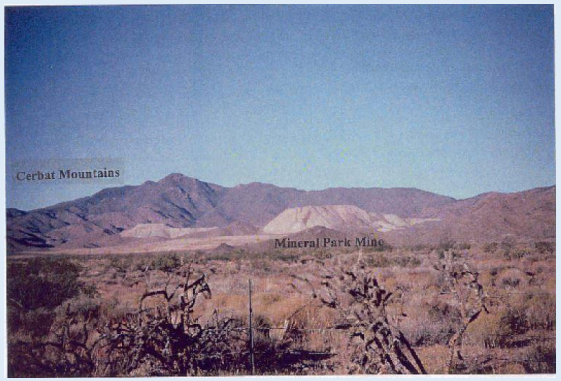
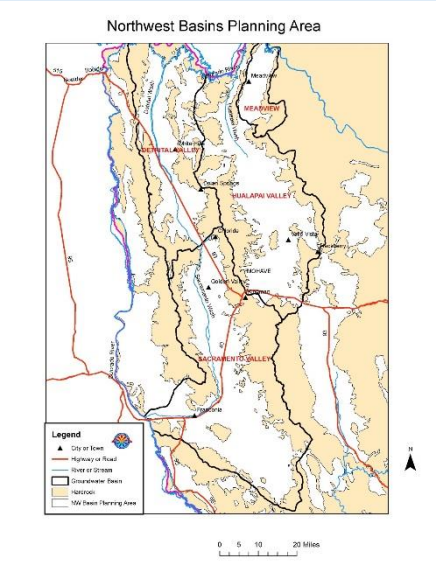
Hydrologic and Water Use Information For The Northwest Basins Planning Area



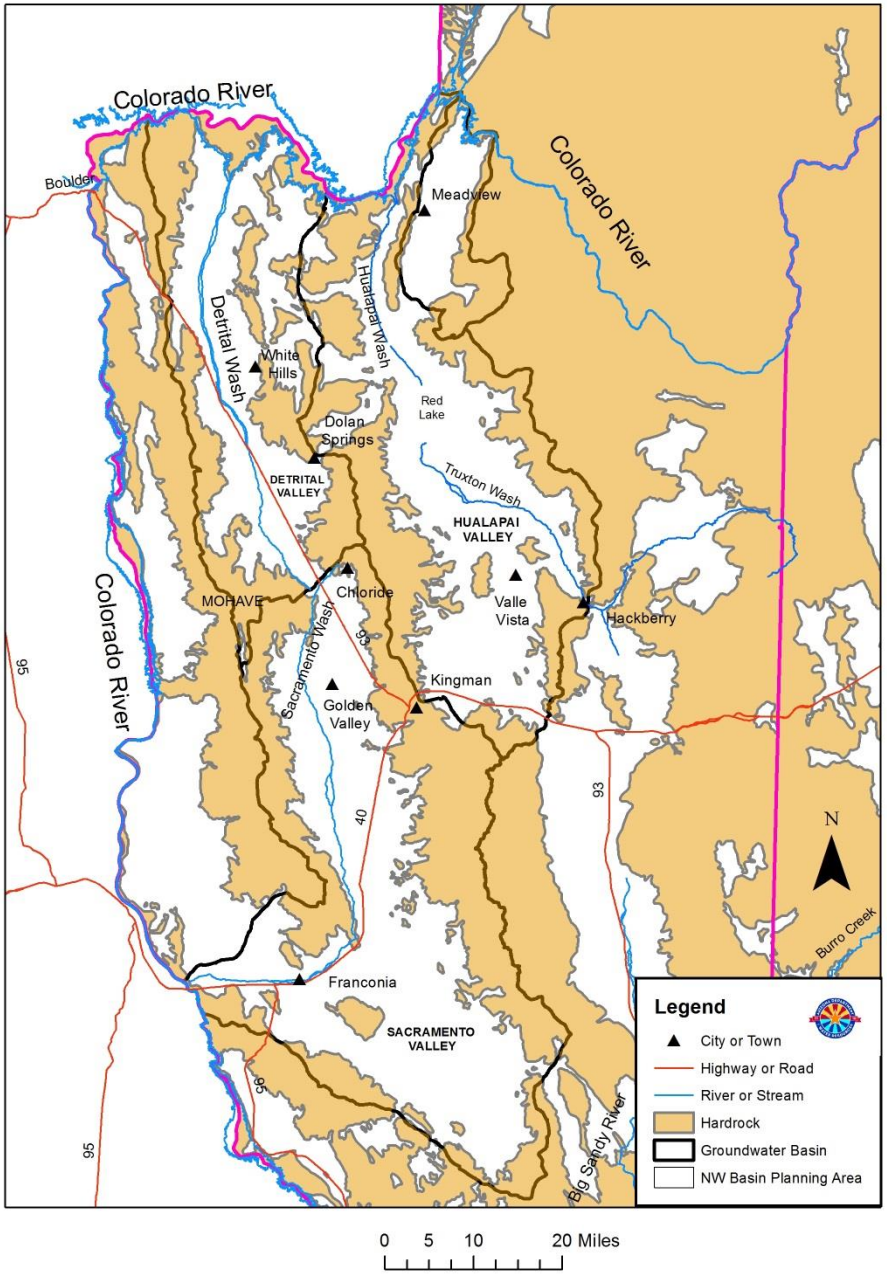
Presented by Frank Corkhill
Arizona Department of Water Resources
Hydrology Division

June 29, 2016

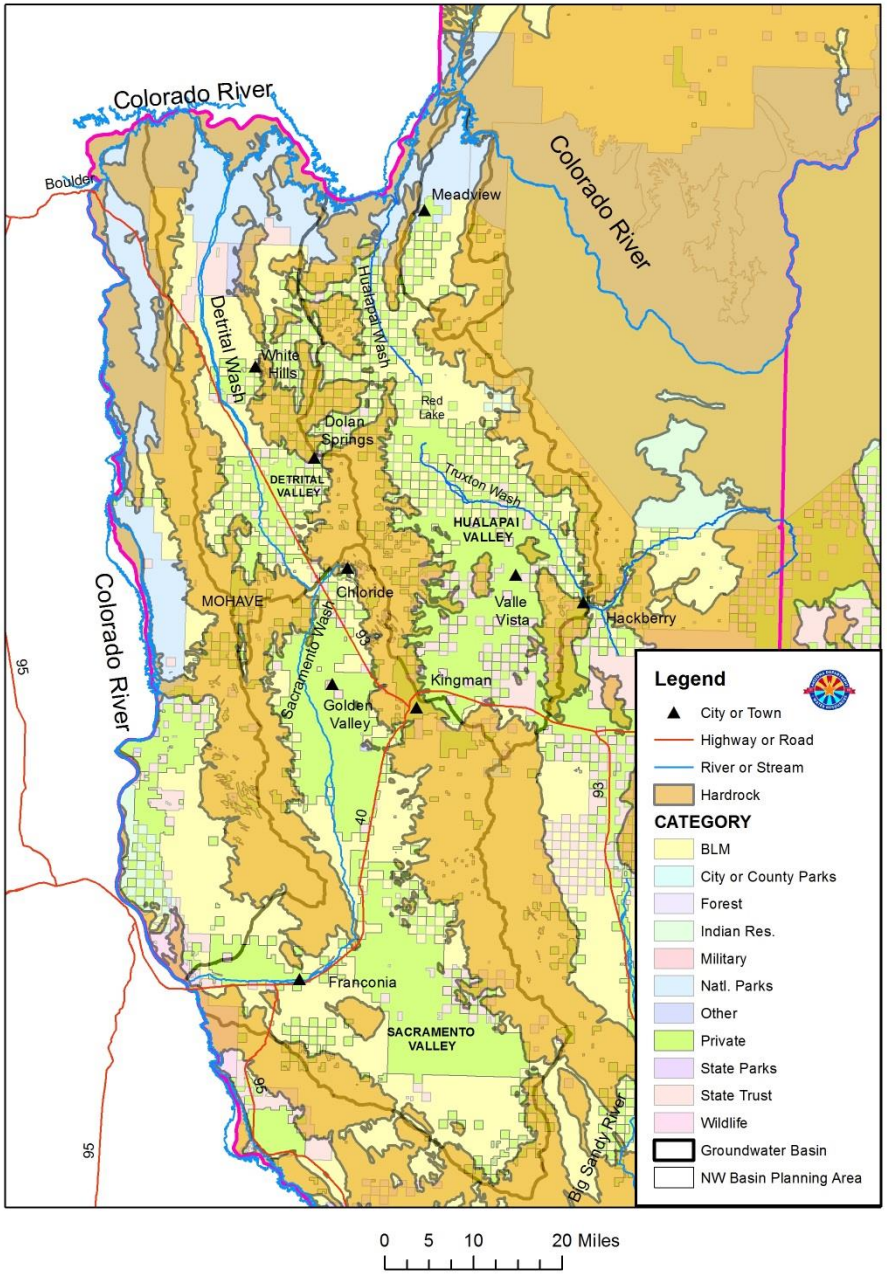
Mohave County Administration Building
Kingman, Arizona



Northwest Basins Planning Area



Northwest Basins Land Ownership



General Characteristics of Groundwater Basins In the Northwest Basin Planning Area

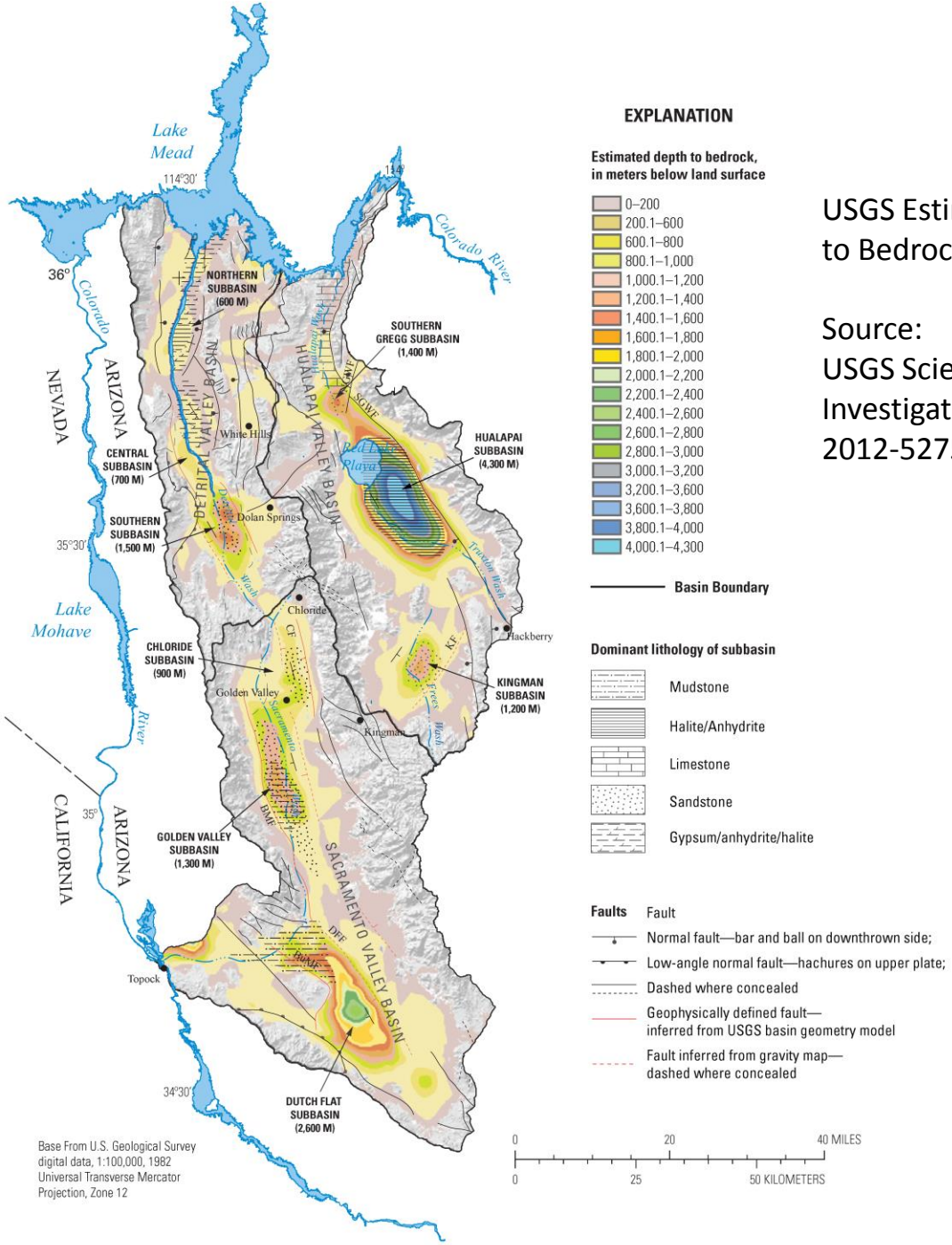
Basin Characteristic	Unit	Detrital Valley	Sacramento Valley	Hualapai Valley	Meadview
Basin Area	Square Miles	892	1,587	1,212	190
Estimated GW Storage [1]	Acre-Feet	7,900,000	28,000,000	11,400,000	<1,000,000
Estimated Natural Recharge [2]	Acre-Feet/Year	< 1,500	6,000	5,400	NA
Estimated 2014 Basin Pumpage [3]	Acre-Feet/Year	< 300	9,700	16,600	< 300

[1] Detrital Valley, Sacramento Valley and Hualapai Valley groundwater storage estimates from USGS SIR 2012-5275. Estimates are to a depth of 400 meters (≈1,300 feet below land surface). Groundwater in storage estimates have upper and lower boundaries of .81 to 15.7 MAF, 17.6 to 30.3 MAF and 5.5 to 17.3 MAF; for the Detrital Valley, Sacramento Valley and Hualapai Valley basins, respectively. Meadview groundwater storage estimate from Arizona Water Commission 1975.

Note: Not all groundwater In storage Is practically recoverable For hydrogeologic, technical, economic or other reasons.

[2] Detrital, Sacramento and Hualapai natural recharge estimates from USGS SIR 2013-5122.

[3] 2014 basin pumpage estimates From USGS Annual Arizona Water Use Spreadsheet (USGS-Tucson, 2016)

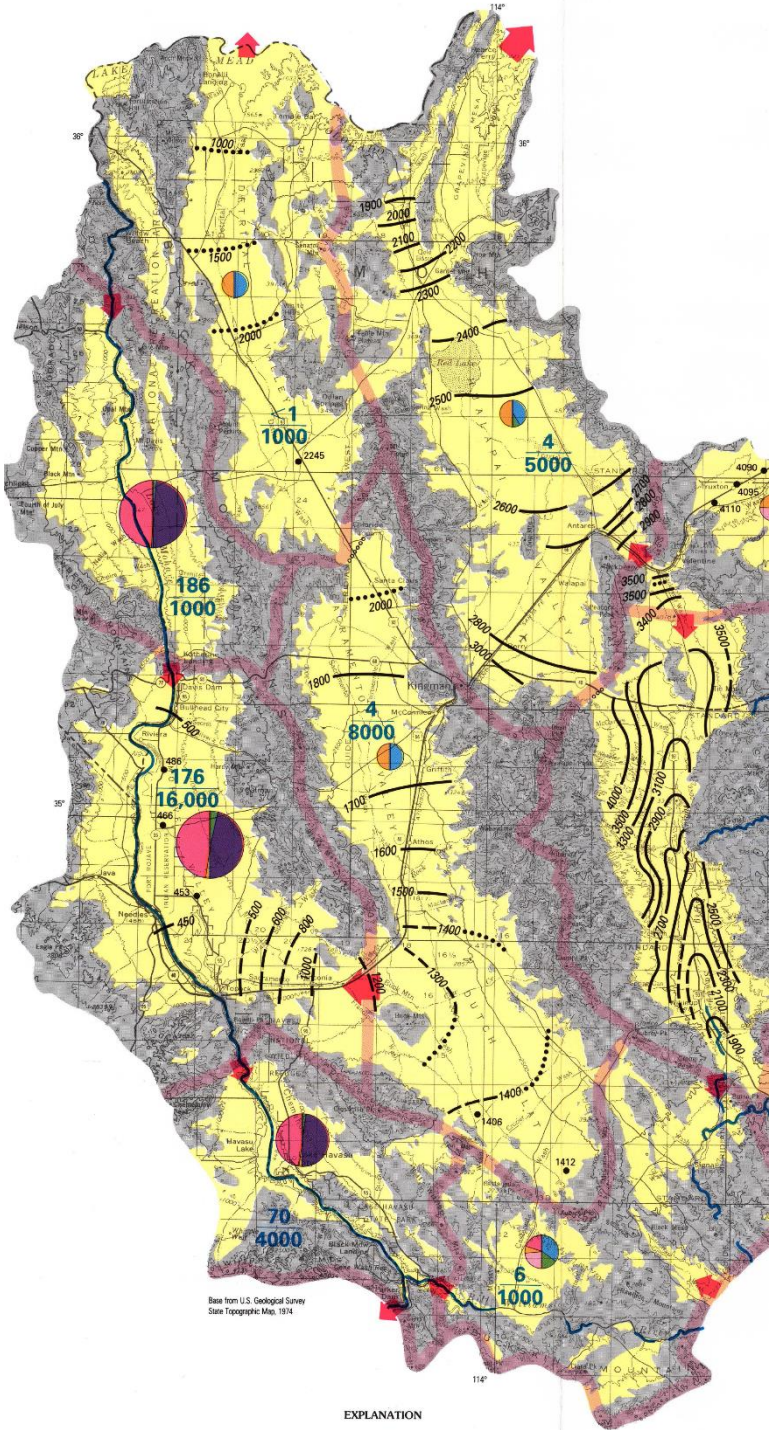


USGS Estimated Depth to Bedrock (Meters)

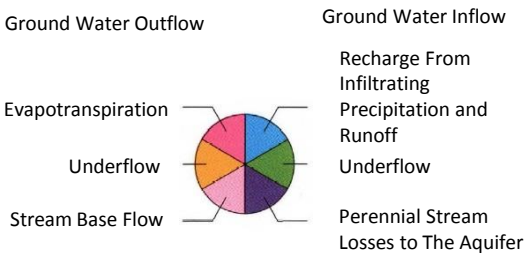
Source:
USGS Scientific Investigations Report 2012-5275

Predevelopment Groundwater Flow in The NW Basins Planning Area

(USGS Hydrologic Investigations Atlas 664)



Ground Water Budget

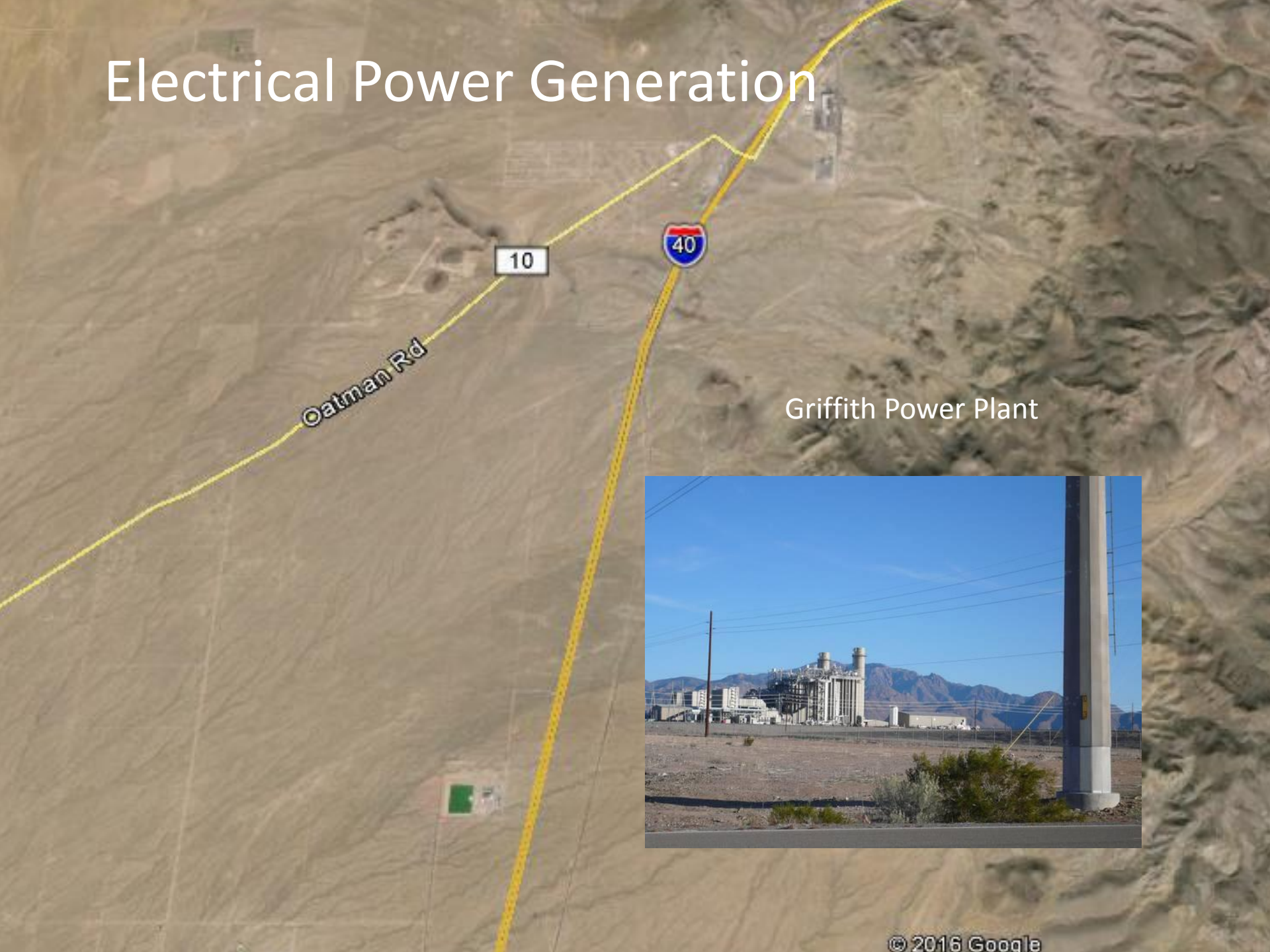


Major Groundwater Uses In The Northwest Basins

Municipal

New Kingman-Butler
Golden Valley
68
66
93
Kingman
Golden Valley
HISTORIC
ROUTE
66
WELCOME TO
KINGMAN
10
40
© 2016 Google
Oatman Rd

