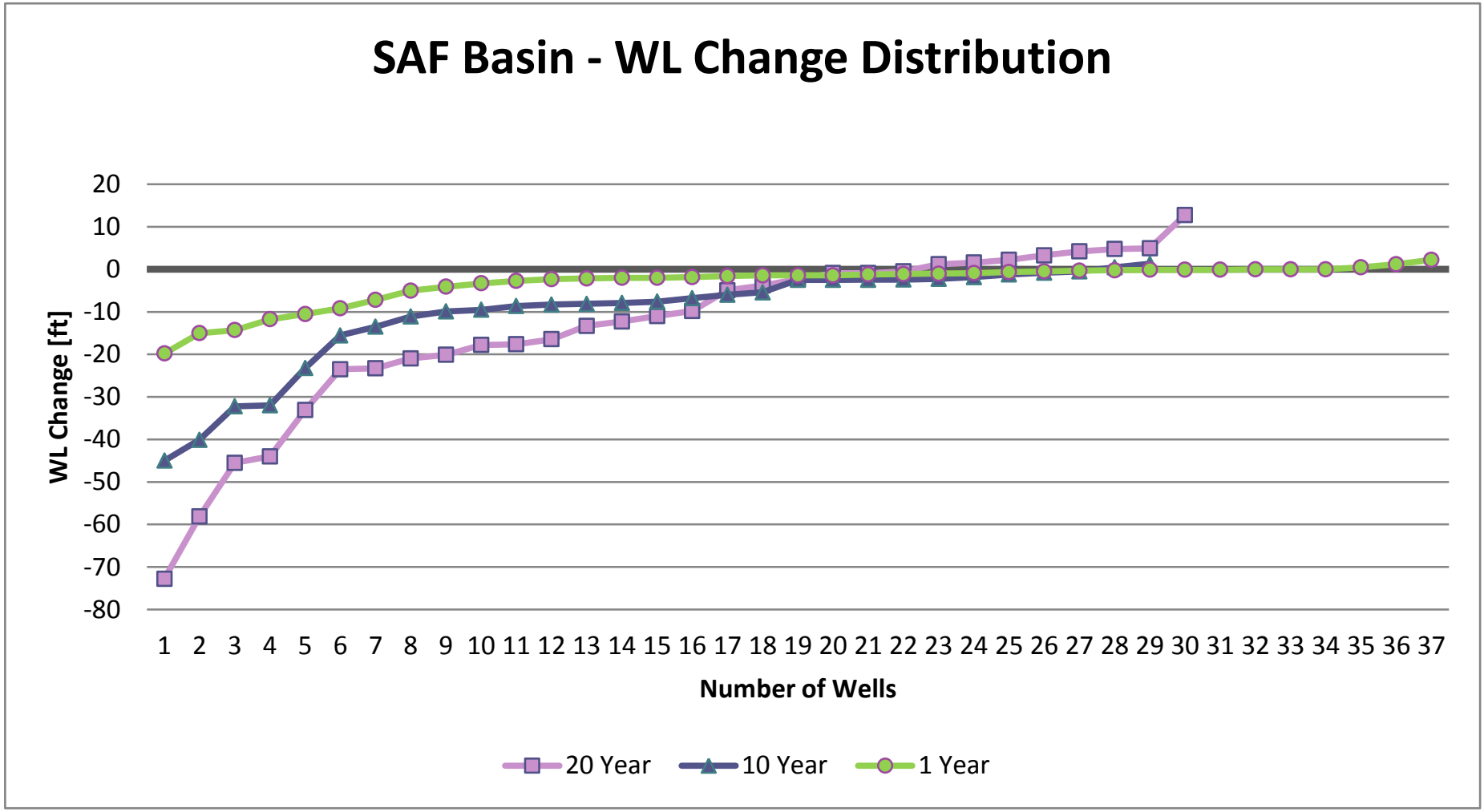

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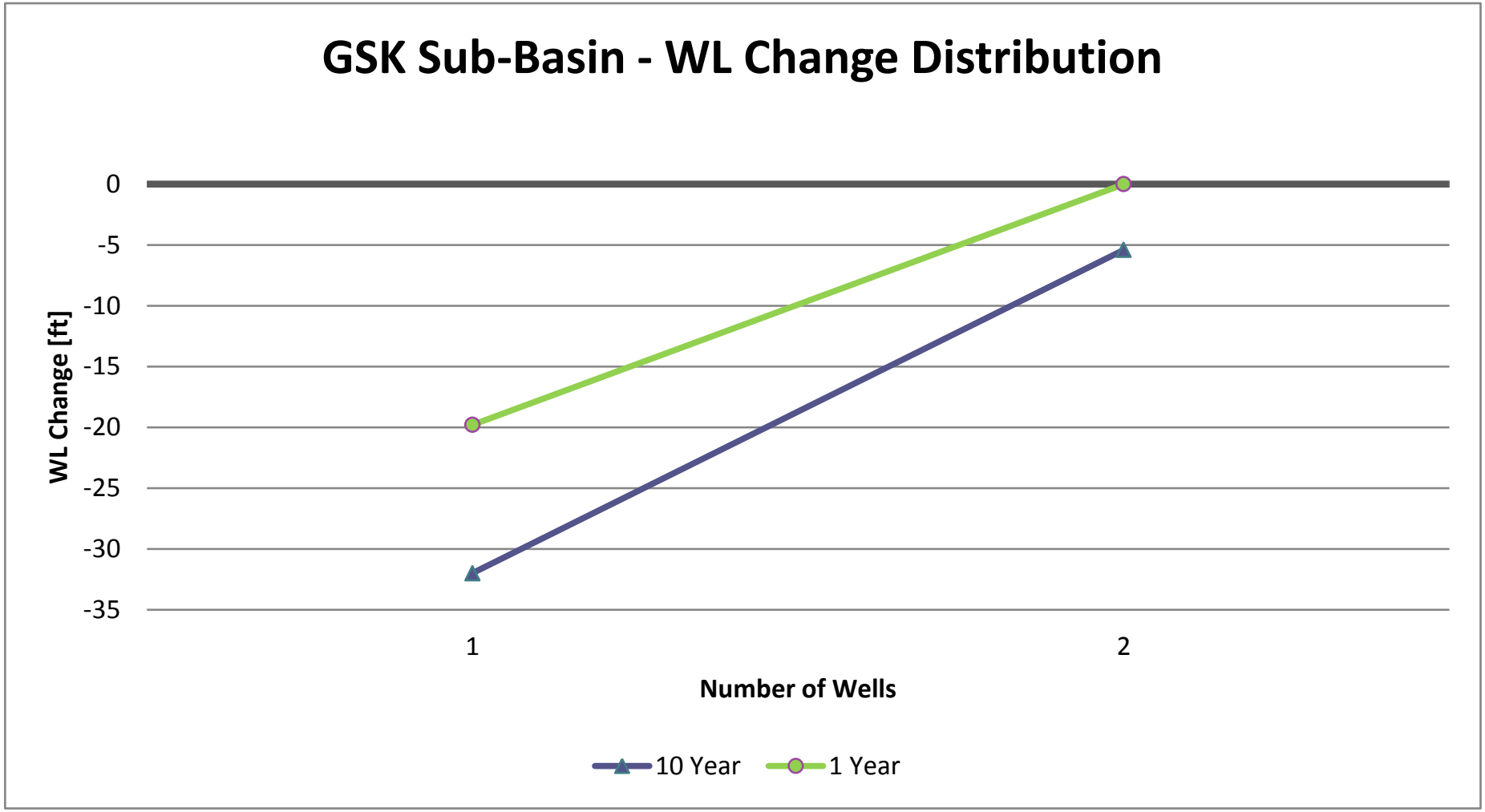

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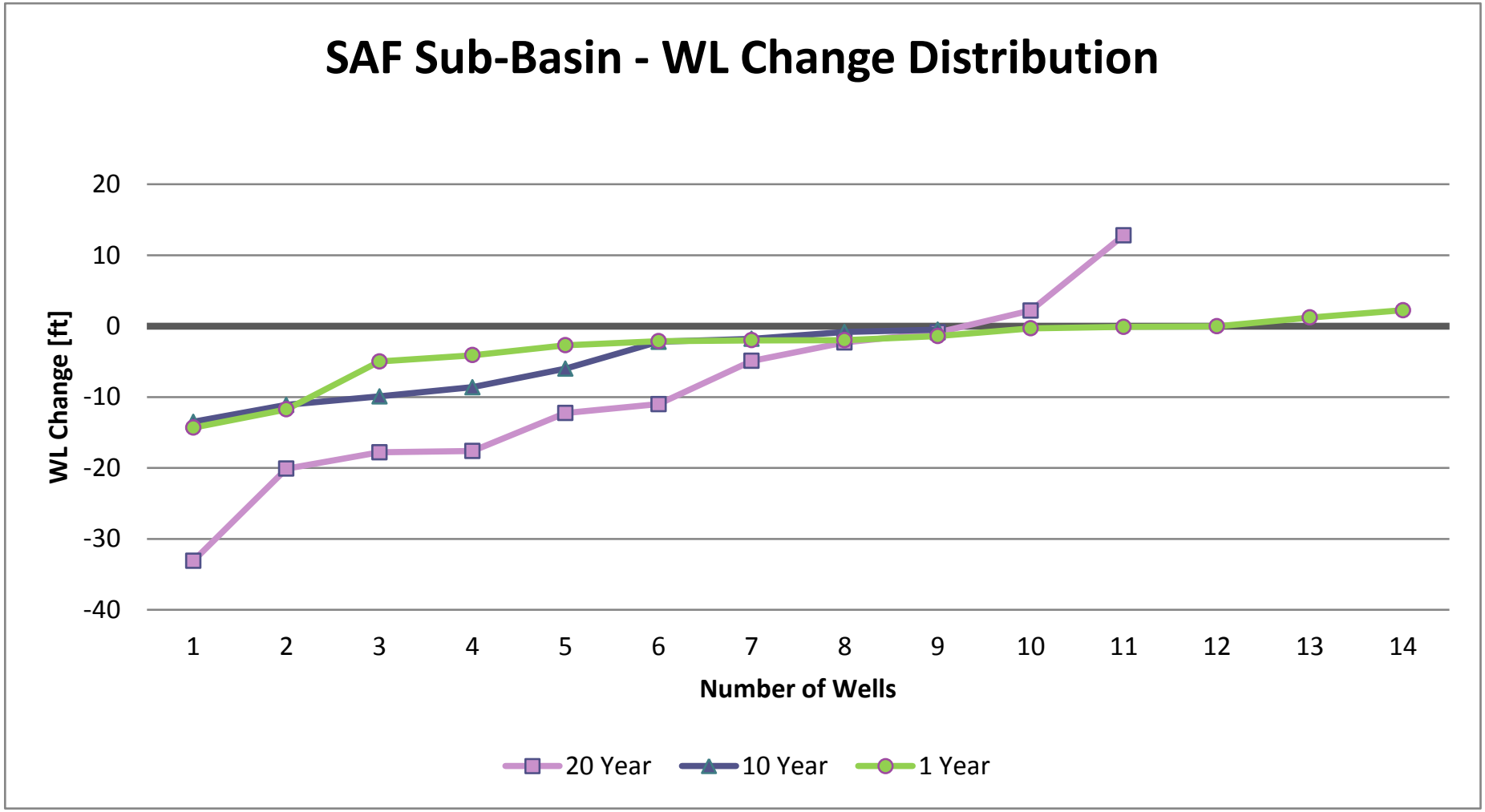

