RIVEREYES OBSERVATIONS IN THE MIDDLE RIO GRANDE FOR THE 2012 IRRIGATION SEASON

Prepared for

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EXECUTIVE SUMMARY

Reconnaissance of portions of the Middle Rio Grande is mandated by Reasonable and Prudent Alternative Element C of the 2003 Biological Opinion (U.S. Fish and Wildlife Service 2003). Such reconnaissance is conducted under the project commonly referred to as "RiverEyes." RiverEyes monitoring must be performed when flows are less than 300 cubic feet per second (cfs) at San Acacia Diversion Dam. RiverEyes provides current information on river flows that allow action agencies to react quickly to rapidly changing conditions on the river, facilitate coordination among the agencies to prevent unexpected drying, and prepare for Rio Grande silvery minnow (*Hybognathus amarus*) rescues.

Hydrologic conditions were monitored daily from May 7 (as flow at the U.S. Geological Survey [USGS] gage at San Acacia approached 300 cfs) through October 31, 2012, to document spatial and temporal effects of low flow regimes. Channel drying was restricted to the Isleta and San Acacia reaches over the period of monitoring. The location and extent of channel drying varied over the period of monitoring in response to the magnitude and variance of in-stream flow, including flow dynamics linked to localized and regional storm events, as well as out-of-channel diversion of water. The location and extent of channel drying also appears to vary with macrotopographic features of the river and its adjacent corridor. Notable among these features is the elevation of the streambed relative to that of adjacent segments of drain canals that parallel the river (the river is more likely to remain wetted where the elevation of the river is equal or lower than that of adjacent drain canals).

For each day that hydrologic conditions in the Rio Grande were monitored, a brief summary report was prepared documenting spatial and temporal observations of flow (measured and visual estimates) and longitudinal limits of running water conditions. These reports were distributed via e-mail to recipients of water operations conference call notes. Similarly, verbal reports of field observations were made during water operations conference calls. Records of observed and measured hydrologic conditions were kept for the duration of the observation period.

The first occurrence of channel drying in the Isleta and San Acacia reaches was observed on July 4 and June 16, 2012, respectively. Two river segments in the Isleta Reach totaling 11.29 miles and one 13.11-mile segment in the San Acacia Reach remained dry or reduced to isolated pools on the last day of monitoring (i.e., October 31, 2012).

Channel drying in the Isleta Reach was restricted to two widely separated river segments. The northernmost intermittent river segment in the Isleta Reach was 16.58 miles long, extending downstream from a point 6.26 miles upstream of Los Lunas Bridge (River Mile [RM] 167.7) to a point 1.38 miles downstream of the Peralta Wasteway (RM 151.12). The southernmost intermittent river segment in the Isleta Reach was 6.6 miles long, extending downstream from a point 1.94 miles downstream of New Mexico Highway 346 (RM 138.78) to a point 1.54 miles upstream of U.S. Highway 60 (RM 132.18). Channel drying in the San Acacia Reach was restricted to a 32.3-mile segment that extended downstream from a point 1.48 miles upstream of the Nine-mile Outfall (RM 106.2) to the confluence of the Rio Grande and the pump channel at the south boundary of the Bosque del Apache National Wildlife Refuge (RM 73.9). The maximum duration in which one or more half-mile segments of river were observed without overland running water during the 2012 irrigation season was 109 days in the Isleta Reach and 117 days in the San Acacia Reach.

Discharge measurements were performed near the USGS Bosque Farms gage location (USGS gage 08331160) when it was judged safe to wade in the stream, when flowing water was present, and within allotted time and budgetary constraints. Likewise, irrigation wasteways were surveyed to determine the amount of water being discharged to the Rio Grande when it was judged safe to wade in the wasteways, when flowing water was present, and within allotted time and budgetary constraints. Discharge measurements were also performed at other locations as requested by water operations personnel.

Appended tables present an overview of discharge at all USGS gages, as reported by the U.S. Army Corps of Engineers during morning conference calls (Appendix A). Appendix B presents a detailed account of spatial and temporal observations of hydrologic conditions, including longitudinal limits of running water conditions, along with measured and visual estimates of flow at select USGS sites and irrigation outfall locations. Appendix C presents a detailed record of Middle Rio Grande pumping operations. Records of the daily longitudinal extent of channel drying are visually represented in spreadsheets that provide a stylized representation of the Rio Grande at the half-mile scale (Appendix D). Finally, Appendix E provides project safety documentation.

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INTRODUCTION

The variability of flow characteristics of the contemporary Middle Rio Grande[1], resulting either from natural or regulated causes, imparts a patchiness of environmental types at the scale of river segments, including the extremes represented by hydrologic abundance and periodic discontinuity of flow, with a continuum of intermediate types between these extremes. Low flow conditions that often result in fish mortality have been linked to conditions of aridity, exacerbated by water diversion in the basin and episodic conditions of drought.

Real-time estimates of surface water discharge in the Middle Rio Grande are available at flow gages maintained by the U.S. Geological Survey (USGS; web accessible at http://waterdata.usgs.gov/nm/nwis/rt). Rough correlations about hydrologic conditions between gages are possible at coarse scales of time and space. However, only coarse-scale patterns of autocorrelation exist in the temporal record of flow across the linear series of gage stations because intervening flows are subject to infiltration, evaporation, diversion, and the potential addition of irrigation and wastewater returns. Fine-scale dynamics in hydrologic conditions cannot be accurately deduced or interpolated from measured flow in the consecutive series of USGS gages, and continuous river conditions cannot be assured even when a consecutive series of flow gages registers that overland flow exists. The absence of continuous flow may result in fish mortality, including the federal and state endangered Rio Grande silvery minnow (*Hybognathus amarus*; silvery minnow). On-site river monitoring is used to guide adjustments to daily water management operations to reduce mortality to the silvery minnow and other aquatic life that occupy running water habitats along the Middle Rio Grande.

The silvery minnow is currently listed as endangered by the State of New Mexico, having first been listed May 25, 1979, as an endangered endemic population of the Mississippi silvery minnow (*Hybognathus nuchalis*) (New Mexico Department of Game and Fish 1988). On July 20, 1994, the U.S. Fish and Wildlife Service (USFWS) published a final rule to list the silvery minnow as a federal endangered species with proposed critical habitat (*Federal Register* 1994). The species is also listed as endangered by Texas (Sections 65.171–65.184 of Title 31 Texas Administrative Code) and the Republic of Mexico (Secretaria de Desarrollo Social 1994).

The contemporary range of the silvery minnow in the Middle Rio Grande of New Mexico (Figure 1) extends downstream from the vicinity of Bernalillo to the headwaters of Elephant Butte Reservoir, a distance that fluctuates as the size of the pool of water in storage in Elephant Butte Reservoir changes, but approximates 150 river miles. Prevailing aridity and highly variable hydrologic conditions in the Middle Rio Grande represent significant factors that challenge efforts to develop and manage the region's water resources for consumptive uses while simultaneously maintaining local fishery resources, notably including the silvery minnow.

[1] For reference in this document, the "Middle Rio Grande" is defined as the Rio Grande downstream from Cochiti Dam to the headwaters of Elephant Butte Reservoir. The Middle Rio Grande below Cochiti Dam is further designated by four reaches defined by locations of mainstream irrigation diversion dams. The Cochiti Reach extends from Cochiti Dam to Angostura Diversion Dam. The reach from Angostura Diversion Dam to Isleta Diversion Dam is called the Albuquerque Reach. The Isleta Reach is bounded upstream by Isleta Diversion Dam and downstream by San Acacia Diversion Dam. Finally, the reach below San Acacia Diversion Dam to the headwaters of Elephant Butte Reservoir is the San Acacia Reach.

This project, commonly known as "RiverEyes," is mandated by Reasonable and Prudent Alternative Element C of the 2003 Biological Opinion (USFWS 2003). RiverEyes monitoring must be performed when flows are less than 300 cubic feet per second (cfs) at San Acacia Diversion Dam. RiverEyes provides current information on river flows that allow action agencies to react quickly to rapidly changing conditions on the river, facilitate coordination among the agencies to prevent unexpected drying, and prepare for silvery minnow rescues.

Appended tables present an overview of discharge at all USGS gages, as reported by the U.S. Army Corps of Engineers during morning conference calls (Appendix A). Appendix B presents a detailed account of spatial and temporal observations of hydrologic conditions, including longitudinal limits of running water conditions, measured and visual estimates of flow at select USGS sites and irrigation outfall locations. Appendix C presents a detailed record of Middle Rio Grande pumping operations. Records of the daily longitudinal extent of channel drying are visually represented in spreadsheets that provide a stylized representation of the Rio Grande at the half-mile scale (Appendix D). Finally, Appendix E provides project safety documentation.

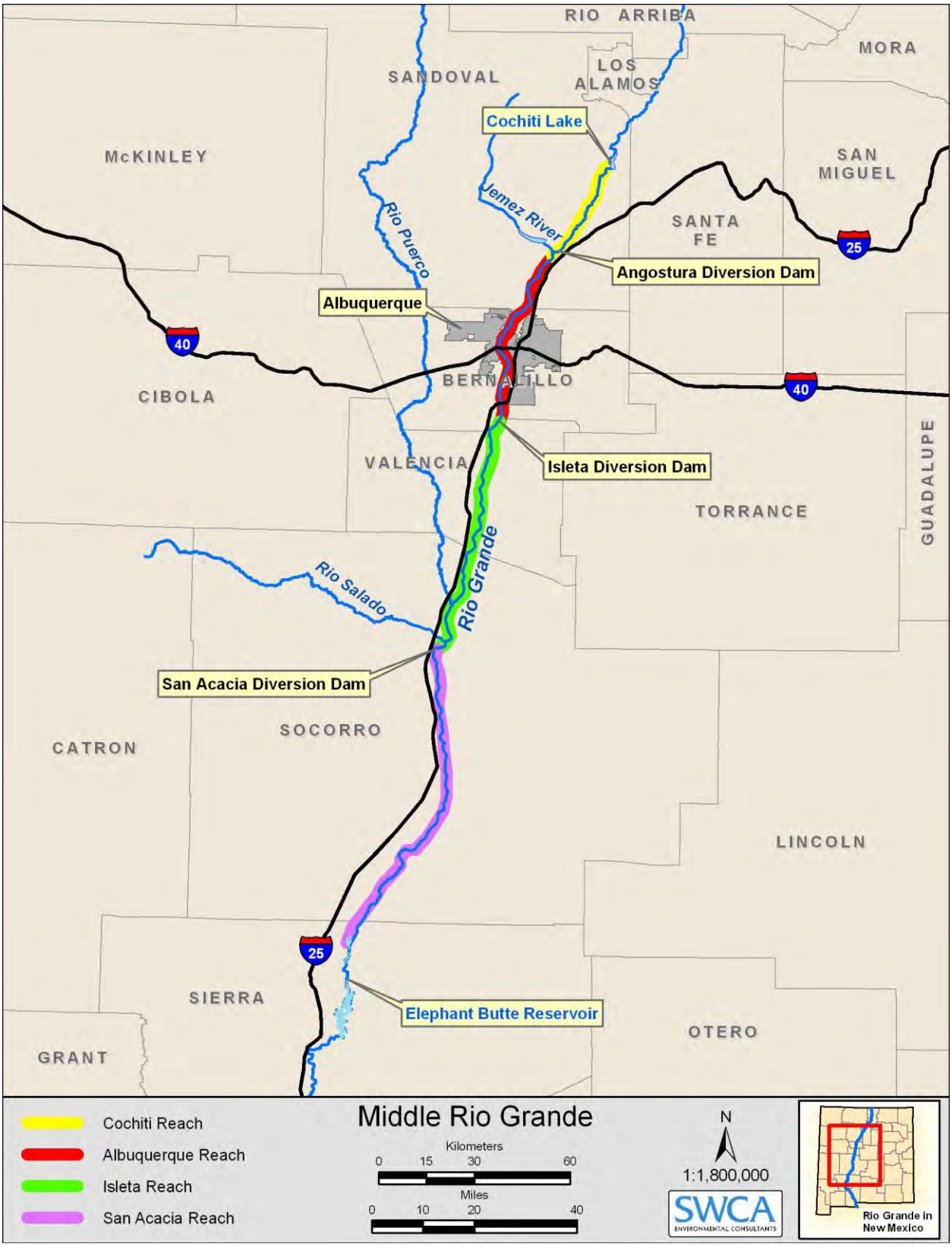


Figure 1. Overview of the Middle Rio Grande.

METHODS

Daily Reconnaissance

Hydrologic conditions were monitored daily from May 7 (as flow at the USGS gauge at San Acacia approached 300 cfs) through October 31, 2012, to document spatial and temporal effects of low discharge. This river reconnaissance was performed early enough in the day so that observations could be verbally relayed to water operations staff and fish rescue crews early in the morning (usually by about 6:30 a.m. but no later than 8:30 a.m.). SWCA Environmental Consultants (SWCA) staff participated in early morning (8:30 a.m.) water operations conference calls to relay information concerning observed hydrologic conditions to concerned and affected stakeholders. Telephone reports were provided to designated U.S. Bureau of Reclamation (Reclamation) personnel and the USFWS Fish Rescue Coordinator (Jason Remshardt, or as appointed). A handheld global positioning system (GPS) unit was used to record spatial characteristics of receding and advancing edges of running water habitat. Point-specific location data were recorded using the Universal Transverse Mercator (UTM) system, North American Datum 1983, Zone 13. Point-specific location data were also recorded by fractions of river miles and were based on approximate mile-long segments superimposed on 2002 aerial photographs of the river by Pacific Western Technologies, Albuquerque, New Mexico.

Discharge Measurements

Discharge measurements were performed as time and budget constraints permitted near the USGS Bosque Farms gage (USGS 8331160) location when it was judged safe to wade in the river and when flowing water was present. Irrigation wasteways were surveyed within allotted time and budget constraints to determine the volume of water being discharged to the Rio Grande. Occasional discharge measurements were performed at other locations as requested by water operations or fish rescue personnel. Water depth (feet) and flow velocity (feet per second) were measured using a USGS top-setting wading rod fitted with a Marsh-McBirney Flo-Mate portable flow meter. Estimation of discharge (cfs) followed protocol specified by Marsh-McBirney Inc. (1990, 1994). Late afternoon follow-up reconnaissance was performed when requested by water operations or fish rescue personnel to determine hydrologic conditions, primarily within the Isleta and San Acacia reaches. Telephone reports were provided to designated Reclamation personnel and the USFWS Fish Rescue Coordinator on an as needed basis.

Daily Reports

A daily summary report of observations was prepared and distributed via e-mail, and field observations were reported during water operations conference calls. The daily reports included information such as:

- observed river conditions for each location visited;
- visual estimates of flow rate;
- results of quantitative flow measurements;
- observations on the rate of drying/shrinkage if the river is actively receding;
- observations on the rate of rewetting if the river is advancing after a period of drying;
- observations of disconnected lateral pools; and
- forecasts of probable river conditions over the next 24 hours.

Data Management

A daily record of the longitudinal extent of river drying and rewetting was maintained. A relational database (Microsoft Access) and a spreadsheet database (Microsoft Excel) were developed for the storage, analysis, and retrieval of these data.

The logical construct of the relational database is helpful for envisioning the data collection and data analysis process across hierarchical scales of time and space, and in particular contributes to a unified frame of reference for investigations at the scale of river reach, user-defined river segments, and point-location data. The logical construct of the relational database also is helpful for envisioning how measured hydrologic data and RiverEyes data can be interactively employed to produce a more comprehensive understanding of river dynamics.

Daily RiverEyes data recorded at the scale of river reach include observations of river drying (yes/no, total river miles dried, extent of expansive drying, and rewetting events). Also narrative accounts of daily observations exist as database entries. Point-location observations are recorded by river mile (tenths and sometimes hundredths of a river mile) and meter (UTM coordinates, usually at a resolution less than 15 meters). Point-location data include observations of the upstream and downstream extent of river drying and observations of flow (measured and unmeasured estimates).

Data entry screens of the relational database incorporate logical data entry rules, along with queries designed to ease tasks of data validation at the time of data entry. The relational database queries provide much greater flexibility in selecting and sorting data than is possible with the limited sort and selection criteria of spreadsheet applications. The RiverEyes relational database provides numerous options for printing formatted reports, many of which have been anticipated as on-demand data outputs ranging from day-specific reports, range-of-date reports, reach-specific reports, and reports ordered chronologically by various search criteria, including reports ordered by extent of drying. The relational database also includes an automated report that searches for the maximum and minimum river miles and UTM coordinates of river drying—information crucial for recognizing expansive events of river recession (i.e., ~~"n~~new drying").

Safety

A Job Hazard Analysis (JHA) was performed for this project (see Appendix E). Personnel were required to certify that they reviewed and complied with the JHA requirements each day in which work was performed on the project. Vehicle inspections were conducted at the start of each day (see Appendix E for a copy of the vehicle inspection form). All personnel that operated all-terrain vehicles received safety instruction in their operation. All safety requirements were followed.

RESULTS

Daily Reconnaissance

Records were maintained of observed and measured hydrologic conditions over the duration of the monitoring period, the details of which accompany this report in various database formats (i.e., spreadsheet and relational databases; see Appendices A–D). A brief daily summary report of observations was prepared and distributed via e-mail to recipients of water operations conference call notes, and verbal reports of field observations were made during water operations conference calls.

Channel drying was restricted to the Isleta and San Acacia reaches over the period of monitoring. The location and extent of channel drying varied within each reach over the period of monitoring in response to the magnitude and variance of in-stream flow, including flow dynamics linked to localized and regional storm events, as well as out-of-channel diversion of water. The location and extent of channel drying also appear to vary with macrotopographic features of the river and its adjacent corridor. Notable among these features is the elevation of the streambed relative to that of adjacent segments of drain canals that parallel the river (the river is more likely to remain wetted where the elevation of the river is equal or lower than that of adjacent drain canals).

The first occurrence of channel drying in the Isleta Reach was observed on July 4, 2012, whereas the first occurrence of channel drying in the San Acacia Reach was observed on June 16, 2012. On the last day of monitoring (i.e., October 31, 2012), two river segments in the Isleta Reach totaling 11.29 miles and one 13.11-mile segment in the San Acacia Reach remained dry or reduced to isolated pools.

Channel drying in the Isleta Reach was restricted to two widely separated river segments. The northernmost intermittent river segment in the Isleta Reach was 16.58 miles long, extending downstream from a point 6.26 miles upstream of Los Lunas Bridge (River Mile [RM] 167.7) to a point 1.38 miles downstream of the Peralta Wasteway (RM 151.12). The most southern intermittent river segment in the Isleta Reach was 6.6 miles long, extending downstream from a point 1.94 miles downstream of New Mexico Highway (NM) 346 (RM 138.78) to a point 1.54 miles upstream of U.S. Highway 60 (RM 132.18). Channel drying in the San Acacia Reach was restricted to a 32.3-mile segment that extended downstream from a point 1.48 miles upstream of the Nine-mile Outfall (RM 106.2) to the confluence of the Rio Grande and the pump channel at the south boundary of the Bosque del Apache National Wildlife Refuge (RM 73.9). Descriptive statistics concerning the number of days the river dried in the Isleta and San Acacia reaches of the Middle Rio Grande during the 2012 irrigation season, and the extent and variability of that drying, are presented in Table 1 and Table 2.