Electrical Power Generation



Mining

Irrigation

Farming in Red Lake Area

Irrigation

Farming in Long Mountain Area

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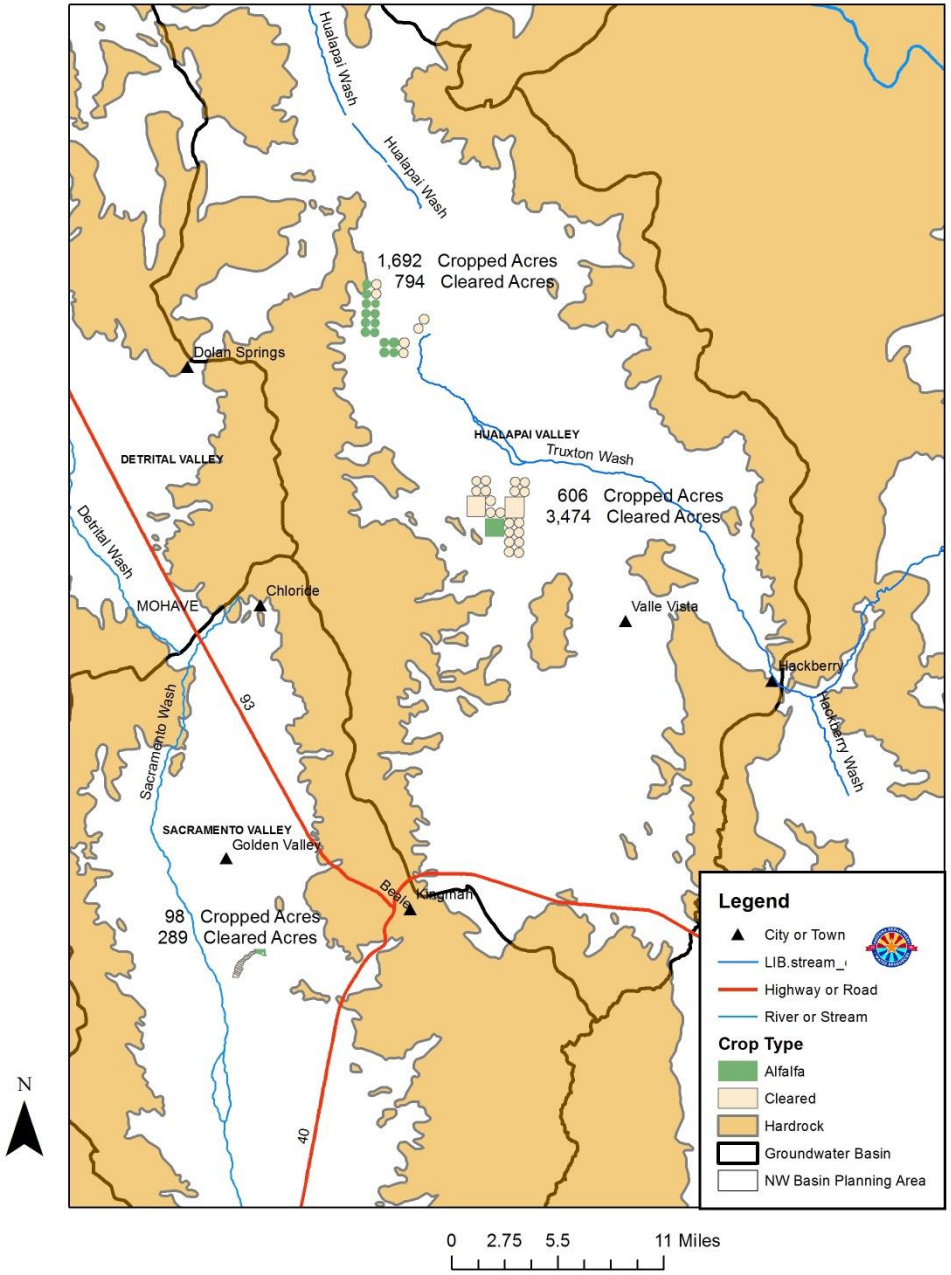
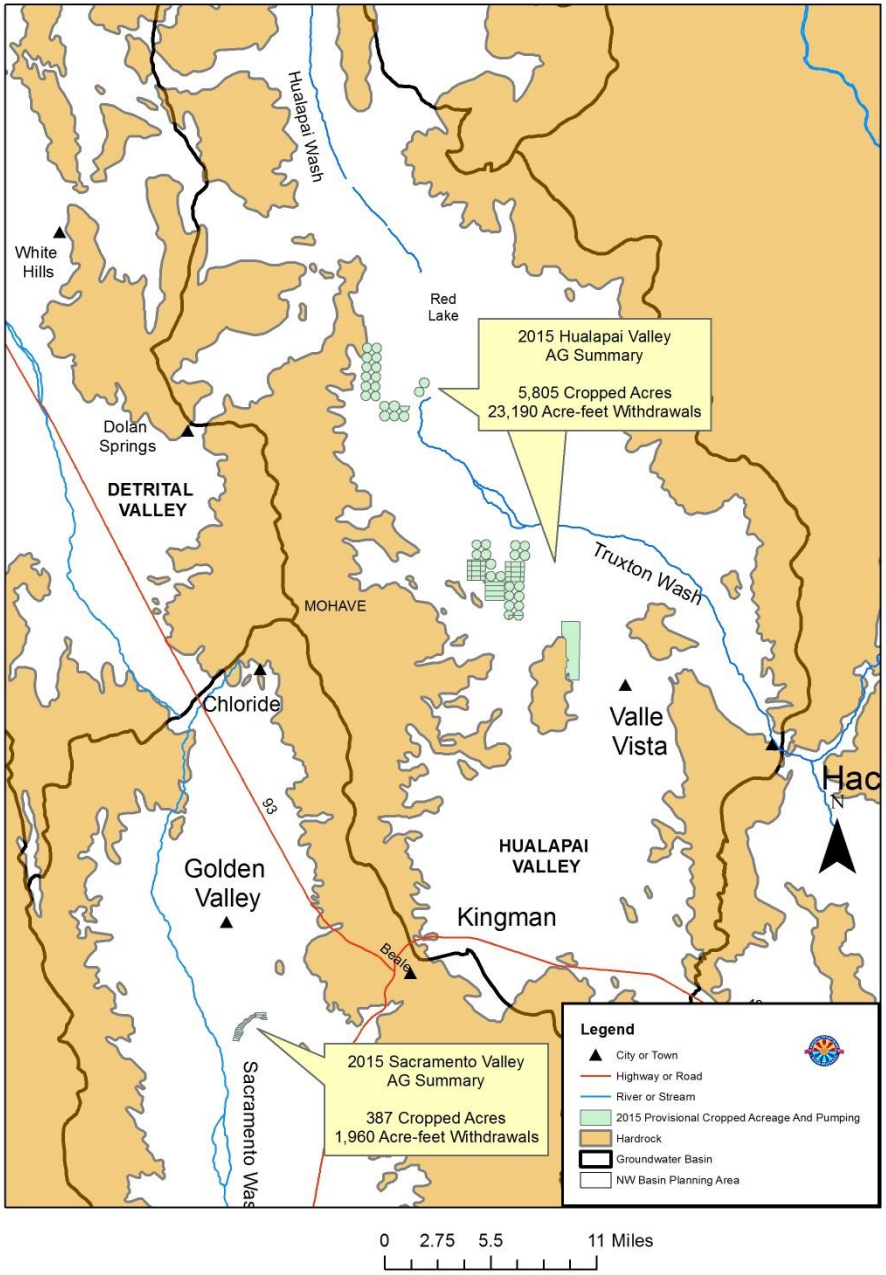
Irrigation

Farming in Golden Valley Area

USGS 2014 Cropped or Cleared Agricultural Areas in NW Basins Planning Area



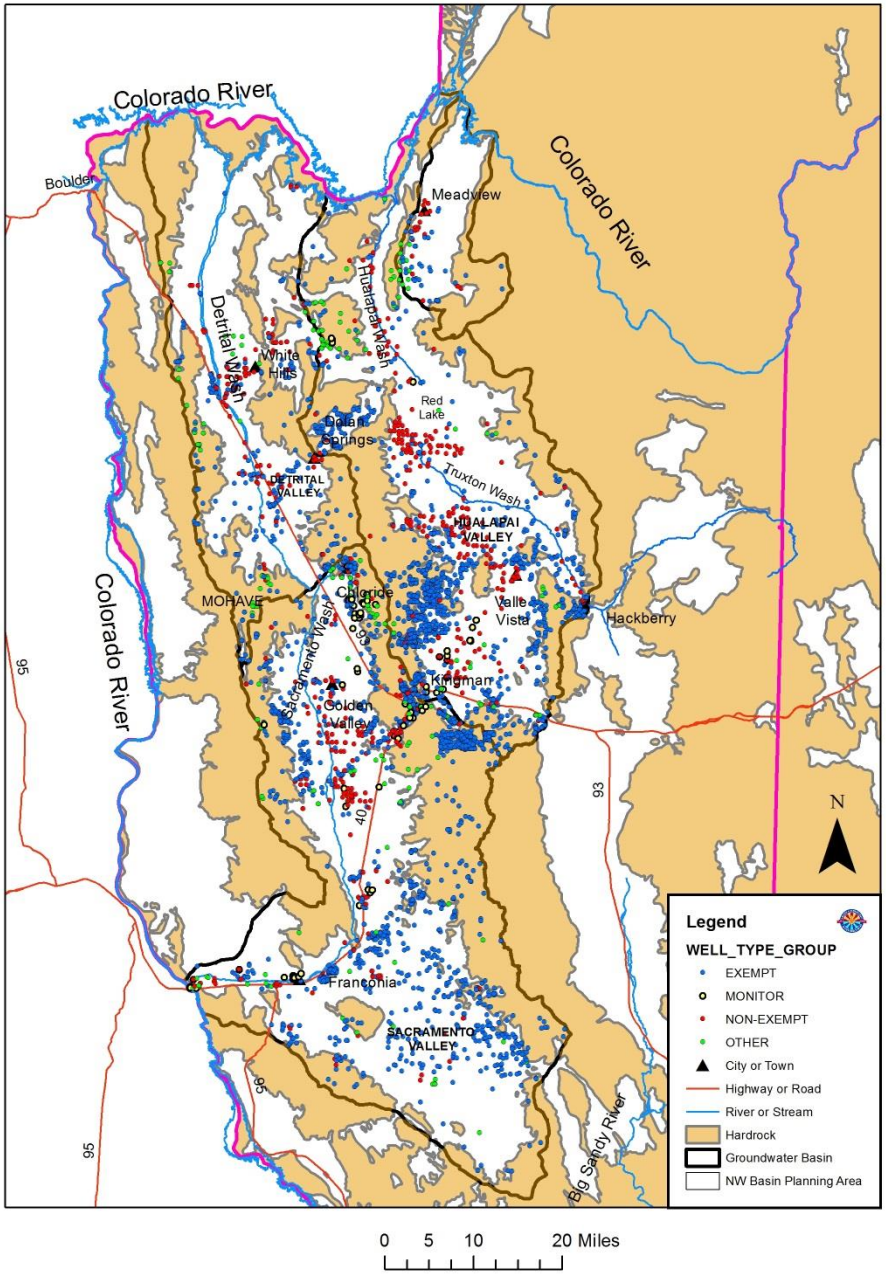
2015 USGS Agricultural Acreage and Pumpage in Northwest Basins Planning Area



Registered Well Applications Per Year In The Northwest Basins

BASIN	Detrital	Hualapai	Meadview	Sacramento
1963				1
1971				1
1980	1	7		7
1981	2	39		26
1982	86	202	17	315
1983	5	19		19
1984	8	23		29
1985	5	16	1	21
1986	6	12		22
1987	7	25		26
1988	7	18		16
1989	7	29	4	55
1990	16	34	2	36
1991	10	38		49
1992	17	36	6	58
1993	7	41	5	67
1994	11	41	1	58
1995	16	54		58
1996	6	34		36
1997	6	56		54
1998	6	47		50
1999	6	67		86
2000	14	47	3	120
2001	10	49	3	84
2002	7	88	3	93
2003	16	75	3	80
2004	13	117	3	96
2005	38	109	5	121
2006	27	90	3	152
2007	13	59	4	80
2008	14	37	2	50
2009	6	17	1	31
2010	6	17		14
2011	5	17	5	16
2012	4	19	1	30
2013	2	22	2	29
2014	4	111	2	21
2015	4	43	2	50
2016		11		8
Total	418	1766	78	2165

Northwest Basins Registered Wells



USGS Estimated Groundwater Pumping in Northwest Basin Planning Area 1940 – 2014
Units = x 1,000 Acre-feet (AF)

Year	Hualapai				Sacramento					Detrital	Meadview
	Total	Ag	Muni	Mining	Total	Ag	Muni	Mining	Electric Power	Muni	Muni
1940					<0.5						
1941					<0.5						
1942					<0.5						
1943					<0.5						
1944					<0.5						
1945					<0.5						
1946					<0.5						
1947					<0.5						
1948					<0.5						
1949					<0.5						
1950					<0.5						
1951					<0.5						
1952					<0.5						
1953					<0.5						
1954					<0.5						
1955					<0.5						
1956					<0.5						
1957					<0.5						
1958					<0.5						
1959					<0.5						
1960	<0.5				<0.5						
1961	1.0				<0.5						
1962	1.0				<0.5						
1963	1.0				<0.5						
1964	2.0				<0.5						
1965	2.0				4.0						
1966	3.0				4.0						
1967	4.0				4.0						
1968	4.0				6.0						
1969	4.0				5.0						
1970	4.0				4.0						
1971	4.0				5.0						
1972	4.0				6.0						
1973	4.0				5.0						
1974	5.0				7.0						
1975	4.0				8.0						
1976	4.0				8.0						
1977	4.0				7.0						

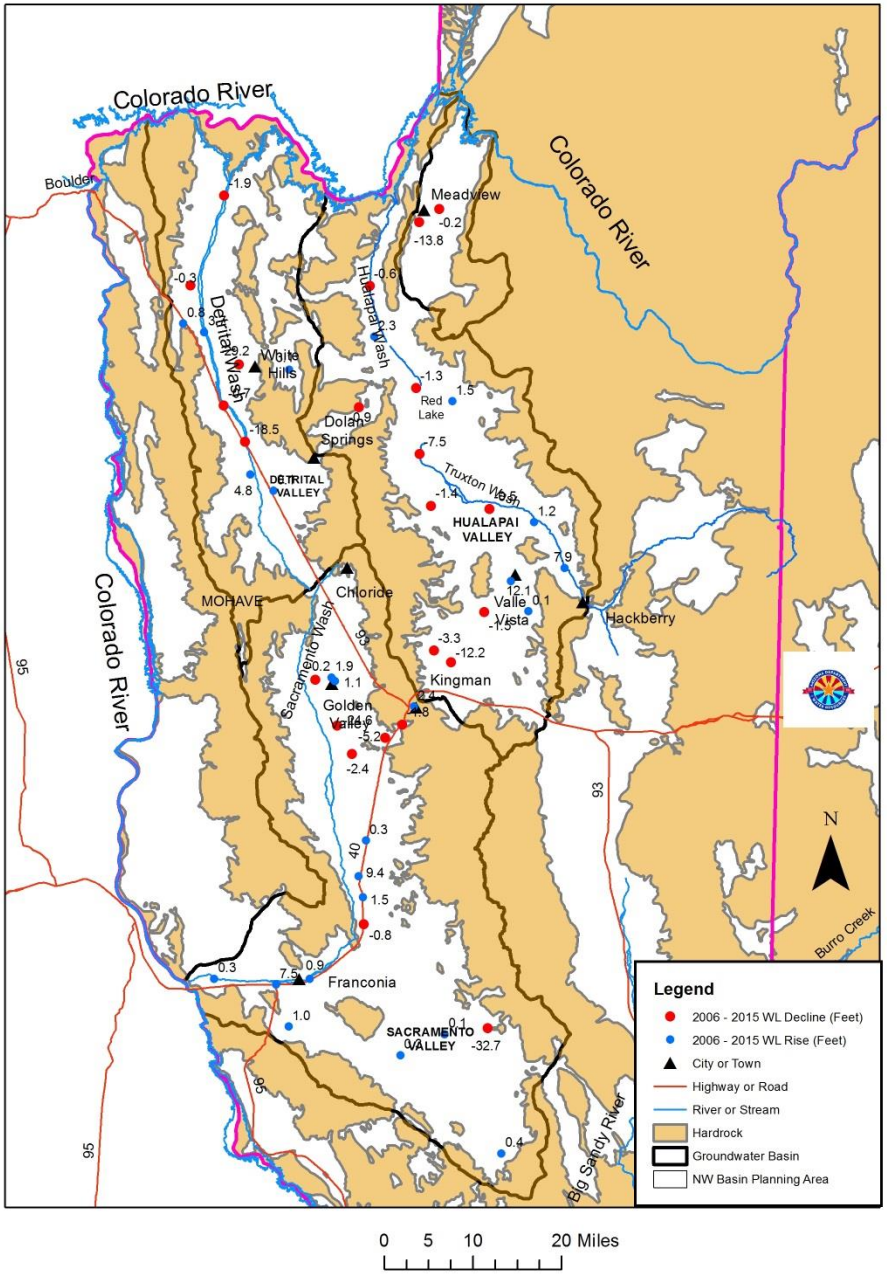
Year	Hualapai				Sacramento					Detrital	Meadview
	Total	Ag	Muni	Mining	Total	Ag	Muni	Mining	Electric Power	Muni	Muni
1978	6				8						
1979	6				6						
1980	4				4						
1981	6				5						
1982	5				2						
1983	5				2						
1984	5				2						
1985	5				2						
1986	5				2						
1987	5				2						
1988	5				2						
1989	6				2						
1990	6				2						
1991	4.7		4.4	<0.3	1.6		1.3	<0.3		<0.3	<0.3
1992	5.7		5.4	<0.3	1.8		1.5	<0.3		<0.3	<0.3
1993	5.7		5.4	<0.3	1.8		1.5	<0.3		<0.3	<0.3
1994	6.3		6	<0.3	1.9		1.6	<0.3		<0.3	<0.3
1995	6.6		6.3	<0.3	2		1.7	<0.3		<0.3	<0.3
1996	7.3		7	<0.3	2		1.7	<0.3		<0.3	<0.3
1997	7.2		6.9	<0.3	1.9		1.6	<0.3		<0.3	<0.3
1998	7.1		6.8	<0.3	2.1		1.8	<0.3		<0.3	<0.3
1999	7.8		7.5	<0.3	2.2		1.9	<0.3		<0.3	<0.3
2000	8.5		8.2	<0.3	2.15		1.8	0.35		<0.3	<0.3
2001	8.3		8	<0.3	3.45		2	0.35	1.1	<0.3	<0.3
2002	8.8		8.5	<0.3	4.1		2	0.5	1.6	<0.3	<0.3
2003	8.6		8.3	<0.3	3.6		2	<0.3	1.3	<0.3	<0.3
2004	8.7		8.4	<0.3	3.8		2.4	<0.3	1.1	<0.3	<0.3
2005	9.4		9.1	<0.3	3.45		2.3	<0.3	0.85	<0.3	<0.3
2006	9.1		8.8	<0.3	4.1		2.5	<0.3	1.3	<0.3	<0.3
2007	9.3		9	<0.3	5		2.8	<0.3	1.9	<0.3	<0.3
2008	9.5		9.2	<0.3	4.8		2.9	<0.3	1.6	<0.3	<0.3
2009	8.9		8.6	<0.3	8.8		2.7	4.5	1.6	<0.3	<0.3
2010	8.5		8.2	<0.3	8.8		2.1	5.3	1.4	<0.3	<0.3
2011	8.7		8.4	<0.3	9.5		3.1	5.1	1.3	0.4	<0.3
2012	8.2		7.9	<0.3	8.3		3	3.8	1.5	0.35	<0.3
2013	8.6		8.3	<0.3	8.7		2	4.9	1.8	<0.3	<0.3
2014	16.6	8.0	8.3	<0.3	9.7	<0.3	1.9	5.3	2.2	<0.3	<0.3

Groundwater Conditions in In The Northwest Basins

Number of Annual GWSI Water Level Measurements In Northwest Basin Planning Area

Year	Detrital	Hualapai	Meadview	Sacramento	Year	Detrital	Hualapai	Meadview	Sacramento
1924				1	1979		1		64
1932		3		1	1980		97	9	7
1942				1	1981		4		3
1943		7		69	1982		5	1	6
1944		4		53	1983		3	1	7
1945				9	1984	29	4	1	8
1946				7	1985	3	62	8	8
1947				3	1986	3	10	5	9
1948				7	1987	33	6	1	8
1949				2	1988	4	8	1	11
1950		1		2	1989	4	9	1	11
1951		1		11	1990	13	8	3	181
1952		8		42	1991	4	80	14	21
1953		3		15	1992	15	10	4	16
1954		1		2	1993	5	10	4	16
1955		4		12	1994	5	10	4	12
1956		4		9	1995	31	71	17	66
1957	1	2		5	1996	4	22	7	12
1958		4		4	1997	4	10	4	16
1959				4	1998	4	10	4	14
1960		1		3	1999	9	13	10	26
1961		1		7	2000	4	10	4	17
1962		3		5	2001	4	10	4	16
1963		5		6	2002	4	10	4	15
1964		22		33	2003	5	26	4	13
1965	1	33		41	2004	4	13	6	20
1966	1	5		11	2005	7	16	5	15
1967	2	4		8	2006	118	128	23	225
1968		4		9	2007	17	30	5	21
1969		7		11	2008	15	26	6	16
1970		3		6	2009	13	23	3	23
1971		5		9	2010	11	15	3	21
1972		4		7	2011	16	25	4	23
1973		3	6	7	2012	14	25	4	26
1974		2	2	6	2013	13	28	4	26
1975	1	1	1	6	2014	16	32	5	29
1976		2	1	6	2015	13	27	3	23
1977				9					
1978		2		15	Total	450	1046	196	1515