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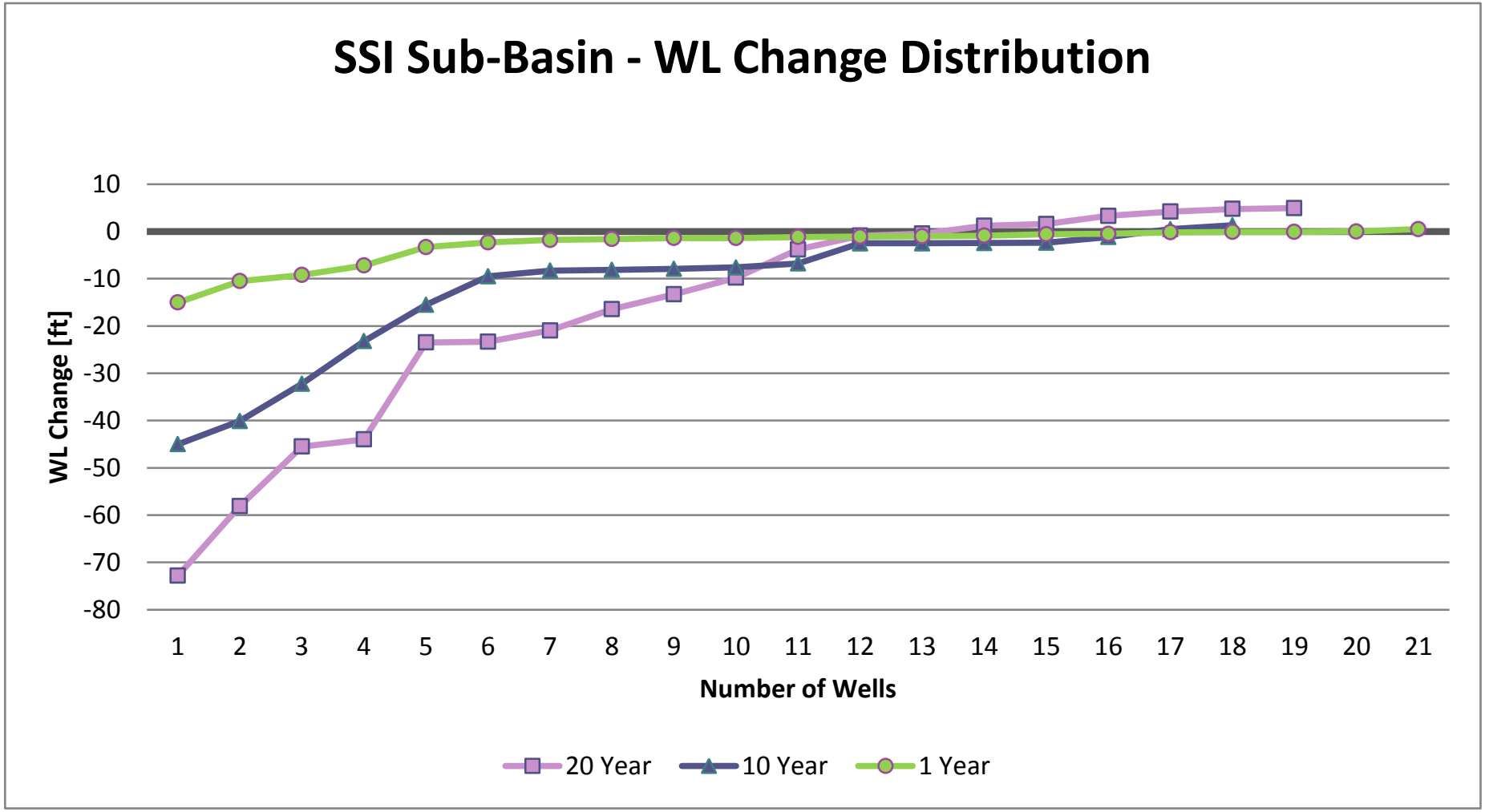

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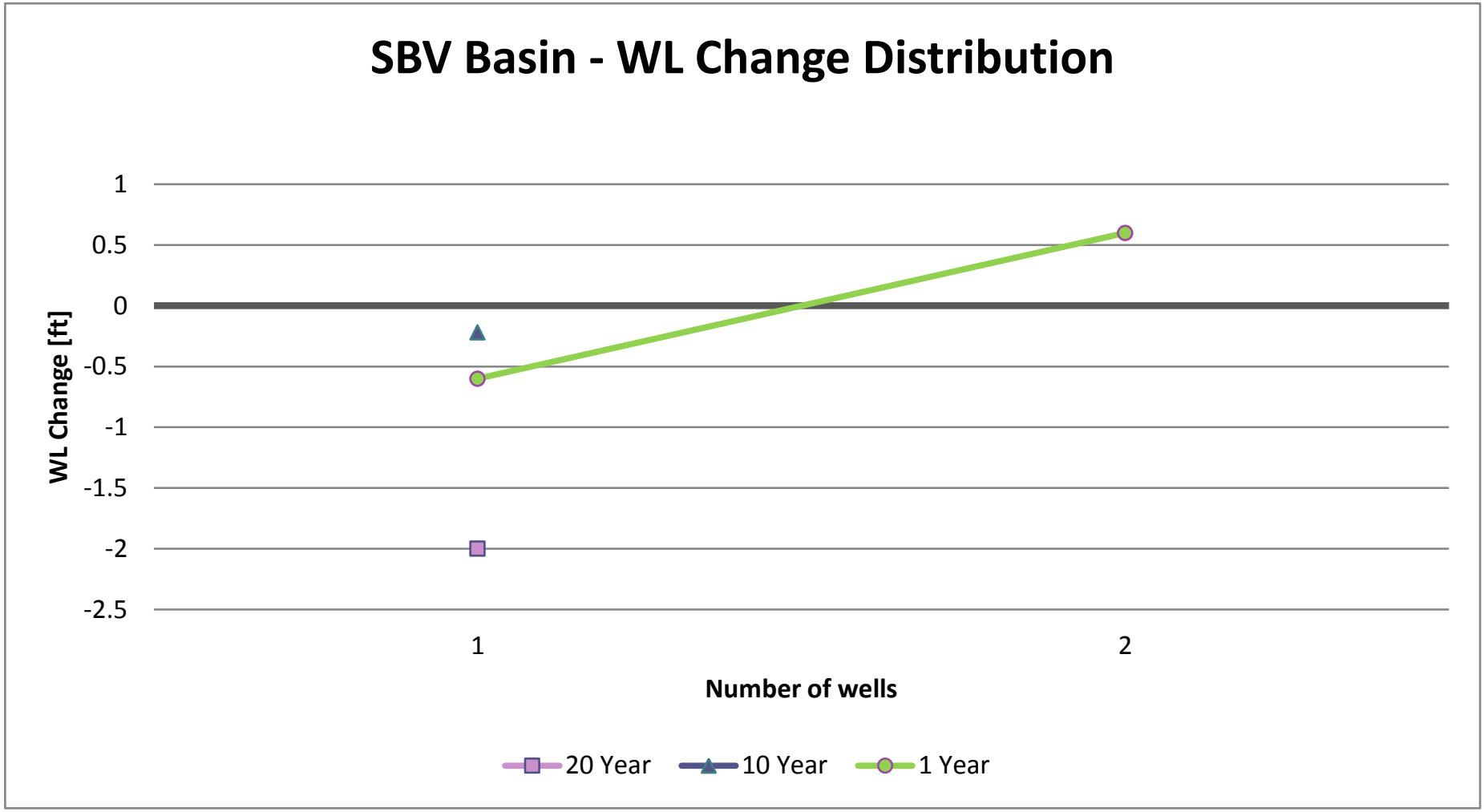

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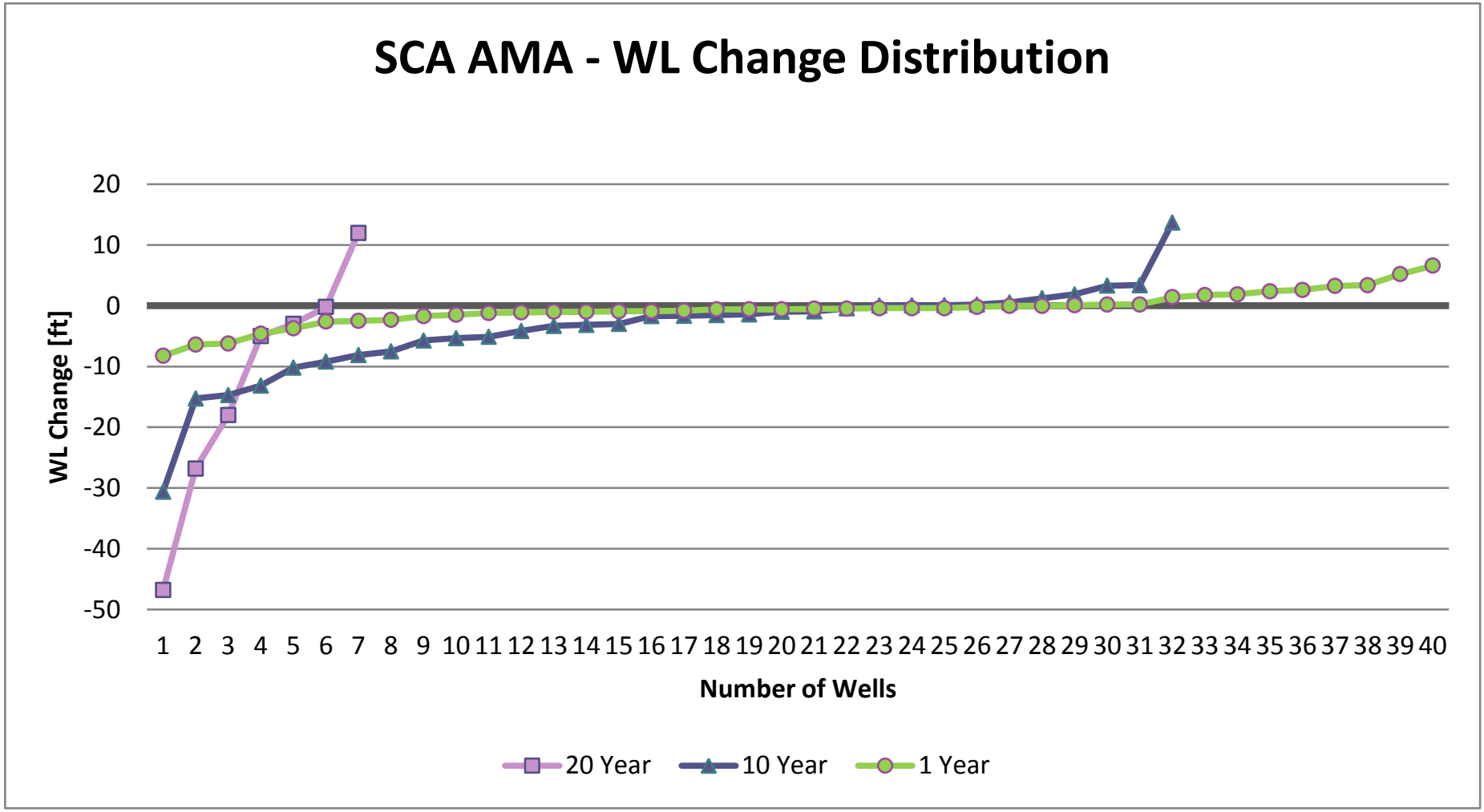