Inclusive of the Isleta and San Acacia reaches of the Middle Rio Grande, overland running water habitat was absent from 55.48 unique miles of river channel on one or more days during the 2012 irrigation season. The maximum total extent of river channel drying observed for a single day during the 2012 irrigation season (i.e., 53.33 miles), occurred on August 14, 2012, when a total 21.36 miles of river in the Isleta Reach and 31.97 miles of river in the San Acacia Reach was dry or reduced to isolated pools.

River reach- and month-specific median values of the length of river channel without overland running water during the 2012 irrigation season are specified in Table 1 and Table 2, and illustrated in Figure 2 and Figure 3.

Table 1. Statistics Concerning the Occurrence and Extent of River Drying in the Isleta Reach during the 2012 Irrigation Season

	Monthly Statistics for Isleta Reach					
Month (2012)	**Days of Channel Drying**	**Mean Num. of River Miles Dry/Day**	**Std. Dev.**	**Std. Error**	**C.I. of Mean**	**Max. Num. of River Miles Dry**
April	0	0.000	0.000	0.000	0.000	0.000
May	0	0.000	0.000	0.000	0.000	0.000
June	0	0.000	0.000	0.000	0.000	0.000
July	21	5.165	5.829	1.047	2.138	15.650
August	31	16.660	4.164	0.748	1.528	21.360
September	30	17.748	2.420	0.442	0.904	21.180
October	31	17.315	3.065	0.551	1.124	21.690

C.I. = confidence interval.

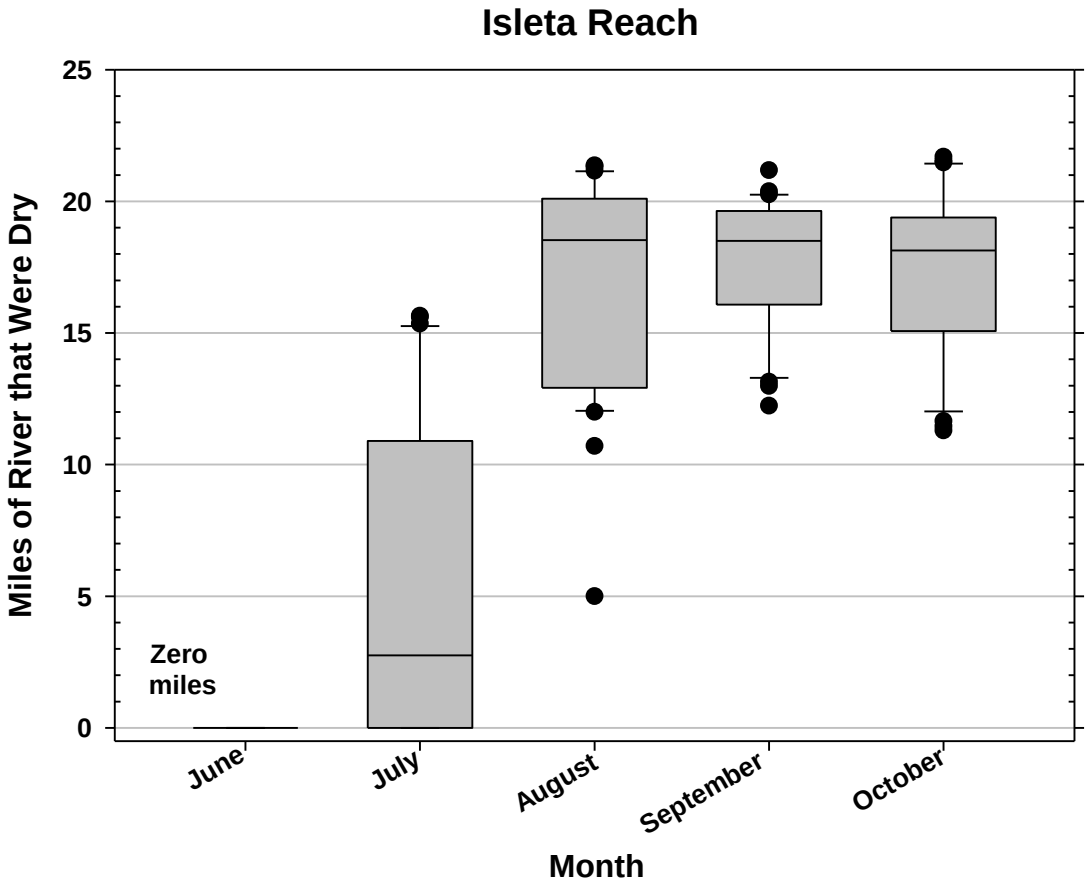
Table 2. Statistics Concerning the Occurrence and Extent of River Drying in the San Acacia Reach during the 2012 Irrigation Season

	Monthly Statistics for San Acacia Reach					
Month (2012)	**Days of Channel Drying**	**Mean Num. of River Miles Dry/Day**	**Std. Dev.**	**Std. Error**	**C.I. of Mean**	**Max. Num. of River Miles Dry**
April	0	0.000	0.000	0.000	0.000	0.000
May	0	0.000	0.000	0.000	0.000	0.000
June	15	7.180	8.019	1.464	2.994	21.900
July	21	15.543	11.532	2.071	4.230	29.000
August	25	19.852	12.931	2.323	4.743	32.200
September	25	20.720	10.242	1.870	3.824	30.420
October	31	20.647	5.922	1.064	2.172	26.610

C.I. = confidence interval.

River channel segments without running water during the 2012 irrigation season were generally much longer and more variable in the San Acacia Reach compared to the Isleta Reach (see Table 1 and Table 2). Whereas drought conditions during the 2012 irrigation season appear to have been relatively severe in the San Acacia Reach, as is evident from the greater number of river miles dried and the duration of channel drying, intermittent portions of the San Acacia Reach were also highly subject to short-term rewetting during 2012. Rewetting of intermittent portions of the Middle Rio Grande can be linked primarily to occasional significant inputs of stormwater runoff from large contributing watersheds that are confluent with the Rio Grande a short distance upstream of the San Acacia Reach, notably including the Rio Salado and Rio Puerco.

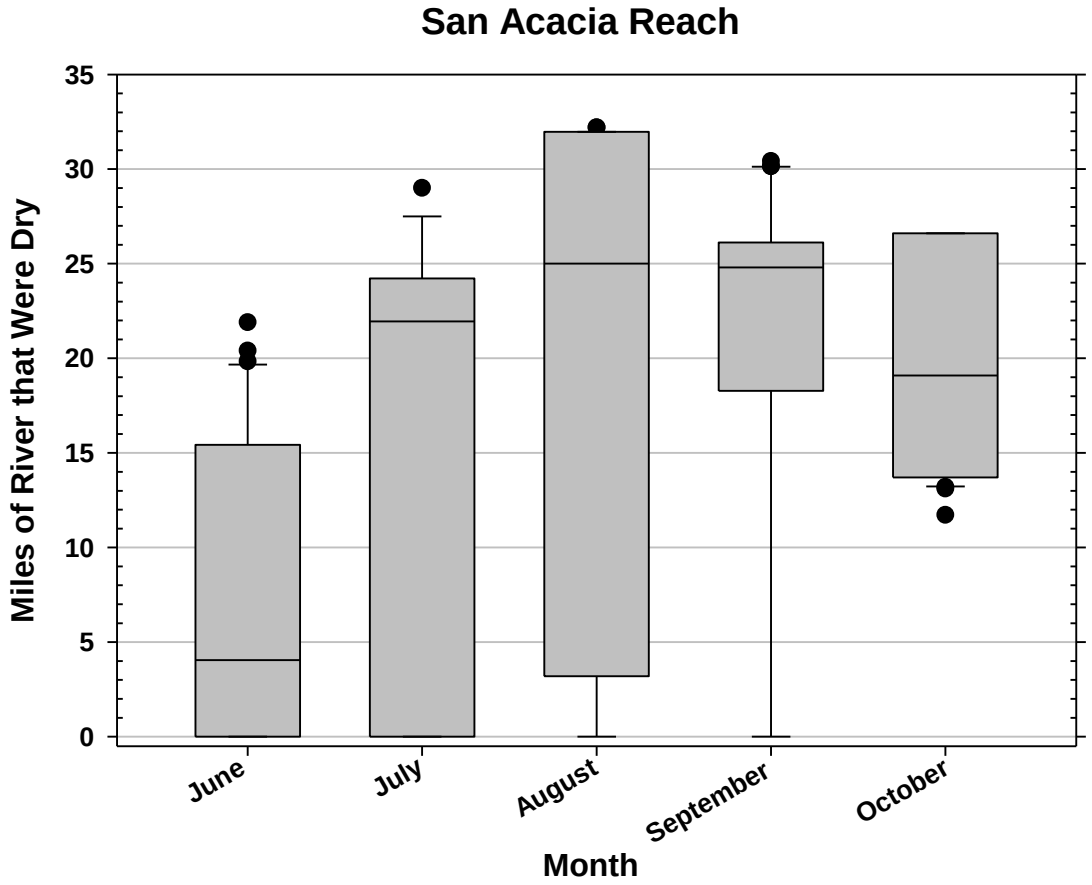
The box plots in Figure 2 indicate that the initial and most significant degree of expansive channel drying in the Isleta Reach during the 2012 irrigation season occurred in July. Channel drying in the Isleta Reach continued to advance in August, although at a reduced and less variable rate from that observed for July. The level of river channel that was dry in the Isleta Reach remained relatively stable from August to October, although flow regime dynamics over this time were punctuated by a few short-term events of channel rewetting.



The boundary of the box closest to zero indicates the 25th percentile. The line within the box marks the median, and the boundary of the box farthest from zero indicates the 75th percentile. Error bars above and below the box indicate the 90th and 10th percentiles, respectively. The circle symbols represent outlying points.

Figure 2. Occurrence and extent of river drying in the Isleta Reach of the Middle Rio Grande for June through October of the 2012 irrigation season.

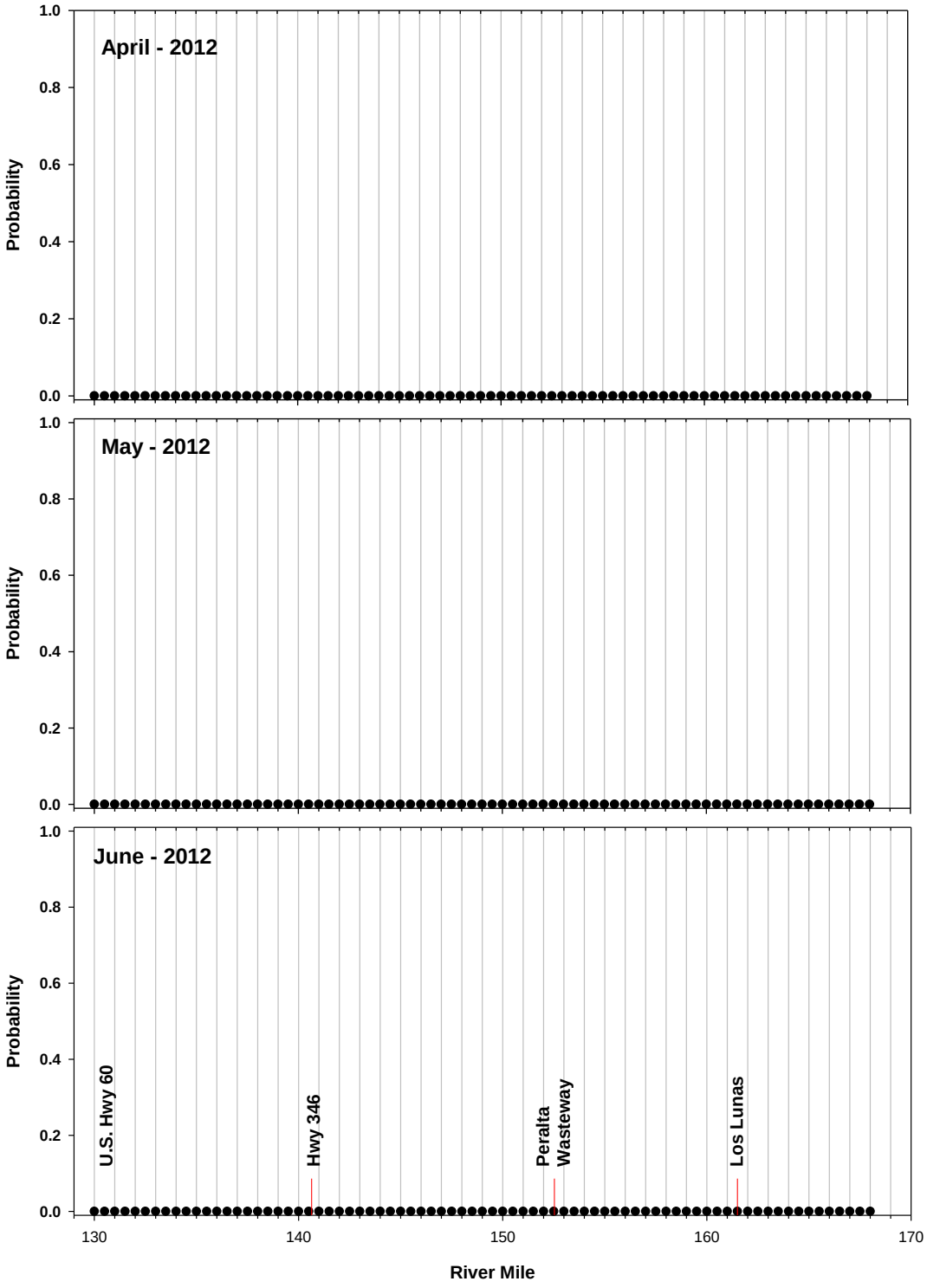
The box plots in Figure 3 indicate that the longitudinal expanse of river channel that dried in the San Acacia Reach during the 2012 irrigation season increased with time from June through August. But this recession of running water habitat was quite variable, being repeatedly reversed by significant although short-term events of river rewetting. Progressively through August, the balance of river expansion and contraction during the 2012 irrigation season resulted in a net loss of wetted habitat. Only after this time, i.e., September and October, did the extent of river drying in the San Acacia Reach stabilize or partially rewet.



The boundary of the box closest to zero indicates the 25th percentile. The line within the box marks the median, and the boundary of the box farthest from zero indicates the 75th percentile. Error bars above and below the box indicate the 90th and 10th percentiles, respectively. The circle symbols represent outlying points.

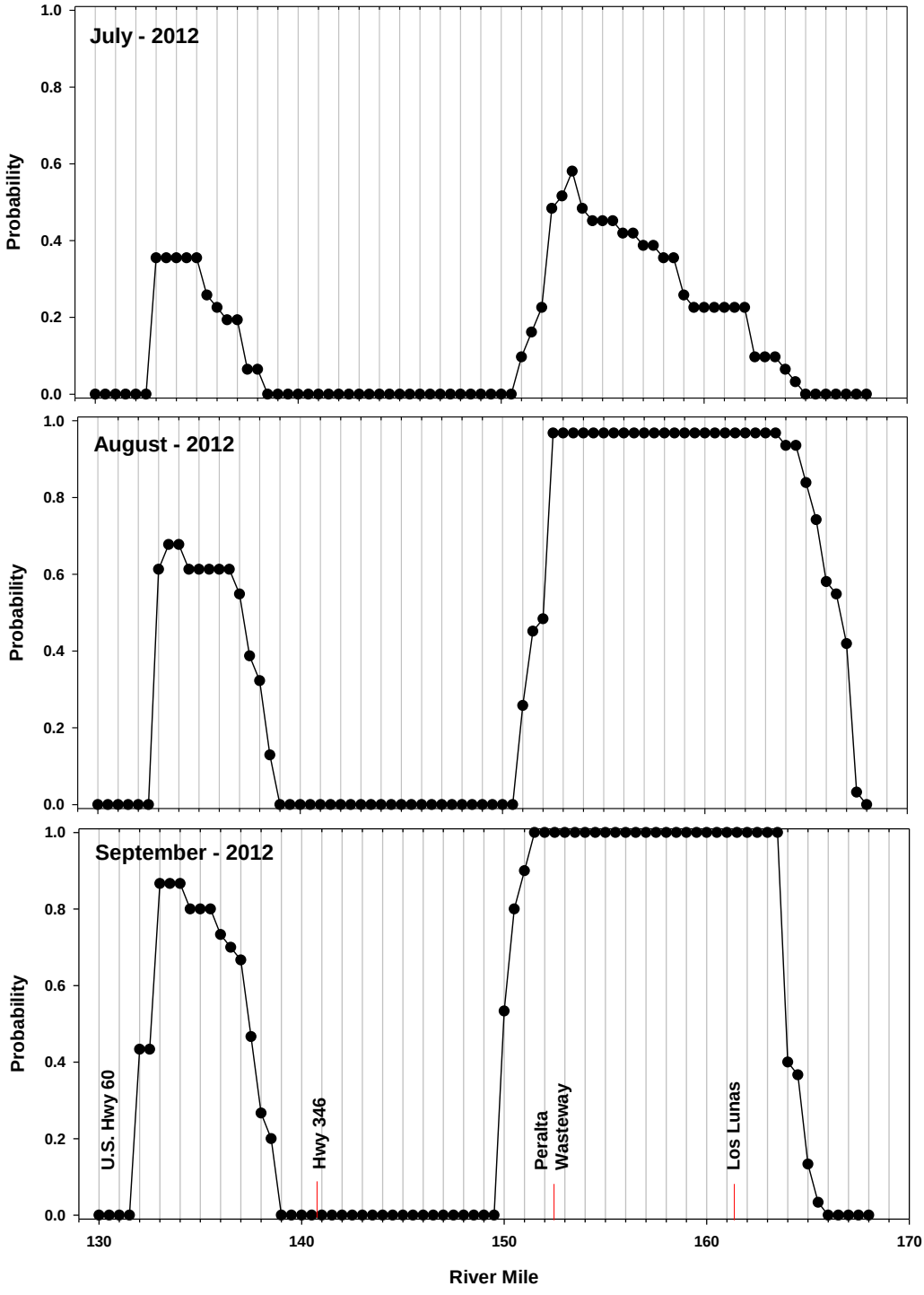
Figure 3. Occurrence and extent of river drying in the San Acacia Reach of the Middle Rio Grande for June through October of the 2012 irrigation season.

Probabilities of channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) are illustrated in Figure 4 (for April, May, and June 2012), Figure 5 (for July, August, and September 2012), and Figure 6 (for October 2012).