Northwest Basins Water Level Change (2006 - 2015)



2006 to 2015 Water Level Changes in Northwest Basins GWSI Index Wells (feet)				
Basin	Statistic	All WL Changes	Positive Change (WL Rise)	Negative Change (WL Decline)
Detrital	Number of Wells	10	5	5
	Average	-3.8	2.5	-10.1
	Median	-0.1	3.1	-1.9
	Max	4.8	4.8	-0.3
	Min	-29.2	0.1	-29.2
Sacramento	Number of Wells	20	13	7
	Average	-2.0	2.1	-9.7
	Median	0.3	1.0	-2.4
	Max	9.4	9.4	-0.2
	Min	-32.7	0.1	-32.7
Hualapai	Number of Wells	15	6	9
	Average	-0.3	4.2	-3.2
	Median	-0.6	1.9	-1.4
	Max	12.1	12.1	-0.5
	Min	-12.2	0.1	-12.2
Meadview	Number of Wells	2	0	2
	Average	-7.0		-7.0
	Median	-7.0		-7.0
	Max	-0.2		-0.2
	Min	-13.8		-13.8

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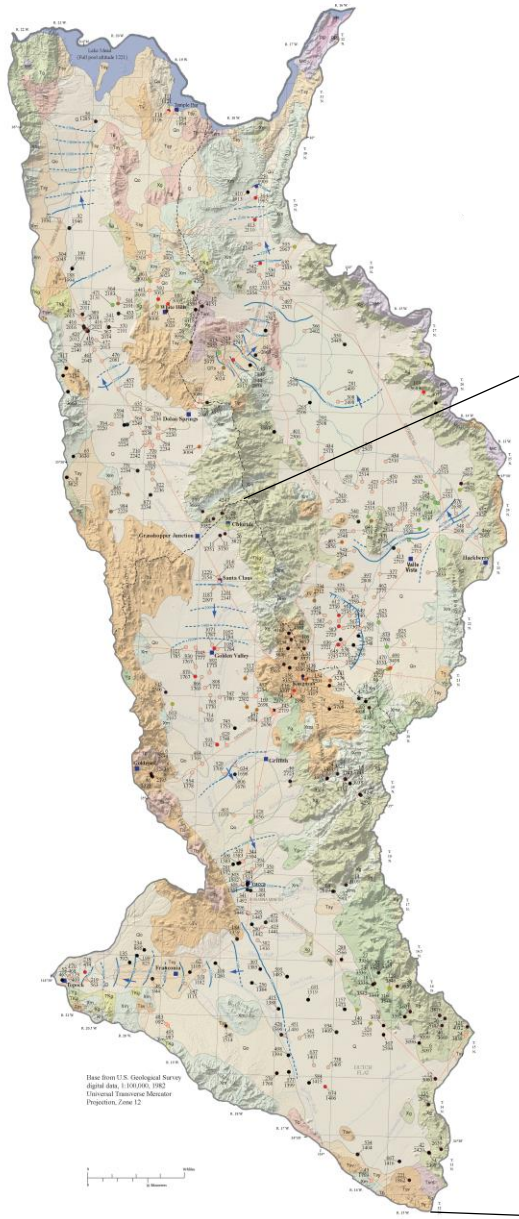
SCIENTIFIC INVESTIGATIONS REPORT 2007-5182
Depth to water and water-level altitude in 2006 for selected wells, Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona—Plate 1
David W. Anning, Margot Truini, Marilyn E. Flynn, and William H. Remick, 2007.
Ground-water occurrence and movement, 2006, and water-level changes in the Detrital, Hualapai, and Sacramento Valley Basins, Mohave County, Arizona



2006 Sacramento Valley Groundwater Conditions

DEPTH TO WATER AND WATER-LEVEL ALTITUDE IN 2006 FOR SELECTED WELLS, DETRITAL, HUALAPAI, AND SACRAMENTO VALLEY BASINS, MOHAVE COUNTY, ARIZONA

By

David W. Anning, Margot Truini, Marilyn E. Flynn, and William H. Remick

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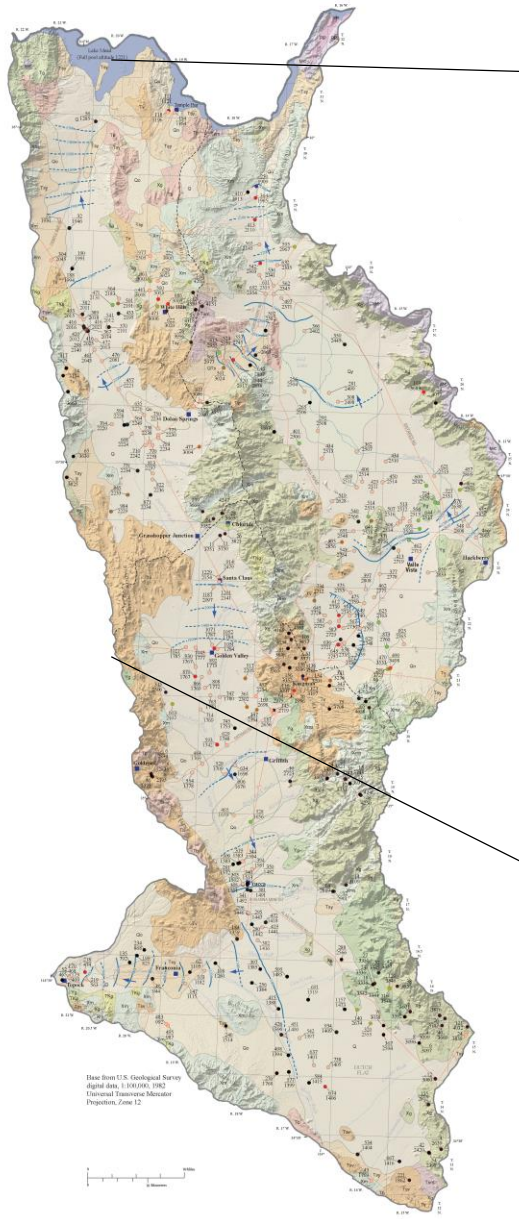
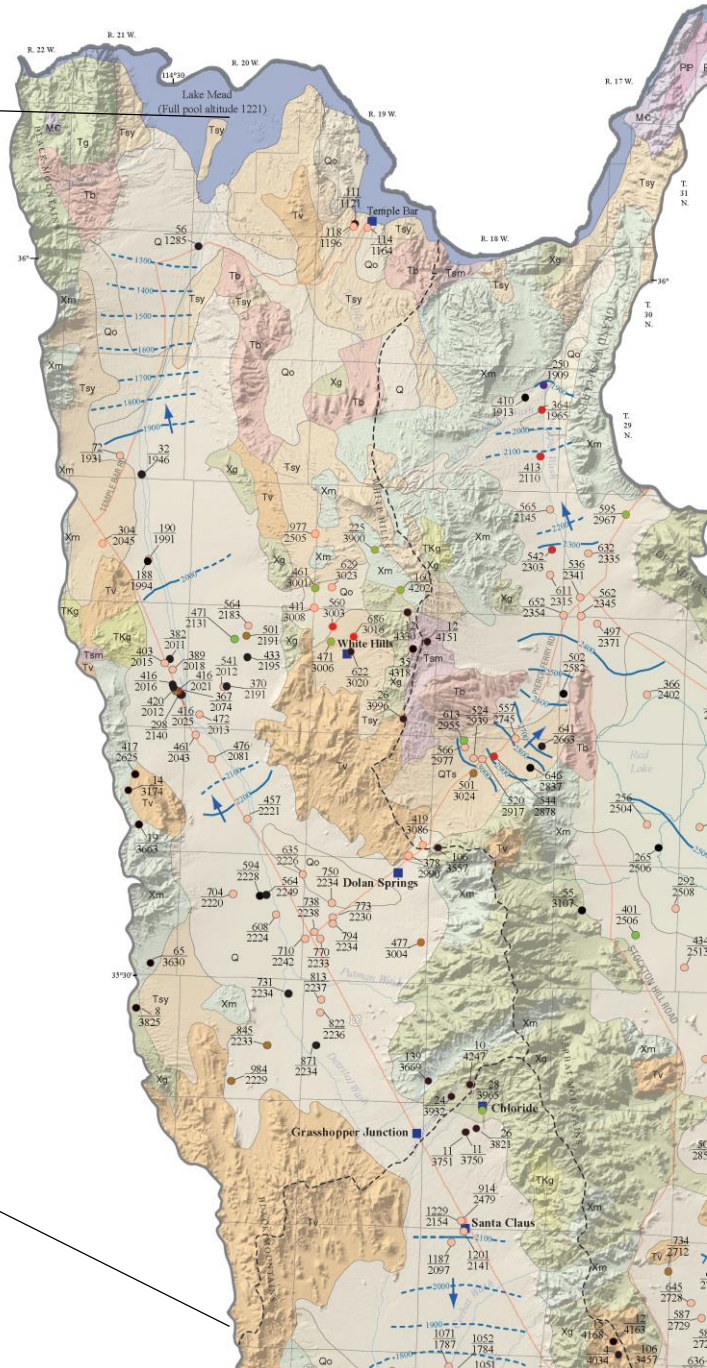


2006 Detrital Valley Groundwater Conditions



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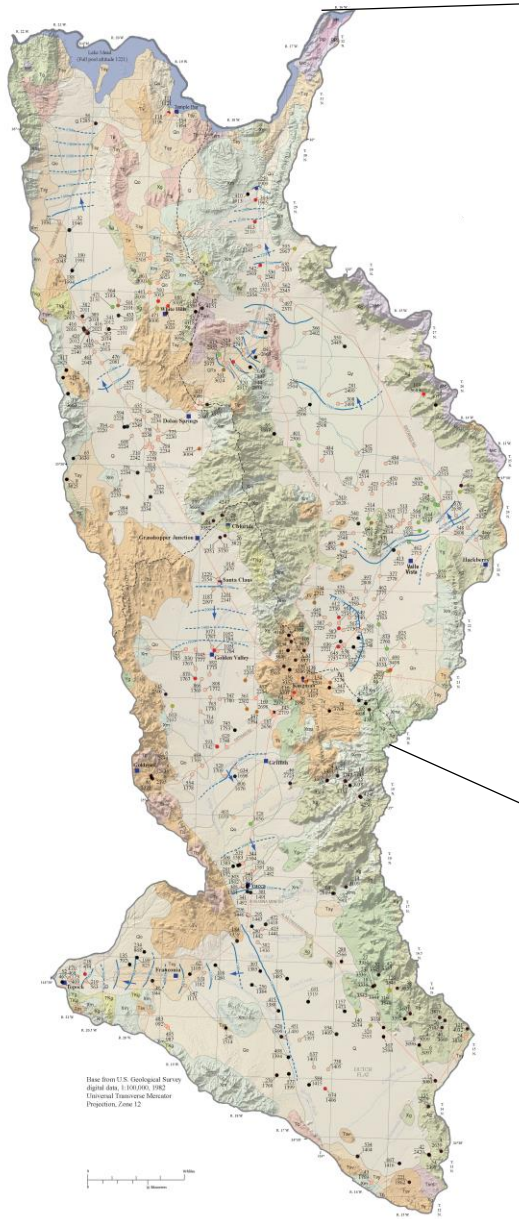
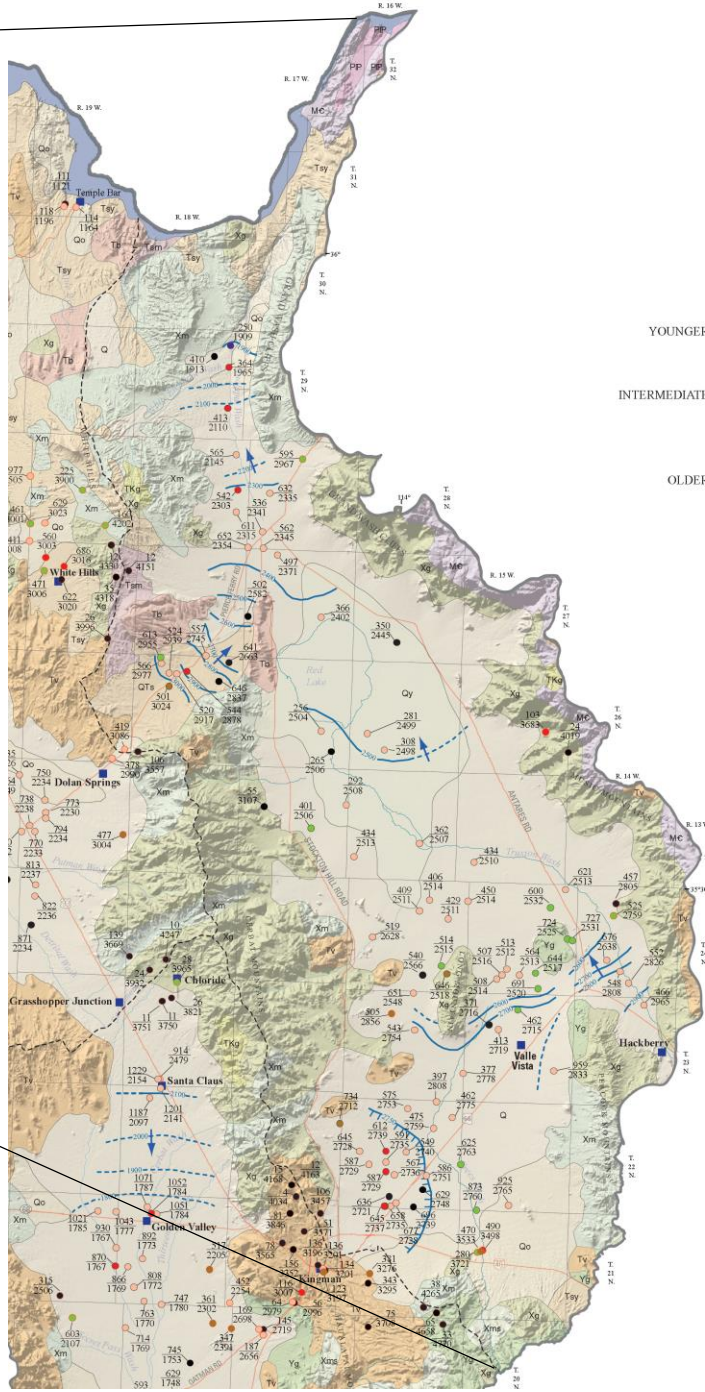


2006 Hualapai Valley Groundwater Conditions

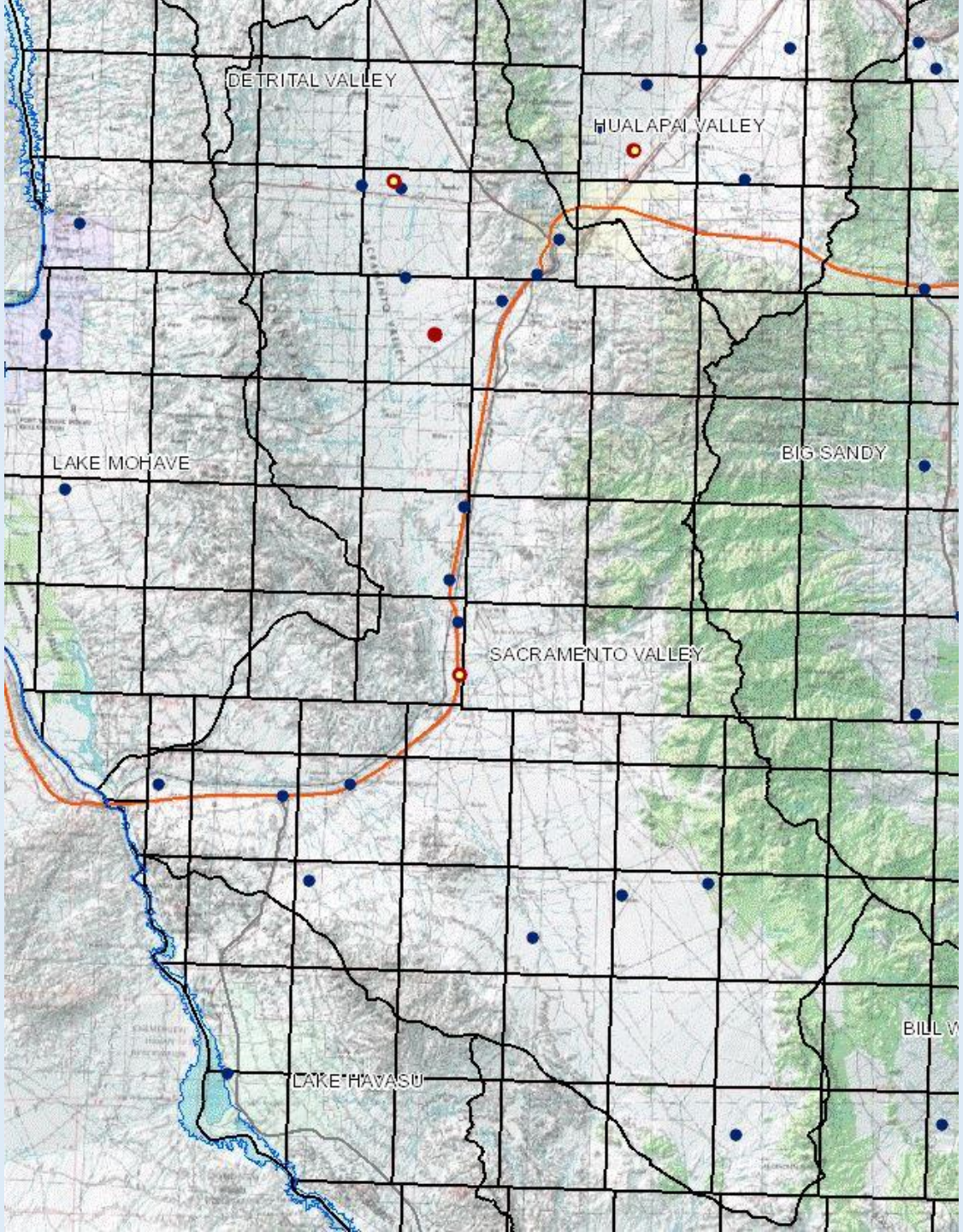


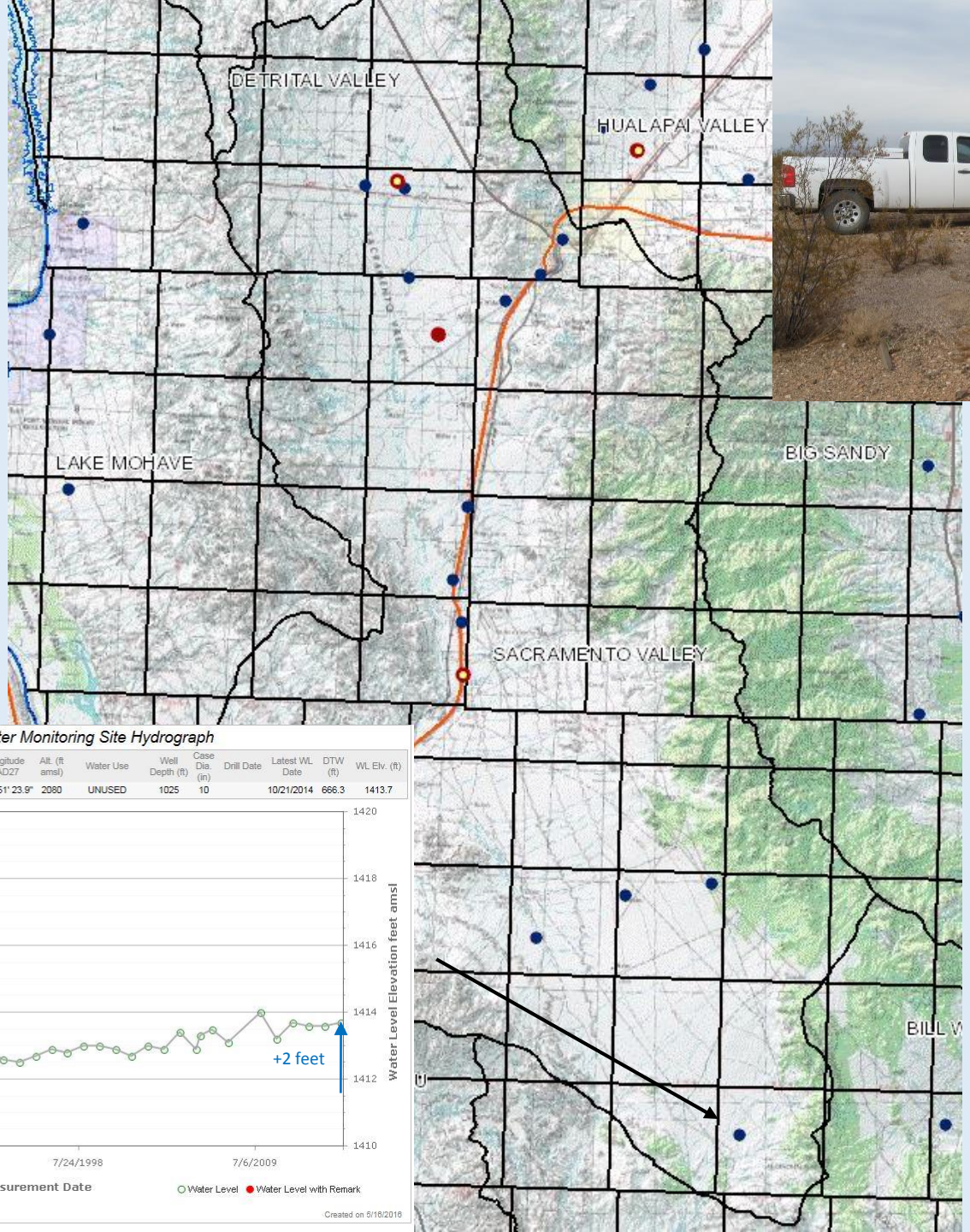
DEPTH TO WATER AND WATER-LEVEL ALTITUDE IN 2006 FOR SELECTED WELLS, DETRITAL, HUALAPAI, AND SACRAMENTO VALLEY BASINS, MOHAVE COUNTY, ARIZONA