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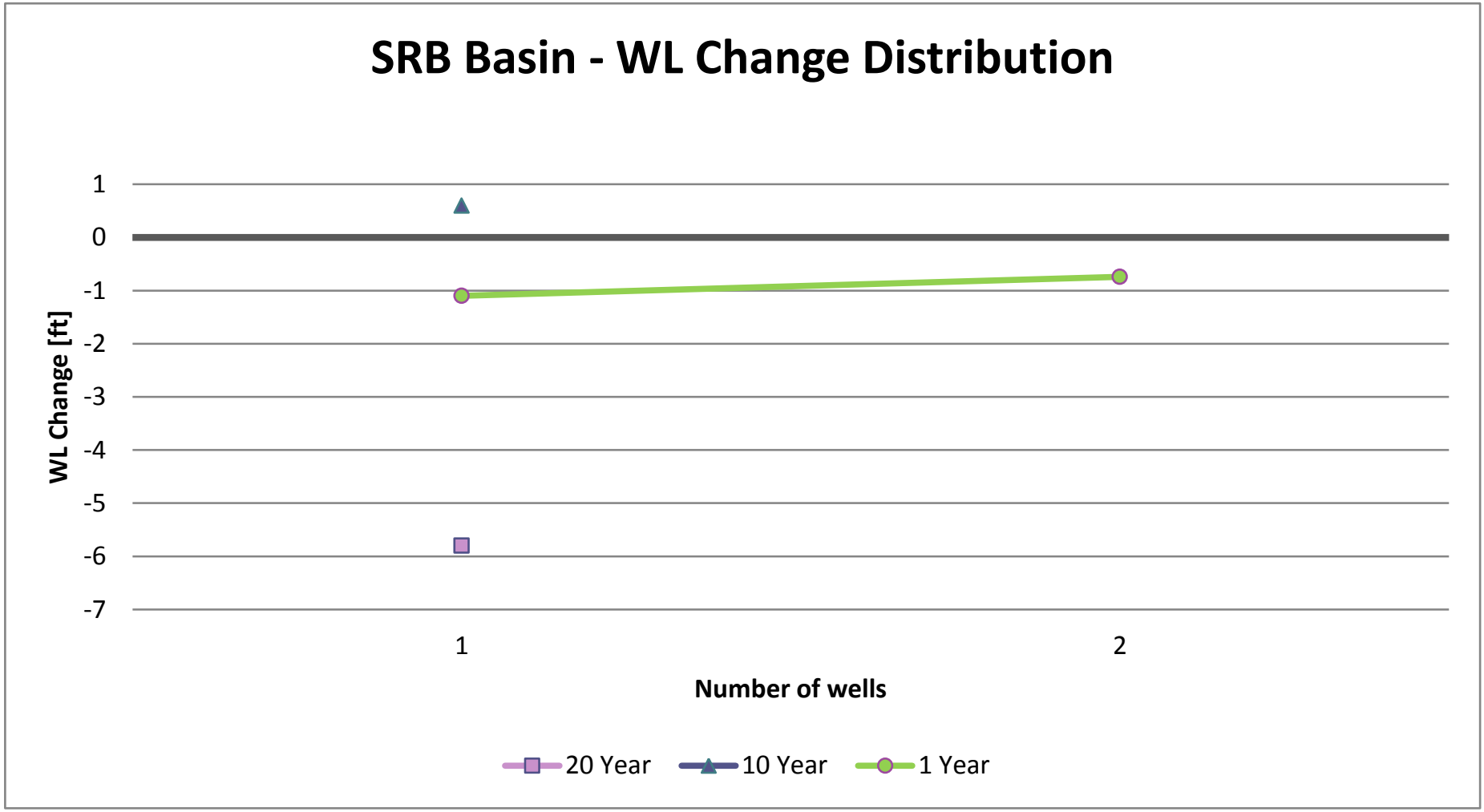

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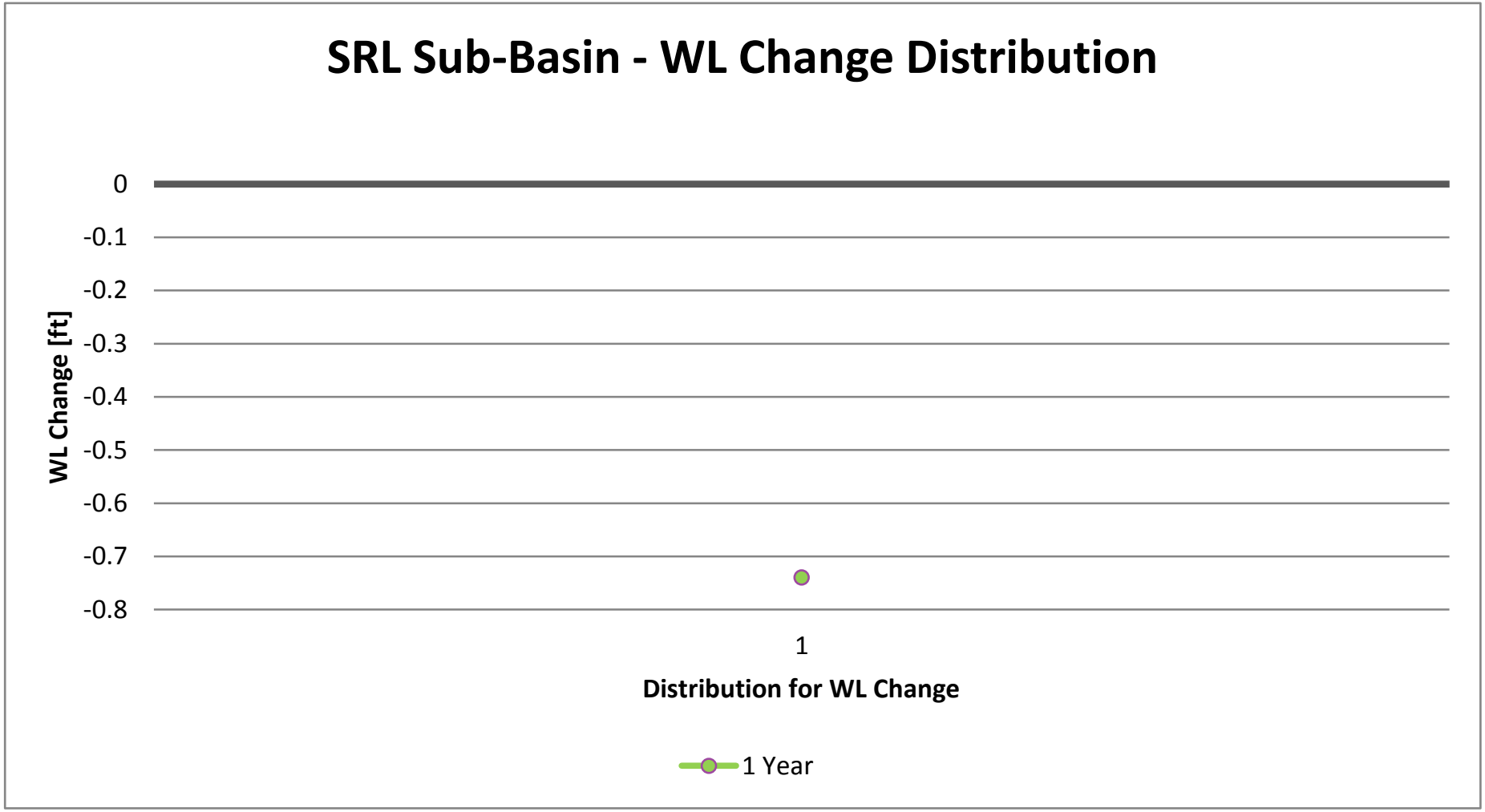

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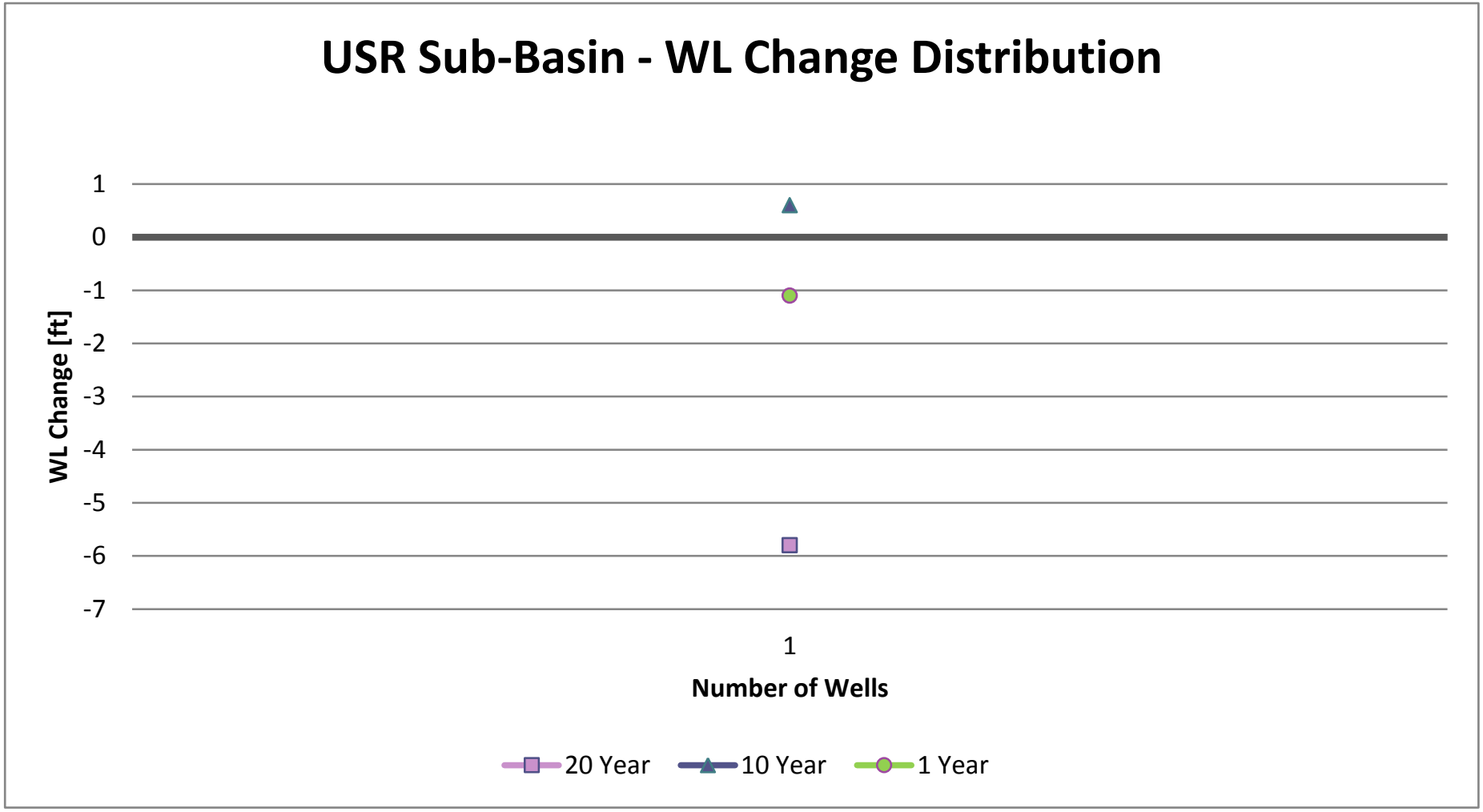