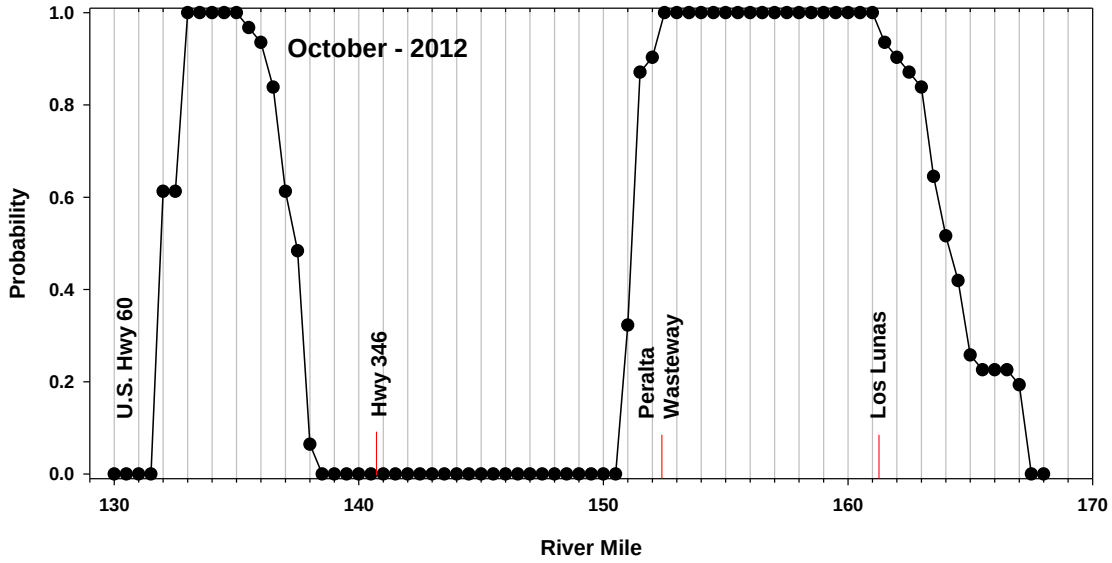
For reference, the location of select geographic features is indicated along the river mile axis.

Figure 4. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for April, May, and June 2012.



For reference, the location of select geographic features is indicated along the river mile axis.

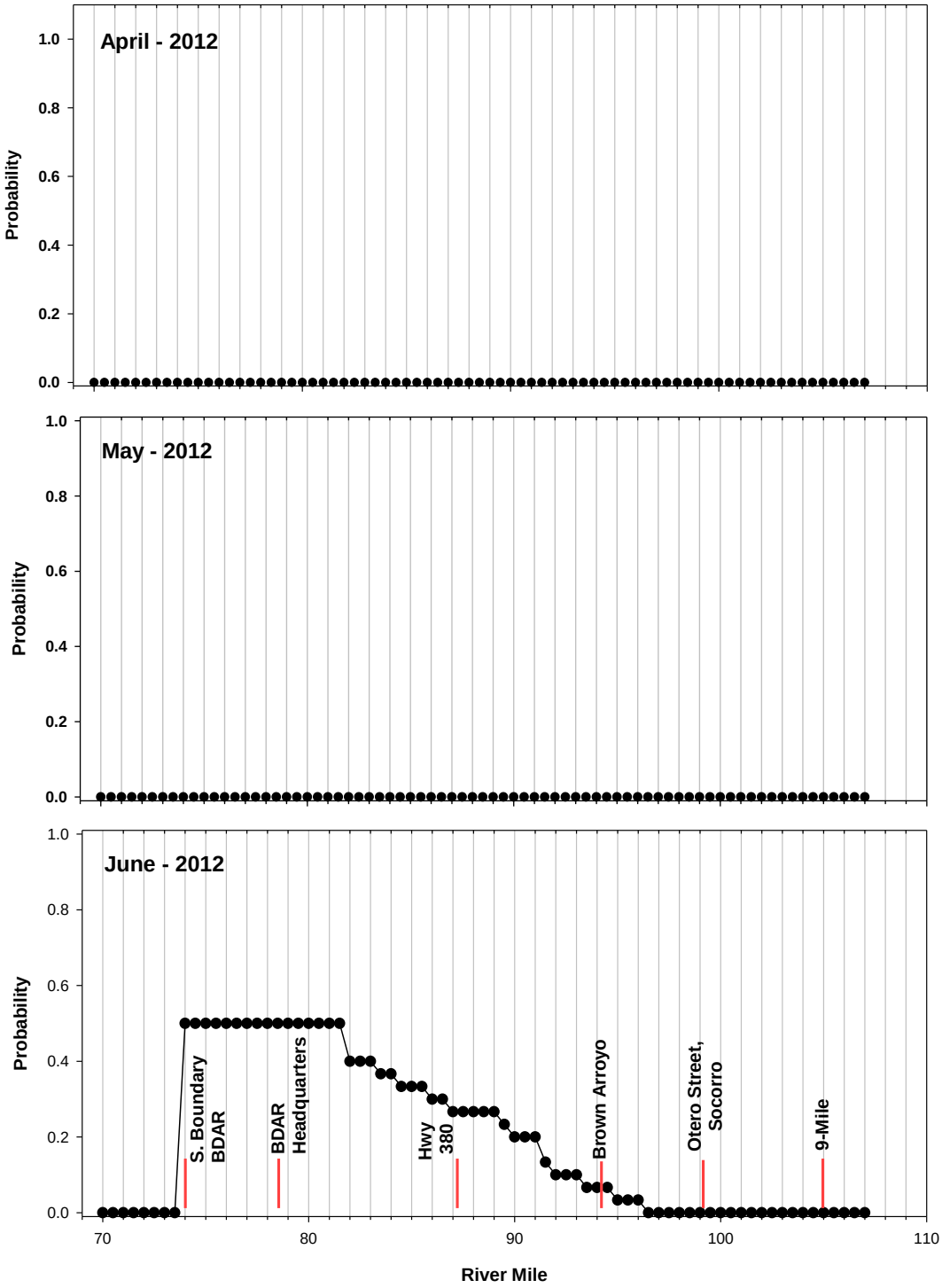
Figure 5. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for July, August, and September 2012.



For reference, the location of select geographic features is indicated along the river mile axis.

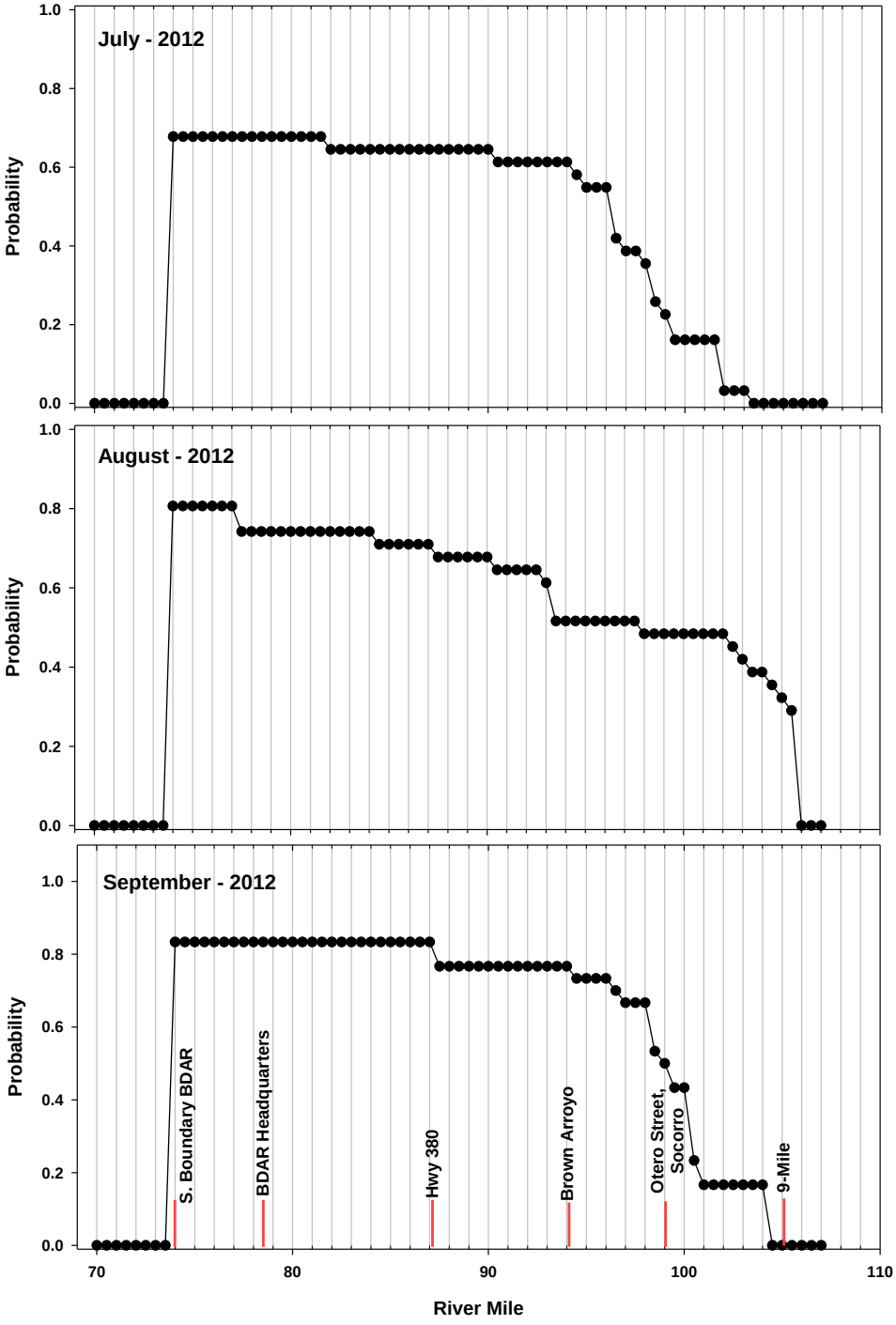
Figure 6. Probabilities of river channel drying at a given point in the Isleta Reach (at the scale of 0.5 mile) for October 2012.

The probabilities of channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) are illustrated in Figure 7, (for April, May, and June 2012), Figure 8, (for July, August, and September 2012), and Figure 9 for October 2012.



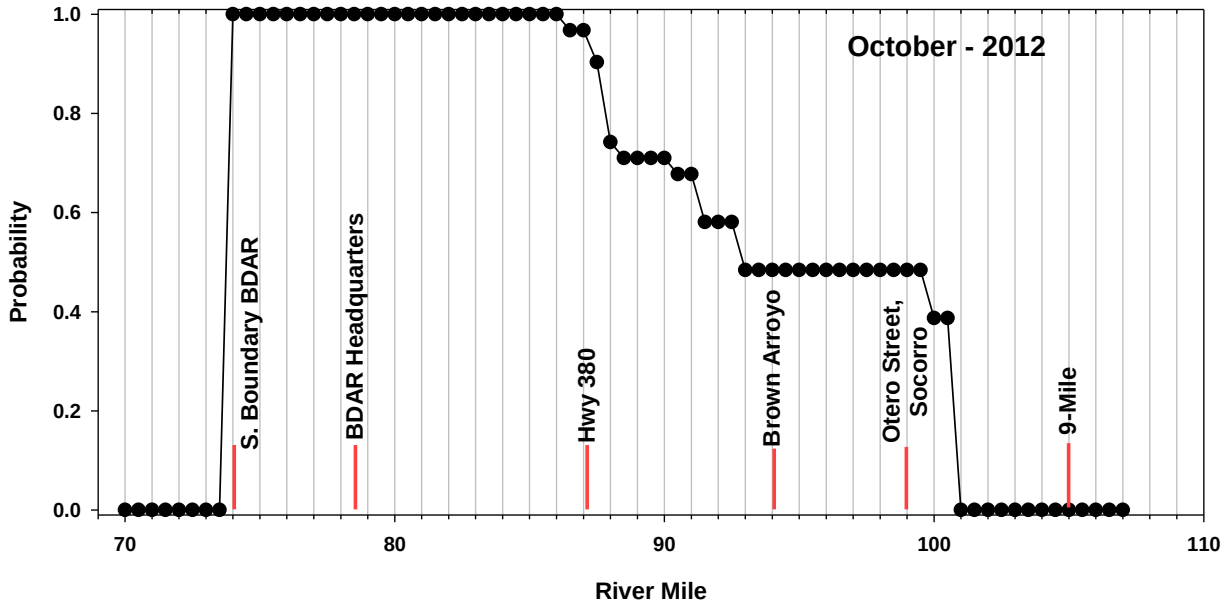
For reference, the location of select geographic features is indicated along the river mile axis. Note: "BDAR" is an abbreviation for "Bosque del Apache Refuge."

Figure 7. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for April, May, and June 2012.



For reference, the location of select geographic features is indicated along the river mile axis. Note: ―BDAR" is an abbreviation for ―Bosque del Apache Refuge."

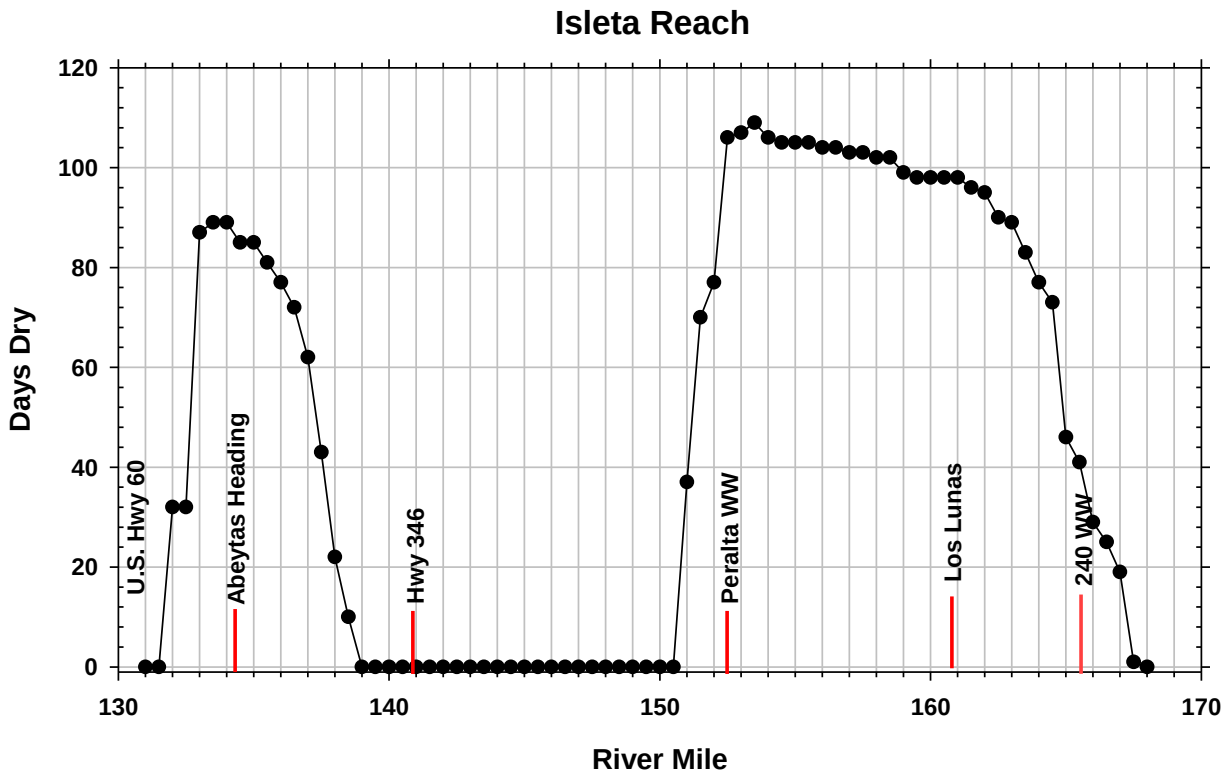
Figure 8. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for July, August, and September 2012.



For reference, the location of select geographic features is indicated along the river mile axis. Note: "BDAR" is an abbreviation for "Bosque del Apache Refuge."

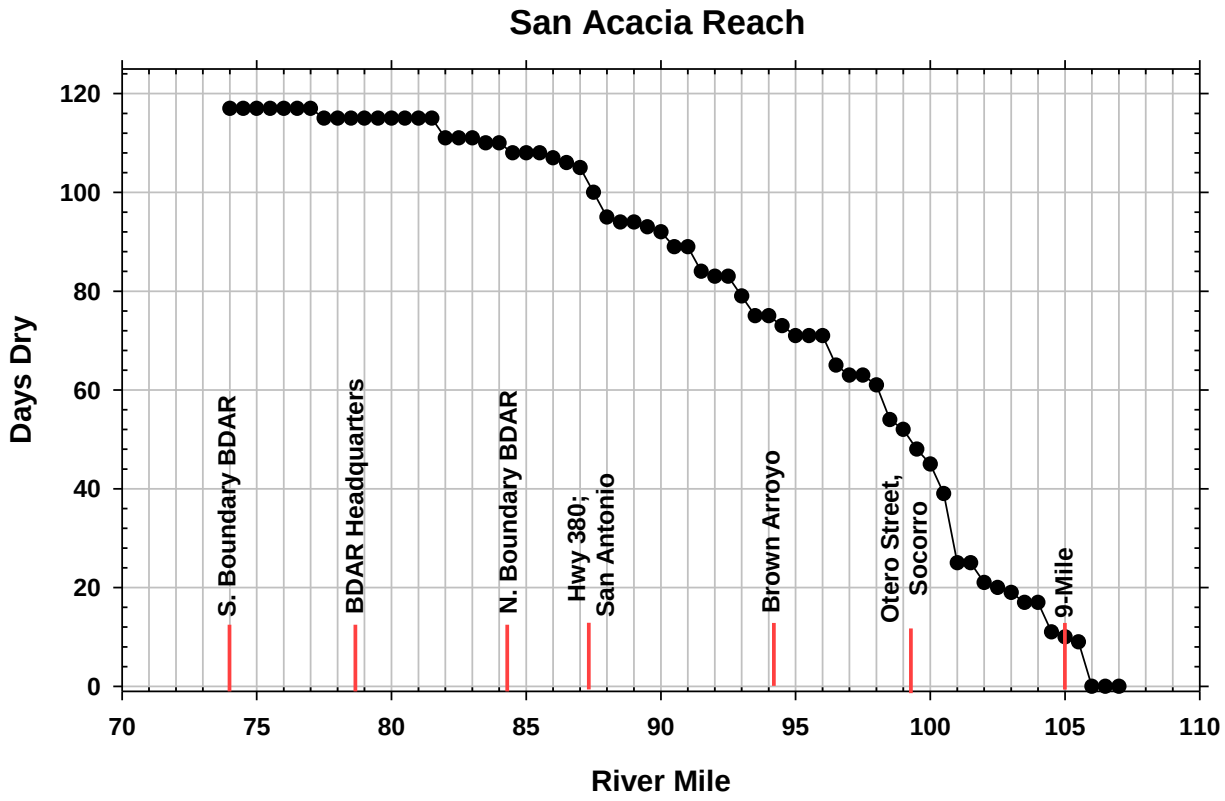
Figure 9. Probabilities of river channel drying at a given point in the San Acacia Reach (at the scale of 0.5 mile) for October 2012.