By

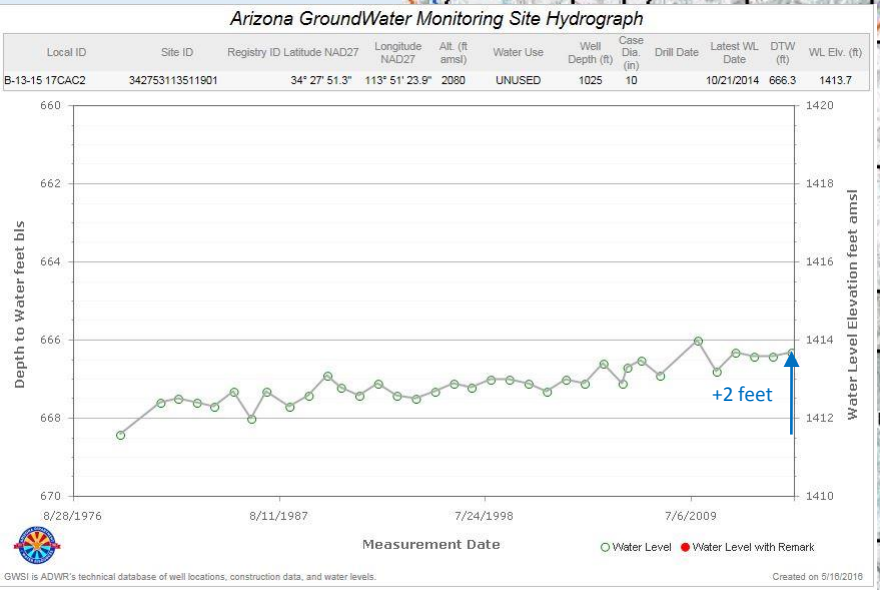
David W. Anning, Margot Truini, Marilyn E. Flynn, and William H. Remick

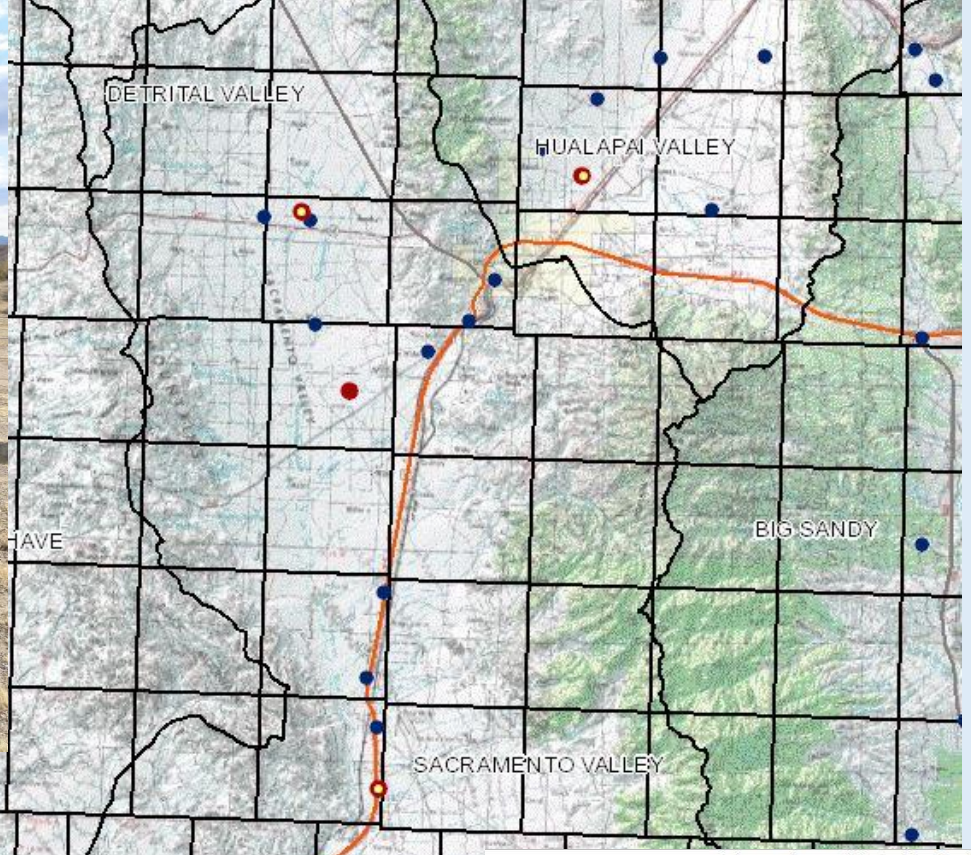
Sacramento Valley Basin

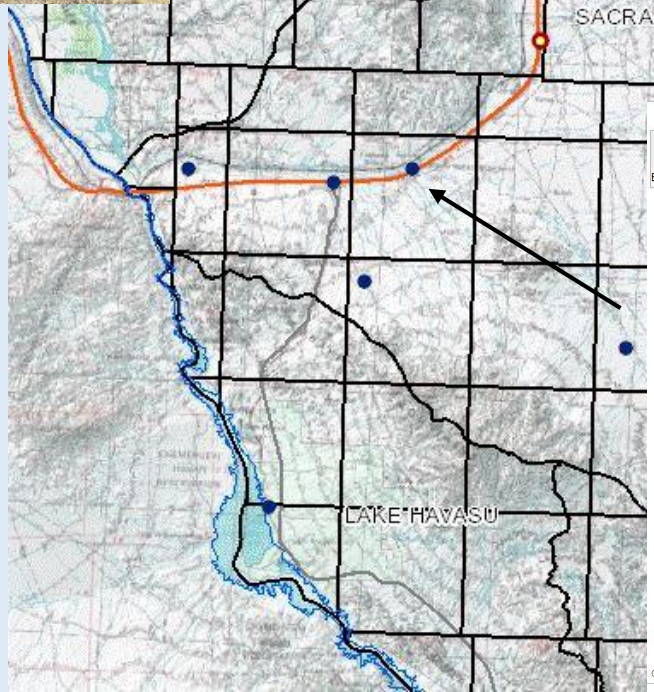



DETRITAL VALLEY
HUALAPAI VALLEY
LAKE MOHAVE
BIG SANDY
SACRAMENTO VALLEY
BILL W

10/27/2009 15:26

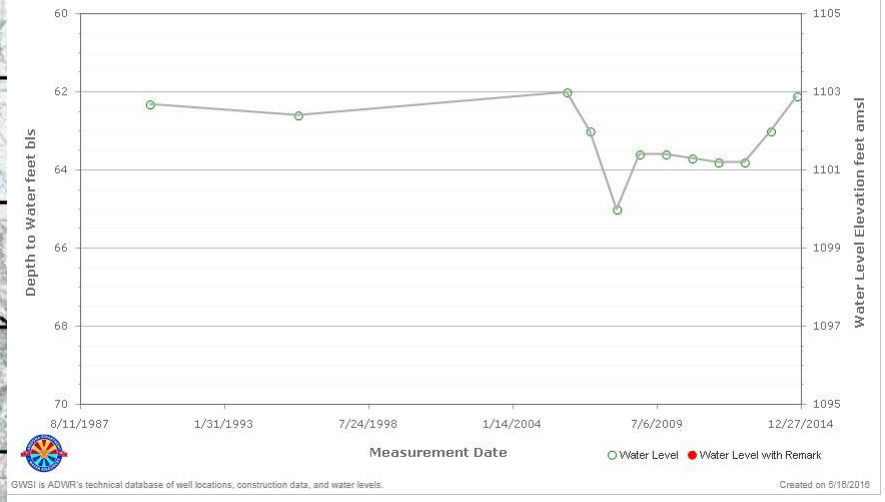

Arizona GroundWater Monitoring Site Hydrograph
Local ID | Site ID | Registry ID | Latitude NAD27 | Longitude NAD27 | Alt. (ft amsl) | Water Use | Well Depth (ft) | Case Dia. (in) | Drill Date | Latest WL Date | DTW (ft) | WL Elv. (ft)
B-13-15 17CAC2 | 342753113511901 | | 34° 27' 51.3" | 113° 51' 23.9" | 2080 | UNUSED | 1025 | 10 | | 10/21/2014 | 666.3 | 1413.7
Depth to Water feet bls
660
662
664
666
668
670
Water Level Elevation feet amsl
1420
1418
1416
1414
1412
1410
+2 feet
8/28/1976
8/11/1987
7/24/1998
7/6/2009
Measurement Date
Water Level
Water Level with Remark
GWSI is ADWR's technical database of well locations, construction data, and water levels.
Created on 5/18/2016

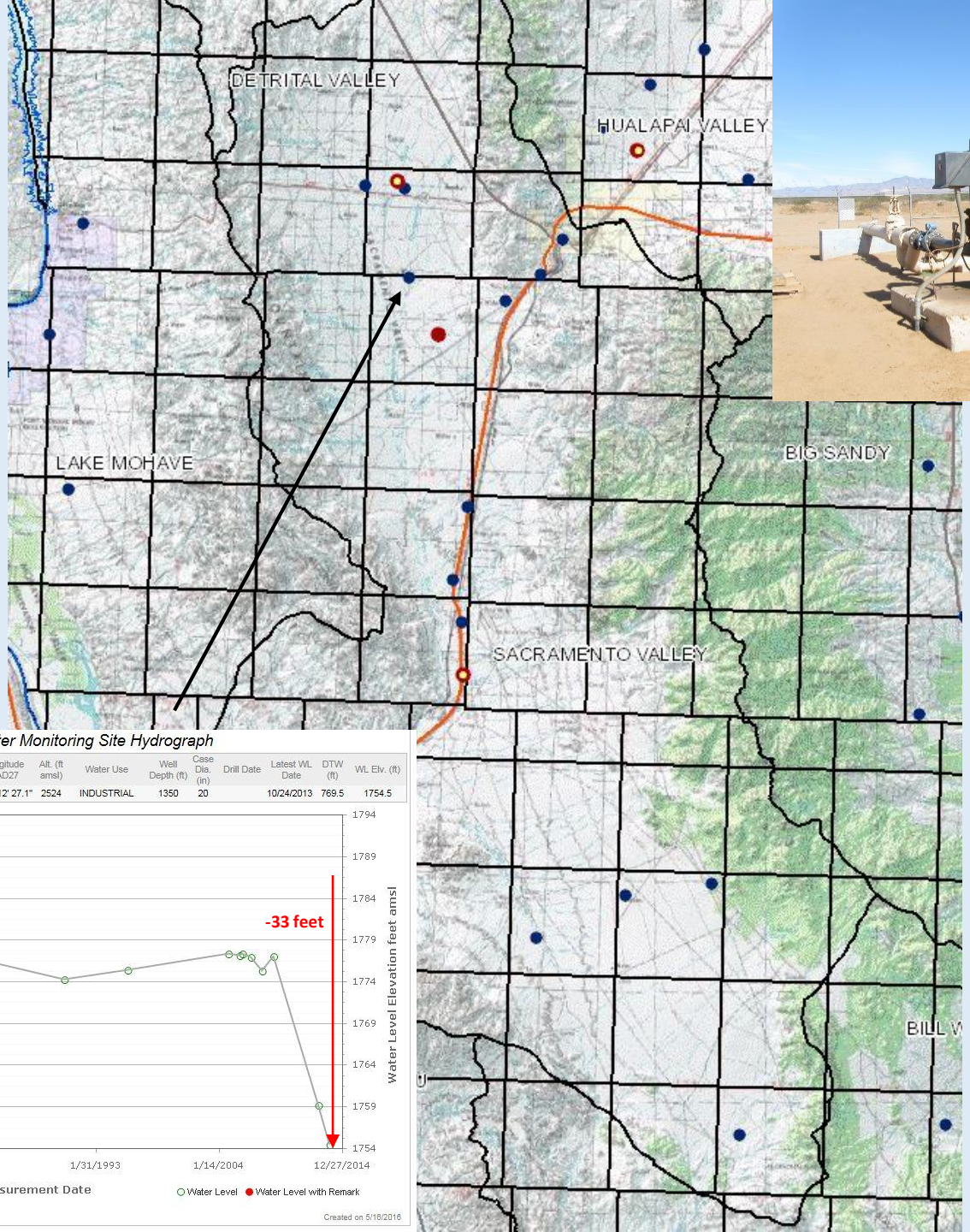




Arizona GroundWater Monitoring Site Hydrograph

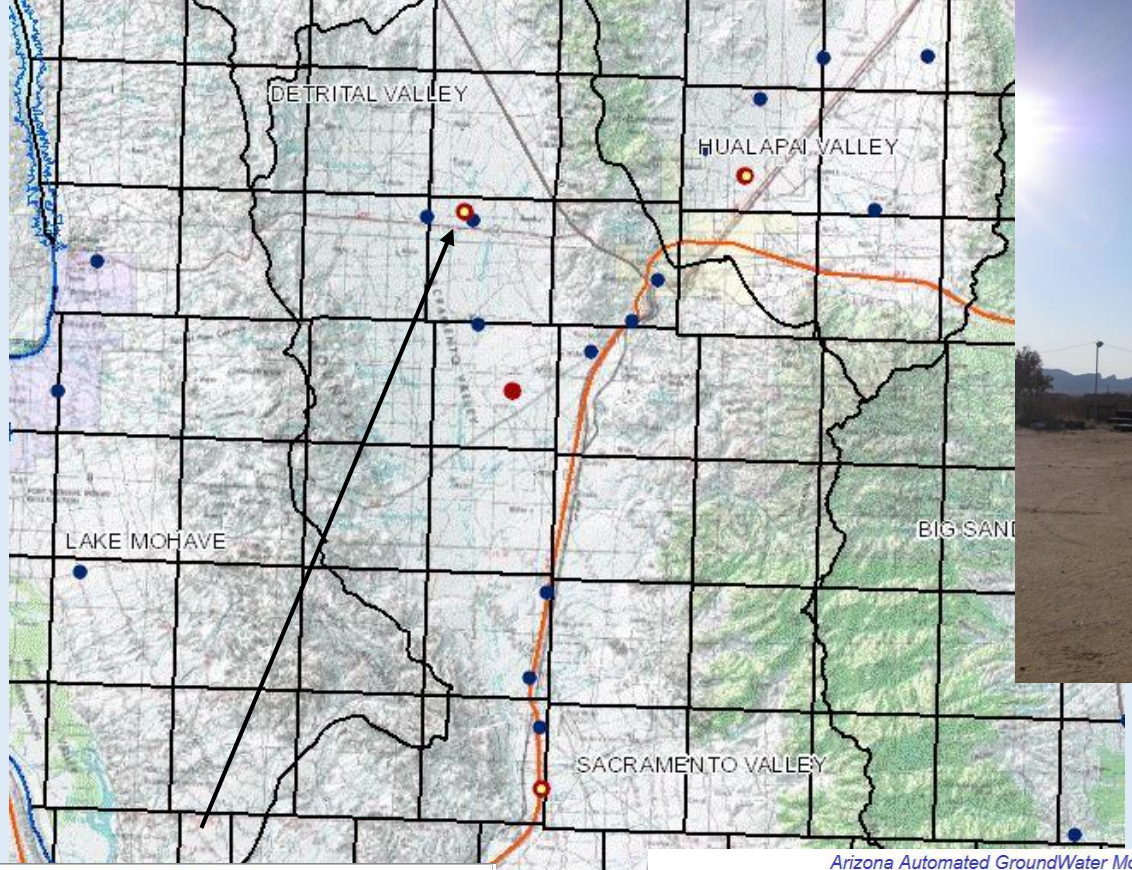
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-16-19 10CBC	344424114144301		34° 44' 23.7"	114° 14' 47.0"	1165	UNUSED	461	10		10/22/2014	62.1	1102.9

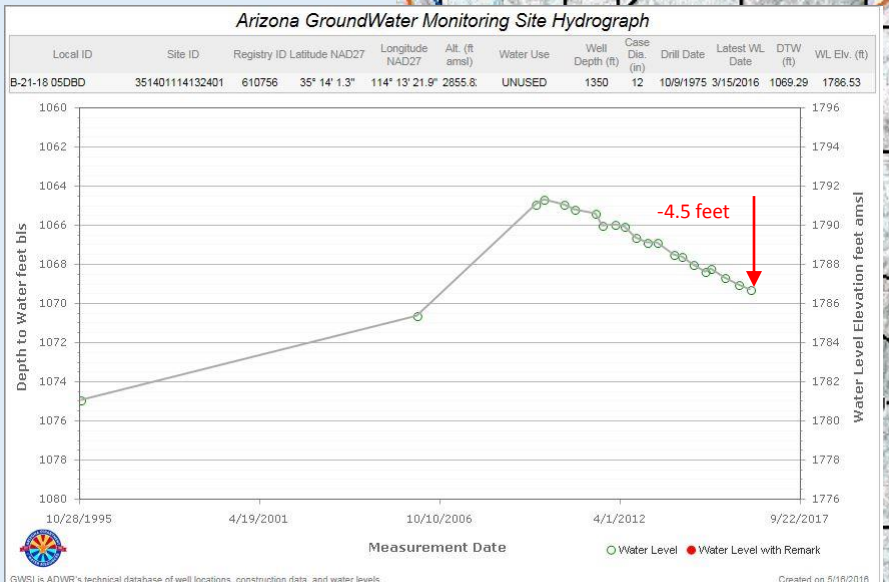


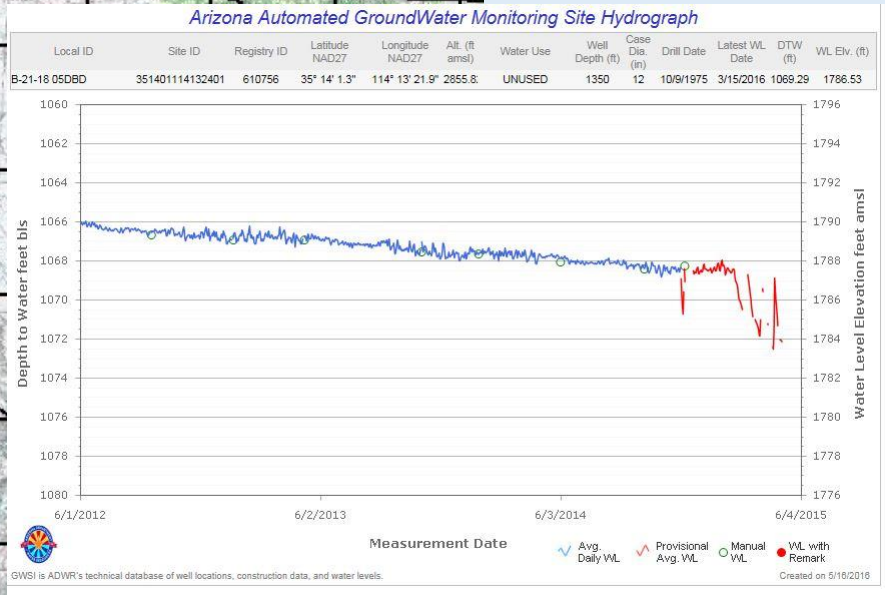


Arizona GroundWater Monitoring Site Hydrograph

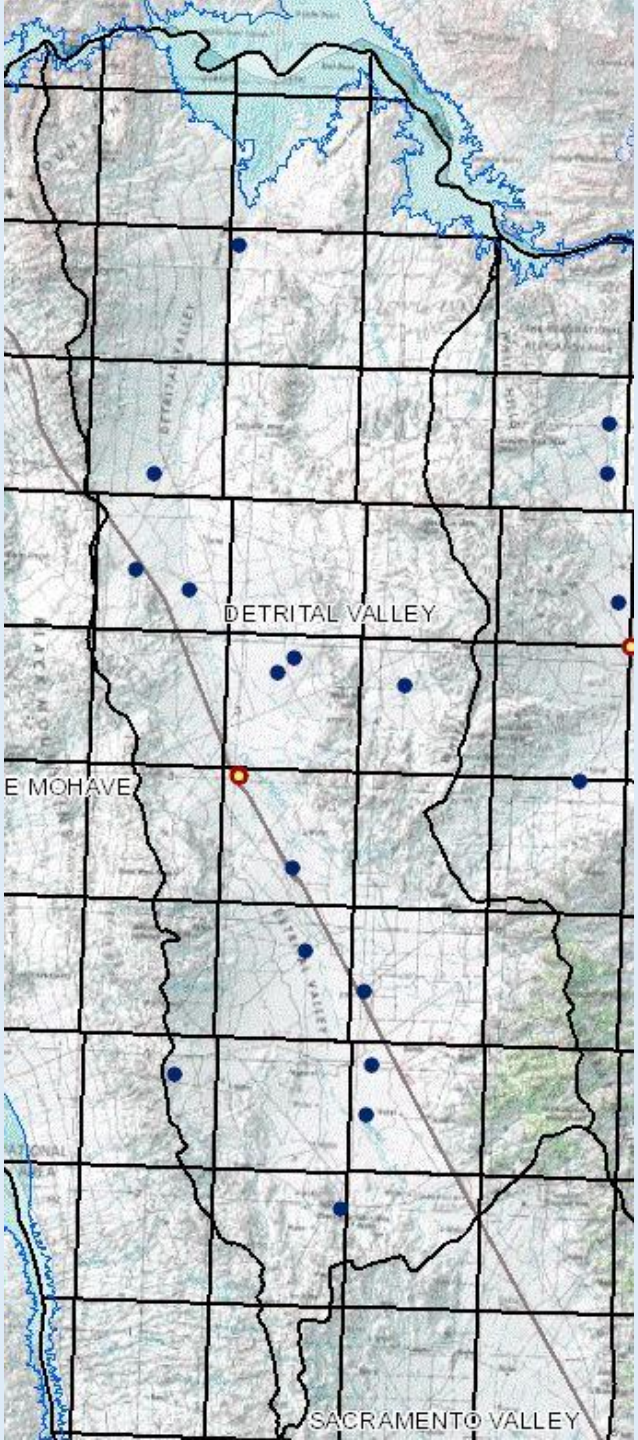
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-20-18 04BBB	350920114122701	623085	35° 9' 19.7"	114° 12' 27.1"	2524	INDUSTRIAL	1350	20		10/24/2013	769.5	1754.5