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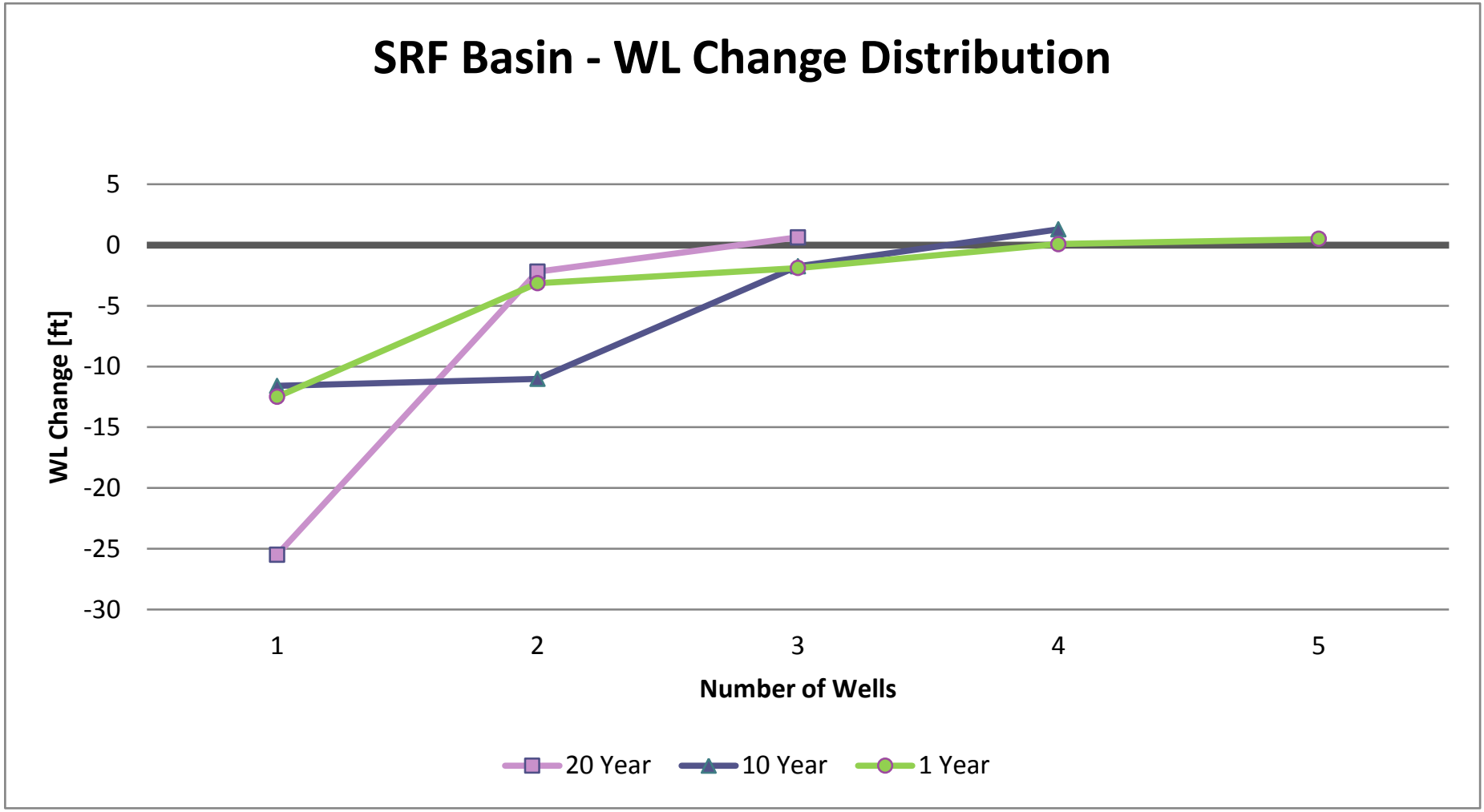

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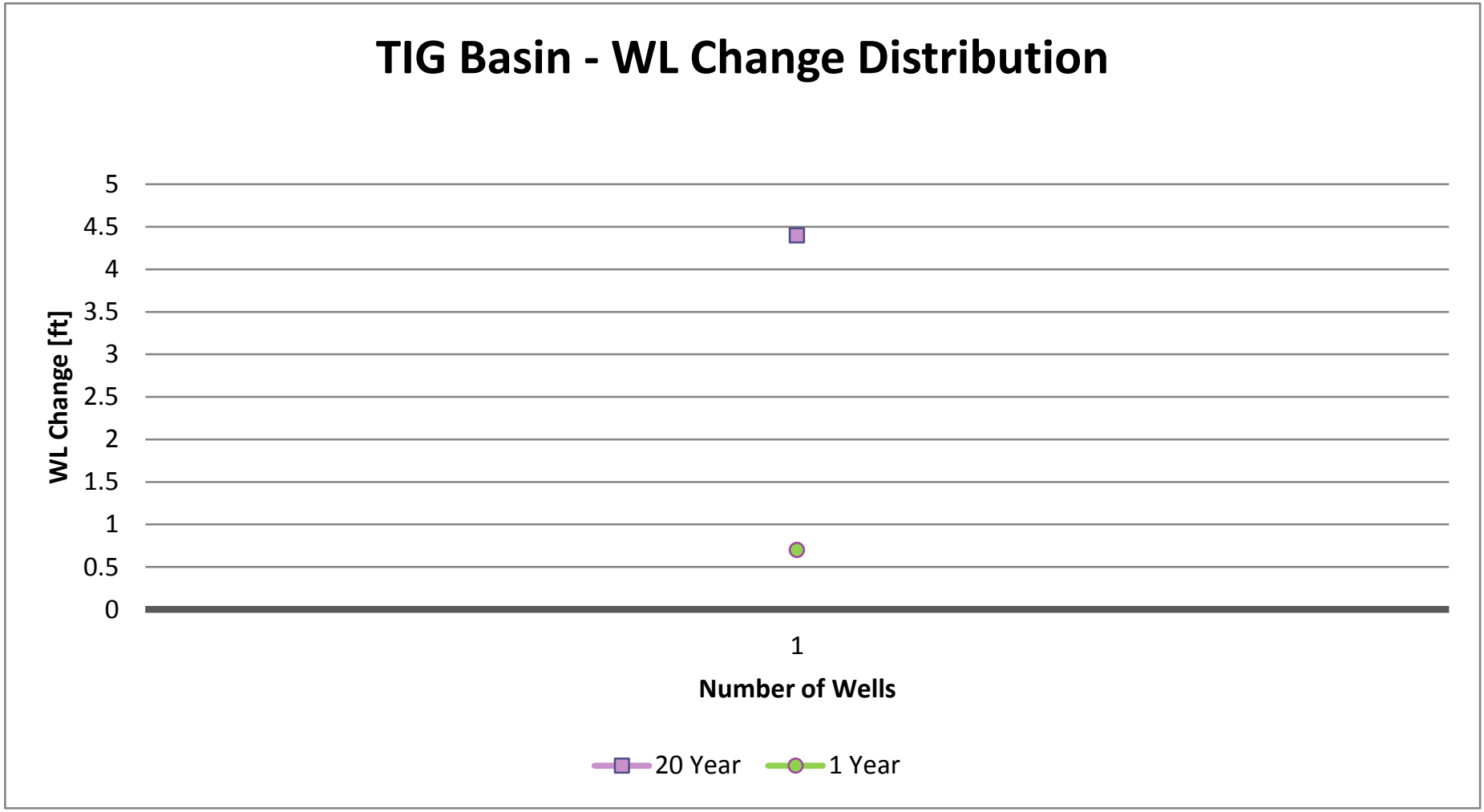

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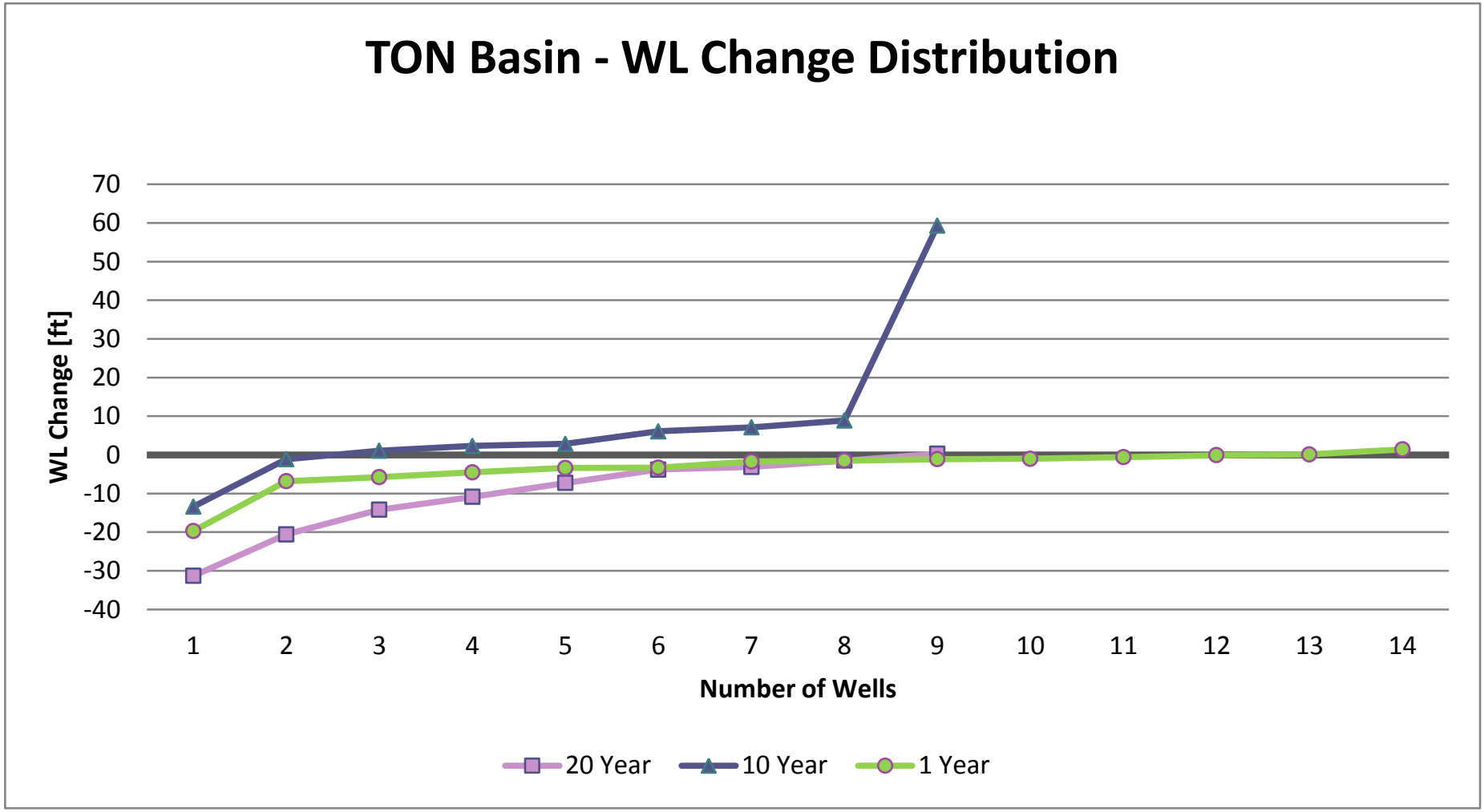

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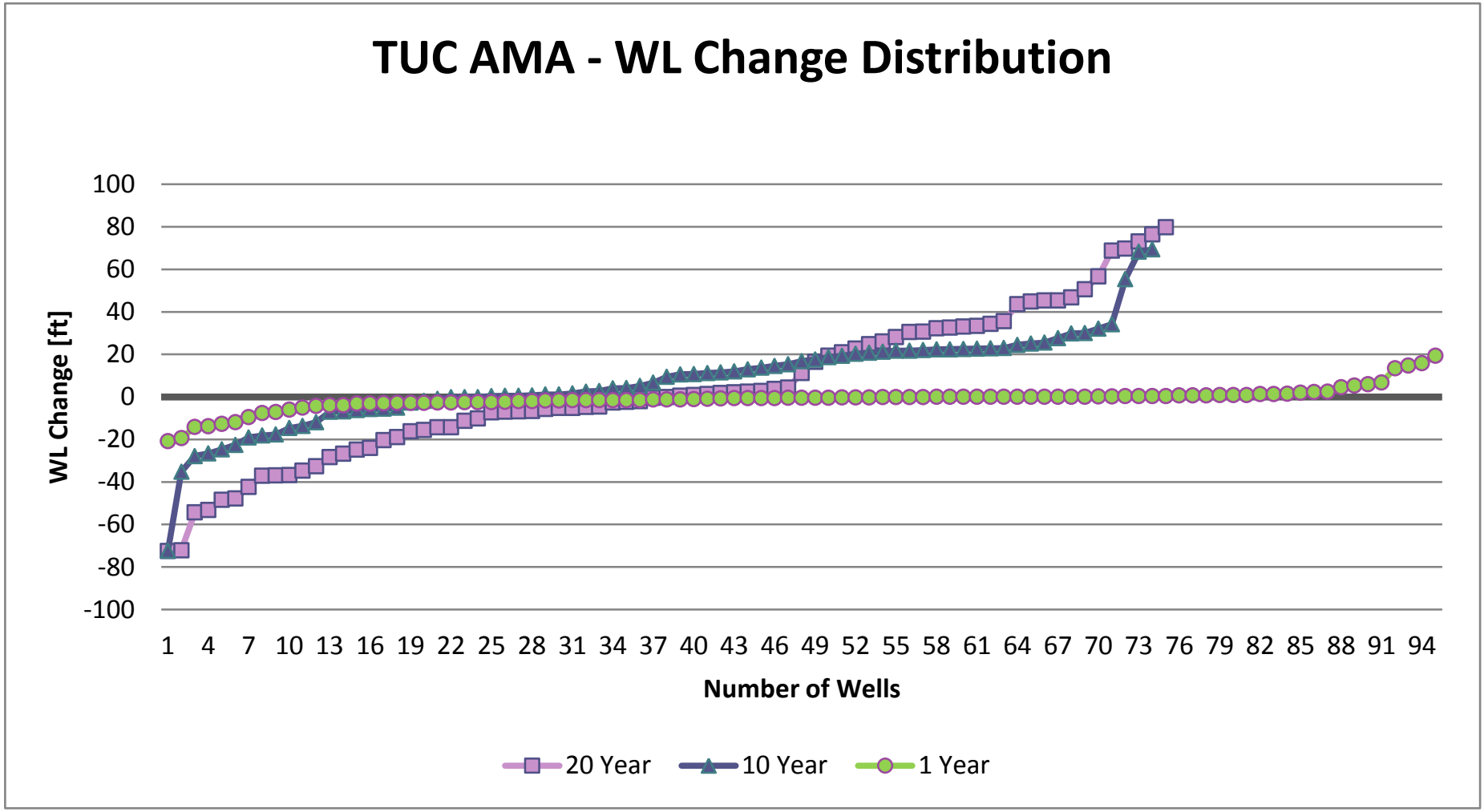