The number of days half-mile segments of river were observed without overland running water during the 2012 irrigation season is illustrated in Figure 10 (Isleta Reach) and Figure 11 (San Acacia Reach). These figures indicate that two channel segments in the Isleta Reach are relatively abruptly subject to the onset and termination of channel desiccation. In the San Acacia Reach, the duration of channel desiccation increases gradually from north to south and terminates abruptly at the south boundary of Bosque del Apache National Wildlife Refuge where water is pumped from the low flow conveyance channel to the river to abruptly terminate channel desiccation. The maximum duration in which one or more half-mile segments of river were observed without overland running water during the 2012 irrigation season is 109 days in the Isleta Reach and 117 days in the San Acacia Reach (see Figure 10 and Figure 11).



For reference, the location of select geographic features is indicated along the river mile axis. Note: "WW" is an abbreviation for "Wasteway."

Figure 10. The number of days that half-mile segments of the Isleta Reach of the Middle Rio Grande were observed without overland running water during the 2012 irrigation season.



For reference, the location of select geographic features is indicated along the river mile axis. Note: "BDAR" is an abbreviation for "Bosque del Apache Refuge."

Figure 11. The number of days that half-mile segments of the San Acacia Reach of the Middle Rio Grande were observed without overland running water during the 2012 irrigation season.

ACKNOWLEDGMENT AND CREDITS

Pauletta Dodge was responsible for most observations of river dynamics in the Isleta Reach of the Middle Rio Grande. Gregory Pargas was responsible for observations of river dynamics in the San Acacia Reach of the Middle Rio Grande. Michael Hatch developed and maintained database systems that generated much of the content of this report. We are grateful to the Isleta Pueblo and the Middle Rio Grande Conservancy District for granting access to the Rio Grande and its adjacent riparian corridor within their respective jurisdictions.

LITERATURE CITED

Federal Register. 1994. Endangered and threatened wildlife and plants: Final rule to list the Rio Grande silvery minnow as an endangered species. 50 CFR Part 17, RIN 1018-AB88. July 20, 1994. Federal Register 59 (138):36988–36995.

Marsh-McBirney Inc. 1990. Flow-mate Model 2000 Flowmeter Instruction Manual. Frederick, Maryland: Marsh-McBirney Inc. Available at: www.marsh-mcbirney.com. Accessed November 2011.

———. 1994. Open Channel Profiling Handbook. Frederick, Maryland: Marsh-McBirney Inc. Marsh-McBirney Inc. Available at: www.marsh-mcbirney.com. Accessed November 2011.

New Mexico Department of Game and Fish. 1988. Handbook of Species Endangered in New Mexico. Santa Fe: New Mexico Water Quality Control Commission 2000. State of New Mexico Standards for Interstate and Intrastate Streams (20 NMAC 6.2).

Secretaria de Desarrollo Social. 1994. Que determina las especies y subespecies de flora y fauna silvestres terrestres y acuaticas en peligro de extincion amenazadas, raras y las sujetas a proteccion especial, y que establece especificaciones para su proteccion. Diario Oficial de la Federacion, Mexico, CDLXXXVIII (10):2–60.

U.S. Fish and Wildlife Service (USFWS). 2003. Biological and Conference Opinions on the Effects of Actions Associated with the Programmatic Biological Assessment of Bureau of Reclamation's Water and River Maintenance Operations, Army Corps of Engineers' Flood Control Operation, and Related Non-Federal Actions on the Middle Rio Grande, Albuquerque. Consultation Number 2-22-03-F-0129. March 17 2003.

APPENDIX A - OVERVIEW OF 2012 MIDDLE RIO GRANDE GAGED RIVER FLOWS

Middle Rio Grande Water Operations - 2012

Date	Del Norte	Lobatos	Embudo	Rio Grande at Embudo	La Puente	El Vado (DS of Dam)	Abiquiu (US of	Abiquiu (DS of Res)	Chamita	Otowi	Cochiti (DS of Res)	Galisteo	Jemez Springs	Jemez Spgs. (DS of Res)	Albuq.	Bosque Farms	Hwy. 346	Rio Puerco	San Acacia	Escondida	Hwy. 380	San Marcial	E. Butte (DS of	Caballo (DS of Res)
13-Apr-2012	1622	223	248	754	1310	388	445	521	748	1530	1582	0	221	166	1230	877	346	0	1190	869	575	383	1120	1360
20-Apr-2012	875	160	100	598	771	400	404	479	596	1170	1187	0	131	65	834	548	540	2	786	582	565	474	1080	853
27-Apr-2012	2824	234	609	904	1350	507	541	602	631	1620	1115	0	167	87	748	312	241	0	691	349	305	134	1100	923
07-May-2012	2950	202	227	672	630	494	488	622	605	1280	1230	0	58	16	686	287	245	0	532	384	343	188	1120	200
11-May-2012	2374	177	144	672	554	455	449	474	419	1060	1166	0	50	23	633	263	305	0	435	390	302	101	29	0
14-May-2012	2356	223	142	604	584	455	449	558	537	1210	1174	0	48	13	693	373	385	0	465	420	284	114	30	0
18-May-2012	2608	145	90	528	456	455	442	596	562	1010	1206	0	28	6	620	180	205	0	301	406	316	123	0	0
21-May-2012	2572	148	92	523	357	584	544	725	648	1130	1122	0	24	0	563	172	168	0	174	346	271	81	43	0
23-May-2012	2932	125	93	508	328	699	683	704	631	1090	1155	0	20	0	557	222	133	0	194	304	208	56	35	200
25-May-2012	2446	160	98	494	275	944	944	1030	882	1380	1296	0	18	0	563	184	119	0	152	238	93	41	31	239
29-May-2012	1426	139	75	479	201	995	976	1040	942	1430	1480	0	17	0	713	292	198	0	167	199	86	52	29	1583
01-Jun-2012	1450	145	47	439	146	969	976	1050	942	1350	1367	0	16	0	686	337	180	0	176	196	71	38	1420	1311
04-Jun-2012	1426	133	48	420	135	902	932	1090	1010	1370	1397	0	12	0	659	277	133	0	184	205	74	41	1370	1654
06-Jun-2012	1198	112	57	431	88	918	919	1090	1020	1420	1437	0	16	0	679	327	133	0	171	197	65	35	1680	1936
08-Jun-2012	1121	97	40	383	63	969	963	1010	931	1260	1457	0	13	0	666	312	180	0	194	196	59	39	1670	1957
11-Jun-2012	938	107	26	344	44	952	957	1140	1090	1360	1477	0	11	0	633	416	183	0	186	192	60	36	1650	2156
13-Jun-2012	866	102	17	340	38	978	969	1210	1160	1430	1564	0	7	0	666	312	163	0	191	194	59	39	1690	2037
15-Jun-2012	754	82	14	340	32	829	803	1190	1220	1440	1559	0	11	0	812	307	141	0	157	183	47	34	1720	1795
18-Jun-2012	665	62	11	301	24	902	889	1260	1210	1440	1599	0	8	0	679	268	92	0	130	161	47	35	1740	1733
20-Jun-2012	605	43	10	270	19	902	889	1300	1160	1370	1418	0	7	0	679	176	84	0	113	121	13	27	1730	1815
22-Jun-2012	548	43	9	243	17	1040	1020	1260	1200	1370	1392	0	8	0	607	148	168	0	83	101	7	30	1790	1737
25-Jun-2012	468	35	8	240	18	978	950	1210	1130	1330	1313	0	5	0	633	140	248	0	68	75	2	26	1850	1825
27-Jun-2012	905	66	12	466	28	2040	1964	2280	2120	2360	2456	0	8	0	1102	266	342	0	114	152	4	60	3800	3456
29-Jun-2012	425	35	5	226	13	987	976	1220	1160	1270	1210	0	5	0	539	104	39	0	54	50	2	29	1910	1592
06-Jul-2012	1093	104	10	472	35	1405	1332	1339	1253	2138	2005	0	42	133	1066	230	545	379	338	277	4	68	4020	2583
09-Jul-2012	612	53	5	243	22	699	666	704	622	798	855	0	14	0	431	90	379	379	301	254	2	33	1900	1110
11-Jul-2012	555	58	19	284	30	394	385	851	748	1020	843	0	23	0	527	81	154	55	61	109	200	155	2250	1109
13-Jul-2012	494	58	16	277	32	494	477	590	529	852	825	0	32	4	447	302	171	416	305	257	203	160	2330	1044
20-Jul-2012	395	56	4	223	26	797	781	1020	921	1130	974	0	14	0	400	43	0	2	42	27	6	19	1460	2046
23-Jul-2012	330	35	4	240	22	789	781	1080	1010	1290	974	0	18	0	486	27	98	0	19	14	2	17	1200	1980
25-Jul-2012	373	35	3	226	37	789	963	974	862	1150	1017	0	23	0	727	26	0	0	8	9	2	17	1580	2046
27-Jul-2012	335	30	3	347	32	699	719	754	738	980	864	0	23	0	679	111	124	24	8	7	2	17	1680	1947

Date	Del Norte	Lobatos	Embudo	Rio Grande at Embudo	La Puente	El Vado (DS of Dam)	Abiquiu (US of	Abiquiu (DS of Res)	Chamita	Otowi	Cochiti (DS of Res)	Galisteo	Jemez Springs	Jemez Spgs. (DS of Res)	Albuq.	Bosque Farms	Hwy. 346	Rio Puerco	San Acacia	Escondida	Hwy. 380	San Marcial	E. Butte (DS of	Caballo (DS of Res)
01-Aug-2012	378	34	4	220	63	706	666	1000	982	1000	763	0	13	0	263	22	0	8	14	10	2	16	1350	2037
03-Aug-2012	320	32	4	223	29	706	666	805	852	1050	925	0	8	0	302	14	0	0	14	10	2	15	1070	1856
06-Aug-2012	315	38	8	246	48	699	820	725	823	1010	944	0	11	0	405	14	0	0	5	12	2	27	1380	1795
08-Aug-2012	368	27	22	263	35	706	671	732	823	1010	945	0	17	0	361	0	0	0	3	8	2	28	1370	1936
13-Aug-2012	335	23	5	213	24	721	771	897	911	1020	966	0	10	0	464	0	3	0	5	0	0	26	1890	2091
15-Aug-2012	315	27	4	213	22	728	765	994	926	1100	955	0	10	0	356	0	3	0	5	0	0	28	1080	1210
17-Aug-2012	286	27	5	256	25	721	771	360	804	877	1012	7	10	10	713	0	5	0	5	0	0	35	1080	950
20-Aug-2012	295	32	3	210	29	714	771	697	648	698	757	1	12	0	431	0	24	42	19	1	0	35	948	955
21-Aug-2012	305	32	3	213	34	598	637	690	785	822	765	0	13	10	352	0	36	13	6	6	0	36	962	945
22-Aug-2012	290	27	3	216	38	605	628	642	666	752	505	0	14	0	352	0	56	15	5	96	0	38	971	950
23-Aug-2012	554	60	14	446	76	1182	1266	1284	1386	1816	908	0	30	0	526	0	56	10	180	42	0	70	1942	1900
24-Aug-2012	315	28	10	223	35	612	633	316	350	558	580	0	20	19	166	0	54	1	99	43	76	35	980	736
27-Aug-2012	310	24	6	220	32	584	616	445	464	651	573	0	17	0	176	0	32	12	29	43	63	50	1030	745
28-Aug-2012	315	34	8	220	34	591	612	440	428	582	631	0	16	0	173	0	15	5	32	40	16	50	1040	745
29-Aug-2012	315	23	6	210	38	591	612	451	404	563	463	0	15	0	197	0	11	4	31	37	8	29	1040	687
31-Aug-2012	330	22	4	197	28	584	612	365	350	446	565	0	12	0	163	0	4	0	29	37	0	29	731	687
05-Sep-2012	272	16	3	184	20	598	612	497	497	517	445	0	8	0	137	0	1	0	20	9	0	32	35	522
07-Sep-2012	223	15	3	181	20	591	576	423	331	479	431	0	8	0	111	0	2	0	5	6	0	28	32	512
10-Sep-2012	205	25	2	187	24	591	576	440	363	517	437	0	10	0	128	0	14	0	5	2	0	34	33	490
12-Sep-2012	227	29	3	190	22	598	580	407	337	517	442	0	13	0	134	0	9	2	2	1	0	33	30	477
14-Sep-2012	401	35	15	250	65	612	588	114	124	404	441	0	22	2	267	0	10	6	159	228	183	925	27	0
17-Sep-2012	264	66	9	223	32	616	580	249	192	305	434	0	15	0	143	0	5	11	8	27	0	120	25	0
26-Sep-2012	281	43	12	243	30	612	592	386	325	563	469	0	11	0	122	0	3	0	7	15	0	30	4	0
28-Sep-2012	320	47	8	229	32	605	588	316	257	466	468	0	11	0	125	0	4	0	7	18	0	28	4	0
01-Oct-2012	246	58	6	229	32	605	588	311	279	466	456	0	10	0	153	0	2	0	7	15	0	31	4	0
05-Oct-2012	235	43	5	229	25	400	418	316	279	442	456	0	12	0	137	0	1	0	8	4	0	30	0	0
09-Oct-2012	231	46	11	220	22	306	325	244	237	426	375	0	13	0	119	---	2	0	8	4	0	26	0	0
12-Oct-2012	231	44	10	223	26	95	103	220	201	400	379	0	14	0	111	0	3	0	8	7	0	20	0	0
15-Oct-2012	305	41	12	243	40	55	53	97	104	404	558	0	18	0	231	0	4	272	111	7	0	24	0	0
19-Oct-2012	231	47	12	229	25	55	50	189	192	450	387	0	14	0	140	25	4	1	7	10	0	20	0	0
22-Oct-2012	238	35	14	236	24	53	50	168	158	419	376	0	11	0	134	29	5	0	12	19	0	30	0	0
26-Oct-2012	192	35	37	216	26	55	56	138	131	350	340	0	15	0	125	34	5	0	19	27	0	29	0	0
31-Oct-2012	212	46	14	250	25	57	67	77	104	381	323	0	19	0	140	81	13	0	28	47	0	30	0	0

APPENDIX B -
REPORT OF 2012 FLOW ESTIMATES AND LONGITUDINAL LIMITS OF RUNNING WATER CONDITIONS IN THE MIDDLE RIO GRANDE

River Eyes Report - 2012

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
08-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
09-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
11-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
13-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
14-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
16-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	14:15	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	275.00 (275 - 275)	Visual	—	—	—	—	None
	13:35	Rio Grande at Peralta Wasteway (RM 152.5)	Continuous flow	250.00 (250 - 250)	Visual	—	—	—	—	None
	12:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
17-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	8:30	Rio Grande at Bosque Farms Gauge (RM 164.5)	Continuous flow	294.00 (294 - 294)	Measured	—	—	—	—	None
	8:45	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	250.00 (250 - 250)	Visual	—	—	—	—	None
21-May-2012	**General Comments:**	Flow in the main river channel is continuous throughout the Isleta Reach. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
22-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
23-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
30-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
31-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
01-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
03-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
04-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
05-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations. No site-specific observations.								
	0:00	General observation (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.									
	8:00	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	155.00 (150 - 160)	Visual	—	—	—	—	None
	8:20	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	135.00 (130 - 140)	Visual	—	—	—	—	None
07-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.									
	7:22	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	160.00 (150 - 170)	Visual	—	—	—	—	None
	7:35	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	175.00 (170 - 180)	Visual	—	—	—	—	None
	18:08	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	175.00 (170 - 180)	Visual	—	—	—	—	None
08-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.									
	6:18	Rio Grande at Belen (RM 149.5)	Continuous flow	160.00 (150 - 170)	Visual	—	—	—	—	None
	12:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	175.00 (170 - 180)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
10-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
11-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow. No site-specific observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
16-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	15:00	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	160.00 (150 - 170)	Visual	—	—	—	—	None
	15:20	Rio Grande at Belen (RM 149.5)	Continuous flow	90.00 (80 - 100)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	13:30	Rio Grande at Belen (RM 149.5)	Continuous flow	80.00 (80 - 80)	Visual	—	—	—	—	None
21-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	12:45	Rio Grande to Los Lunas (RM 161.4)	Continuous flow	115.00 (110 - 120)	Visual	—	—	—	—	None
	12:28	Rio Grande at Belen (RM 149.5)	Continuous flow	80.00 (70 - 90)	Visual	—	—	—	—	None
	12:09	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	60.00 (50 - 70)	Visual	—	—	—	—	None
	11:58	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	60.00 (50 - 70)	Visual	—	—	—	—	None
23-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and field observations.								
	17:40	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	115.00 (110 - 120)	Visual	—	—	—	—	None
	17:15	Rio Grande at Belen (RM 149.5)	Continuous flow	60.00 (50 - 70)	Visual	—	—	—	—	None
	16:58	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	70.00 (60 - 80)	Visual	—	—	—	—	None
	16:43	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	50.00 (40 - 60)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow. No field observations this date.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	---	---	---	---	None
25-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations 6:15								
	6:15	Rio Grande just upstream of Peralta Wasteway (RM 152.75)	Continuous flow	45.00 (40 - 50)	Visual	---	---	---	---	Wetted channel 83 ft wide; average depth estimated to be 0.4 ft deep.
26-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	6:30	Rio Grande one mile upstream of Peralta Wasteway (RM 153.5)	Continuous flow	45.00 (40 - 50)	Visual	---	---	---	---	Wetted channel 50 ft wide; average depth estimated to be 0.8 ft deep.
	6:57	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	70.00 (60 - 80)	Visual	---	---	---	---	None
	7:12	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	55.00 (50 - 60)	Visual	---	---	---	---	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
27-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	6:20	Rio Grande 1 mile upstream of Peralta Wasteway (RM 153.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	Wetted channel 25 ft wide; average estimated depth = 0.75 ft.
	6:30	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	37.50 (35 - 40)	Visual	—	—	—	—	None
28-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	5:41	Rio Grande one mile upstream of Peralta Wasteway (RM 153.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	Wetted channel 25 ft wide; average estimated depth = 0.75 ft.
	6:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None
29-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	5:30	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	6:00	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	8:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	35.00 (30 - 40)	Visual	—	—	—	—	None
	7:30	Rio Grande at Veguita (RM 136.5)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None
	6:40	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	6:00	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	7.00 (7 - 7)	Measured	---	---	---	---	Measured with Marsh McBirney, 5 sections, channel width = 18 ft
	6:30	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	10.00 (10 - 10)	Visual	---	---	---	---	None
	6:45	Peralta Main Wasteway (RM 152.5)	No discharge	0.00 (0 - 0)	Visual	---	---	---	---	None
	7:00	LP1DR Wasteway (RM 150)	No discharge	0.00 (0 - 0)	Visual	---	---	---	---	None
	7:10	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	---	---	---	---	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	32.00 (32 - 32)	Visual	---	---	---	---	Estimate of observed flow informed by internet posting
	7:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	17.50 (15 - 20)	Visual	---	---	---	---	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	6:20	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	10.00 (10 - 10)	Visual	—	—	—	—	None
	5:45	Peralta Main Wasteway at Rio Grande (RM 152.5)	Irrigation Water Discharge	5.00 (5 - 5)	Visual	—	—	—	—	None
	6:00	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	5.00 (5 - 5)	Visual	—	—	—	—	None
	5:00	LP1DR Wasteway (RM 150)	No discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	26.00 (26 - 26)	Visual	—	—	—	—	Estimate of observed flow informed by internet posting
	7:15	Rio Grande at Abo Arroyo (RM 139.2)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	7:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	5:30	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	3.50 (2 - 5)	Visual	—	—	—	—	None
	5:45	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	3.50 (2 - 5)	Visual	—	—	—	—	None
	5:55	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	5.00 (5 - 5)	Visual	—	—	—	—	None
	6:10	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	10.00 (10 - 10)	Visual	—	—	—	—	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	23.00 (23 - 23)	Visual	—	—	—	—	Estimate of observed flow in agreement with internet posting
	7:00	Rio Grande at Veguita (RM 136.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	7:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
03-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	6:00	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	2.00 (1 - 3)	Visual	—	—	—	—	None
	5:40	Rio Grande 0.5 miles upstream of Peralta Wasteway (RM 153)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	5:25	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	6:30	Peralta Main Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	10.00 (10 - 10)	Visual	—	—	—	—	None
	6:50	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	21.00 (21 - 21)	Visual	—	—	—	—	Estimate of observed flow in agreement with USGS internet posting of flow