DETRITAL VALLEY
HUALAPAI VALLEY
LAKE MOHAVE
BIG SAND
SACRAMENTO VALLEY


Arizona GroundWater Monitoring Site Hydrograph
Local ID | Site ID | Registry ID | Latitude NAD27 | Longitude NAD27 | Alt. (ft amsl) | Water Use | Well Depth (ft) | Case Dia. (in) | Drill Date | Latest WL Date | DTW (ft) | WL Elv. (ft)
B-21-18 05DBD | 351401114132401 | 610756 | 35° 14' 1.3" | 114° 13' 21.9" | 2855.8 | UNUSED | 1350 | 12 | 10/9/1975 | 3/15/2016 | 1069.29 | 1786.53
-4.5 feet
Depth to Water feet bls
Water Level Elevation feet amsl
10/28/1995
4/19/2001
10/10/2006
4/1/2012
9/22/2017
Measurement Date
Water Level
Water Level with Remark
GWSI is ADWR's technical database of well locations, construction data, and water levels.
Created on 5/16/2016

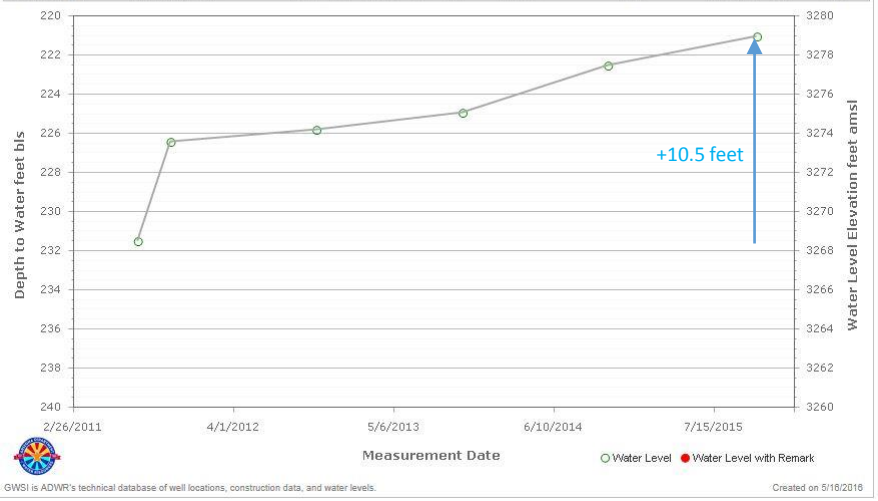

Arizona Automated GroundWater Monitoring Site Hydrograph
Local ID | Site ID | Registry ID | Latitude NAD27 | Longitude NAD27 | Alt. (ft amsl) | Water Use | Well Depth (ft) | Case Dia. (in) | Drill Date | Latest WL Date | DTW (ft) | WL Elv. (ft)
B-21-18 05DBD | 351401114132401 | 610756 | 35° 14' 1.3" | 114° 13' 21.9" | 2855.8 | UNUSED | 1350 | 12 | 10/9/1975 | 3/15/2016 | 1069.29 | 1786.53
Depth to Water feet bls
Water Level Elevation feet amsl
6/1/2012
6/2/2013
6/3/2014
6/4/2015
Measurement Date
Avg. Daily WL
Provisional Avg. WL
Manual WL
WL with Remark
GWSI is ADWR's technical database of well locations, construction data, and water levels.
Created on 5/16/2016

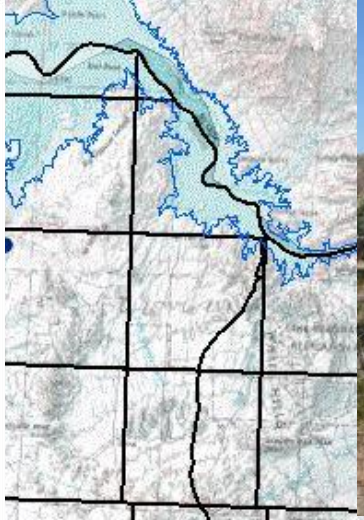
Detrital Valley

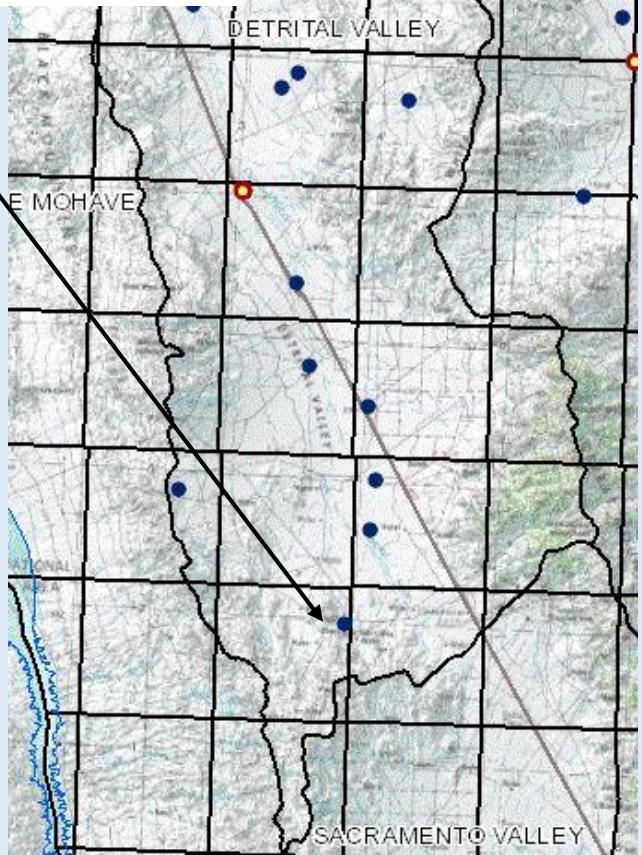


Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-23-20 12DBA2	352341114215001		35° 23' 41.3"	114° 21' 49.7"	3500	STOCK		8.62		10/28/2015	221	3279

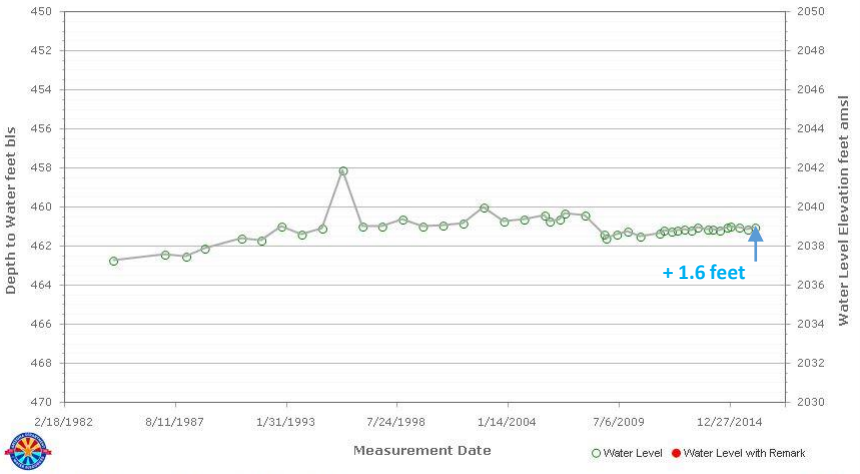






Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-26-20 06ACB	354027114273101	505703	35° 40' 18.5"	114° 27' 21.5"	2499.6	UNUSED	537	8.60	7/27/1983	3/14/2016	461.05	2038.62



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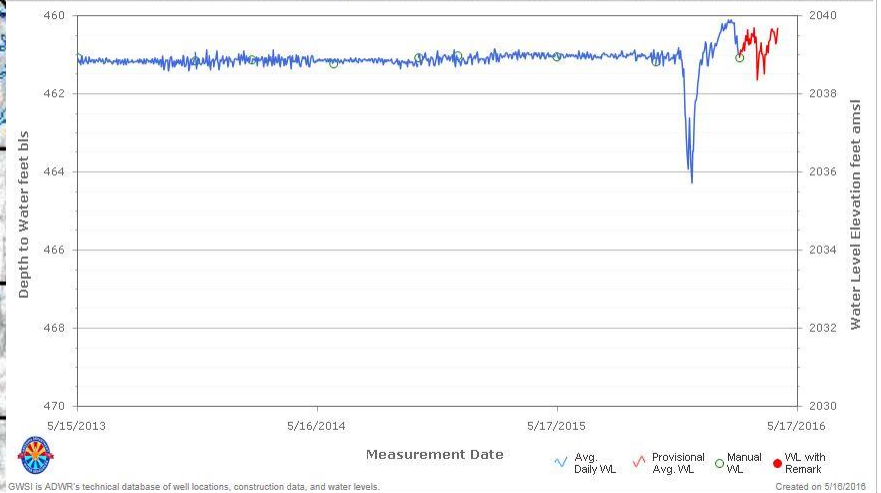
Arizona Automated GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-26-20 06ACB	354027114273101	505703	35° 40' 18.5"	114° 27' 21.5"	2499.6	UNUSED	537	8.60	7/27/1983	3/14/2016	461.05	2038.62



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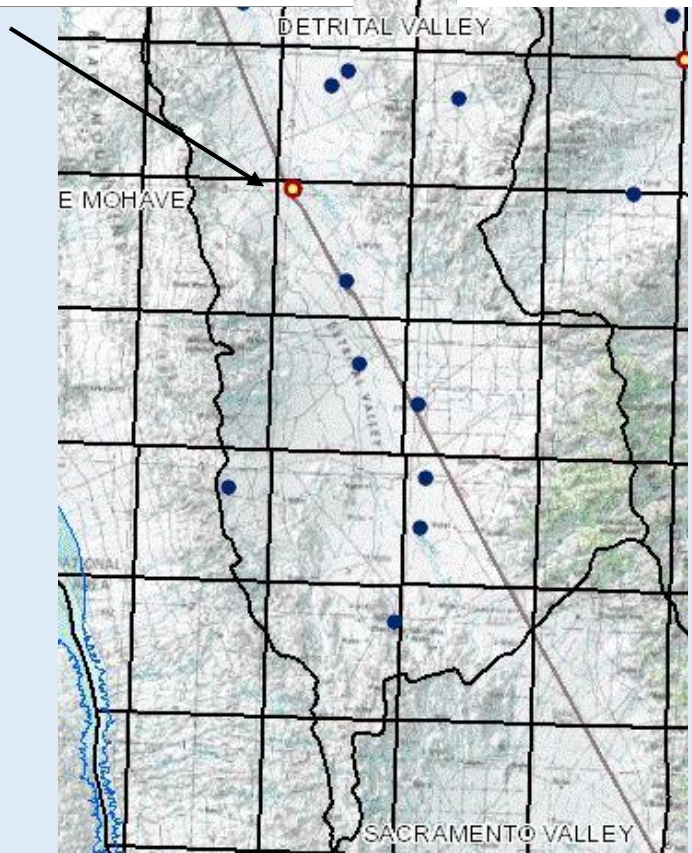
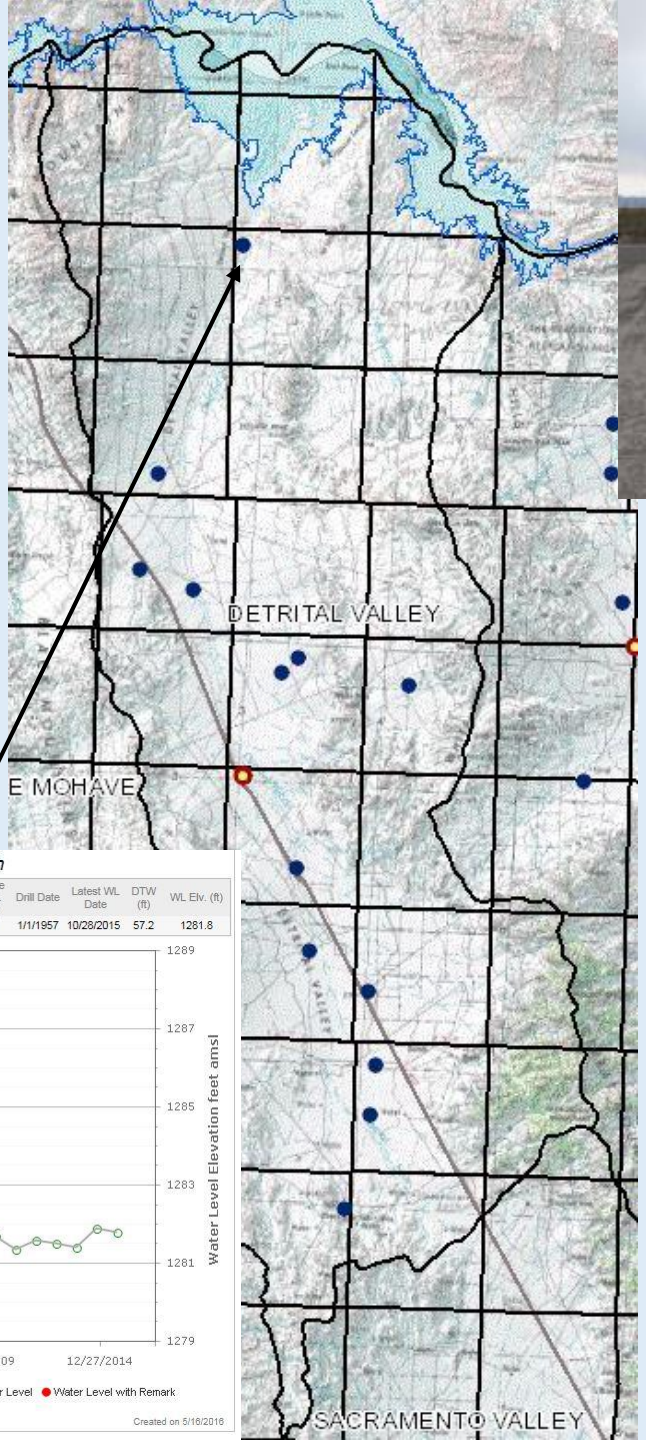
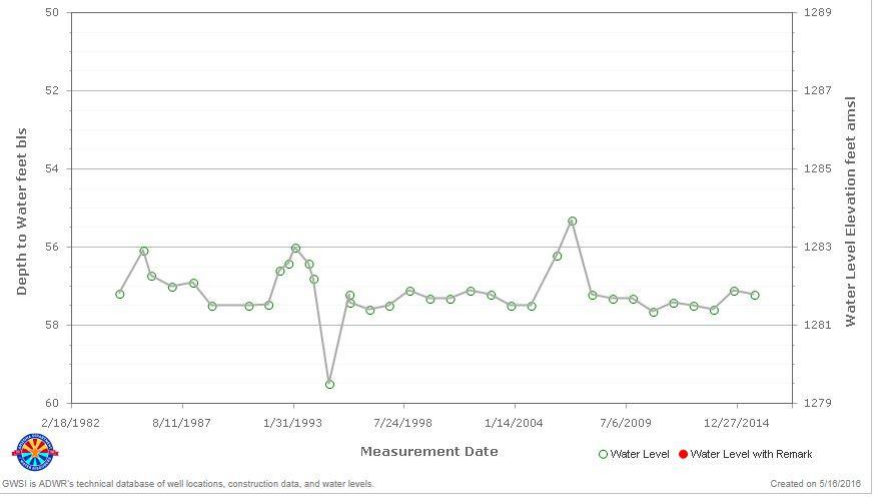


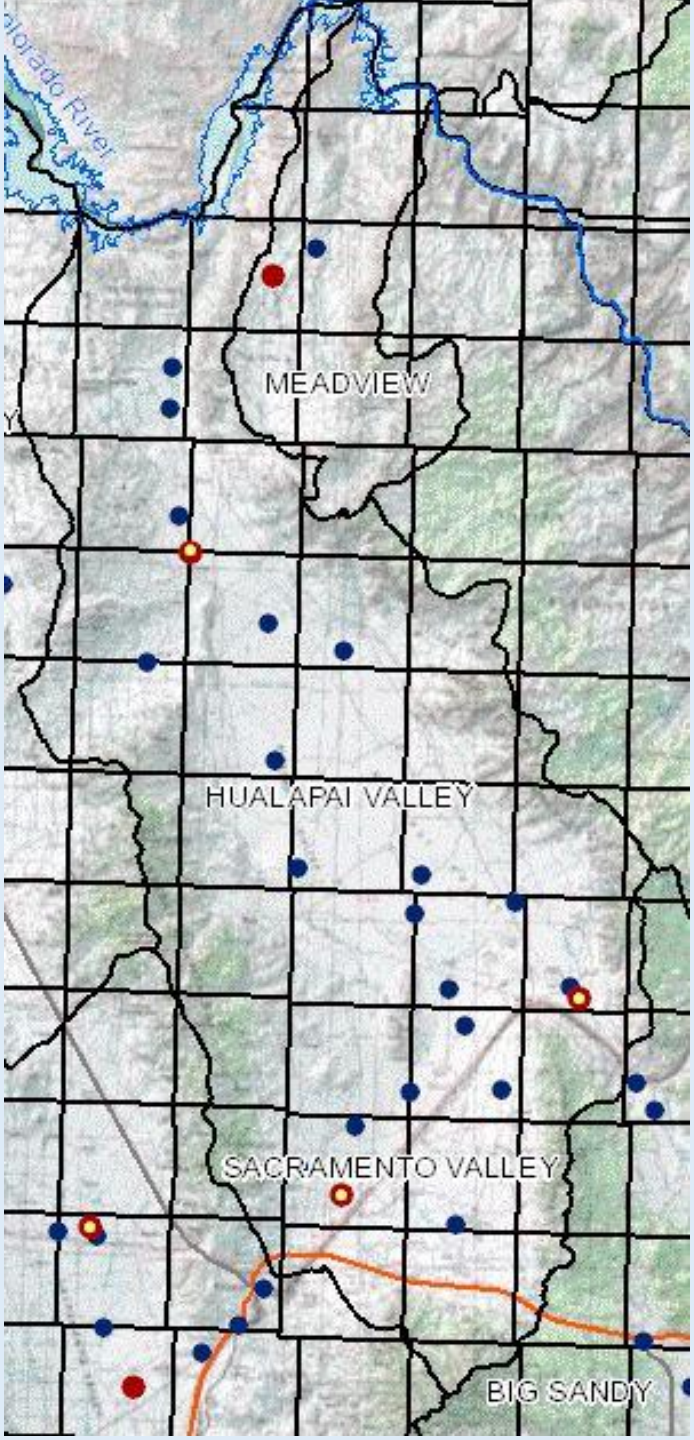


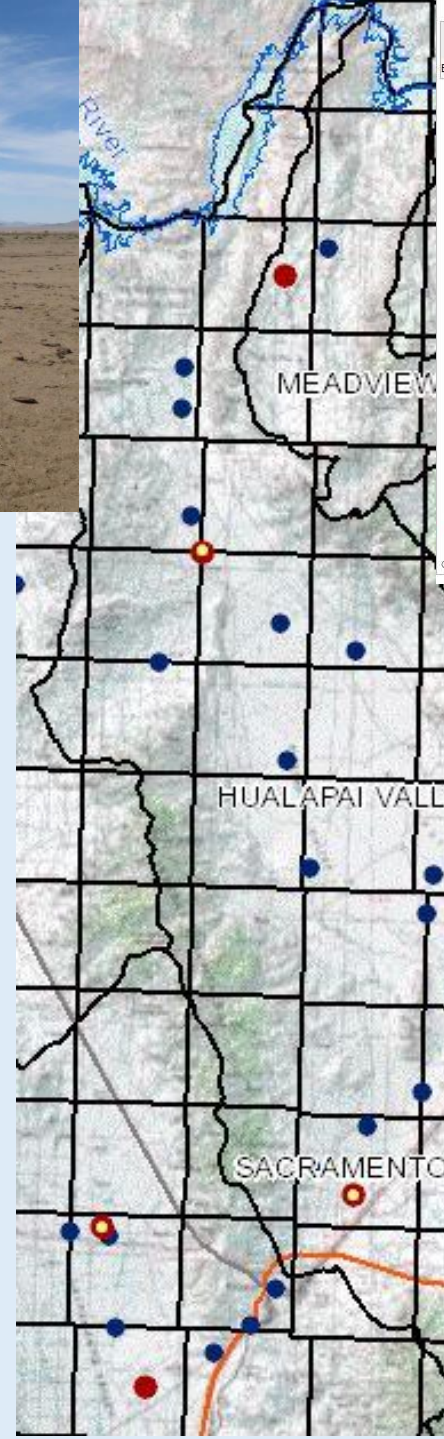
Arizona GroundWater Monitoring Site Hydrograph

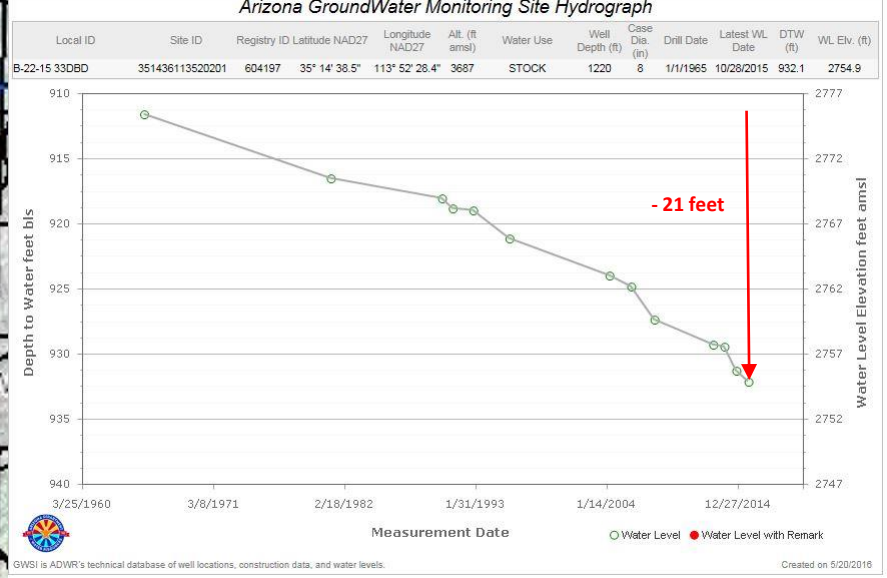
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-30-20 06CAD UNSURV	360105114281101	629128	36° 0' 53.4"	114° 28' 12.8"	1339	UNUSED	185	8	1/1/1957	10/28/2015	57.2	1281.8