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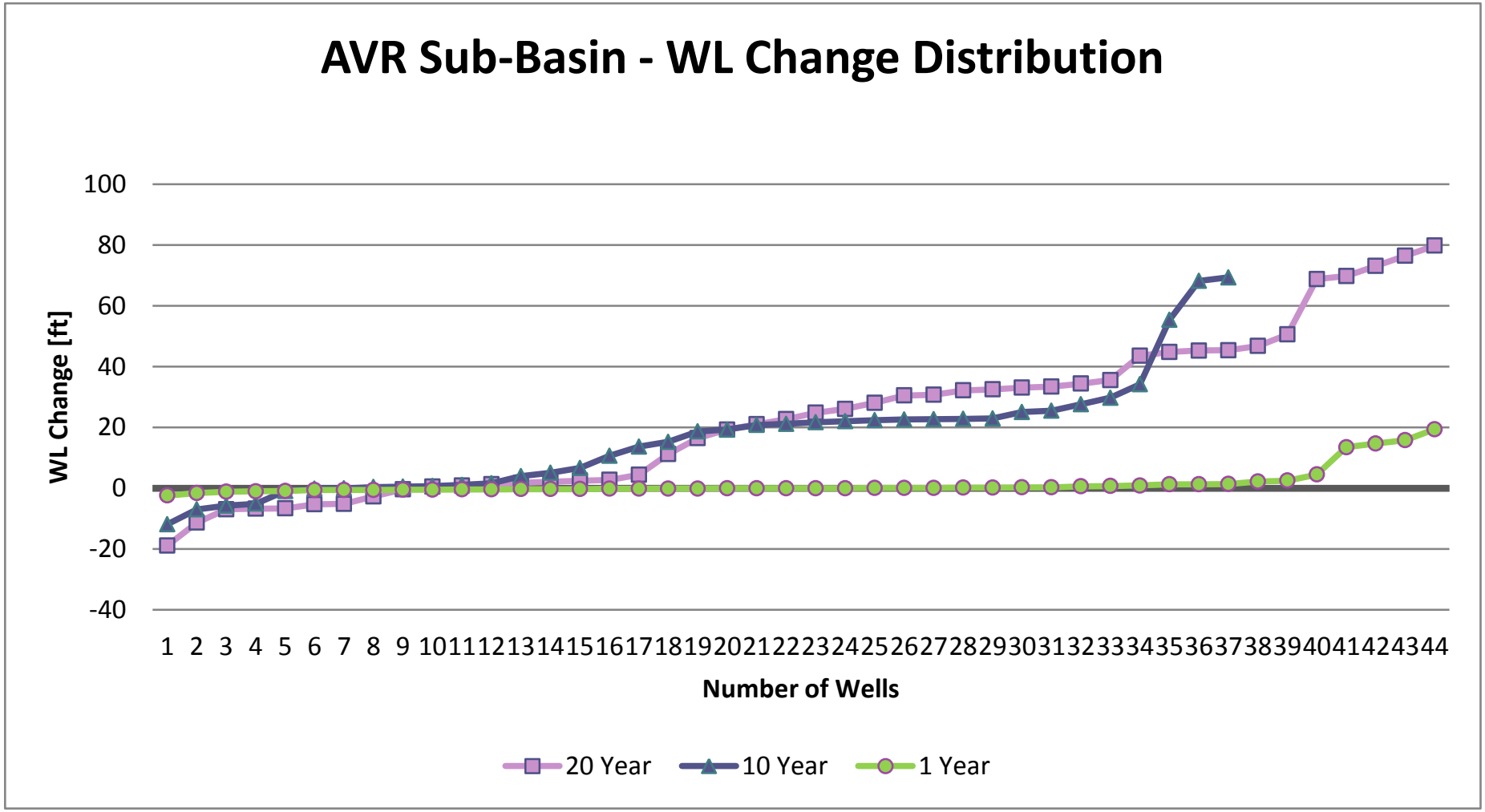

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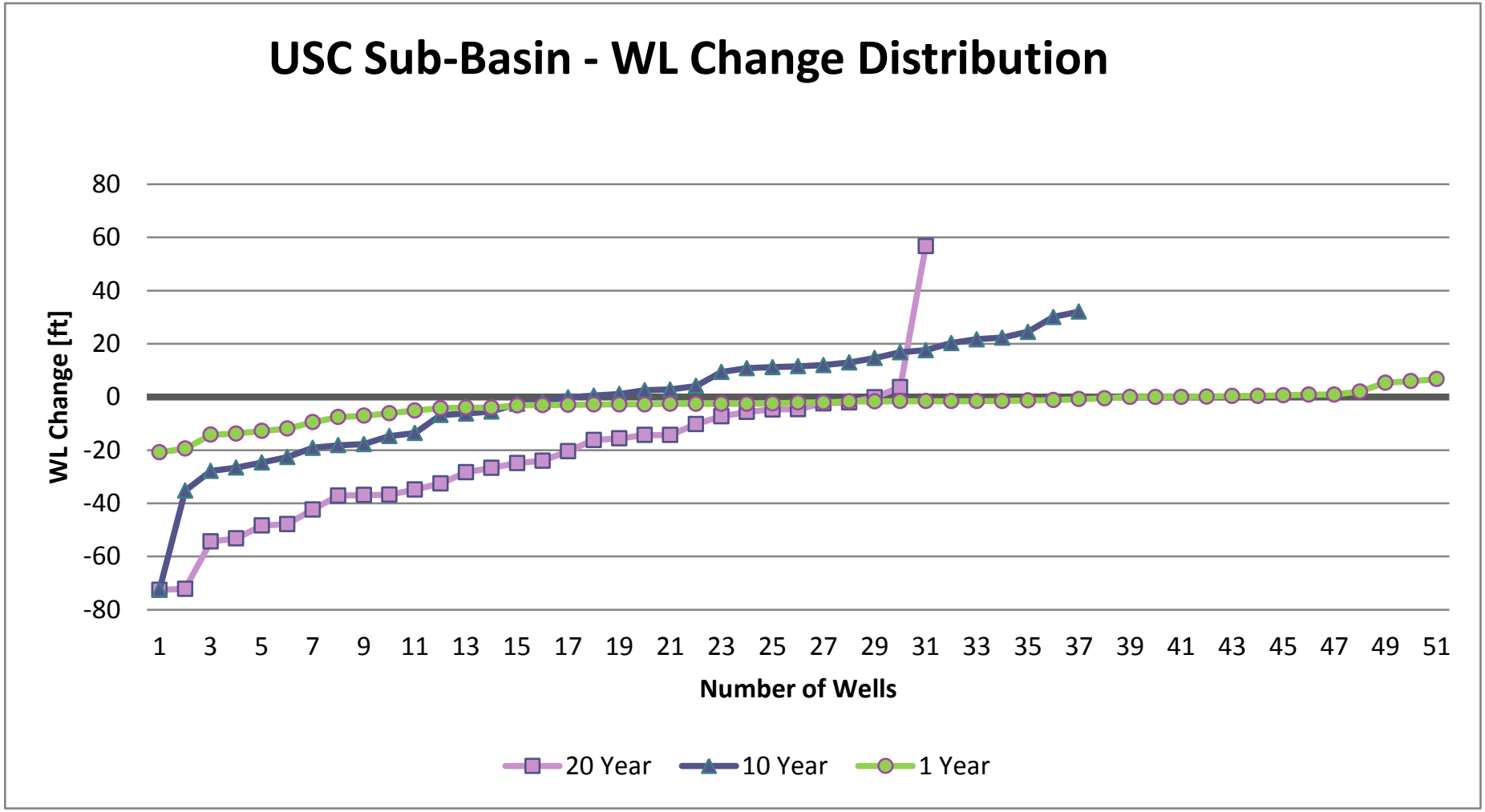

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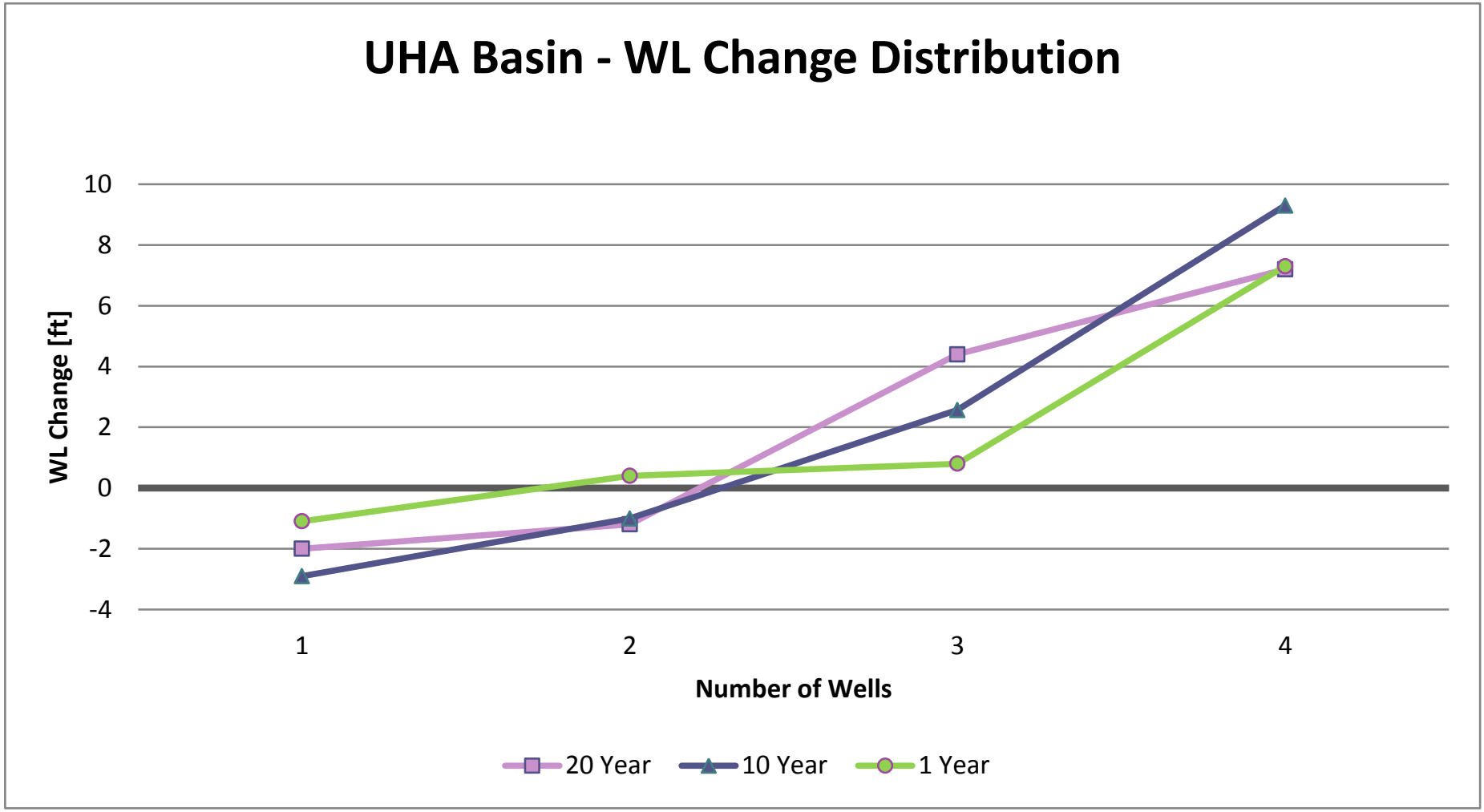