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 1.2 mile segment in the Isleta Reach. River is reduced to isolated pools over a 1.2-mile segment extending south from a point approximately 1.6 miles upstream of Peralta Main Wasteway (RM 154.1) to a point approximately 0.4 miles upstream of Peralta Main Wasteway (RM 152.9). Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	6:30	Rio Grande 1.6 miles upstream of Peralta Wasteway (RM 154.1)	Top of discontinuous flow	0.00 (0 - 0)	Visual	3842686	340107	—	—	None
	6:00	Rio Grande 0.4 miles upstream of Peralta Wasteway (RM 152.9)	Bottom of discontinuous flow	0.00 (0 - 0)	Visual	—	—	3840774	340043	None
	5:30	Rio Grande at the Peralta Main Wasteway (RM 152.5)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	7:15	Peralta Wasteway at Rio Grande (RM 152.5)	No discharge from irrigation infrastructure	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:30	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	18.00 (18 - 18)	Visual	—	—	—	—	Estimate of observed flow in agreement with USGS posting of flow
	8:00	Rio Grande at US 60 (RM 130.6)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 1.58 mile segment in the Isleta Reach. River is reduced to isolated pools over a 1.58-mile segment extending south from a point approximately 1.58 miles upstream of Peralta Main Wasteway (RM 154.08) to the Peralta Main Wasteway (RM 152.5). This includes 0.4 miles of "new drying." Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	6:30	Rio Grande 1.58 miles upstream of Peralta Wasteway (RM 154.08)	Top of discontinuous flow	0.00 (0 - 0)	Visual	3842643	340076	—	—	None
	6:00	Rio Grande at the confluence with Peralta Wasteway (RM 152.5)	Bottom of discontinuous flow	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	7:00	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	15.00 (15 - 15)	Visual	—	—	—	—	None
	5:00	LP1DR Wasteway (RM 150)	Irrigation discharge to river	20.00 (20 - 20)	Visual	—	—	—	—	None
	7:30	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	21.00 (21 - 21)	Visual	—	—	—	—	Estimate of observed flow in agreement with USGS posting of flow
06-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 3.36 mile segment in the Isleta Reach. River is reduced to isolated pools over a 3.36-mile segment extending south from a point approximately 3.36 miles upstream of Peralta Main Wasteway (RM 155.86) to the Peralta Main Wasteway (RM 152.5). This includes 1.78 miles of "new drying." River is very slowly rewetting at time "top of discontinuous flow" was observed. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	7:00	Rio Grande 3.36 miles upstream of Peralta Wasteway (RM 155.86)	Top of river drying	0.00 (0 - 0)	Visual	3845176	340518	—	—	None
	7:30	Rio Grande at the confluence of the Peralta Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations. The 3.36-mile segment that lacked surface flow yesterday (extending upstream from Peralta Main Wasteway) has rewet									
	5:30	Rio Grande 0.25 mi upstream of Peralta Wasteway (RM 152.75)	Continuous flow	115.00 (115 - 115)	Visual	—	—	—	—	None
08-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	5:30	Rio Grande 0.25 mi upstream of Peralta Wasteway (RM 152.75)	Continuous flow	75.00 (70 - 80)	Visual	—	—	—	—	None
	5:45	Peralta wasteway at Rio Grande (RM 152.5)	Irrigation discharge	32.50 (30 - 35)	Visual	—	—	—	—	None
09-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	5:30	Rio Grande at Los Chavez Wasteway (RM 156)	Continuous flow	50.00 (40 - 60)	Visual	—	—	—	—	None
	5:45	Peralta wasteway at Rio Grande (RM 152.5)	Irrigation discharge	30.00 (30 - 30)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Jul-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.									
	5:45	Rio Grande 0.5 miles upstream of Peralta Wasteway (RM 153)	Continuous flow	3.50 (2 - 5)	Visual	—	—	—	—	None
	5:30	Peralta wasteway at the Rio Grande (RM 152.5)	Irrigation discharge	2.50 (2 - 3)	Visual	—	—	—	—	None
	6:30	Peralta wasteway at the Rio Grande (RM 152.5)	Irrigation discharge	0.20 (0.2 - 0.2)	Visual	—	—	—	—	None
	7:08	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	60.00 (55 - 65)	Visual	—	—	—	—	None
	7:23	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	60.00 (55 - 65)	Visual	—	—	—	—	None
11-Jul-2012	**General Comments:** The river is dry or reduced to isolated pools over a 0.9 mile segment in the Isleta Reach. Flow in the main river channel is reduced to isolated pools over a 0.9-mile segment extending south from a point approximately 1.6 miles upstream of Peralta Wasteway (RM 154.1). There is no "new drying." Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.									
	6:57	Rio Grande 1.6 miles upstream of Peralta Wasteway (RM 154.1)	Top of river drying	0.00 (0 - 0)	Visual	3842689	340112	—	—	None
	6:12	Rio Grande 0.8 miles upstream of Peralta Wasteway (RM 153.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3841287	339747	Note: river may have dried downstream to Peralta Wasteway one or two hours after this observation.
	5:45	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	0.25 (0.25 - 0.25)	Visual	—	—	—	—	None
	5:30	Peralta wasteway at the Rio Grande (RM 152.5)	Irrigation discharge	12.50 (10 - 15)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Jul-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	6:00	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	42.50 (40 - 45)	Visual	—	—	—	—	None
	5:50	Peralta wasteway at the Rio Grande (RM 152.5)	No discharge from Peralta Waste Way	0.00 (0 - 0)	Visual	—	—	—	—	None
13-Jul-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	6:44	Rio Grande 1.5 miles upstream of Peralta Wasteway (RM 154)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None
	6:00	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	0.25 (0.25 - 0.25)	Visual	—	—	—	—	None
	5:45	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation wasteway discharge	9.50 (7 - 12)	Visual	—	—	—	—	None
	7:21	Peralta Wasteway at Rio Grande (RM 152.5)	No irrigation wasteway discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
14-Jul-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the Isleta Reach based on USGS internet postings of flow and site-specific observations.								
	5:55	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	22.50 (20 - 25)	Visual	—	—	—	—	None
	5:30	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	7.50 (5 - 10)	Visual	—	—	—	—	None
	6:00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 0.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 0.5-mile segment extending south from a point approximately 1.3 miles upstream of Peralta Main Wasteway (RM 153.8) to a point 0.8 miles upstream of Peralta Wasteway (RM 153.3). There is no "new drying." Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	7:00	Rio Grande 1.3 miles upstream of Peralta Wasteway (RM 153.8)	Top of river drying	0.00 (0 - 0)	Visual	3842099	339670	—	—	None
	6:15	Rio Grande 0.8 miles upstream of Peralta Wasteway (RM 153.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3841280	339734	None
	6:00	Rio Grande 0.5 miles upstream of Peralta Wasteway (RM 153)	Continuous flow	0.25 (0.25 - 0.25)	Visual	—	—	—	—	None
	5:30	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	5:25	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation wasteway discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
16-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 4.2 mile segment in the Isleta Reach. River is reduced to isolated pools over a 34.2-mile segment extending south from a point approximately 3.8 miles upstream of Peralta Main Wasteway (RM 156.3) to the Peralta Main Wasteway (RM 152.5). This includes 2.9 miles of "new drying." Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	5:51	Rio Grande 4.2 miles upstream of Peralta Wasteway (RM 156.7)	Top of river drying	0.00 (0 - 0)	Visual	3846203	340465	—	—	None
	5:15	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation wasteway discharge	12.50 (10 - 15)	Visual	—	—	—	—	None
	5:30	Rio Grande at Peralta Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 5.8 mile segment in the Isleta Reach. River is reduced to isolated pools over a 5.8-mile segment extending south from a point approximately 1.2 miles upstream of Los Chavez Wasteway (RM 157.9) to a point approximately 0.4 miles downstream of Peralta Main Wasteway (RM 152.1). This includes 1.2 miles of "new drying." Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 1.2 miles upstream of Los Chavez Wasteway (RM 157.9)	Top of river drying	0.00 (0 - 0)	Visual	3847824	341178	—	—	None
	5:30	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:50	Rio Grande 0.4 miles downstream of Peralta Wasteway (RM 152.1)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3839575	340361	None
18-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 6 mile segment in the Isleta Reach. River is reduced to isolated pools over a 6.0-mile segment extending south from a point approximately 1.6 miles upstream of Los Chavez Wasteway (RM 158.5) to Peralta Main Wasteway (RM 152.5). This includes 0.6 miles of "new drying" at the "top of river drying". Since yesterday, 0.4 miles of river rewet at the "bottom of river drying". Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 1.6 miles upstream of Los Chavez Wasteway (RM 158.5)	Top of river drying	0.00 (0 - 0)	Visual	3848446	341324	—	—	None
	5:15	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	4.00 (3 - 5)	Visual	—	—	—	—	None
	5:17	Rio Grande at Peralta Wasteway (RM 152.5)	Bottom of river drying. Since yesterday, 0.4 miles of river rewet at the "bottom of river drying".	0.00 (0 - 0)	Visual	—	—	3840149	340156	None
	6:52	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge to river	12.50 (10 - 15)	Visual	—	—	—	—	None
	7:30	Rio Grande at Veguita (RM 138)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	8:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	8.50 (7 - 10)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Jul-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 6.3 mile segment in the Isleta Reach. River is reduced to isolated pools over a 6.39-mile segment extending south from a point approximately 1.5 miles upstream of Los Chavez Wasteway (RM 158.3) to a point 0.5 miles downstream of Peralta Main Wasteway (RM 151.91). This includes 0.2 miles of river rewetting at the top of drying and 0.19 miles of "new drying" at the bottom of drying. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.							
	7:30	Rio Grande at Los Lunas (RM 161.4)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	6:05	Rio Grande 1.5 miles upstream of Los Chavez Wasteway (RM 158.3)	Top of river drying	0.00 (0 - 0)	Visual	3848338	341347	—	—	None
	5:09	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:10	Peralta Wasteway at Rio Grande (RM 152.5)	Irrigation discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:55	Rio Grande 0.5 miles downstream of Peralta Wasteway (RM 151.91)	Bottom of river drying. Since yesterday, 0.59 miles of river dried at the "bottom of river drying", of which 0.19 represents "new drying."	0.00 (0 - 0)	Visual	—	—	3839324	340343	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
20-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 10.9 mile segment in the Isleta Reach. River is reduced to isolated pools over a 7.0-mile segment in the vicinity of Peralta-Los Chaves wasteways, extending south from a point approximately 1.89 miles upstream of Los Chavez Wasteway (RM 158.7) to a point 0.67 miles downstream of Peralta Main Wasteway (RM 151.7). This includes 0.4 miles of "new drying" at the top of drying and 0.21 miles of "new drying" at the bottom of drying. A second segment of river is reduced to isolated pools between Hwy 346 and Hwy 60. Top of drying in this segment is 3.46 miles downstream of Hwy 346 (RM 137.2). Bottom of drying in this segment is 2.54 miles upstream of Hwy 60 (RM 133.3). Total dry river in this segment is 3.9 miles. This entire segment is "new drying." Total river dry in the Isleta Reach, including the two dry segments, is 10.9 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.							
	5:45	Rio Grande 1.89 miles upstream of Los Chavez Wasteway (RM 158.7)	Top of river drying	0.00 (0 - 0)	Visual	3848869	341371	—	—	None
	6:30	Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3839000	340344	None
	7:16	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	7:50	Rio Grande 3.46 miles downstream of Hwy 346 (RM 137.2)	Top of river drying	0.00 (0 - 0)	Visual	3819840	335471	—	—	None
	8:11	Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3814012	334717	None
	9:42	Rio Grande at Hwy 60 (RM 130.56)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
21-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 10.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 7.5-mile segment in the vicinity of Peralta-Los Chaves wasteways, extending south from a point approximately 2.3 miles upstream of Los Chavez Wasteway (RM 159.3) to a point 0.67 miles downstream of Peralta Main Wasteway (RM 151.7). This includes 0.5 mi. of "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.2 miles downstream of Hwy 346 (RM 136.3). Bottom of drying in this segment is 2.54 miles upstream of US 60 (RM 133.3). Total dry river in this segment is 3.0 miles, which includes 0.9 miles of re-wetting. Total river dry in the Isleta Reach, including the two dry segments, is 10.5 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	6:45	Rio Grande 2.3 miles upstream of Los Chavez Wasteway (RM 159.2)	Top of river drying	0.00 (0 - 0)	Visual	3849716	341530	—	—	None
	8:00	Rio Grande 0.67 miles downstream of Peralta Wasteway (RM 151.7)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3839000	340344	None
	10:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	7.60 (7.6 - 7.6)	Visual	—	—	—	—	Observation confirms USGS posting on internet
	9:00	Rio Grande 4.44 miles downstream of Hwy 346 (RM 136.3)	Top of river drying	0.00 (0 - 0)	Visual	3818384	335017	—	—	None
	10:30	Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3814012	334717	None
	11:00	Rio Grande at US 60 (RM 130.56)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.65 mile segment in the Isleta Reach. River is reduced to isolated pools over a 10.9-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.74 miles upstream of Los Lunas Bridge (RM 162.2) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). This includes 3.29 mi. of "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.73 miles downstream of Hwy 346 (RM 138.0). Bottom of drying in this segment is 2.54 miles upstream of US 60 (RM 133.3). Total dry river in this segment is 4.7 miles, which includes 1.7 miles of "new" drying. Total river dry in the Isleta Reach, including the two dry segments, is 15.65 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	6:30	Rio Grande 0.74 miles upstream of Los Lunas Bridge (RM 162.2)	Top of river drying, including 3.0 miles of "new drying"	0.00 (0 - 0)	Visual	3853728	343489	—	—	None
	8:30	Rio Grande 1.15 miles downstream of Peralta Wasteway (RM 151.25)	Bottom of river drying, including 0.29 miles of "new drying"	0.00 (0 - 0)	Visual	—	—	3838299	340198	None
	7:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.60 (6.6 - 6.6)	Visual	—	—	—	—	Observation confirms USGS internet posting of flow
	10:30	Rio Grande 2.73 miles downstream of Hwy 346 (RM 138)	Top of river drying, including 1.7 mi. of "new" drying since yesterday.	0.00 (0 - 0)	Visual	3820976	335314	—	—	None
	13:00	Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3814012	334717	None
	14:00	Rio Grande at US 60 (RM 130.6)	Continuous flow	3.50 (2 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
23-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.35 mile segment in the Isleta Reach. River is reduced to isolated pools over an 11.2-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.95 miles upstream of Los Lunas Bridge (RM 162.5) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). This includes 0.3 mi. of "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.38 miles downstream of Hwy 346. Bottom of drying in this segment is 2.54 miles upstream of US 60. Total dry river in this segment is 4.1 miles. This includes 0.1 miles of "new drying" since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 15.35 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reac								
	5:30	Rio Grande 0.95 miles upstream of Los Lunas Bridge (RM 162.5)	Top of drying, including 0.3 mi. of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3854112	343470	—	—	None
	6:40	Rio Grande 1.15 miles downstream of Peralta Wasteway (RM 151.25)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838299	340198	None
	7:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	11.00 (11 - 11)	Visual	—	—	—	—	Observation confirms USGS internet posting of flow
	7:50	Rio Grande 3.38 miles downstream of Hwy 346 (RM 137.4)	Top of river drying, including 0.1 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3818984	335462	—	—	None
	8:25	Rio Grande 2.54 miles upstream of Hwy 60 (RM 133.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3814012	334717	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.6 mile segment in the Isleta Reach. River is reduced to isolated pools over an 11.1-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.94 miles upstream of Los Lunas Bridge (RM 162.4) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Some 0.1 miles of river rewet since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.17 miles downstream of Hwy 346. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.5 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.6 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach								
	5:21	Rio Grande 0.94 miles upstream of Los Lunas Bridge (RM 162.4)	Top of river drying, along with 0.1 miles of river rewet since yesterday	0.00 (0 - 0)	Visual	3854094	343490	—	—	None
	6:10	Peralta Wasteway at the Rio Grande (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:23	Rio Grande 1.15 miles downstream of Peralta Wasteway (RM 151.25)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838294	340196	None
	7:07	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	5.00 (5 - 5)	Visual	—	—	—	—	None
	7:32	Rio Grande 3.17 miles downstream of Hwy 346 (RM 137.5)	Top of river drying	0.00 (0 - 0)	Visual	3820291	335481	—	—	None
	7:58	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	None
	8:45	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	9:00	Rio Grande 1.0 mile downstream of Hwy 60 (RM 129.5)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
25-Jul-2012		**General Comments:** The river is dry or reduced to isolated pools over a 14.9 mile segment in the Isleta Reach. River is reduced to isolated pools over a 9.9-mile segment in the vicinity of Peralta-Los Lunas Bridge, extending south from a point approximately 0.94 miles upstream of Los Lunas Bridge (RM 162.4) to Peralta Main Wasteway (RM 152.5). Some 1.2 miles of river rewet downstream of Peralta Wasteway. More rewetting of this segment is anticipated today. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.73 miles downstream of Hwy 346 (RM 138.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.0 miles. Total river dry in the Isleta Reach, including the two dry segments, is 14.9 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach								
	5:24	Rio Grande 0.94 miles upstream of Los Lunas Bridge (RM 162.4)	Top of river drying	0.00 (0 - 0)	Visual	3854094	343490	—	—	None
	5:51	Peralta Wasteway at the Rio Grande (RM 152.5)	Wasteway discharge to river	37.50 (35 - 40)	Visual	—	—	—	—	None
	5:55	Rio Grande at Peralta Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:46	Rio Grande 2.73 miles downstream of Hwy 346 (RM 138)	Top of river drying	0.00 (0 - 0)	Visual	3820993	335302	—	—	None
	7:09	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	None
	8:20	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 3.95 mile segment in the Isleta Reach. The 9.9-mile segment from a point approximately 0.94 miles upstream of Los Lunas Bridge (RM 162.4) to Peralta Main Wasteway (RM 152.5) that was dry yesterday rewet overnight. A segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.74 miles downstream of Hwy 346 (RM 136.95). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Some 1.07 miles of river rewet since yesterday. Total dry river in this segment is 3.95 miles. Total river dry in the Isleta Reach, including the two dry segments, is 3.95 miles. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach								
	5:10	Rio Grande 0.25 miles upstream of Peralta Wasteway (RM 152.75)	Continuous flow	40.00 (35 - 45)	Visual	---	---	---	---	None
	4:40	Peralta Wasteway at the Rio Grande (RM 152.5)	Irrigation discharge to the river	8.50 (7 - 10)	Visual	---	---	---	---	None
	6:03	Rio Grande 3.74 miles downstream of Hwy 346 (RM 136.95)	Top of river drying	0.00 (0 - 0)	Visual	3819360	335481	---	---	None
	6:55	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	---	---	3813571	334416	None
	7:20	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	---	---	---	---	None
27-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 2.75 mile segment in the Isleta Reach. River is reduced to isolated pools over a 2.75-mile segment extending south from a point 4.94 miles downstream of Hwy 346 (RM 135.75) to a point 2.3 miles upstream of US 60 (RM 133.0). There was 1.2 miles of river that rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 4.94 miles downstream of Hwy 346 (RM 135.75)	Top of river drying. Some 1.2 miles of river rewet since yesterday.	0.00 (0 - 0)	Visual	3817621	334774	---	---	None
	6:15	Rio Grande 2.3 miles upstream of Hwy 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	---	---	3813571	334416	None
	6:47	Rio Grande at Hwy 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	---	---	---	---	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 2 mile segment in the Isleta Reach. River is reduced to isolated pools over a 2.0-mile segment extending south from a point 5.6 miles downstream of Hwy 346 (RM 135) to a point 2.3 miles upstream of US 60 (RM 133.0). There is 0.75 miles of river that rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach.								
	5:50	Rio Grande at Los Lunas Bridge (RM 161.4)	Continuous flow	60.00 (50 - 70)	Visual	—	—	—	—	None
	6:40	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	7:05	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	7:30	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334416	—	—	None
	8:15	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	None
	9:30	Rio Grande at US 60 (RM 130.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
29-Jul-2012		**General Comments:** The river is dry or reduced to isolated pools over a 12.8 mile segment in the Isleta Reach. River is reduced to isolated pools over a 10.8-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 1.9 miles upstream of Los Lunas Bridge (RM 163.3) to the confluence of Peralta Main Wasteway (RM 152.5). Some 0.8 miles of river is considered "new" drying. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.6 miles downstream of Hwy 346 (RM 135.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). In this segment, there is 2.0 miles of dry river. Total number of miles of discontinuous flow within the Isleta Reach, including the two dry segments, is 12.8 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach							
	6:20	Rio Grande 1.9 miles upstream of Los Lunas Bridge (RM 163.3)	Top of river drying	0.00 (0 - 0)	Visual	3855536	343128	—	—	None
	7:45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840138	340117	None
	7:50	Peralta Main Wasteway (RM 152.5)	Irrigation discharge	10.00 (10 - 10)	Visual	—	—	—	—	None
	8:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	9:45	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334381	—	—	None
	9:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	None
	10:00	Rio Grande at US 60 (RM 130.5)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.06 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 3.19 miles upstream of Los Lunas Bridge (RM 164.56) to the confluence of Peralta Main Wasteway (RM 152.5). Some 1.26 miles of river is considered "new" drying in this segment of river. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.6 miles downstream of Hwy 346 (RM 135.0). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). In this segment, there is 2.0 miles of dry river. Total number of miles of discontinuous flow within the Isleta Reach, including the two dry segments, is 14.06 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach								
	5:20	Rio Grande 3.19 miles upstream of Los Lunas Bridge (RM 164.56)	Top of river drying. There has been 1.26 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3857574	343079	—	—	None
	6:20	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840138	340117	None
	7:05	Rio Grande 5.6 miles downstream of Hwy 346 (RM 135)	Top of river drying	0.00 (0 - 0)	Visual	3816564	334381	—	—	None
	7:30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
31-Jul-2012		**General Comments:** The river is dry or reduced to isolated pools over a 11.8 mile segment in the Isleta Reach. River is reduced to isolated pools over an 11.8-mile segment in the vicinity of Isleta Diversion-Belen (RM 164.3) to the confluence of Peralta Main Wasteway (RM 152.5). Some 0.3 miles of river rewet in this segment of river since yesterday. A second segment of river that was reduced to isolated pools yesterday between Hwy 346 and US 60 has rewet. In this segment, 2.0 miles of river has rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	6:40	240 Wasteway at the point where the confluence of WW meets the river. (RM 165.2)	Wasteway discharge	5.00 (5 - 5)	Visual	—	—	—	—	None
	6:20	Rio Grande 2.9 miles upstream of Los Lunas Bridge (RM 164.3)	Top of river drying	0.00 (0 - 0)	Visual	3857134	343059	—	—	None
	7:28	Peralta Wasteway (RM 152.5)	Irrigation discharge	10.00 (10 - 10)	Visual	—	—	—	—	None
	7:30	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840138	340117	None
	7:45	LP1 Wasteway (RM 150)	Irrigation discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	36.00 (36 - 36)	Visual	—	—	—	—	Observation confirms USGS internet posting
	8:46	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
	8:25	Rio Grande at US 60 (RM 130.6)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.13 mile segment in the Isleta Reach. River is reduced to isolated pools over an 12.43-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 0.4 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 152.1). This segment has gone dry earlier this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.58 miles upstream of Hwy 60 (RM 134.3). Bottom of drying in this segment is 3.0 miles upstream of US 60 (RM 133.6). Total dry river in this segment is 0.7 miles. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 13.13 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	5:15	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying	0.00 (0 - 0)	Visual	3857542	343030	—	—	None
	6:30	Rio Grande 0.4 miles downstream of Peralta Main Wasteway (RM 152.1)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3839583	340359	None
	6:45	Peralta Main Wasteway (RM 152.1)	Irrigation discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	10.00 (8 - 12)	Visual	—	—	—	—	None
	7:30	Rio Grande at Veguita (RM 137.9)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	8:25	Rio Grande 3.58 miles upstream of US 60 (RM 134.3)	Top of river drying	0.00 (0 - 0)	Visual	3815477	334396	—	—	None
	8:46	Rio Grande 3.0 miles upstream of US 60 (RM 133.6)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3814469	334863	None
	7:45	Rio Grande at US 60 (RM 130.6)	Continuous flow	8.50 (7 - 10)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.35 mile segment in the Isleta Reach. River is reduced to isolated pools over an 14.9-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.2 miles upstream of Los Lunas Bridge (RM 166.7) to a point 0.7 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.7). There has been 2.7 miles of drying since yesterday. Of this drying, 2.1 miles represents "new drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.63 miles downstream of Hwy 346 (RM 137.05). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.05 miles. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 19.35 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	5:20	Rio Grande 5.2 miles upstream of Los Lunas Bridge (RM 166.7)	Top of river drying. There has been 2.3 miles of drying since yesterday. Of this drying, 2.1 miles is "new drying."	0.00 (0 - 0)	Visual	3860736	343046	—	—	None
	6:45	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:50	Rio Grande 0.7 miles downstream of Peralta Main Wasteway (RM 151.7)	Bottom of river drying. There has been 0.4 miles of drying since yesterday. This segment dried earlier this year.	0.00 (0 - 0)	Visual	—	—	3839005	340343	None
	7:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	7:45	Rio Grande at Veguita (RM 137.9)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None
	8:25	Rio Grande 3.63 miles downstream of Hwy 346 (RM 137.05)	Top of river drying. This portion of the river dried earlier this year.	0.00 (0 - 0)	Visual	3819500	335449	—	—	None
	8:45	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying. This segment has dried previously this year.	0.00 (0 - 0)	Visual	—	—	3813566	334405	None
	9:40	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
03-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.55 mile segment in the Isleta Reach.								
		River is reduced to isolated pools over an 15.9-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). There has been 1.0 miles of drying since yesterday. Of this drying, 0.4 miles represents "new drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.65). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.65 miles. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 20.55 miles. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	4:25	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. There has been 0.4 miles of drying since yesterday, all of which represents "new drying".	0.00 (0 - 0)	Visual	3861140	343545	—	—	None