Hualapai Valley Basin




River
MEADVIEW
HUALAPAI VALLEY
SACRAMENTO VALLEY
BIG SANDY


Arizona GroundWater Monitoring Site Hydrograph
Local ID | Site ID | Registry ID | Latitude NAD27 | Longitude NAD27 | Alt. (ft amsl) | Water Use | Well Depth (ft) | Case Dia. (in) | Drill Date | Latest WL Date | DTW (ft) | WL Elv. (ft)
B-22-15 33DBD | 351436113520201 | 604197 | 35° 14' 38.5" | 113° 52' 28.4" | 3687 | STOCK | 1220 | 8 | 1/1/1965 | 10/28/2015 | 932.1 | 2754.9
- 21 feet
Depth to Water feet bls
910
915
920
925
930
935
940
Water Level Elevation feet amsl
2777
2772
2767
2762
2757
2752
2747
3/25/1960
3/8/1971
2/18/1982
1/31/1993
1/14/2004
12/27/2014
Measurement Date
Water Level
Water Level with Remark
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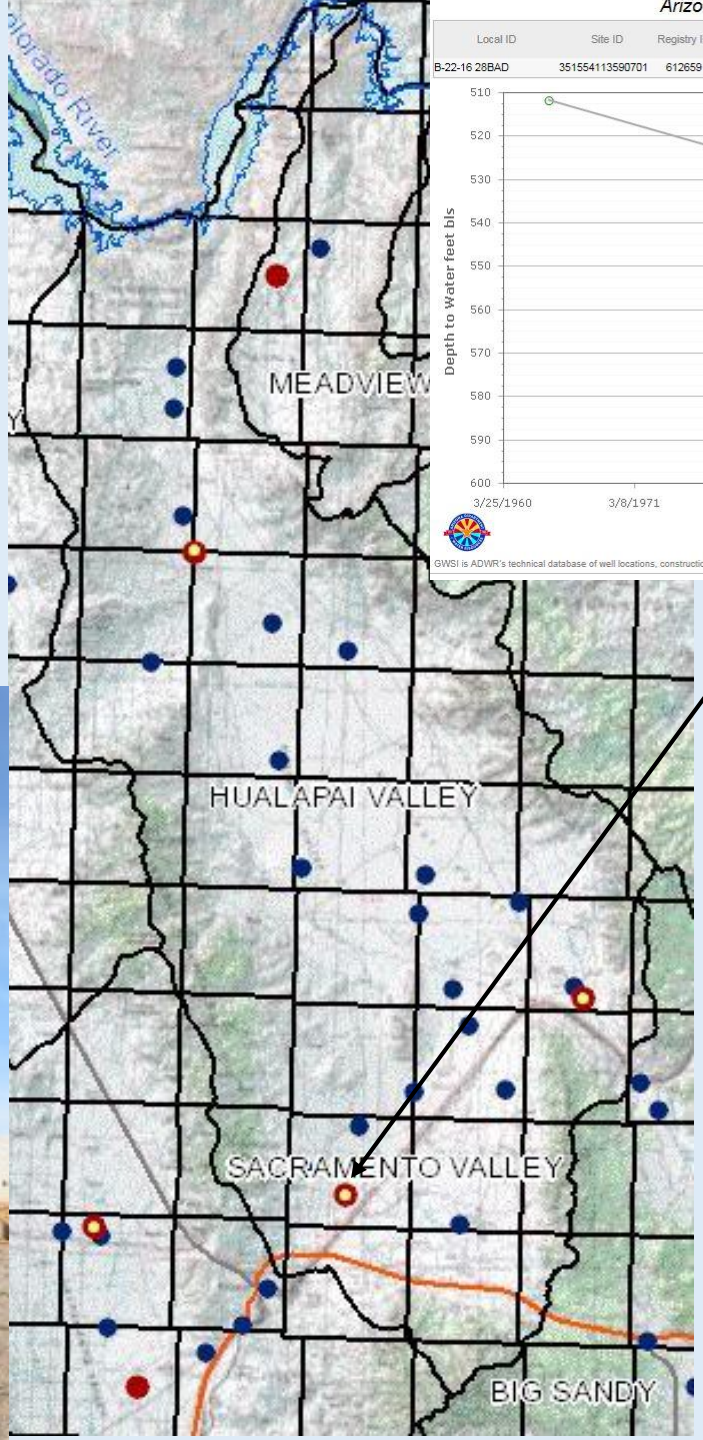
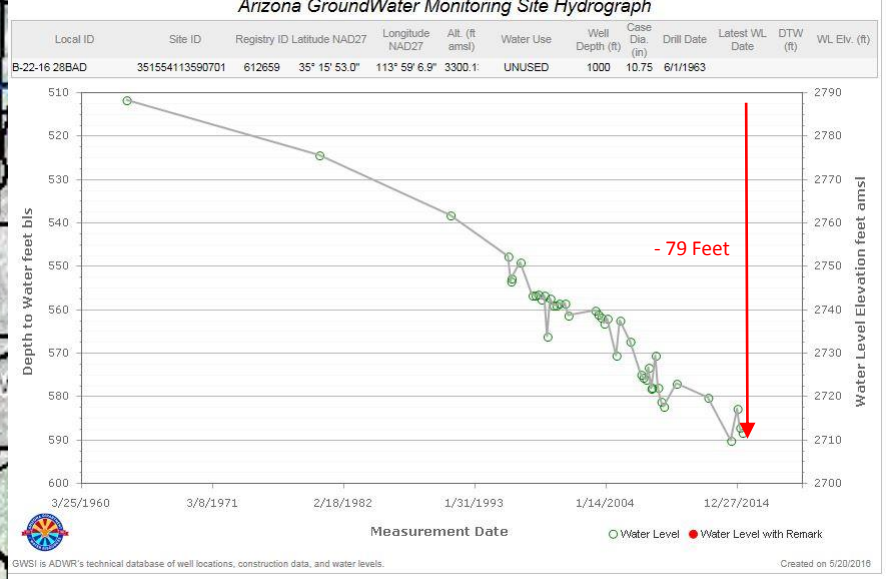
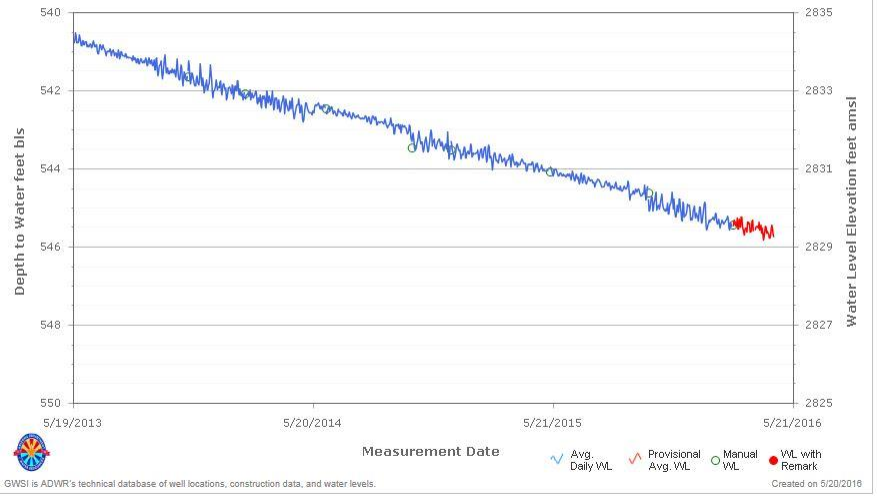
Created on 5/20/2016


MEADVIEW
HUALAPAI VALLEY
SACRAMENTO VALLEY
BIG SANDY


Arizona GroundWater Monitoring Site Hydrograph
Local ID | Site ID | Registry ID | Latitude NAD27 | Longitude NAD27 | Alt. (ft amsl) | Water Use | Well Depth (ft) | Case Dia. (in) | Drill Date | Latest WL Date | DTW (ft) | WL Elv. (ft)
B-22-16 28BAD | 351554113590701 | 612659 | 35° 15' 53.0" | 113° 59' 6.9" | 3300.1 | UNUSED | 1000 | 10.75 | 6/1/1963
Depth to Water feet bls
Water Level Elevation feet amsl
- 79 Feet
3/25/1960
3/8/1971
2/18/1982
1/31/1993
1/14/2004
12/27/2014
Measurement Date
Water Level
Water Level with Remark
GWSI is ADWR's technical database of well locations, construction data, and water levels.
Created on 5/20/2016

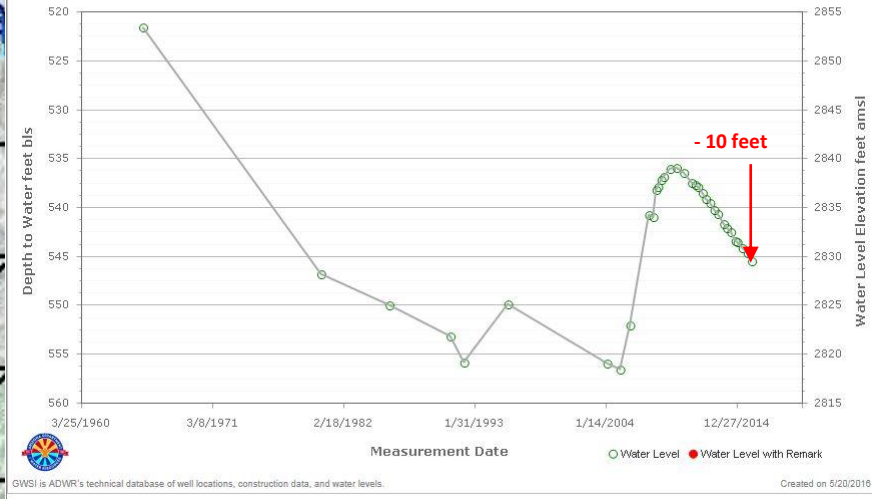
Arizona Automated GroundWater Monitoring Site Hydrograph

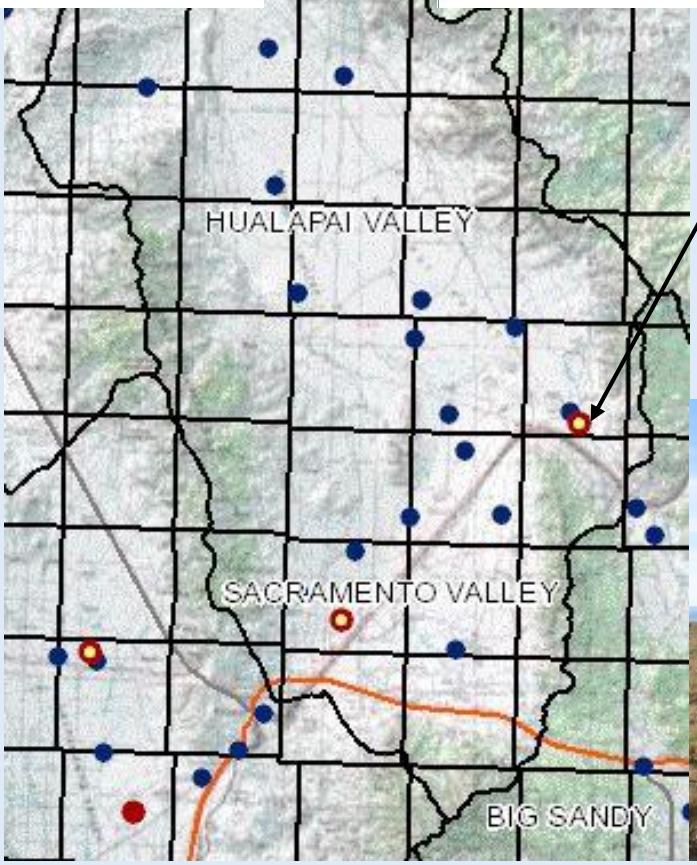
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-24-14 33ADA	352518113454001		35° 25' 26.1"	113° 45' 49.5"	3374.8	UNUSED	623	16	1/1/1944	3/14/2016	545.42	2829.43

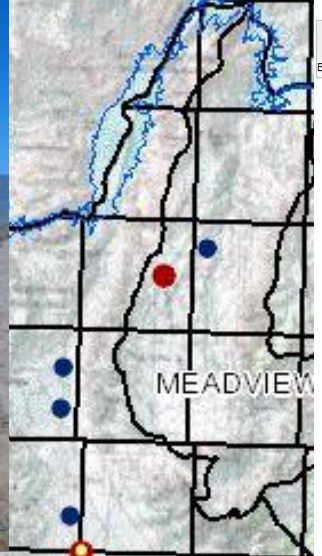


Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-24-14 33ADA	352518113454001		35° 25' 26.1"	113° 45' 49.5"	3374.8	UNUSED	623	16	1/1/1944	3/14/2016	545.42	2829.43

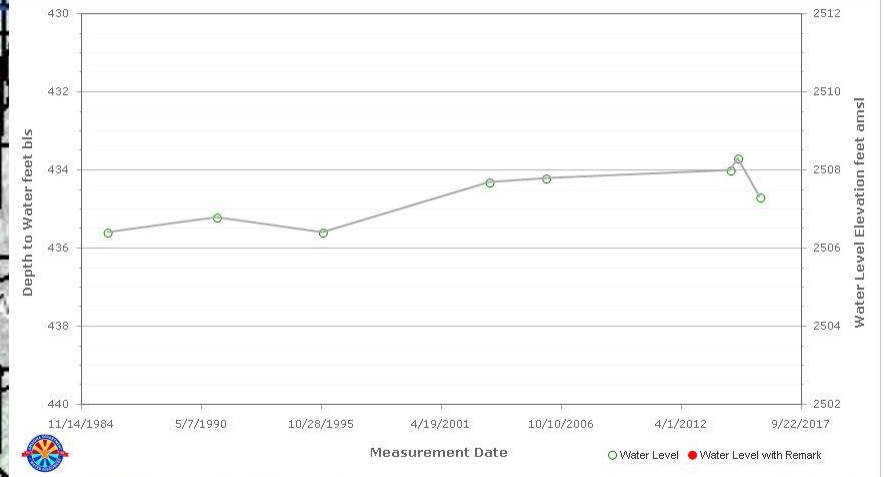






Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-25-15 29CCC	353103113550201	606907	35° 31' 2.1"	113° 55' 2.4"	2942	UNUSED		8		10/27/2015	434.7	2507.3



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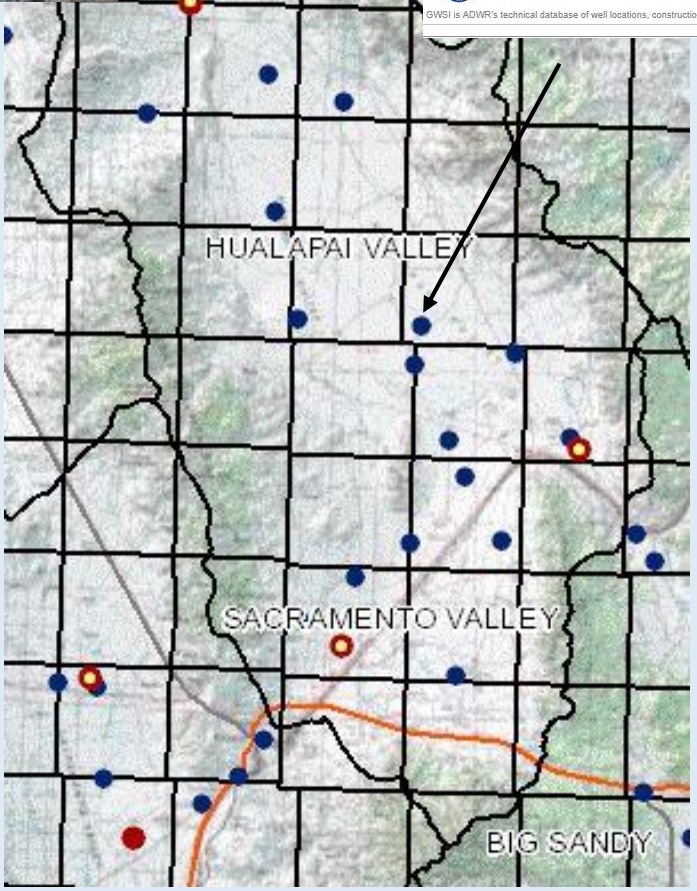
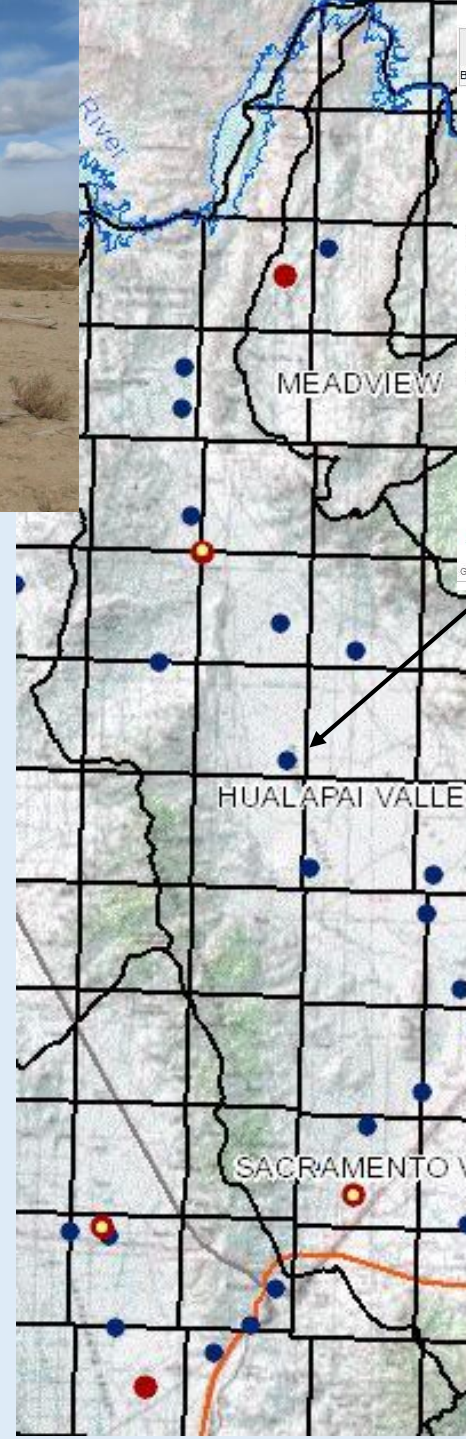
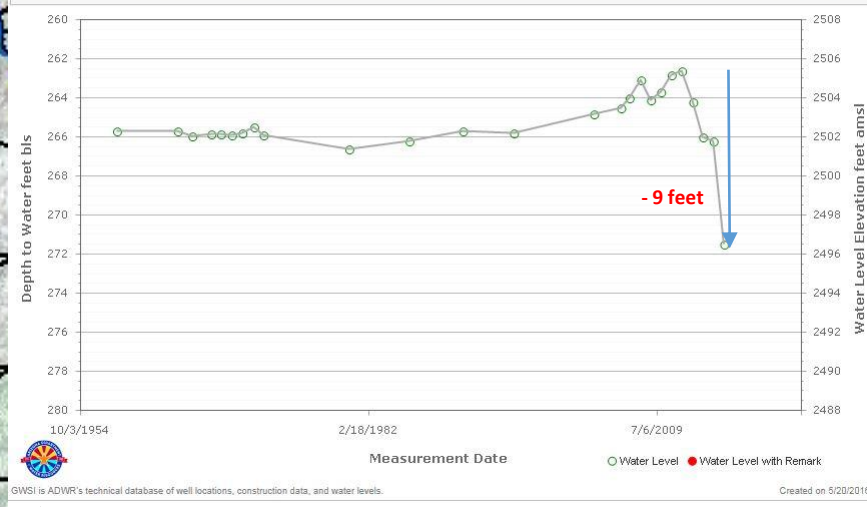
Created on 5/20/2016