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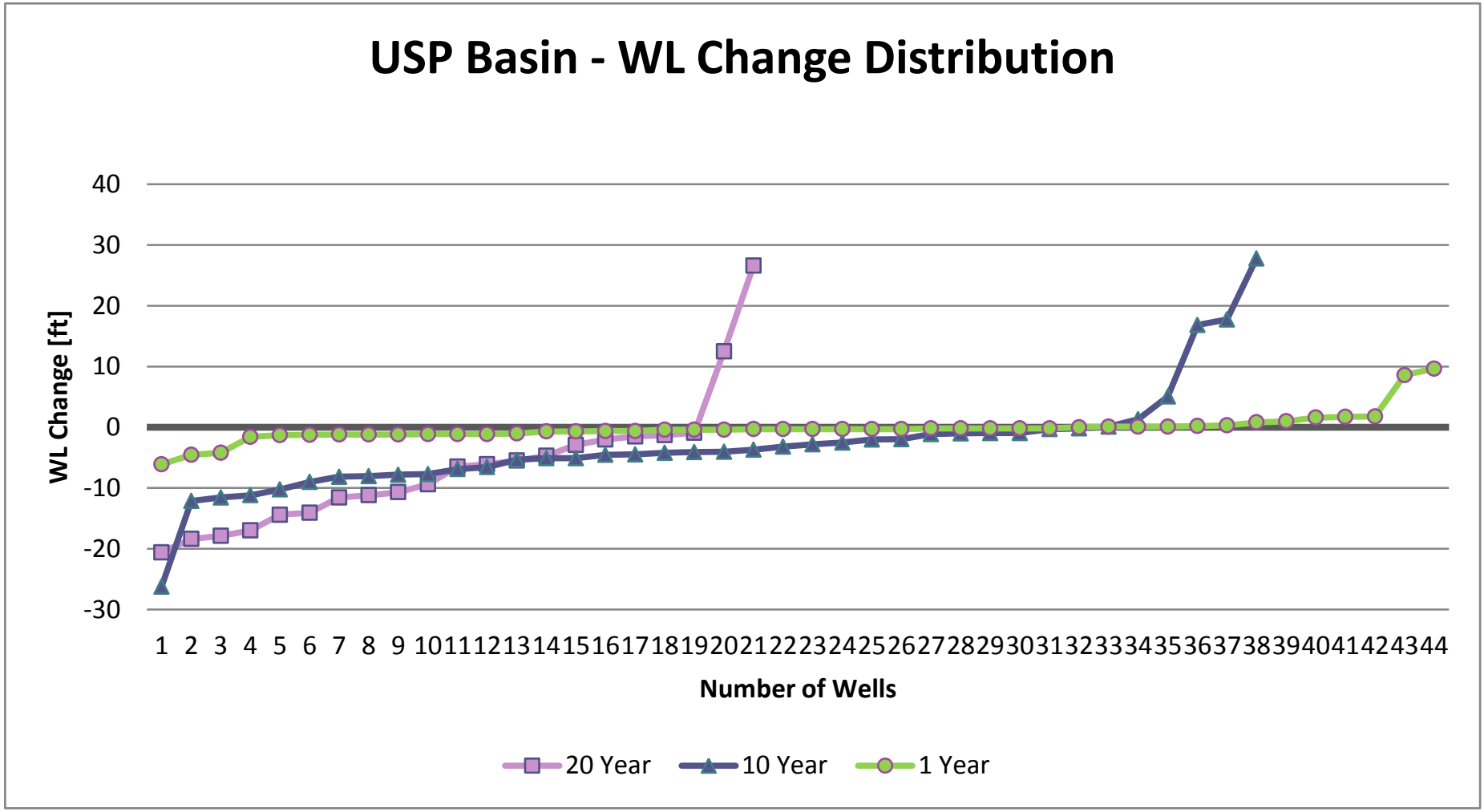

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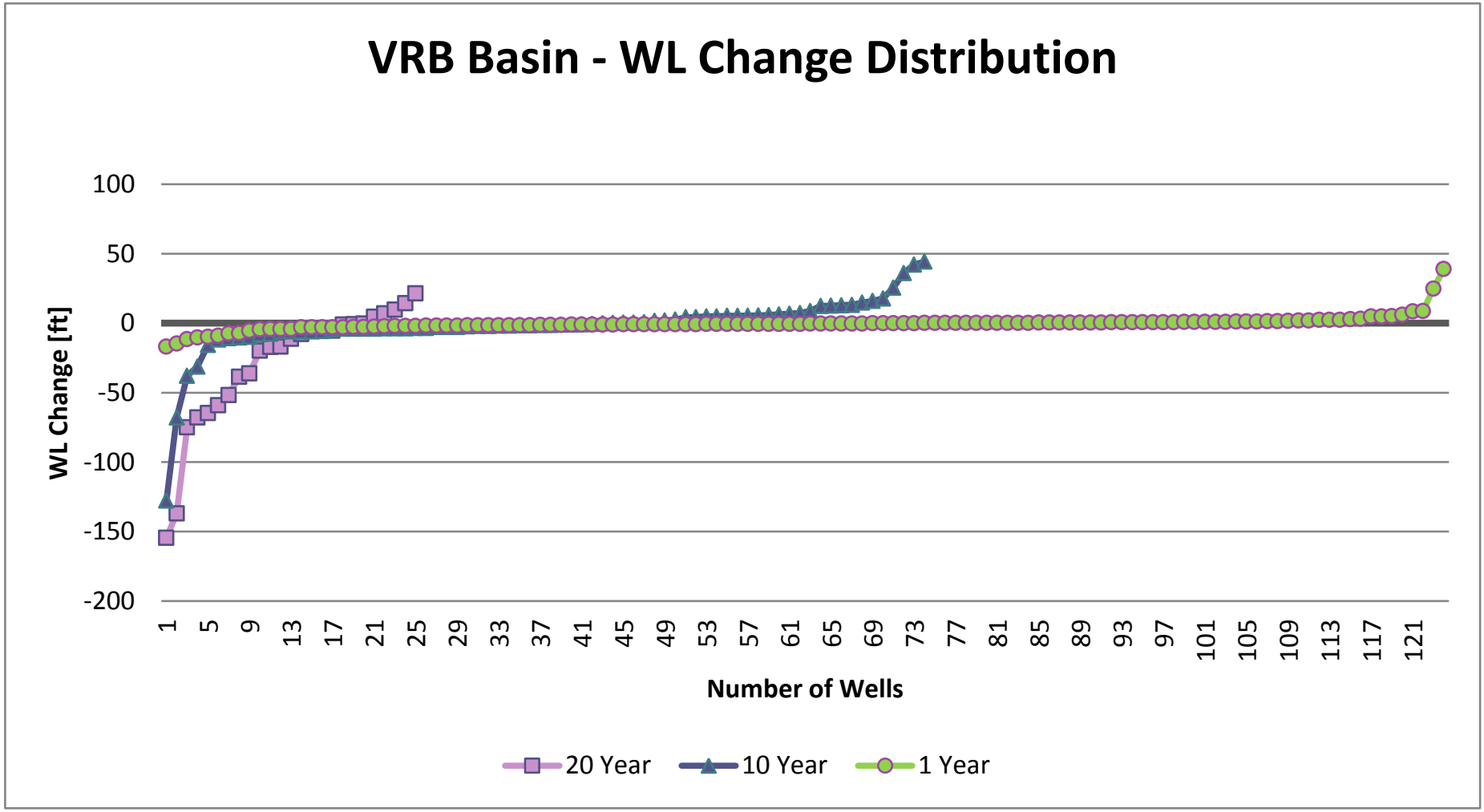

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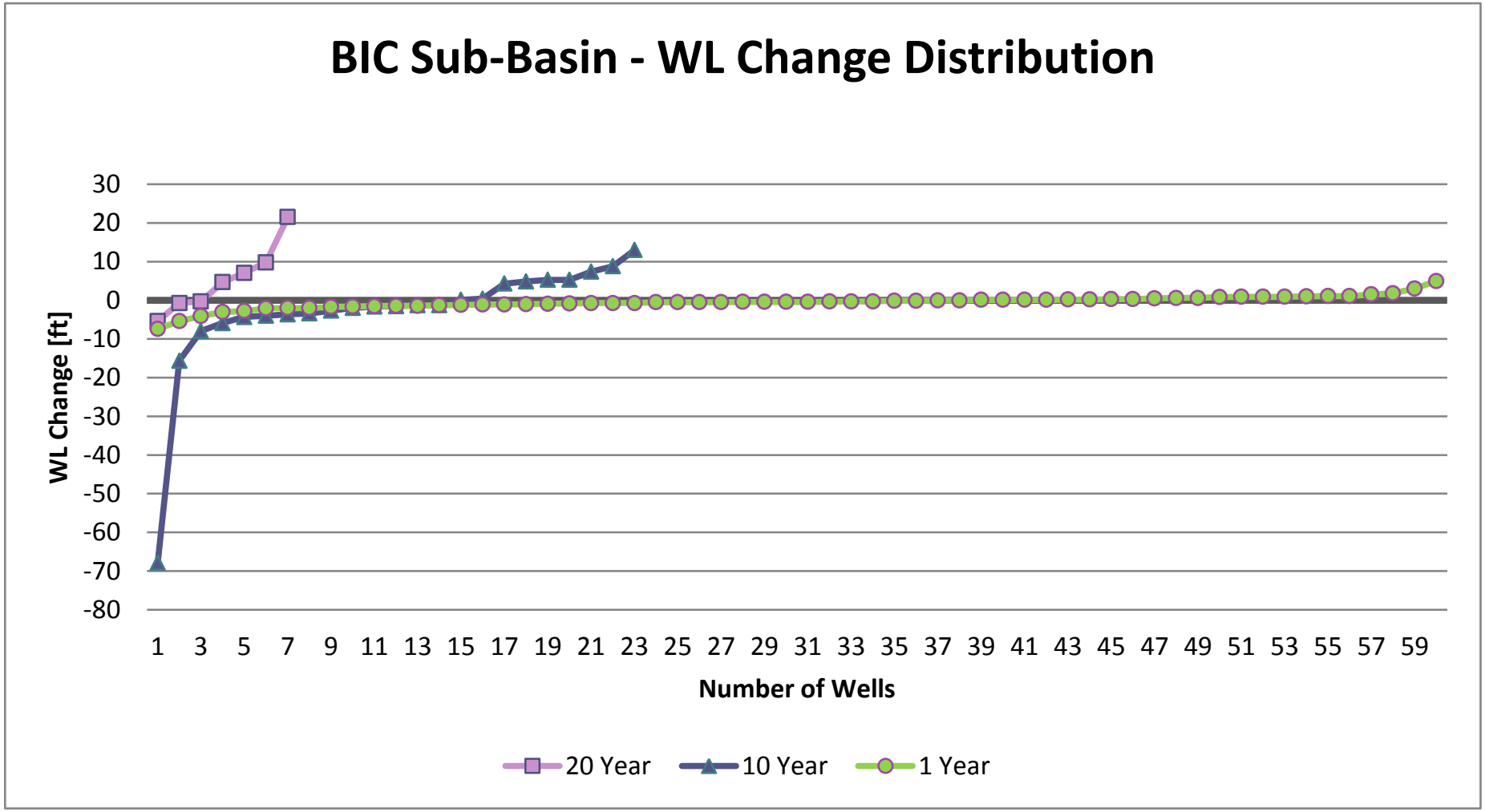