	5:30	Peralta Main Wasteway (RM 151.2)	Irrigation wasteway	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:50	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.2)	Bottom of river drying. There has been 0.6 miles of drying since yesterday. This segment dried earlier this year.	0.00 (0 - 0)	Visual	—	—	3838286	340189	None
	8:15	Rio Grande at Hwy 309 (Belen) (RM 149.5)	Continuous flow	3.50 (3 - 4)	Visual	—	—	—	—	None
	6:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	7:00	Rio Grande at Veguita (RM 137.9)	Continuous flow	1.00 (1 - 1)	Visual	—	—	—	—	None
	7:04	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. There has been 0.6 miles of drying since yesterday. This segment has dried previously this year.	0.00 (0 - 0)	Visual	3820487	335466	—	—	None
	7:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying. This segment has dried previously this year.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	7:50	Rio Grande at US 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.95 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.65-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). There has been 0.25 miles of river rewetting since yesterday at 04:25 hrs. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.38 miles downstream of Hwy 346 (RM 138.3). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). There has been 0.65 miles of drying since yesterday. Total dry river in this segment is 5.3 miles. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 20.95 miles. There has been a total of 0.9 miles of river that has rewet since yesterday. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.							
	5:15	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying. There has been 0.25 miles of river rewetting since yesterday at 04:25 hrs.	0.00 (0 - 0)	Visual	3860979	343387	—	—	None
	6:35	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.2)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838286	340189	None
	7:30	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	8:10	Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3)	Top of river drying. There has been 0.65 miles of drying since yesterday.	0.00 (0 - 0)	Visual	3821435	335335	—	—	None
	9:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.1 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.2-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to a point 0.85 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.65). There has been 0.45 miles of rewetting at the bottom of drying since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.73 miles downstream of Hwy 346 (RM 137.9). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.9 miles. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 20.1 miles. There has been a total of 0.8 miles of river that has rewet since yesterday. Aside from these two segments, the flow in the main river channel is continuous in the Isleta Reach.								
	6:30	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying.	0.00 (0 - 0)	Visual	3860979	343387	—	—	None
	7:30	Peralta Main Wasteway (RM 152.5)	Irrigation discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:00	Rio Grande 0.85 miles downstream of Peralta Main Wasteway (RM 151.65)	Bottom of river drying. There has been 0.45 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual			3838992	340354	None
	8:45	LP1 Drain (RM 150)	Irrigation discharge	12.50 (10 - 15)	Visual	—	—	—	—	None
	11:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	9:20	Rio Grande at Abo Arroyo (RM 138.8)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None
	10:15	Rio Grande 2.78 miles downstream of Hwy 346 (RM 137.9)	Top of river drying. There has been 0.35 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3820872	335325	—	—	None
	11:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	13:30	Rio Puerco at I-25 (RM 126.5)	Estimated flow	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:00	Rio Salado at I-25 (RM 118.5)	Estimated flow	40.00 (40 - 40)	Visual	—	—	—	—	None
	13:25	Rio Salado at I-25 (RM 118.5)	Estimated flow	0.00 (0 - 0)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.3 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.35-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.45 miles upstream of Los Lunas Bridge (RM 166.85) to the river's confluence with the Peralta Main Wasteway (RM 152. 5). There has been 0.85 miles of rewetting at the bottom of drying since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.81 miles downstream of Hwy 346 (RM 136.90). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.95 miles. There has been 1.0 mile of river rewetting since yesterday. This segment has gone dry earlier this year. Total river dry in the Isleta Reach, including the two dry segments, is 18.3 miles. There has been a total of 1.85 miles of river that has rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	5:00	Rio Grande 5.45 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying	0.00 (0 - 0)	Visual	3860979	343387	—	—	None
	6:00	Peralta Main Wasteway (RM 152.5)	Bottom of river drying. There has been 0.85 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	7:40	Rio Grande 3.81 miles downstream of Hwy 346 (RM 136.9)	Top of river drying. There has been 1.0 mile of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3818261	335447	—	—	None
	8:15	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.7 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to the river's confluence with the Peralta Main Wasteway (RM 152. 5). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.55 miles downstream of Hwy 346 (RM 137.1). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.1 miles. There has been 0.15 miles of river that have dried since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 18.7 miles. There has been 0.15 miles of river that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach								
	3:51	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. River is advancing downstream at rate of 5.0 ft. per minute.	0.00 (0 - 0)	Visual	3861140	343545	—	—	The river had dried to this point previously this year.
	4:44	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	8.50 (7 - 10)	Visual	—	—	—	—	None
	4:45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	5:51	Rio Grande 3.55 miles downstream of Hwy 346 (RM 137.1)	Top of river drying. There has been 0.15 miles of river that have dried since yesterday.	0.00 (0 - 0)	Visual	3819667	335498	—	—	This segment has dried previously this year.
	6:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 167.1) to the river's confluence with the Peralta Main Wasteway (RM 152. 5). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.76 miles downstream of Hwy 346 (RM 137.9). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.9 miles. There has been 0.8 miles of river that have dried since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 19.5 miles. There has been 0.8 miles of river that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	3:52	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 167.1)	Top of river drying. River is advancing downstream at rate of 1.0 ft. per minute. The river has dried to this point previously this year.	0.00 (0 - 0)	Visual	3861140	343545	—	—	None
	4:42	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge	8.50 (7 - 10)	Visual	—	—	—	—	None
	4:43	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:50	Rio Grande at Belen (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	6:35	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	5:40	Rio Grande 2.76 miles downstream of Hwy 346 (RM 137.9)	Top of river drying. There has been 0.8 miles of river that have dried since yesterday. This segment has dried previously this year.	0.00 (0 - 0)	Visual	3820885	335327	—	—	None
	6:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.05 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.66 miles upstream of Los Lunas Bridge (RM 167.15) to a point 1.2 miles downstream of the river's confluence with the Peralta Main Wasteway (RM 151.2). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.61 miles downstream of Hwy 346 (RM 138.1). The river had dried to this point previously this year. Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.1 miles. There has been 0.25 miles of river that have dried since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 21.05 miles. There has been 0.2 miles of river that have dried since yesterday. Of this drying, 0.05 miles represents "new drying." Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	3:47	Rio Grande 5.66 miles upstream of Los Lunas Bridge (RM 167.15)	Top of river drying. River is advancing downstream at rate of 0.1 ft. per minute. This point is 0.05 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3861180	343644	—	—	None
	4:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:00	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.2)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838289	340190	None
	8:00	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:10	Rio Grande 2.61 miles downstream of Hwy 346 (RM 138.1)	Top of river drying. There has been 0.2 miles of river that have dried since yesterday. The river has dried upstream of this point previously this year.	0.00 (0 - 0)	Visual	3821175	335299	—	—	None
	6:30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	7:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.02 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 166.95) to the river's confluence with the Peralta Main Wasteway (RM 152.5). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.15 miles downstream of Hwy 346 (RM 138.57). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.57 miles. There has been 0.47 miles of river that have dried since yesterday, of which 0.27 is considered "new drying". Total river dry in the Isleta Reach, including the two dry segments, is 20.02 miles. There has been 1.36 miles that have rewet since yesterday. There has been 0.47 miles of river that have dried since yesterday. Of this drying, 0.27 miles represents "new drying." Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	5:30	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 166.95)	Top of river drying. Some 0.06 miles of river have rewet since yesterday.	0.00 (0 - 0)	Visual	3861103	343584	—	—	None
	6:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	20.00 (20 - 20)	Visual	—	—	—	—	None
	6:31	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.3 miles of river have rewet since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:45	LP1 Drain (RM 150)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:40	Rio Grande 2.15 miles downstream of Hwy 346 (RM 138.57)	Top of river drying. There has been 0.47 miles of river that have dried since yesterday, of which 0.27 is considered "new drying".	0.00 (0 - 0)	Visual	3821786	335730	—	—	None
	8:30	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	10:00	Rio Grande at Hwy 60 (RM 130.6)	continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
11-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.53 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.6 miles upstream of Los Lunas Bridge (RM 166.95) to the river's confluence with the Peralta Main Wasteway (RM 152.5). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.72 miles downstream of Hwy 346 (RM 137.08). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 4.08 miles. There has been 1.49 miles of river that have rewet since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 18.53 miles. There has been 1.49 miles that have rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	5:30	Rio Grande 5.6 miles upstream of Los Lunas Bridge (RM 166.95)	Top of river drying	0.00 (0 - 0)	Visual	3861103	343584	—	—	None
	6:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	10.00 (10 - 10)	Visual	—	—	—	—	None
	6:35	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	7:40	Storey Wasteway (RM 140.1)	Irrigation system discharge to river	7.50 (5 - 10)	Visual	—	—	—	—	None
	17:00	Rio Grande 3.72 miles downstream of Hwy 346 (RM 137.08)	Top of river drying. There has been 1.49 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3819582	335464	—	—	None
	0:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	Site not observed this date
	18:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.07 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.21-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 0.7 miles downstream of the Peralta Main Wasteway (RM 151.7). There has been 0.04 miles of river that have rewet at the top end; however, there has been 0.7 miles of discontinuous flow below the Peralta Main. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.94 miles downstream of Hwy 346 (RM 136.86). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.66 miles. There has been 0.22 miles of river that have rewet since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 19.07 miles. There has been 0.26 miles that have rewet and 0.8 miles that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. There has been 0.04 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3861046	343533	—	—	None
	6:55	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:30	Rio Grande 0.7 miles downstream Peralta Main Wasteway (RM 151.7)	Bottom of river drying.There has been 0.8 miles of river that have dried since yesterday.	0.00 (0 - 0)	Visual	—	—	3839002	340348	None
	8:00	Rio Grande at Belen (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None
	8:30	Rio Grande 3.84 miles downstream of Hwy 346 (RM 136.84)	Top of river drying. There has been 0.22 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3819228	335407	—	—	None
	9:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
13-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.19 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.71-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.2 miles downstream of the Peralta Main Wasteway (RM 151.2). There has been 0.46 miles of river at the "bottom of river drying" that have dried since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.32 miles downstream of Hwy 346 (RM 136.48). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 3.48 miles. There has been 0.38 miles of river that have rewet since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 19.19 miles. There has been 0.38 miles that have rewet and 0.46 miles that have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	5:00	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861046	343533	—	—	None
	6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:30	Rio Grande 1.2 miles downstream Peralta Main Wasteway (RM 151.2)	Bottom of river drying. There has been 0.46 miles of river that have dried since yesterday.	0.00 (0 - 0)	Visual	—	—	3838286	340189	None
	7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	7:30	Rio Grande 4.32 miles downstream of Hwy 346 (RM 136.48)	Top of river drying. There has been 0.38 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3818685	335122	—	—	None
	8:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
14-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.36 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). There has been 0.05 miles of river at the "bottom of river drying" that have dried since yesterday; this represents "new drying." A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.09 miles downstream of Hwy 346 (RM 138.6). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.6 miles. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying, 0.03 miles represents "new drying." Total river dry in the Isleta Reach, including the two dry segments, is 21.36 miles. In total, some 2.17 miles of river have dried since yesterday. Of this drying, 0.08 miles represents "new drying." Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	4:16	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying	0.00 (0 - 0)	Visual	3861056	343534	—	—	None
	5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:20	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. There has been 0.05 miles of river that have dried since yesterday; this represents "new drying."	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	8:10	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	7:43	Rio Grande at Hwy 346 (RM 140.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:50	Rio Grande 2.09 miles downstream of Hwy 346 (RM 138.6)	Top of river drying. Some 2.12 miles of river have dried in this river segment since yesterday. Of this drying, 0.03 miles represents "new drying"	0.00 (0 - 0)	Visual	3821810	335782	—	—	None
	7:15	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	7:25	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.16 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.29 miles downstream of Hwy 346 (RM 138.4). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.4 miles. Some 0.2 miles of river have rewet in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 21.16 miles. In total, some 0.2 miles of river have rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	4:07	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861056	343534	—	—	None
	4:57	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:07	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	7:35	Rio Grande at Belen (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:02	Rio Grande 2.29 miles downstream of Hwy 346 (RM 138.4)	Top of river drying. Some 0.2 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821677	335450	—	—	None
	7:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	7:15	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
16-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.31 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.56 miles upstream of Los Lunas Bridge (RM 166.91) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.16 miles downstream of Hwy 346 (RM 138.55). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.55 miles. Some 0.15 miles of river have dried in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 21.31 miles. In total, some 0.15 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	4:08	Rio Grande 5.56 miles upstream of Los Lunas Bridge (RM 166.91)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861056	343534	—	—	None
	5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:28	Rio Grande 1.27 miles downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	6:35	Rio Grande 2.16 miles downstream of Hwy 346 (RM 138.55)	Top of river drying. Some 0.15 miles of river have dried in this segment since yesterday.	0.00 (0 - 0)	Visual	3821776	335713	—	—	None
	7:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	7:15	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.06 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 5.53 miles upstream of Los Lunas Bridge (RM 166.88) to a point approximately 1.38 miles downstream of the Peralta Main Wasteway (RM 151.12). Some 0.03 miles of river have rewet in this segment since yesterday; some 0.03 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.38 miles downstream of Hwy 346 (RM 138.3). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133.0). Total dry river in this segment is 5.3 miles. Some 0.32 miles of river have rewet in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 21.06 miles. In total, some 0.03 miles of river have dried since yesterday and 0.28 miles of river rewet since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	5:00	Rio Grande 5.53 miles upstream of Los Lunas Bridge (RM 166.88)	Top of river drying. Some 0.03 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3861035	343486	—	—	None
	6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:15	Rio Grande 1.38 miles downstream Peralta Main Wasteway (RM 151.12)	Bottom of river drying. Some 0.03 miles of river have dried in this segment since yesterday.	0.00 (0 - 0)	Visual	—	—	3838204	340051	None
	6:25	LP1 Drain (RM 150)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:30	Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.3)	Top of river drying. Some 0.32 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821431	335335	—	—	None
	8:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	8:30	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 5.0-mile segment in the vicinity of Hwy 346 and US 60 Bridges extending south from a point approximately 2.8 miles downstream of Hwy 346 Bridge (RM 138) to a point approximately 2.3 miles upstream of US 60 Bridge (RM 133). Some 0.3 miles of river have rewet in this segment since yesterday. Total river dry in the Isleta Reach is 5.0 miles. In total, some 16.06 miles of river rewet since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	7:00	Rio Grande 0.9 miles downstream of Peralta Wasteway (RM 151.5)	Continuous flow	200.00 (200 - 200)	Visual	—	—	—	—	None
	7:45	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	8:15	Rio Grande at Hwy 346 Bridge (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	8:30	Storrie Wasteway (RM 140.1)	Irrigation system discharge to river	7.50 (5 - 10)	Visual	—	—	—	—	None
	9:00	Rio Grande 2.70 miles downstream of Hwy 346 Bridge (RM 138.03)	Top of river drying. Some 0.23 miles of river have rewet in this segment since yesterday.	0.00 (0 - 0)	Visual	3821039	335282	—	—	None
	9:55	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	10:30	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 10.7 mile segment in the Isleta Reach. River is reduced to isolated pools over a 10.7-mile segment extending south from a point approximately 2.21 miles upstream of Los Lunas Bridge (RM 163.5) to a point 0.35 miles upstream of Peralta Wasteway (RM 152.85). This segment of river dried previously this year. Aside from this segment, the flow in the main river channel is continuous in the Isleta Reach. The 5.0-mile segment of river from a point approximately 2.8 miles downstream of Hwy 346 Bridge (RM 138) to a point approximately 2.3 miles upstream of US 60 Bridge (RM 133) rewet since yesterday. Total river dry in the Isleta Reach is 10.7 miles. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:01	Rio Grande 2.21 miles upstream of Los Lunas (RM 163.5)	Top of drying. Isolated pools are quickly shrinking.	0.00 (0 - 0)	Visual	3855908	343166	—	—	None
	4:12	Rio Grande at Los Lunas (RM 161.4)	No flow	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:18	Rio Grande 0.35 miles upstream of Peralta Wasteway (RM 152.85)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840691	340086	None
	6:55	Peralta Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:45	Rio Grande at Belen Bridge (RM 149.5)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	8:00	Rio Grande at Hwy 346 Bridge (RM 140.8)	Continuous flow	65.00 (60 - 70)	Visual	—	—	—	—	None
	8:30	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Continuous flow	45.00 (40 - 50)	Visual	—	—	—	—	None
	8:45	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	35.00 (30 - 40)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
20-Aug-2012	**General Comments:** The river is dry or reduced to isolated pools over a 13.44 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.4-mile segment extending south from a point approximately 4.6 miles upstream of Los Lunas Bridge (RM 165.94) to the Peralta Main Wasteway (RM 152.5). Some 2.75 miles of river have dried since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.									
	4:22	Rio Grande 4.6 miles upstream of Los Lunas Bridge (RM 165.94)	Top of river drying. Some 2.4 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859733	342645	—	—	None
	5:20	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	27.50 (25 - 30)	Visual	—	—	—	—	None
	5:21	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 0.35 miles of river have dried since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:22	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	6:35	Rio Grande at Hwy 60 (RM 130.7)	Continuous flow	8.50 (7 - 10)	Visual	—	—	—	—	None
21-Aug-2012	**General Comments:** The river is dry or reduced to isolated pools over a 13 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.0-mile segment extending south from a point approximately 4.1 miles upstream of Los Lunas Bridge (RM 165.5) to the Peralta Main Wasteway (RM 152.5). Some 0.4 miles of river have rewet since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.									
	6:25	Rio Grande 4.1 miles upstream of Los Lunas Bridge (RM 165.5)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859074	342740	—	—	None
	5:12	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	17.50 (15 - 20)	Visual	—	—	—	—	None
	5:15	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	4:22	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.2 mile segment in the Isleta Reach.								
		General Comments: River is reduced to isolated pools over a 15.2-mile segment extending south from a point approximately 6.26 miles upstream of Los Lunas Bridge (RM 167.7) to the Peralta Main Wasteway (RM 152.5). Some 2.2 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.55 miles represents "new drying". Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:40	Rio Grande 6.26 miles upstream of Los Lunas Bridge (RM 167.7)	Top of river drying. Some 2.2 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.55 miles represents "new drying".	0.00 (0 - 0)	Visual	3861822	344383	—	—	None
	5:05	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.50 (0.5 - 0.5)	Visual	—	—	—	—	None
	5:45	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	4:15	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	8:25	Rio Salado at I-25 (RM 118.5)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
23-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.2 mile segment in the Isleta Reach.								
		River is reduced to isolated pools over a 12.2-mile segment extending south from a point approximately 3.3 miles upstream of Los Lunas Bridge (RM 164.7) to the Peralta Main Wasteway (RM 152.5). Some 3.0 miles of river have rewet at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	5.00 (5 - 5)	Visual	—	—	—	—	None
	7:00	Rio Grande 3.3 miles upstream of Los Lunas Bridge (RM 164.7)	Top of river drying. Some 3.0 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857813	343051	—	—	None
	5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	32.50 (30 - 35)	Visual	—	—	—	—	None
	5:11	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	4:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.0-mile segment extending south from a point approximately 3.1 miles upstream of Los Lunas Bridge (RM 164.7) to the Peralta Main Wasteway (RM 152.5). Some 0.2 miles of river have rewet at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	7:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None
	6:15	Rio Grande 3.1 miles upstream of Los Lunas Bridge (RM 164.5)	Top of river drying. Some 0.2 miles of river have rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857506	343036	—	—	None
	5:05	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	32.50 (30 - 35)	Visual	—	—	—	—	None
	5:06	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	4:11	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
25-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.55 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.55-mile segment extending south from a point approximately 3.65 miles upstream of Los Lunas Bridge (RM 165.05) to the Peralta Main Wasteway (RM 152.5). Some 0.55 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:47	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:45	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	6:30	Rio Grande 3.65 miles upstream of Los Lunas Bridge (RM 165.05)	Top of river drying. Some 0.55 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858347	342909	—	—	None
	5:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	6.00 (5 - 7)	Visual	—	—	—	—	None
	5:01	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
26-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.65 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.65-mile segment extending south from a point approximately 3.75 miles upstream of Los Lunas Bridge (RM 165.15) to the Peralta Main Wasteway (RM 152.5). Some 0.10 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 3.75 miles upstream of Los Lunas Bridge (RM 165.15)	Top of river drying. Some 0.10 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858518	342819	—	—	None
	6:55	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	7.50 (5 - 10)	Visual	—	—	—	—	None
	7:00	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
27-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.77 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.77-mile segment extending south from a point approximately 3.87 miles upstream of Los Lunas Bridge (RM 165.27) to the Peralta Main Wasteway (RM 152.5). Some 0.12 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:10	Rio Grande 3.87 miles upstream of Los Lunas Bridge (RM 165.27)	Top of river drying. Some 0.12 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858753	342782	—	—	None
	7:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	6.00 (5 - 7)	Visual	—	—	—	—	None
	7:31	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
28-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.92 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.92-mile segment extending south from a point approximately 4.03 miles upstream of Los Lunas Bridge (RM 165.42) to the Peralta Main Wasteway (RM 152.5). Some 0.10 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach.								
	6:00	Rio Grande 4.03 miles upstream of Los Lunas Bridge (RM 165.42)	Top of river drying. Some 0.15 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3858925	342740	—	—	None
	7:00	Peralta Main Wasteway (RM 152.5)	Irrigaiton discharge to river	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:05	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	7:50	Rio Grande at Abeytas Heading (RM 134.3)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None