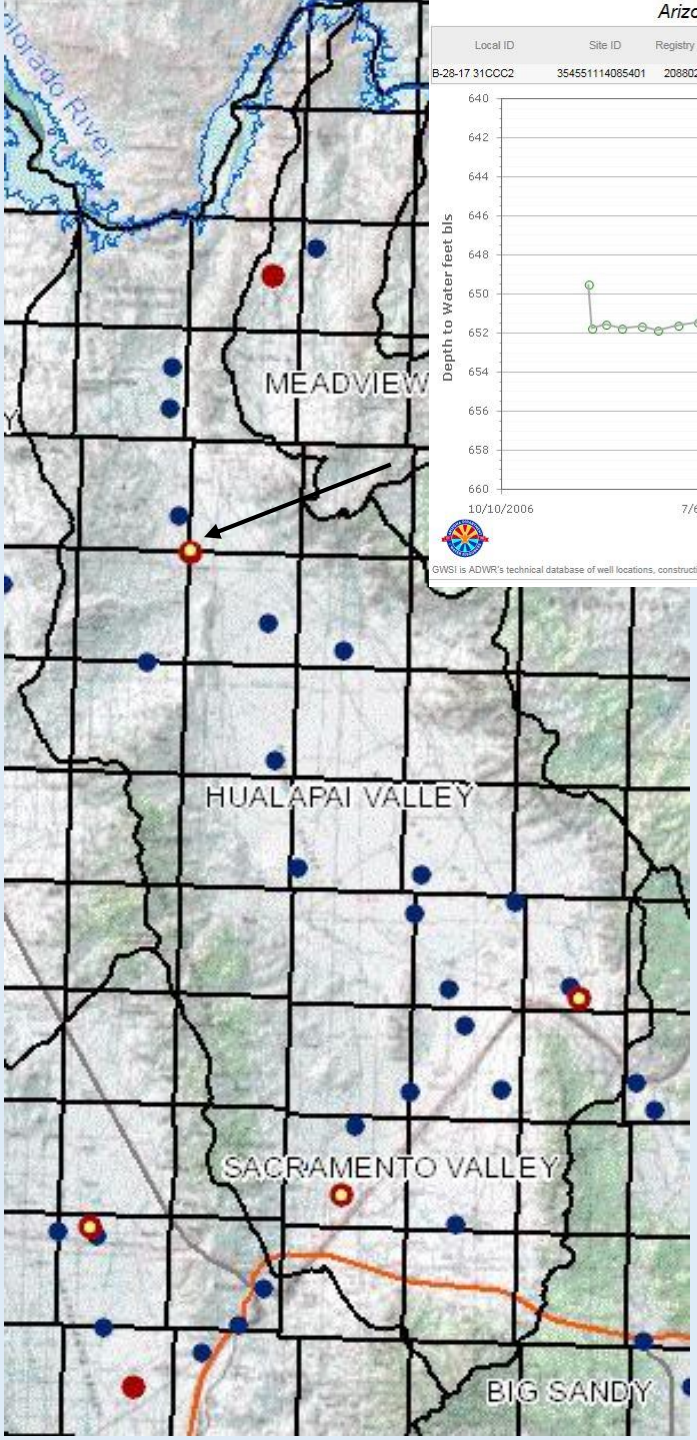




Arizona GroundWater Monitoring Site Hydrograph

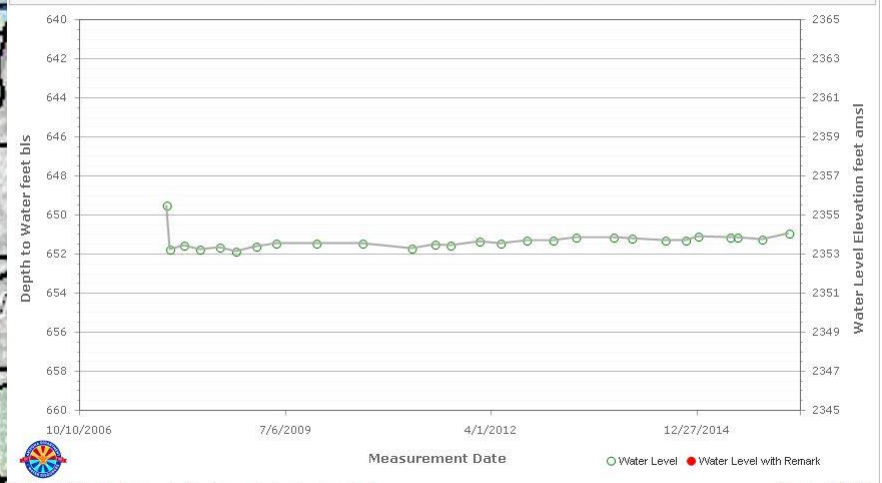
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-26-17 35AAA	353610114033501	600500	35° 36' 12.4"	114° 3' 39.2"	2768	STOCK	700	14	6/1/1957	10/26/2015	271.5	2496.5





Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elev. (ft)
B-28-17 31CCC2	354551114085401	208802	35° 45' 50.7"	114° 8' 54.6"	3004.8'	UNUSED	714	16	12/8/2005	3/14/2016	650.93	2353.94



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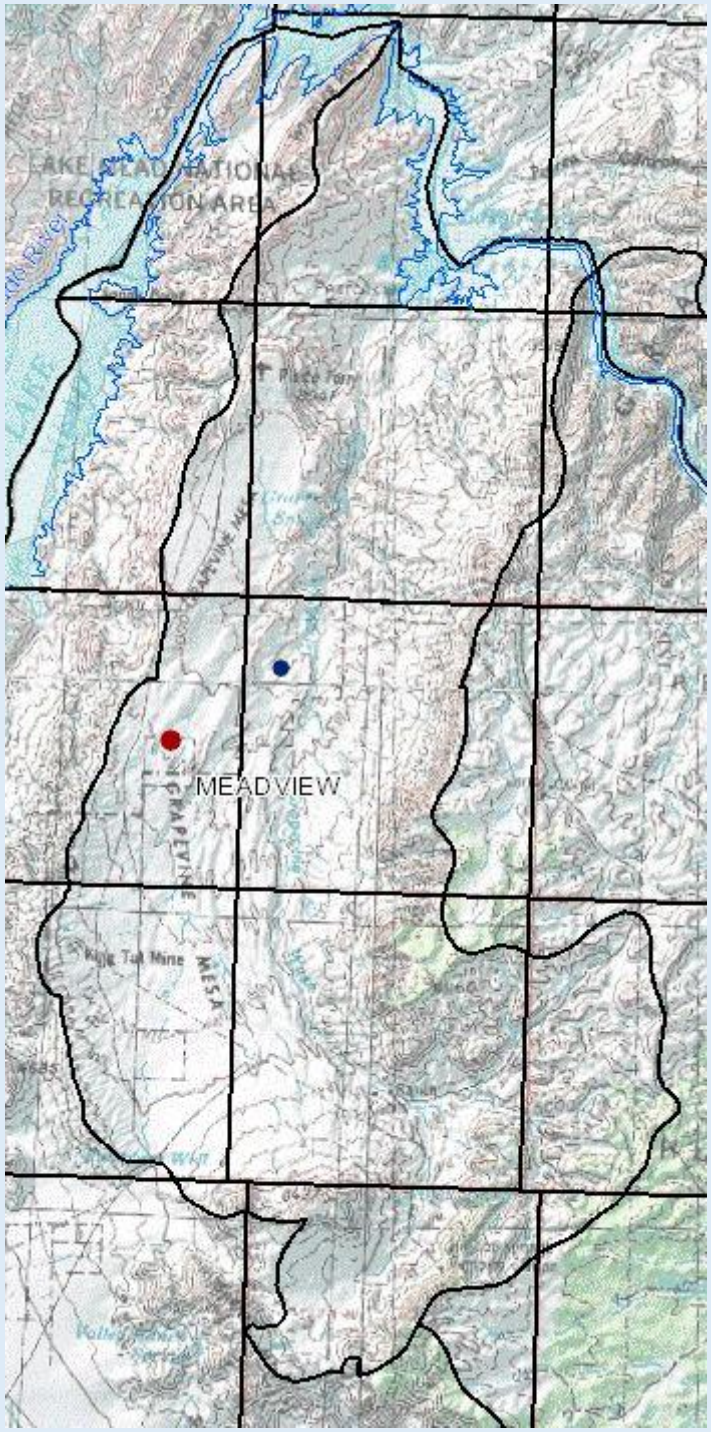
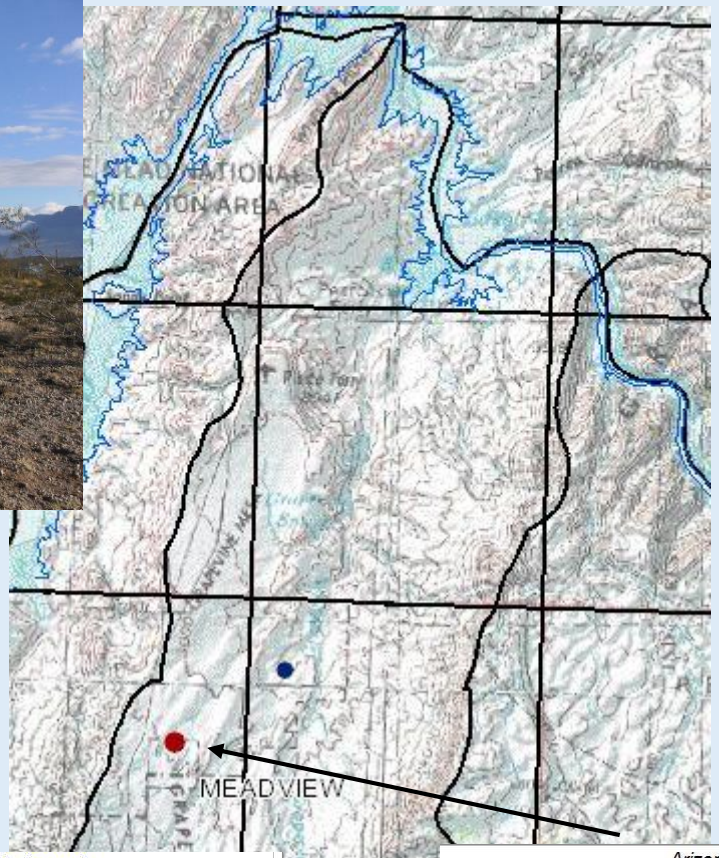
Created on 5/20/2016

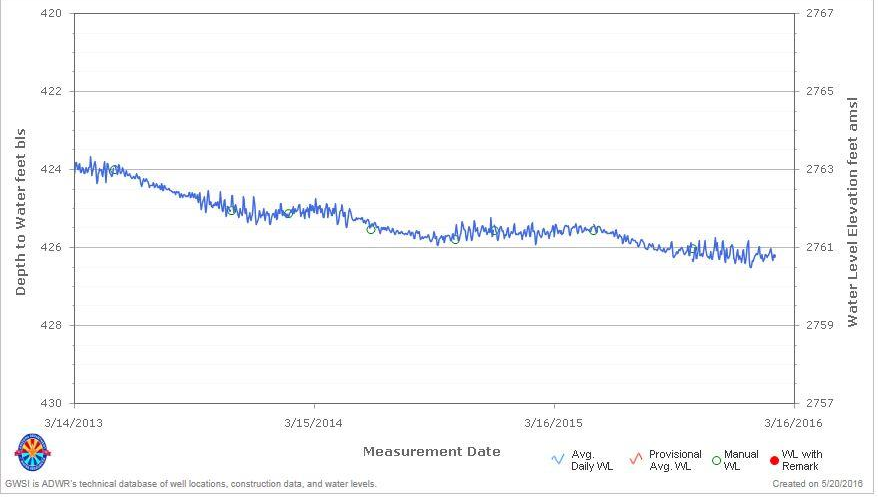
Meadview Basin





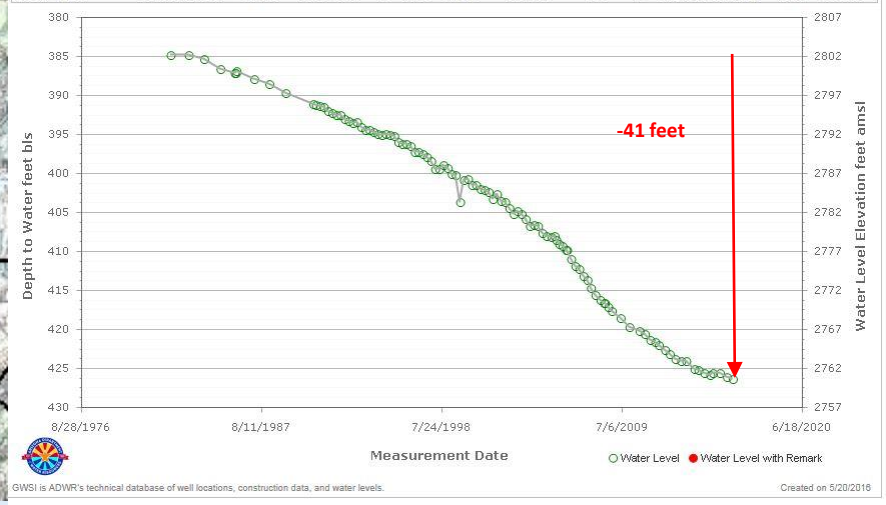
Arizona Automated GroundWater Monitoring Site Hydrograph

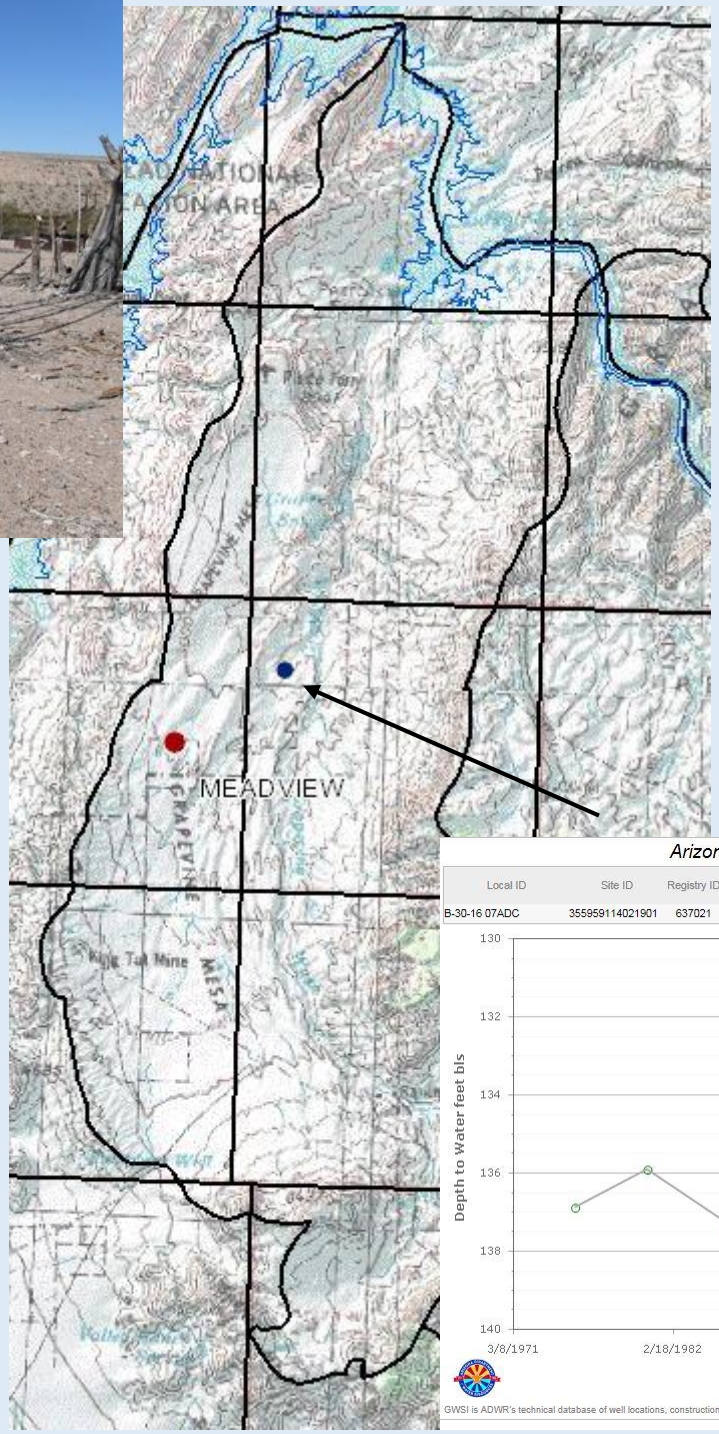
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-30-17 14DCC	355855114043501	610730	35° 58' 55.2"	114° 4' 33.9"	3187.0	UNUSED	650	8	11/6/1973	3/14/2016	426.25	2760.79



Arizona GroundWater Monitoring Site Hydrograph

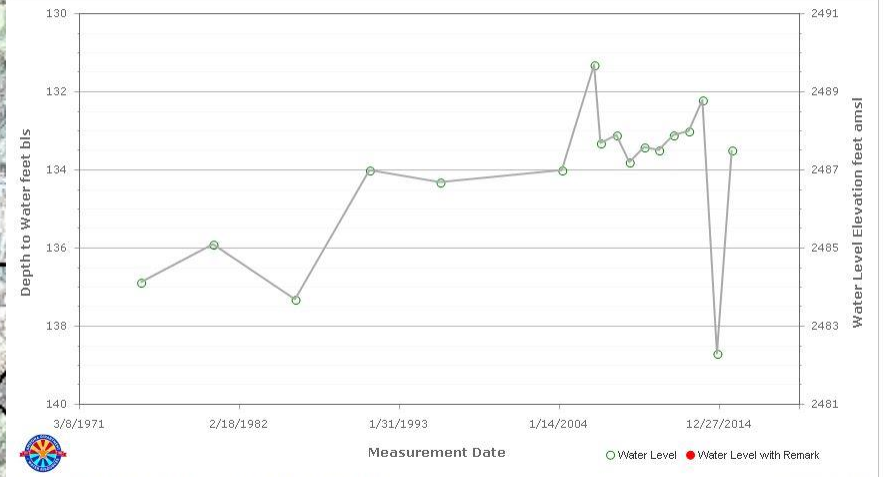
Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-30-17 14DCC	355855114043501	610730	35° 58' 55.2"	114° 4' 33.9"	3187.0	UNUSED	650	8	11/6/1973	3/14/2016	426.25	2760.79





Arizona GroundWater Monitoring Site Hydrograph

Local ID	Site ID	Registry ID	Latitude NAD27	Longitude NAD27	Alt. (ft amsl)	Water Use	Well Depth (ft)	Case Dia. (in)	Drill Date	Latest WL Date	DTW (ft)	WL Elv. (ft)
B-30-16 07ADC	355959114021901	637021	36° 0' 16.0"	114° 2' 10.0"	2621	UNUSED	166	6		10/27/2015	133.5	2487.5



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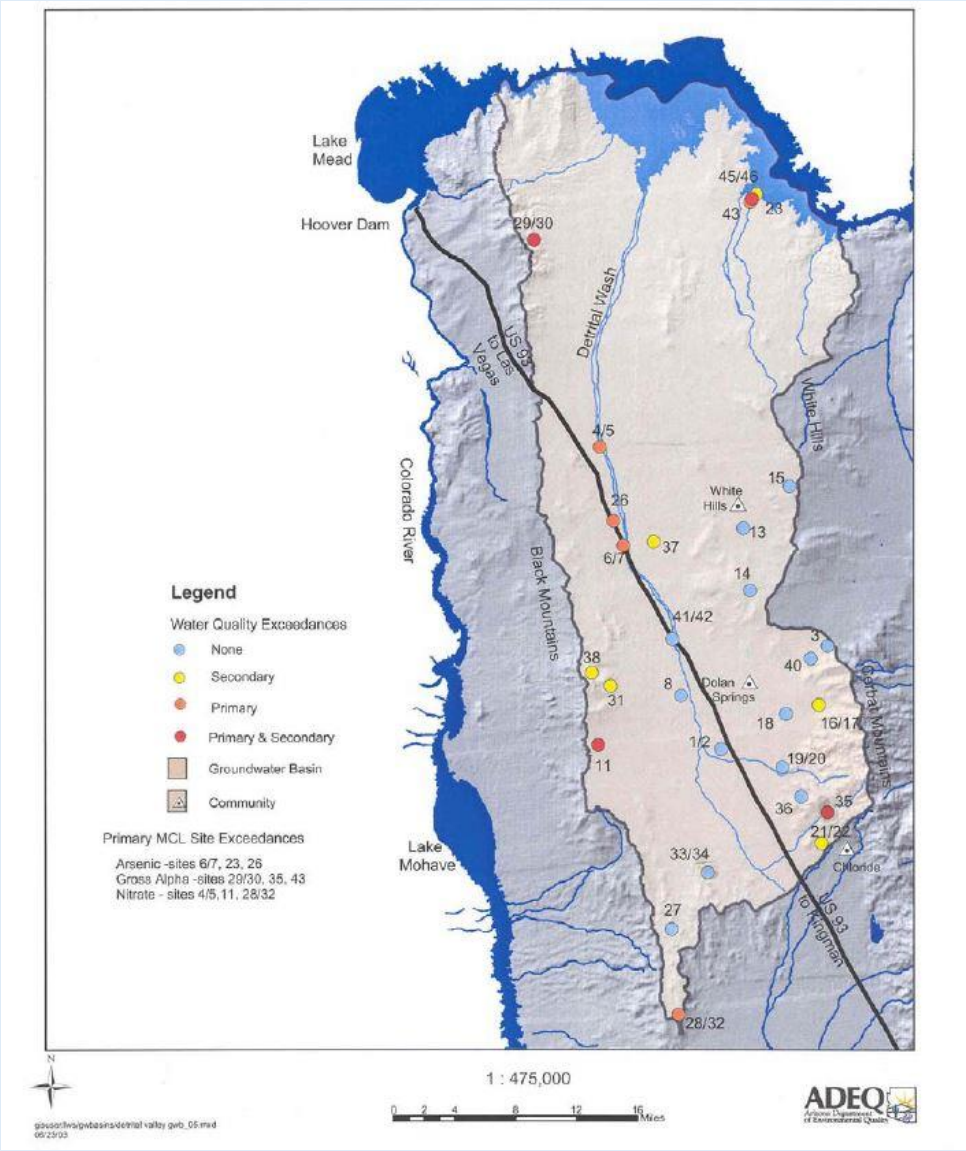
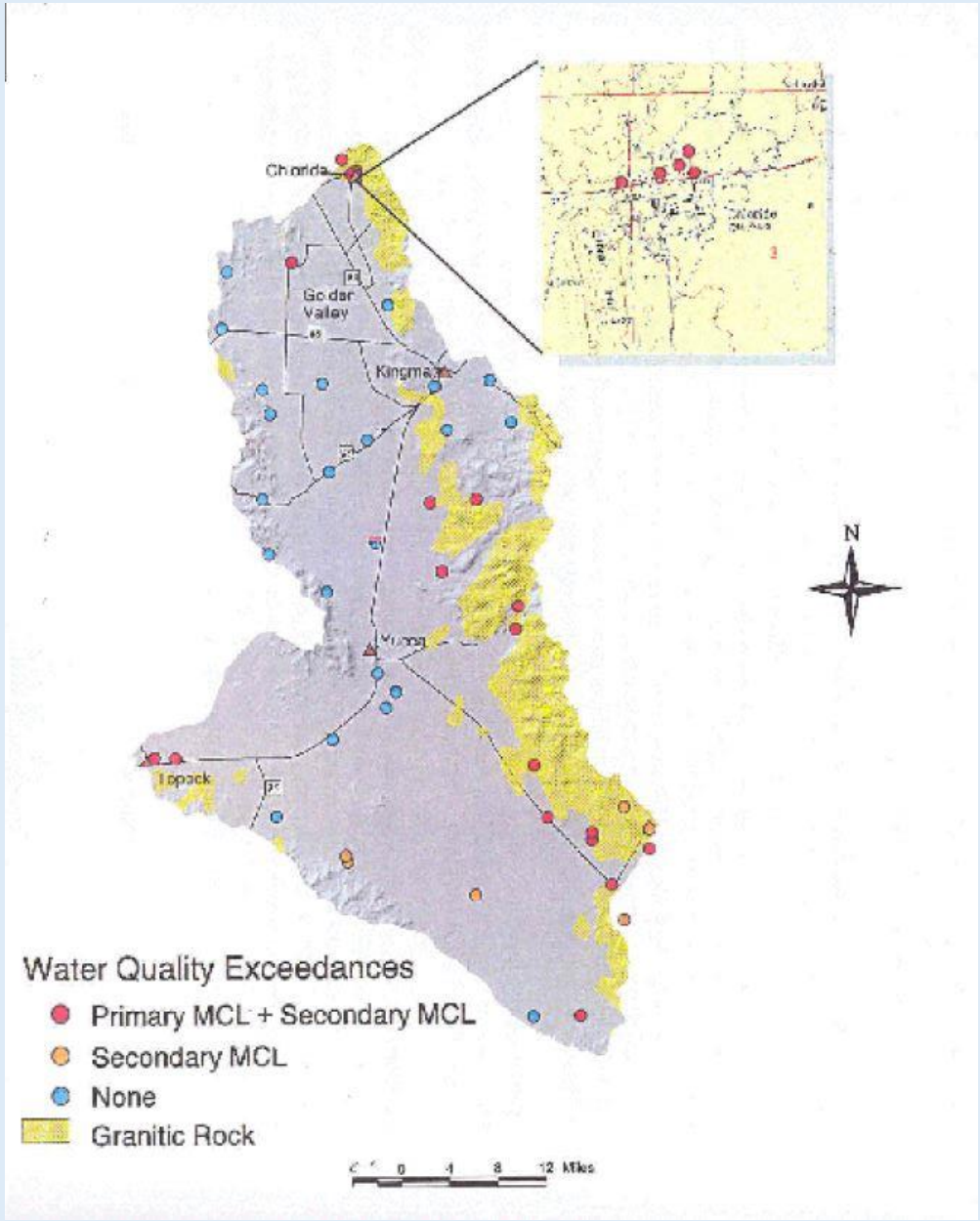
Created on 5/20/2016