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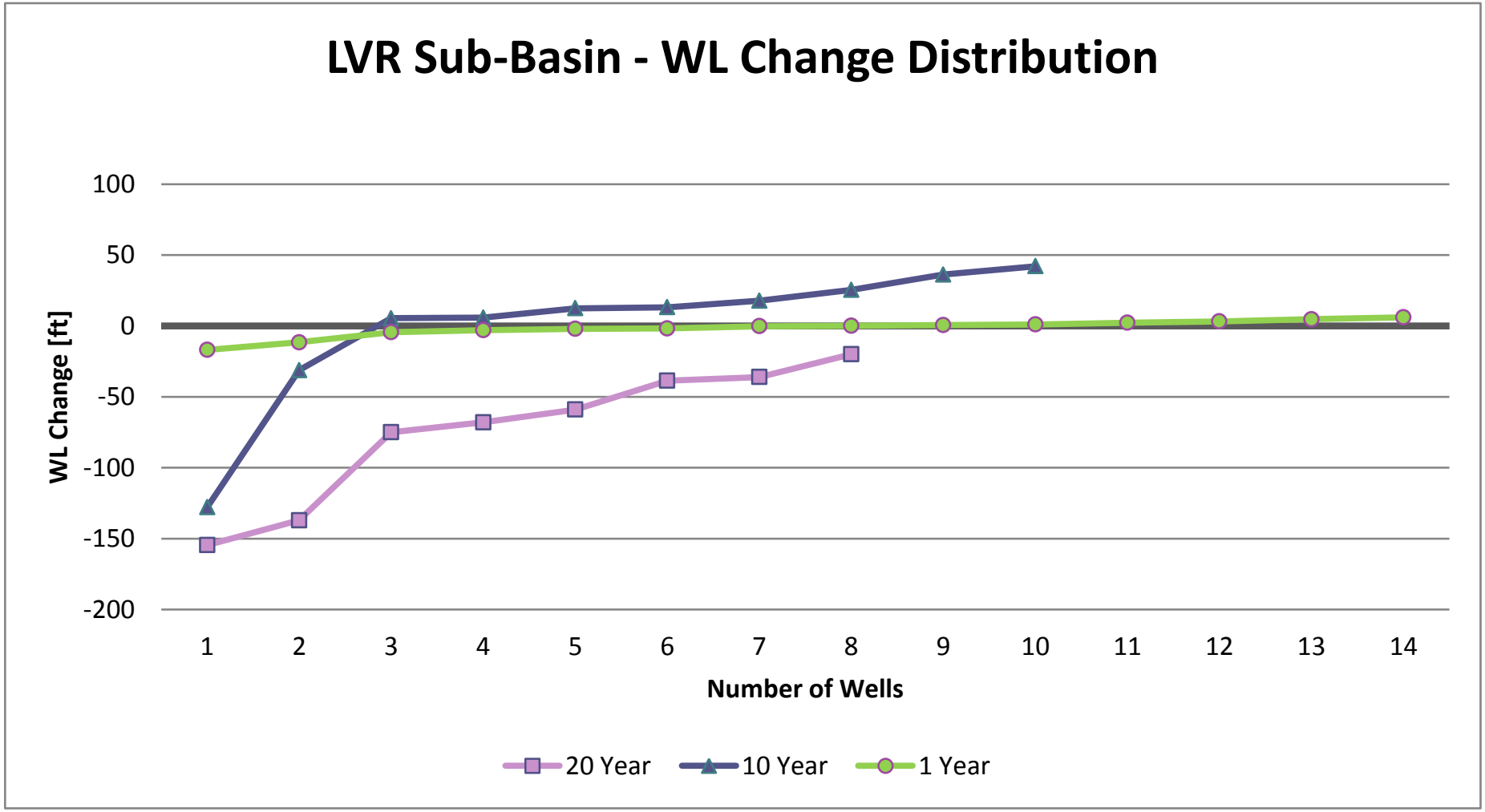

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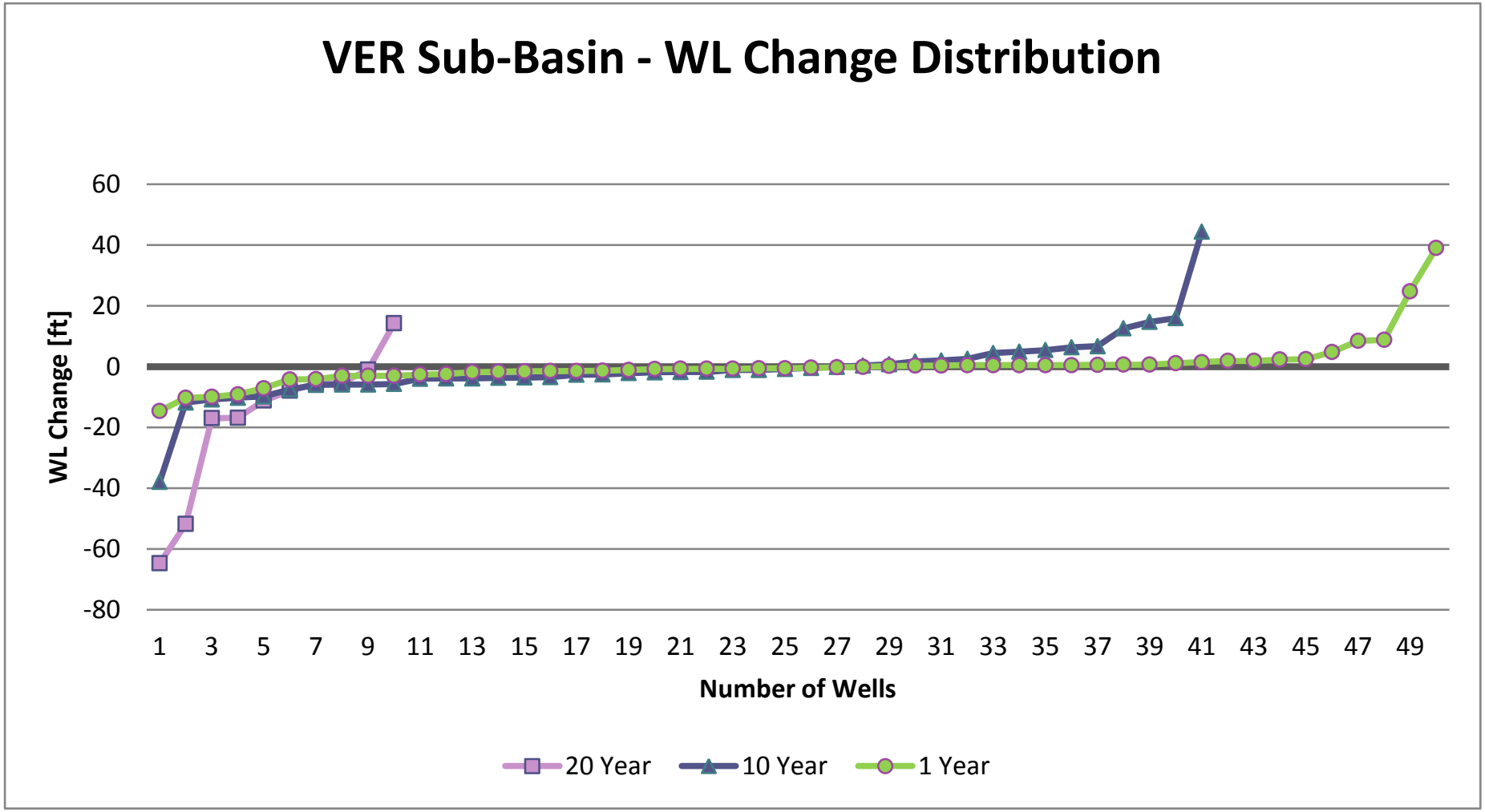

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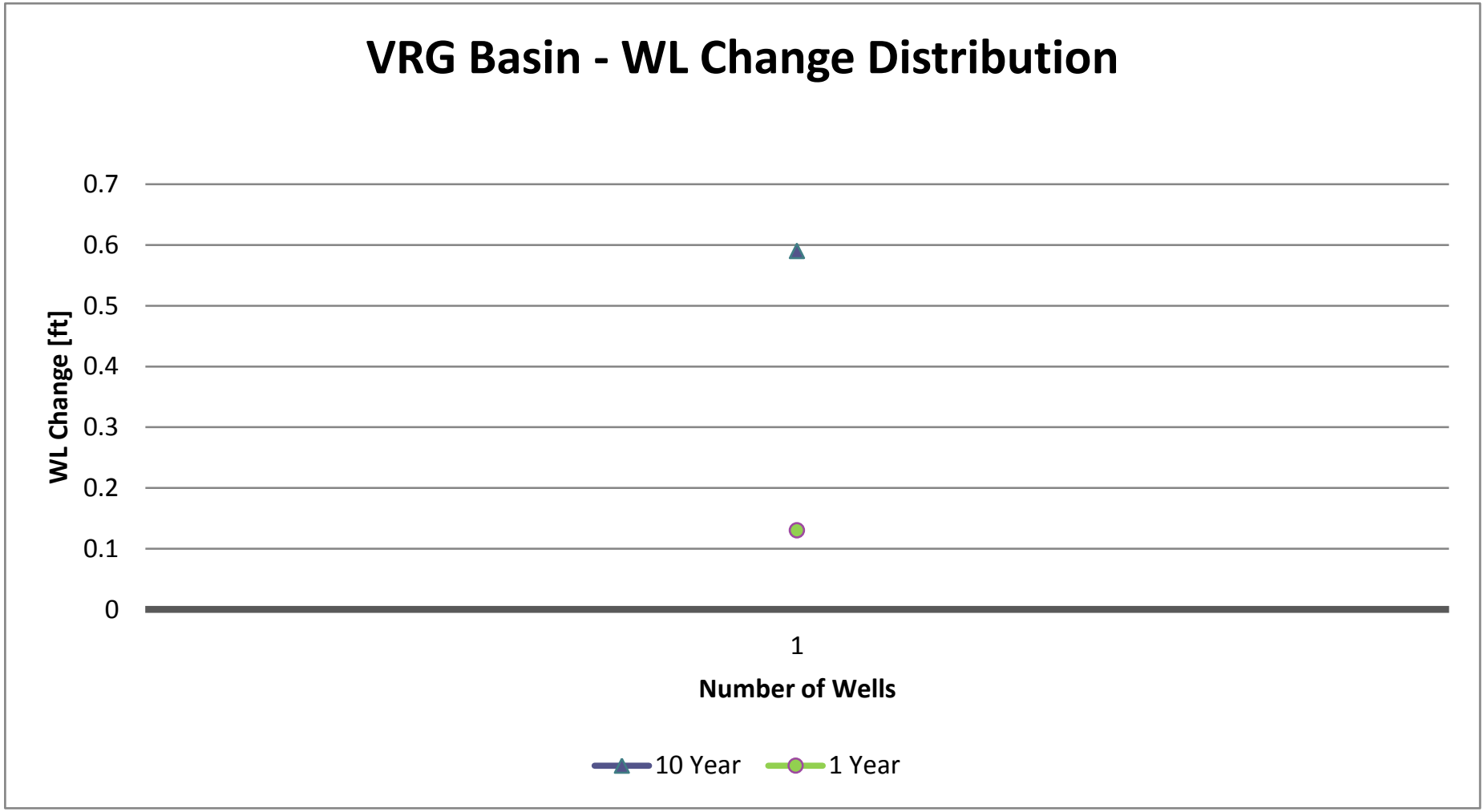