	8:10	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	6.00 (5 - 7)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
29-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.49 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.75-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 0.67 miles downstream of the Peralta Main Wasteway (RM 151.81). Some 0.88 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is at Abeytas Heading (RM 134.24). Bottom of drying in this segment is 2.8 miles upstream of US 60 (RM 133.5). Total dry river in this segment is 0.74 miles. Some 0.74 miles of river have dried in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 14.49 miles. In total, some 0.88 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	7:55	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:30	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying. Some 0.19 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859138	342733	—	—	None
	5:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:06	Rio Grande 0.69 miles downstream of Peralta Main Wasteway (RM 151.81)	Bottom of river drying. Some 0.65 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3839192	340350	None
	4:30	Rio Grande at Abeytas Heading (RM 134.24)	Top of river drying	0.00 (0 - 0)	Visual	3815421	334460	—	—	None
	4:49	Rio Grande 2.8 miles upstream of US 60 (RM 133.5)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3814324	334857	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 17.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 0.76 miles downstream of the Peralta Main Wasteway (RM 151.85). Some 0.24 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 3.84 miles downstream of Hwy 346 (RM 136.85). Bottom of drying in this segment is 2.55 miles upstream of US 60 (RM 133.27). Total dry river in this segment is 3.55 miles. Some 2.81 miles of river have dried in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 17.5 miles. In total, some 3.05 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	7:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:30	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying.	0.00 (0 - 0)	Visual	3859138	342733	—	—	None
	6:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:27	Rio Grande 0.76 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. Some 0.24 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3838919	340335	None
	5:00	Rio Grande 3.84 miles downstream of Hwy 346 (RM 136.85)	Top of river drying. Some 2.61 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3819251	335454	—	—	None
	5:30	Rio Grande 2.55 miles upstream of US 60 (RM 133.3)	Bottom of river drying. Some 0.2 miles of river have dried at the "bottom of drying" since yesterday	0.00 (0 - 0)	Visual	—	—	3814005	334717	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
31-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.71 mile segment in the Isleta Reach.								
		River is reduced to isolated pools over a 14.25-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 1.1 miles downstream of the Peralta Main Wasteway (RM 151.27). Some 0.34 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 3.03 miles downstream of Hwy 346 (RM 136.85). Bottom of drying in this segment is 2.49 miles upstream of US 60 (RM 133.19). Total dry river in this segment is 4.46 miles. Some 0.88 miles of river have dried in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 18.71 miles. In total, some 1.21 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	7:30	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:40	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3859137	342731	—	—	None
	6:10	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:31	Rio Grande 1.1 miles downstream of Peralta Main Wasteway (RM 151.31)	Bottom of river drying. Some 0.30 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3838395	340219	None
	5:15	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. Some 0.8 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3820570	335433	—	—	None
	4:24	Rio Grande 2.5 miles upstream of US 60 (RM 133.19)	Bottom of river drying. Some 0.11 miles of river have dried at the "bottom of drying" since yesterday	0.00 (0 - 0)	Visual	—	—	3813916	334661	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.59 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.36-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.16 miles upstream of Los Lunas Bridge (RM 165.56) to a point approximately 1.2 miles downstream of the Peralta Main Wasteway (RM 151.2). Some 0.07 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.38 miles downstream of Hwy 346 (RM 138.42). Bottom of drying in this segment is 2.5 miles upstream of US 60 (RM 133.19). Total dry river in this segment is 5.23 miles. Some 0.77 miles of river have dried in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 19.59 miles. In total, some 0.84 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	6:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	6:10	Rio Grande 4.16 miles upstream of Los Lunas Bridge (RM 165.56)	Top of river drying	0.00 (0 - 0)	Visual	3859137	342731	—	—	None
	7:20	Peralta Main Wasteway (RM 152.5)	Irrigation discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:25	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.2)	Bottom of river drying. Some 0.07 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual			3838286	340193	None
	8:20	Rio Grande 2.38 miles downstream of Hwy 346 (RM 138.42)	Top of river drying. Some 0.77 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3821729	335522	—	—	None
	9:15	Rio Grande 2.5 miles upstream of US 60 (RM 133.19)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813916	334661	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.13 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.15 miles of river have dried in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.15 miles downstream of Hwy 346 (RM 138.65). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.85 miles. Some 0.45 miles of river have dried in this segment since yesterday. Of this drying, 0.05 represents "new drying". Total river dry in the Isleta Reach, including the two dry segments, is 20.13 miles. In total, some 0.6 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	6:50	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:05	Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)	Top of river drying. Some 0.07 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859232	342671	—	—	None
	8:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:35	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Some 0.08 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	9:20	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	10:10	Rio Grande 2.15 miles downstream of Hwy 346 (RM 138.65)	Top of river drying. Some 0.23 miles of river have dried at the "top of drying" since yesterday. Of this drying, 0.05 represents "new drying".	0.00 (0 - 0)	Visual	3821861	335863	—	—	None
	11:30	Rio Grande 2.3 miles upstream of US 60 Bridge (RM 133)	Bottom of river drying. Some 0.22 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	12:00	Rio Grande at US 60 Bridge (RM 130.6)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
03-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.21 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). No change in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.08 miles downstream of Hwy 346 (RM 138.73). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.73 miles. Some 0.07 miles of river have dried in this segment since yesterday, all of which represents "new drying" Total river dry in the Isleta Reach, including the two dry segments, is 20.21 miles. In total, some 0.08 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.								
	8:50	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	1.25 (0.5 - 2)	Visual	—	—	—	—	None
	9:10	Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)	Top of river drying	0.00 (0 - 0)	Visual	3859232	342671	—	—	None
	10:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	10:40	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	11:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	2.30 (2.3 - 2.3)	Visual	—	—	—	—	Observation confirms USGS internet posting of flow
	11:50	Rio Grande 2.08 miles downstream of Hwy 346 (RM 138.73)	Top of river drying. Some 0.08 miles of river have dried at the "top of drying" since yesterday, all of which represents "new drying".	0.00 (0 - 0)	Visual	3821922	335960	—	—	None
	12:20	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	None
	12:30	Rio Grande at US 60 Bridge (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20.26 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.23 miles upstream of Los Lunas Bridge (RM 165.63) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). No change in this segment since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 1.94 miles downstream of Hwy 346 (RM 138.87). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.78 miles. Some 0.05 miles of river have dried in this segment since yesterday, all of which represents "new drying" Total river dry in the Isleta Reach, including the two dry segments, is 20.26 miles. In total, some 0.05 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	6:20	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	1.25 (0.5 - 2)	Visual	—	—	—	—	None
	6:30	Rio Grande 4.23 miles upstream of Los Lunas Bridge (RM 165.63)	Top of river drying	0.00 (0 - 0)	Visual	3859232	342671	—	—	None
	7:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:30	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	7:45	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	1.60 (1.8 - 1.6)	Visual	—	—	—	—	Observation confirms USGS posting of flow
	8:00	Rio Grande 1.94 miles downstream of Hwy 346 (RM 138.78)	Top of river drying. Some 0.05 miles of river have dried at the "top of drying" since yesterday, all of which represents "new drying".	0.00 (0 - 0)	Visual	3822037	336169	—	—	None
	8:25	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 20.38 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point approximately 4.35 miles upstream of Los Lunas Bridge (RM 165.75) to a point approximately 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 1.94 miles downstream of Hwy 346 (RM 138.87). Bottom of drying in this segment is 2.3 miles upstream of US 60 (RM 133). Total dry river in this segment is 5.78 miles. No change in this segment since yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 20.38 miles. In total, some 0.12 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	7:55	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None
	7:53	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:30	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	7:25	Rio Grande 4.35 miles upstream of Los Lunas Bridge (RM 165.75)	Top of river drying. Some 0.12 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859499	342650	—	—	None
	6:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:30	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	5:24	Rio Grande 1.94 miles downstream of Hwy 346 (RM 138.78)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3822037	336169	—	—	None
	4:28	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	—	—	3813565	334405	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 21.18 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.68-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.4 miles upstream of Los Lunas Bridge (RM 165.83) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.08 miles of river have dried at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.03 miles downstream of Hwy 346 (RM 138.7). Bottom of drying in this segment is 1.55 miles upstream of US 60 (RM 132.2). Total dry river in this segment is 6.5 miles. Some 0.18 miles of river have rewet at the "top of drying" since yesterday. Some 0.8 miles of river have dried at the "bottom of drying" since yesterday. This drying represents "new drying". Total river dry in the Isleta Reach, including the two dry segments, is 21.18 miles. In total, some 0.88 miles of river have dried since yesterday, and 0.18 miles of river have rewet. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	4:06	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	—	—	—	—	None
	4:09	Rio Grande 4.4 miles upstream of Los Lunas Bridge (RM 165.83)	Top of river drying. Some 0.08 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859569	342634	—	—	None
	5:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:16	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	8:59	Rio Grande at Belen Bridge (Hwy 309) (RM 149.5)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	9:15	Rio Grande 0.47 miles downstream of Bridge (Hwy 309) (RM 149.03)	Continuous flow	3.50 (3 - 4)	Visual	—	—	—	—	None
	8:40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	6:30	Rio Grande 2.03 miles downstream of Hwy 346 (RM 138.7)	Top of river drying. Some 0.08 miles of river have rewet at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3821910	336002	—	—	None
	7:38	Rio Grande 1.55 miles upstream of US 60 (RM 132.2)	Bottom of river drying. Some 0.8 miles of river have dried at the "bottom of drying" since yesterday. This drying represents "new drying".	0.00 (0 - 0)	Visual	—	—	3812402	334463	None
	8:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.50 (3 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.78 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.78-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.5 miles upstream of Los Lunas Bridge (RM 165.93) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.10 miles of river have dried at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 6.5 miles of river have rewet between Hwy 346 and US 60 since yesterday.								
	3:58	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None
	3:55	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	3:39	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	—	—	—	—	None
	4:10	Rio Grande 4.5 miles upstream of Los Lunas Bridge (RM 165.93)	Top of river drying. Some 0.10 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3859697	342626	—	—	None
	4:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:58	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	7:15	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	6:00	Rio Grande 2.03 miles downstream of Hwy 346 (RM 138.7)	Continuous flow	55.00 (50 - 60)	Visual	—	—	—	—	Heightened flow from runoff down Abo Arroyo
	6:35	Rio Grande 1.55 miles upstream of US 60 (RM 132.2)	Continuous flow	75.00 (70 - 80)	Visual	—	—	—	—	Heightened flow from runoff down Abo Arroyo
	7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.50 (3 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 19.8 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.78-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.5 miles upstream of Los Lunas Bridge (RM 165.93) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.59 miles downstream of Hwy 346 (RM 138.2). Bottom of drying in this segment is 2.45 miles upstream of US 60 (RM 133.18). A total 5.02 miles of river dried in this segment since yesterday. This segment has dried previously this year. Total river dry in the Isleta Reach, including the two dry segments, is 19.8 miles. In total, some 5.02 miles of river have dried since yesterday. Aside from these two segments, flow in the main river channel is continuous in the Isleta Reach.							
	3:58	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None
	3:55	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	0.75 (0.5 - 1)	Visual	—	—	—	—	None
	3:45	Rio Grande 4.5 miles upstream of Los Lunas Bridge (RM 165.93)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3859697	342626	—	—	None
	4:43	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river. Discharge has no measurable effect on river.	4.00 (3 - 5)	Visual	—	—	—	—	None
	5:00	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	6:13	Rio Grande 2.59 miles downstream of Hwy 346 (RM 138.2)	Top of river drying.	0.00 (0 - 0)	Visual	3821312	335301	—	—	None
	7:50	Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813858	334613	None
	7:00	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None
	7:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.50 (3 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 19.78 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.78 miles upstream of Los Lunas Bridge (RM 166.21) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Since yesterday in this segment, 0.28 miles of river dried at "top of drying"; "bottom of drying is unchanged since yesterday. This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 2.99 miles downstream of Hwy 346 (RM 137.8). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dried in this segment equals 4.72 miles. This segment has dried previously this year. Since yesterday in this segment, 0.4 miles of river rewet at "top of drying" and 0.1 miles of river dried at the "bottom of drying". Total river dry in the Isleta Reach, including the two dry segments, is 19.78 miles. In total in the Isleta Reach, some 0.38 miles of river have dried since yesterday and 0.4 miles of river have rewet. Aside from the two segments reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.							
	3:58	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	0.75 (0.5 - 1)	Visual	—	—	—	—	None
	3:55	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:11	Rio Grande 4.78 miles upstream of Los Lunas Bridge (RM 166.21)	Top of river drying. Some 0.28 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3860161	342745	—	—	None
	4:05	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	No flow	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:43	Peralta Main Wasteway (RM 152.5)	Discharge = 2-3 cfs (visual estimate). Discharge has no measurable effect on river.	2.50 (2 - 3)	Visual	—	—	—	—	None
	5:00	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838215	340104	None
	6:30	Rio Grande 2.99 miles downstream of Hwy 346 (RM 137.8)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3820734	335327	—	—	None
	7:29	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. Some 0.1 miles of river have dried at the "bottom of drying".	0.00 (0 - 0)	Visual	—	—	3813719	334524	None
	7:45	Rio Grande 2.3 miles upstream of US 60 (RM 133)	Continuous flow	0.63 (0.5 - 0.75)	Visual	—	—	—	—	None
	8:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 17.45 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.93-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.00 miles upstream of Los Lunas Bridge (RM 166.43) to the confluence of the Rio Grande and the Peralta Main Wasteway (RM 152.5). Since yesterday in this segment, 0.22 miles of river dried at "top of drying" and 1.38 miles of river rewet at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying is 4.19 miles downstream of Hwy 346 (RM 136.6). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dry in this segment equals 3.52 miles. This segment has dried previously this year. Since yesterday in this segment, 1.2 miles of river rewet at "top of drying". The "bottom of drying" is unchanged from yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 17.45 miles. In total in the Isleta Reach, some 0.22 miles of river have dried since yesterday and 2.58 miles of river have rewet. Aside from the two segments reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.								
	3:50	Rio Grande just upstream of Alejandro Wasteway (RM 166.65)	Continuous flow	0.25 (0.25 - 0.25)	Visual	—	—	—	—	None
	3:52	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:00	Rio Grande 5.00 miles upstream of Los Lunas Bridge (RM 166.43)	Top of river drying. Some 0.22 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3860475	342887	—	—	None
	3:45	Rio Grande at USGS Bosque Farms (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:42	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	16.50 (15 - 18)	Visual	—	—	—	—	None
	4:43	Rio Grande at Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.38 miles of river have rewet at the "bottom of drying".	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	6:38	Rio Grande 2.99 miles downstream of Hwy 346 (RM 137.8)	Continuous flow	13.50 (12 - 15)	Visual	—	—	—	—	None
	8:00	Rio Grande 4.19 miles downstream of Hwy 346 (RM 136.6)	Top of river drying. Some 1.2 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3818871	335227	—	—	None
	6:18	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	—	—	3813719	334524	None
	7:25	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
11-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.7 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.39-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.27 miles upstream of Los Lunas Bridge (RM 165.7) to a point 0.19 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 152.31). Since yesterday in this segment, 0.73 miles of river rewet at "top of drying" and 0.19 miles of river dried at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 6.4 miles downstream of Hwy 346 (RM 134.39). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river dry in this segment equals 1.31 miles. This segment has dried previously this year. Since yesterday in this segment, 2.21 miles of river rewet at "top of drying". The "bottom of drying" is unchanged from yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 14.7 miles. In total in the Isleta Reach, some 2.94 miles of river have rewet since yesterday and 0.19 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.								
	3:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	5.50 (5 - 6)	Visual	---	---	---	---	None
	4:01	Rio Grande 4.27 miles upstream of Los Lunas Bridge (RM 165.7)	Top of river drying. Some 0.73 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3859378	342647	---	---	None
	4:50	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	---	---	---	---	None
	5:15	Rio Grande 0.19 miles downstream of Peralta Main Wasteway (RM 152.31)	Bottom of river drying. Some 0.19 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	---	---	3839929	340302	None
	7:24	Rio Grande 6.4 miles downstream of Hwy 346 (RM 134.39)	Top of river drying. Some 2.21 miles of river have rewet at the "top of drying". River is rewetting at rate of 20 ft/10 min. At this rate, the advancing flow of water will connect with downstream flowing segments of the river	0.00 (0 - 0)	Visual	3815613	334355	---	---	None
	6:40	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	---	---	3813719	334524	None
	6:52	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	---	---	---	---	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.29 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.56-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 4.00 miles upstream of Los Lunas Bridge (RM 165.38) to a point 0.68 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 151.82). Since yesterday in this segment, 0.32 miles of river rewet at "top of drying" and 0.49 miles of river dried at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.98 miles downstream of Hwy 346 (RM 135.81). Bottom of drying in this segment is 2.38 miles upstream of US 60 (RM 133.08). Total miles of river reduced to isolated pools in this segment are 2.73 miles. This segment has dried previously this year. Since yesterday in this segment, 1.42 miles of river dried at "top of drying". The "bottom of drying" is unchanged from yesterday. Total river dry in the Isleta Reach, including the two dry segments, is 16.29 miles. In total in the Isleta Reach, some 0.32 miles of river have rewet since yesterday and 1.91 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.								
	5:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Continuous flow	6.00 (5 - 7)	Visual	---	---	---	---	None
	6:00	Rio Grande 4.00 miles upstream of Los Lunas Bridge (RM 165.38)	Top of river drying. Some 0.32 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3858872	342762	---	---	None
	7:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	---	---	---	---	None
	7:10	Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)	Bottom of river drying. Some 0.49 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	---	---	3839210	340356	None
	7:20	Rio Grande at Belen (RM 149.5)	Continuous flow	8.50 (7 - 10)	Visual	---	---	---	---	None
	7:35	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	---	---	---	---	None
	8:00	Rio Grande 4.98 miles downstream of Hwy 346 (RM 135.81)	Top of river drying. Some 1.42 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3817751	334903	---	---	None
	8:25	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	---	---	3813719	334524	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
13-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.98 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.98-mile segment in the vicinity of vicinity of Isleta Diversion-Belen, extending south from a point 3.57 miles upstream of Los Lunas Bridge (RM 164.98) to a point 0.43 miles downstream of the Peralta Main Wasteway (RM 152.0). Some 0.4 miles of river have rewet at the "top of drying" since yesterday, while 0.18 miles of river have rewet at the "bottom of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 2.73 miles of river have rewet between Hwy 346 and US 60 since yesterday (that river segment is through-flowing).								
	5:55	Rio Grande 3.57 miles upstream of Los Lunas Bridge (RM 164.98)	Top of river drying. Some 0.4 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3858266	342919	—	—	None
	6:50	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	7:00	Rio Grande 0.43 miles downstream of Peralta Main Wasteway (RM 152)	Bottom of river drying. Some 0.18 miles of river have rewet at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3839444	340381	None
	7:15	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	7:40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None
	9:30	Rio Grande 2.38 miles upstream of US 60 (RM 133.08)	Continuous flow. The river that was dry yesterday morning for 2.73 miles upstream of this point has rewet.	NA	Visual	—	—	—	—	None
	12:00	Rio Salado at I-25 (RM 118.56)	Evidence that flow in river in past several hours was 2.0 feet higher than it is at this time.	1000.00 (1000 - 1000)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
14-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 12.23 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.23-mile segment in the vicinity of vicinity of Isleta Diversion-Belen, extending south from a point 3.32 miles upstream of Los Lunas Bridge (RM 164.73) to Peralta Main Wasteway (RM 152.5). Some 0.27 miles of river have rewet at the "top of drying" since yesterday, while 0.43 miles of river have rewet at the "bottom of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. The river remains through flowing between Hwy 346 and US 60 (beginning September 13, 2012).								
	5:45	Rio Grande 3.32 miles upstream of Los Lunas Bridge (RM 164.73)	Top of river drying. Some 0.27 miles of river have rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857865	343026	—	—	None
	6:40	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	3.50 (2 - 5)	Visual	—	—	—	—	None
	6:41	Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 0.43 miles of river have rewet at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	7:00	Rio Grande at Belen (RM 149.5)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	7:40	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	—	—	—	—	None
	8:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	8.50 (7 - 10)	Visual	—	—	—	—	None
	8:30	Rio Salado at I-25 (RM 118.56)	Floodwater discharge	100.00 (100 - 100)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.15-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.38 miles upstream of Los Lunas Bridge (RM 164.75) to a point 0.82 miles downstream of the confluence of the Rio Grande and the Peralta Main Wasteway (RM 151.68). Some 0.02 miles of river have dried at the "top of drying" since yesterday, whereas 0.9 miles of river dried at the "bottom of drying". This segment has dried previously this year. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.77 miles downstream of Hwy 346 (RM 136.03). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Total miles of river reduced to isolated pools in this segment are 2.85 miles. This segment has dried previously this year. Total river dry in the Isleta Reach, including the two dry segments, is 16.0 miles. In total, some 0.10 mile of river has rewet since yesterday and 3.77 miles of river have dried. Aside from the two river segments that are reduced to isolated pools as described above, flow in the main river channel is continuous in the Isleta Reach.								
	6:45	Rio Grande 3.38 miles upstream of Los Lunas Bridge (RM 164.75)	Top of river drying. Some 0.02 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3857900	343041	---	---	None
	7:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	---	---	---	---	None
	8:20	Rio Grande 0.77 mi. downstream Peralta Main Wasteway (RM 151.6)	Bottom of river drying. Some 0.9 miles of river have dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	---	---	3838912	340336	None
	8:40	Rio Grande at Belen (RM 149.5)	Continuous flow	7.50 (5 - 10)	Visual	---	---	---	---	None
	9:00	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	12.50 (10 - 15)	Visual	---	---	---	---	None
	10:30	Rio Grande 4.77 miles downstream of Hwy 346 (RM 136.03)	Top of river drying. Some 2.85 miles of river have dried extending south at the "top of drying".	0.00 (0 - 0)	Visual	3818026	334962	---	---	None
	11:15	Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3813856	334612	None
	2:00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	312.00 (312 - 312)	Visual	---	---	---	---	USGS internet posting of flow
	13:00	Rio Puerco at I-25 (RM 126.5)	Continuous flow	309.00 (309 - 309)	Visual	---	---	---	---	USGS internet posting of flow