Water Quality
In The Northwest Basins

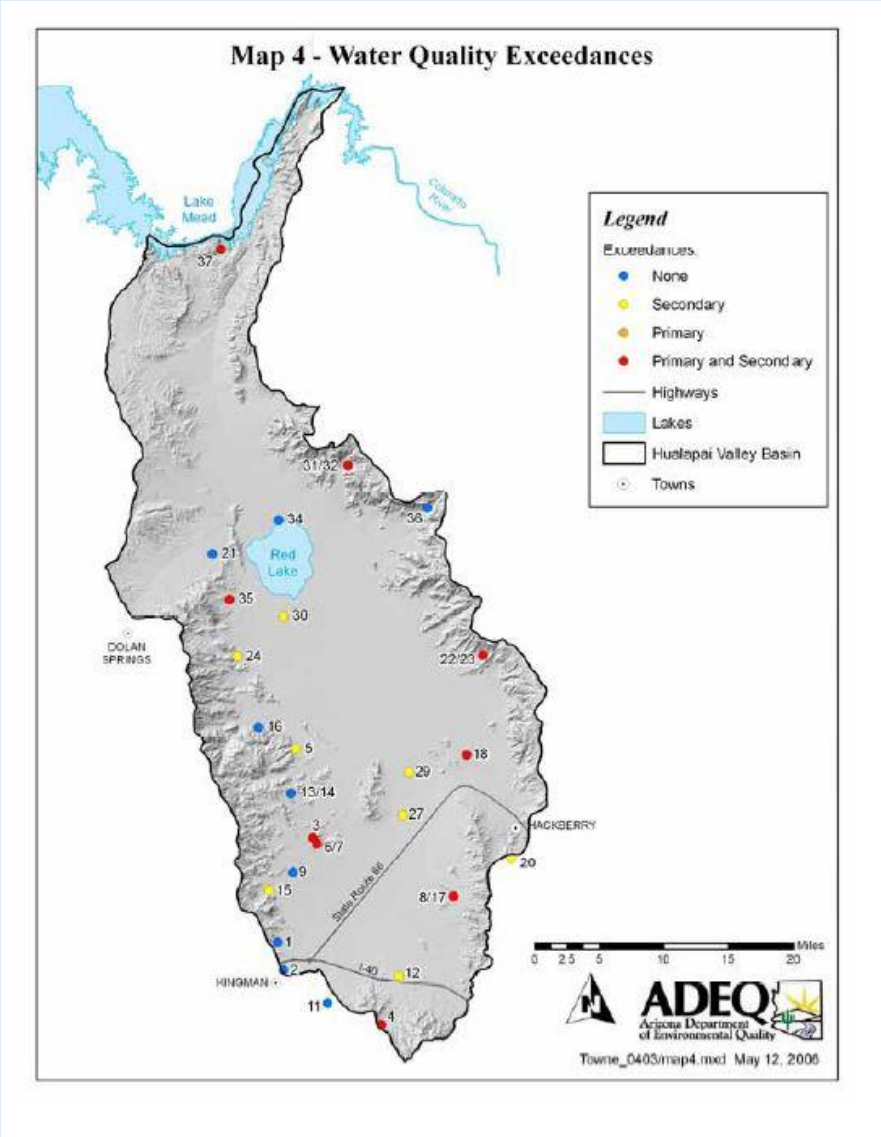
Water Quality Exceedances In The Detrital Valley Basin (2002)



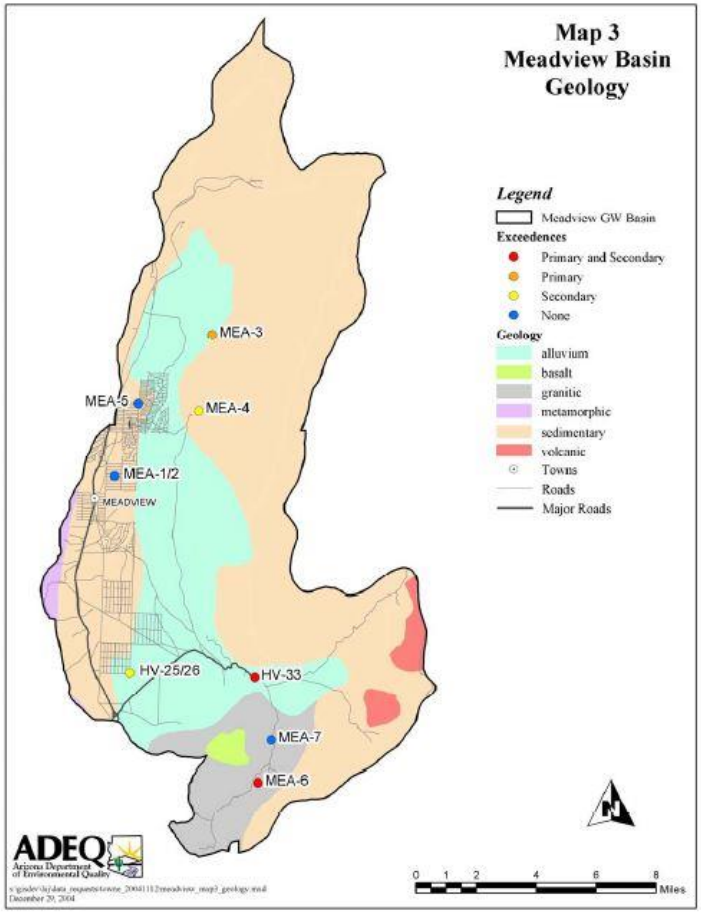
Water Quality Exceedances In The Sacramento Valley Basin (1999)



Ambient Water Quality Exceedances In The Hualapai Valley Basin (2000)



Ambient Water Quality Exceedances In The Meadview Basin (2000 - 2003)



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HMS No. 4
HMS No. 14
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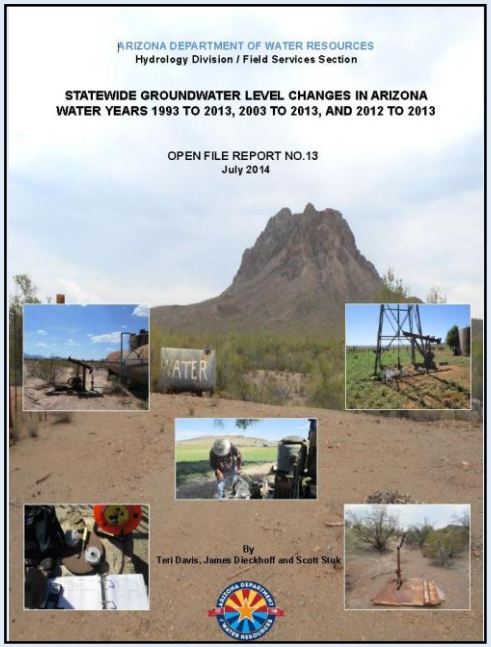

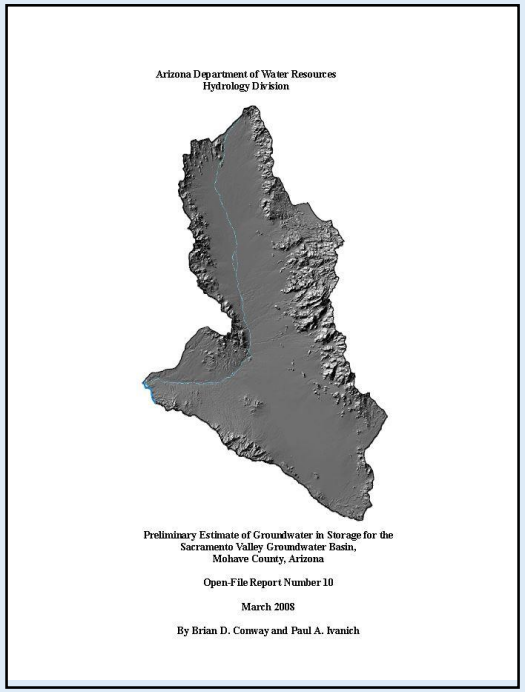

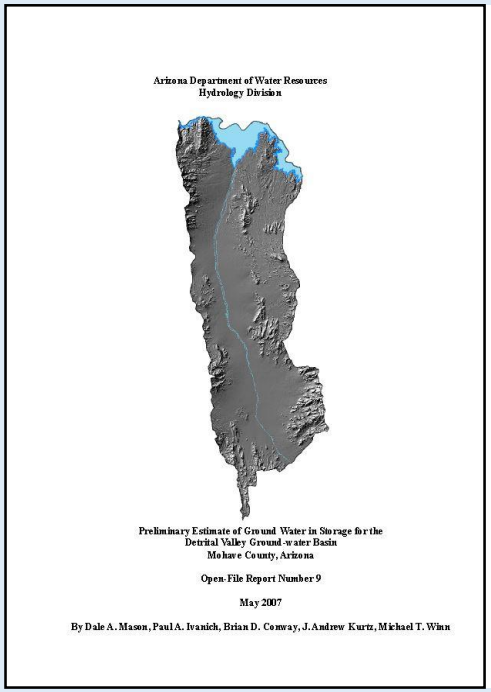

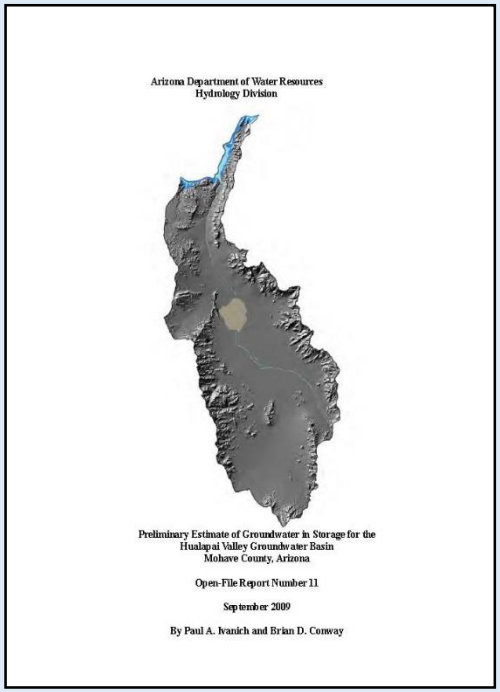

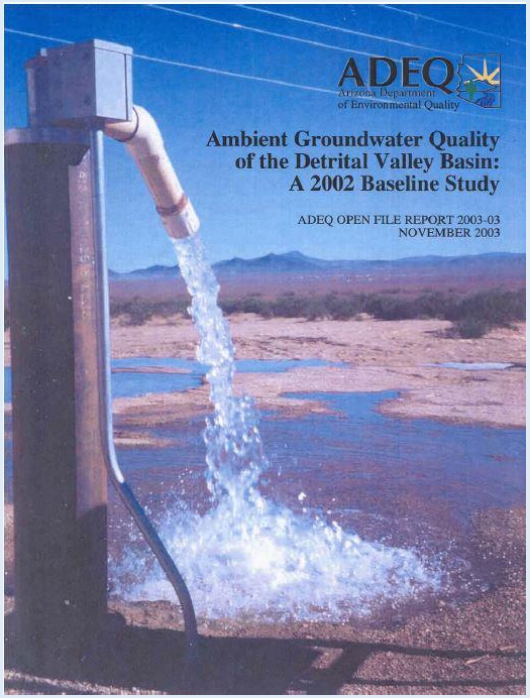

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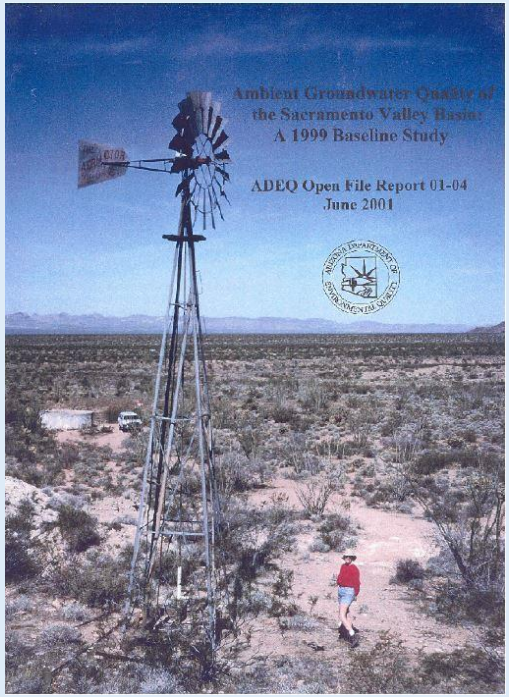

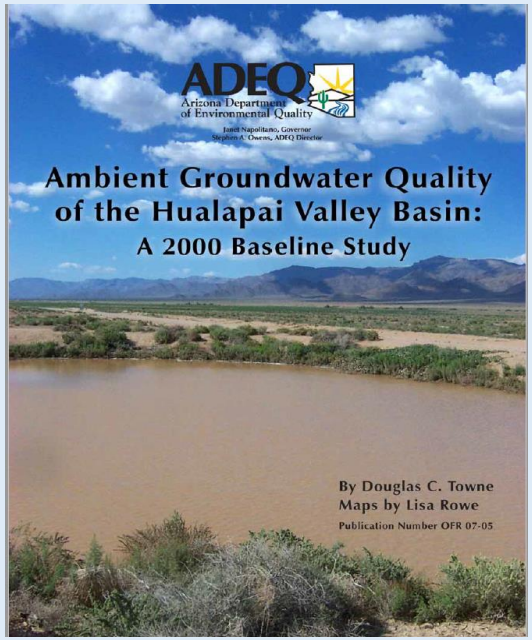

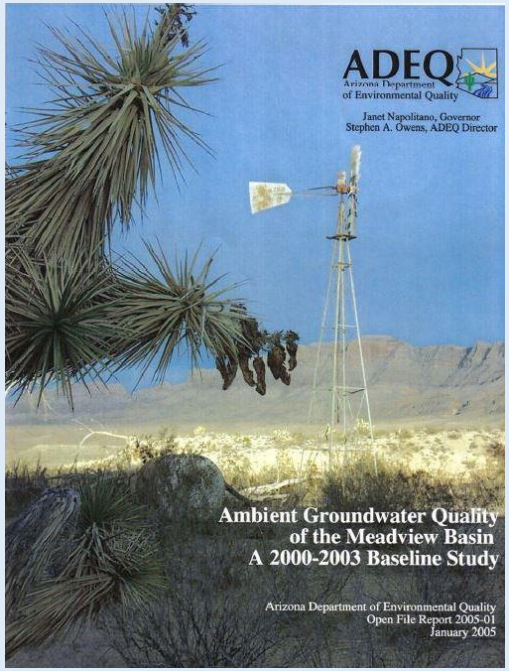

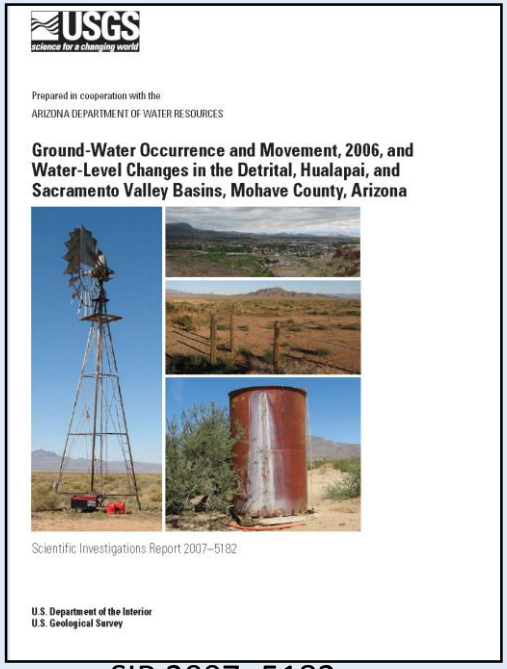

SIR 2007- 5182

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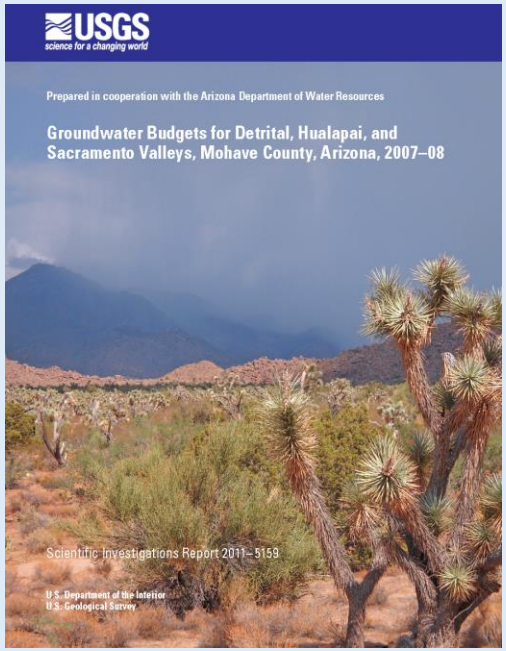
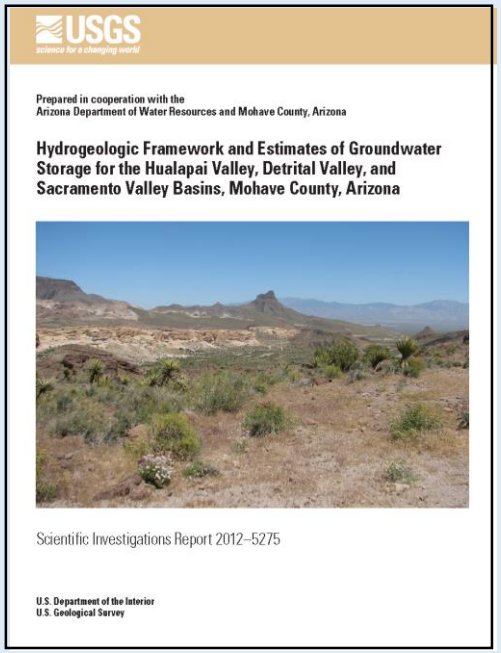
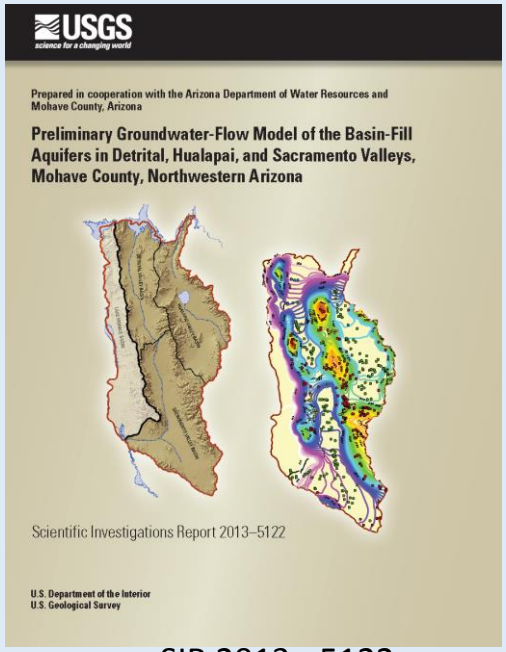


SIR 2011 - 5159



SIR 2012 - 5275



SIR 2013 - 5122

For Further Information Please Visit The ADWR Website at: www.azwater.gov

Or Contact:

Frank Corkhill (Hydrology Division) efcorkhill@azwater.gov

or

Michelle Moreno (Public Information Office) mamoreno@azwater.gov