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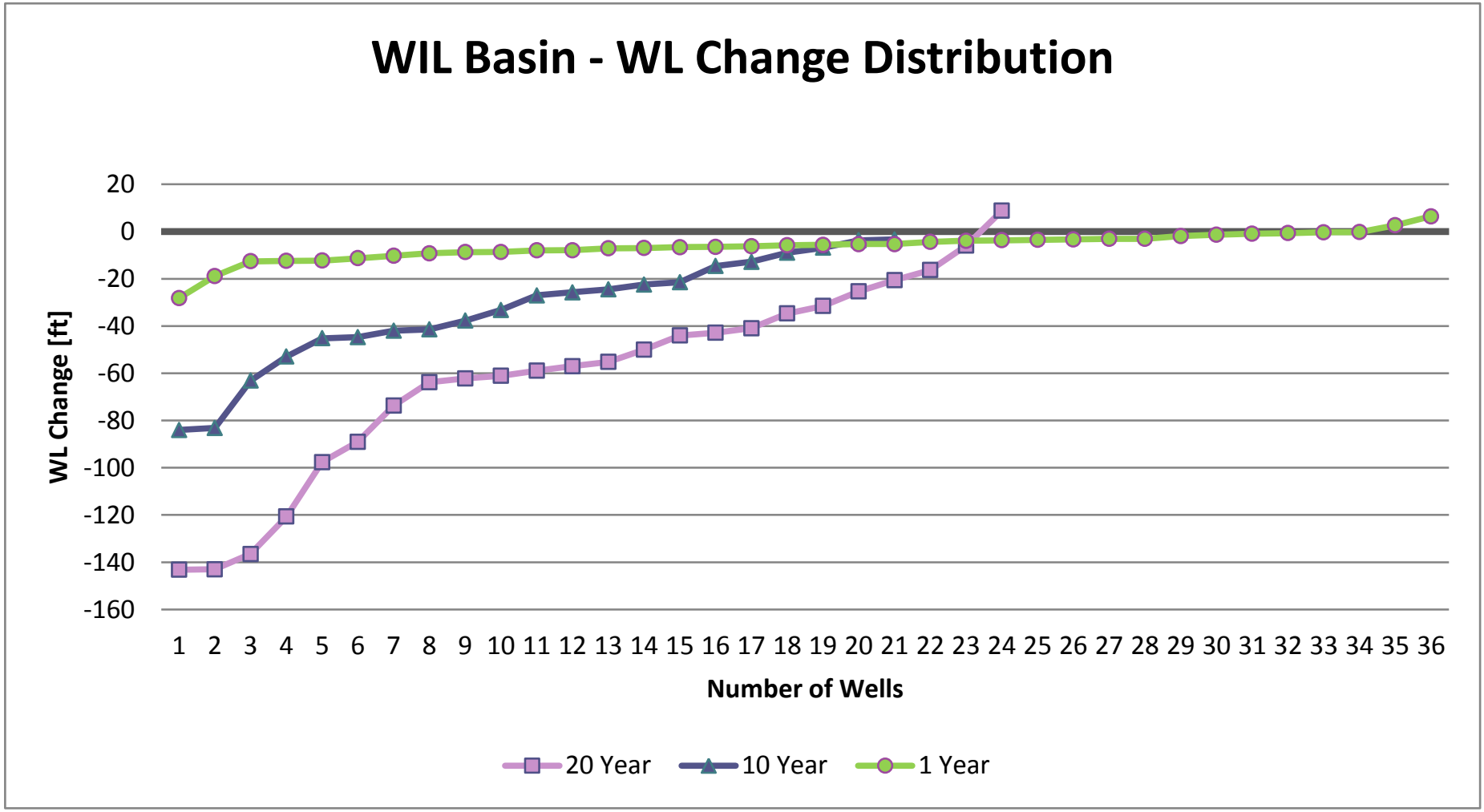

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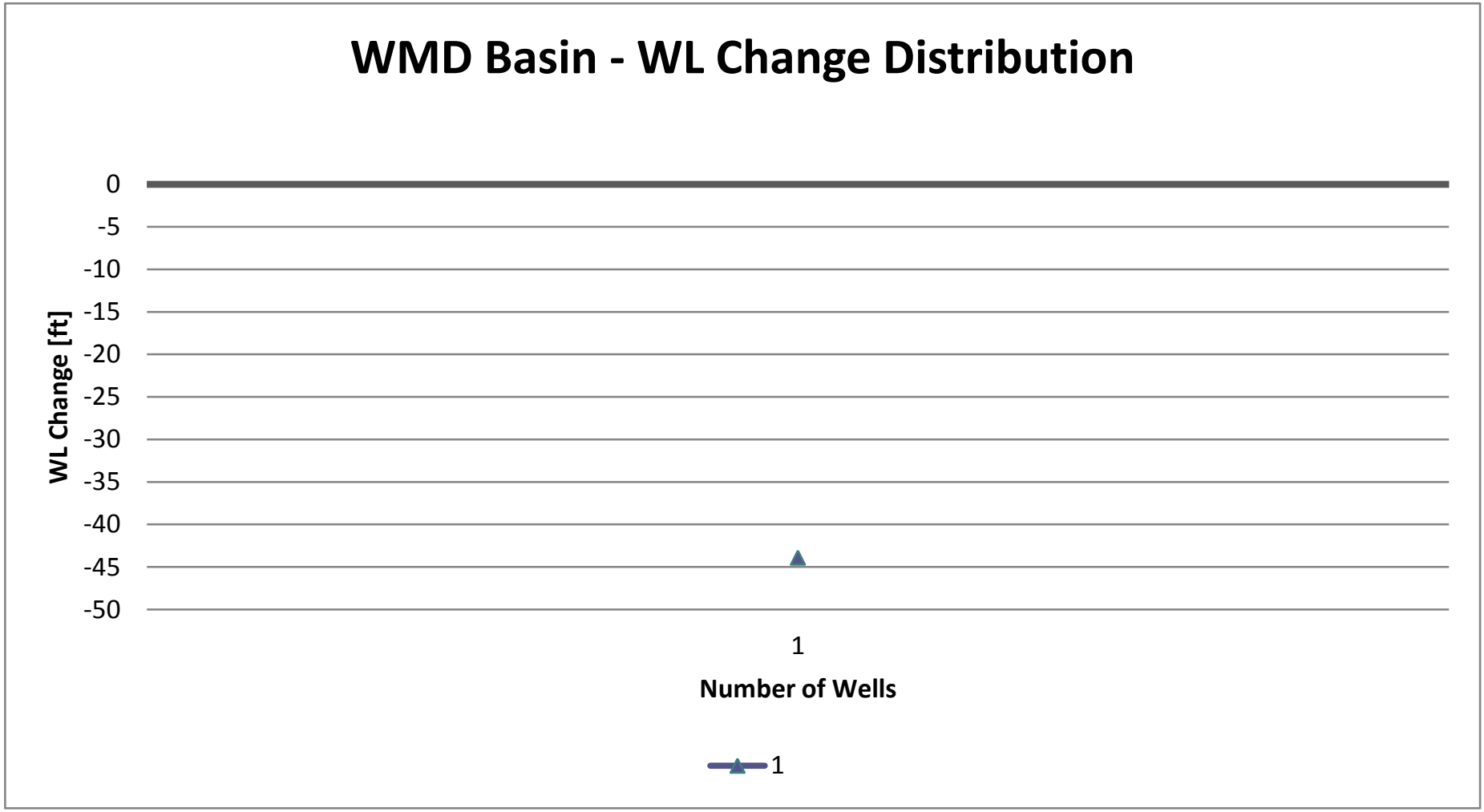

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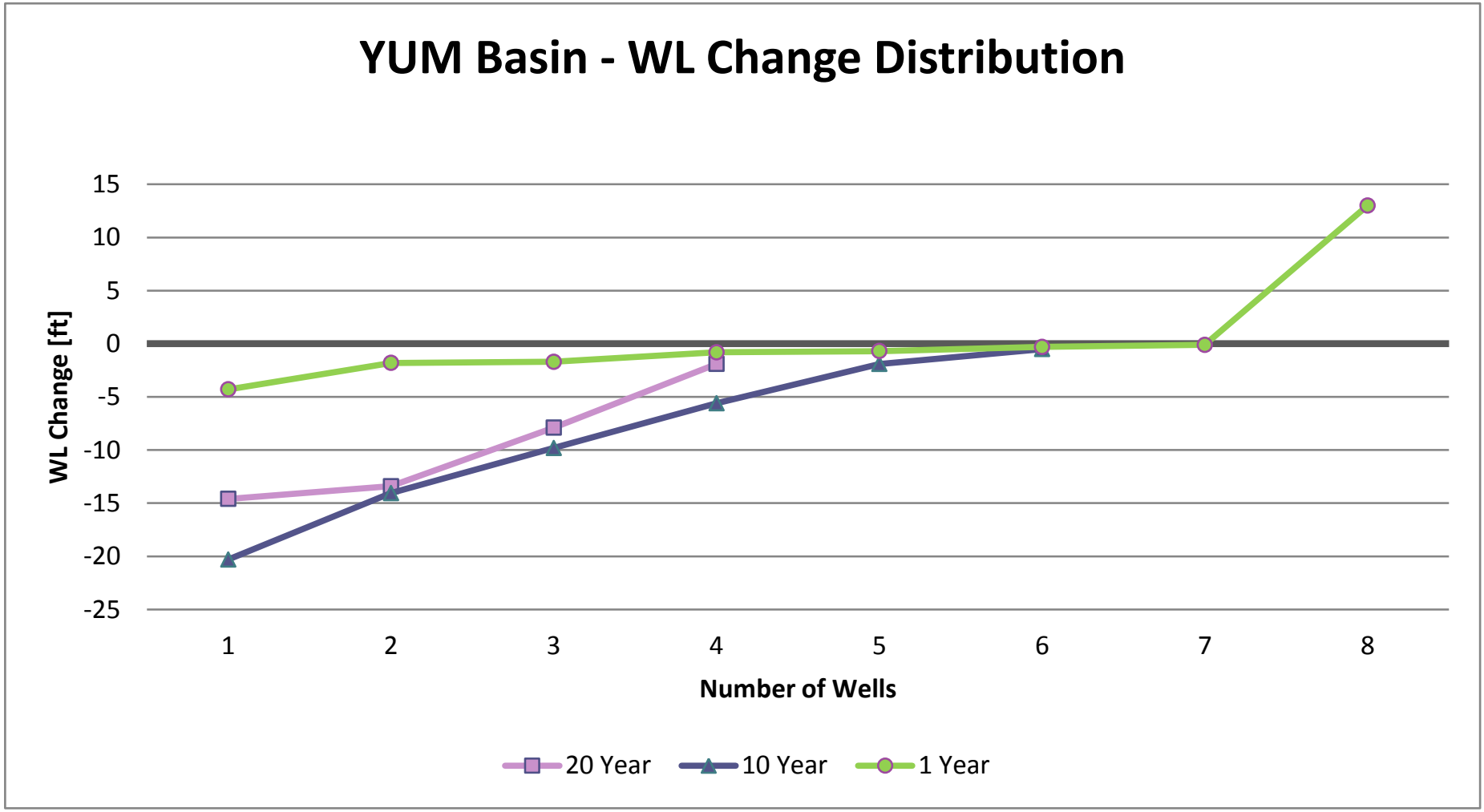

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Prepared by:
Arizona Department of Water Resources
Hydrology Division/ Field Services Section
3550 North Central Avenue
Phoenix, Arizona 85012

For additional information about this publication, contact:
Frank Corkhill, Chief Hydrologist
ADWR, Hydrology Division
(602) 771-8535
efcorkhill@azwater.gov

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