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
16-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.14 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.14-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.37 miles upstream of Los Lunas Bridge (RM 164.74) to a point 0.77 miles downstream of the Peralta Main Wasteway (RM 151.6). Some 0.01 miles of river have rewet at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. Aside from this segment, flow in the main river channel is continuous in the Isleta Reach. Some 2.85 miles of river have rewet between Hwy 346 and US 60 since yesterday.								
	4:24	Rio Grande 3.37 miles upstream of Los Lunas Bridge (RM 164.74)	Top of river drying. Some 0.01 mile of river has rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857870	343052	—	—	None
	5:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:48	Rio Grande 0.77 mi. downstream Peralta Main Wasteway (RM 151.6)	Bottom of river drying. Unchanged since yesterday.	0.00 (0 - 0)	Visual	—	—	3838912	340336	None
	7:00	Rio Grande at Abeytas Heading (RM 134.24)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.99 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.08-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.31 miles upstream of Los Lunas Bridge (RM 164.68) to a point 0.77 miles downstream of the Peralta Main Wasteway (RM 151.6). Some 0.06 miles of river have rewet at the "top of drying" since yesterday. "Bottom of drying" is unchanged from yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.6 miles downstream of Hwy 346 (RM 137.09). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Total miles of river reduced to isolated pools in this segment are 3.91 miles. This segment has dried previously this year. Total river dry in the Isleta Reach, including the two dry segments, is 16.99 miles. In total, some 0.06 miles of river have rewet in the Isleta Reach since yesterday; some 3.91 miles of river have dried in the Isleta Reach since yesterday.							
	4:15	Rio Grande 3.31 miles upstream of Los Lunas Bridge (RM 164.68)	Top of river drying. Some 0.06 mile of river has rewet at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3857782	343038	—	—	None
	4:40	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:00	Rio Grande 0.77 mi. downstream Peralta Main Wasteway (RM 151.6)	Bottom of river drying. Unchanged since yesterday.	0.00 (0 - 0)	Visual	—	—	3838912	340336	None
	5:58	Rio Grande 3.60 miles downstream of Hwy 346 (RM 137.09)	Top of river drying.	0.00 (0 - 0)	Visual	3818632	335476	—	—	None
	6:35	Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813856	334612	None
	7:05	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.1 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.32-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.26 miles upstream of Los Lunas Bridge (RM 164.63) to a point 1.1 miles downstream of the Peralta Main Wasteway (RM 151.31). Some 0.05 miles of river have rewet at the "top of drying" since yesterday. Some 0.37 miles of river has dried at the "bottom of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.77 miles downstream of Hwy 346 (RM 135.92). Bottom of drying in this segment is 2.48 miles upstream of US 60 (RM 133.18). Since yesterday, some 1.17 mile of river has rewet at the "top of drying". Total miles of river reduced to isolated pools in this segment are 2.74 miles. This segment has dried previously this year. Total river dry in the Isleta Reach, including the two dry segments, is 16.1 miles. In total, some 1.22 miles of river have rewet in the Isleta Reach since yesterday; some 0.37 miles of river have dried in the Isleta Reach since yesterday.							
	3:47	Rio Grande 3.26 miles upstream of Los Lunas Bridge (RM 164.63)	Top of river drying. Since yesterday, some 0.05 mile of river has rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857712	343022	—	—	None
	4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:50	Rio Grande 1.1 mi. downstream Peralta Main Wasteway (RM 151.31)	Bottom of river drying. Some 0.37 mile of river has dried at the "bottom of drying" since yesterday.	0.00 (0 - 0)	Visual	—	—	3838394	340223	None
	6:03	Rio Grande 4.77 miles downstream of Hwy 346 (RM 135.92)	Top of river drying. Since yesterday, some 1.17 mile of river has rewet at the "top of drying". River is rewetting at the rate of 1.0 feet per minute.	0.00 (0 - 0)	Visual	3817916	334945	—	—	None
	6:30	Rio Grande 2.48 miles upstream of US 60 (RM 133.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813856	334612	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.75 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.46-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.24 miles upstream of Los Lunas Bridge (RM 164.61) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.02 miles of river have rewet at the "top of drying" since yesterday. Some 0.12 miles of river have dried at the "bottom of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.22 miles downstream of Hwy 346 (RM 137.47). Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Since yesterday, some 1.55 miles of river have dried at the "top of drying" and 1.0 mile has dried at the "bottom of drying, of which 0.02 represents "new drying". Total miles of river reduced to isolated pools in this segment are 5.29 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.75 miles. In total, some 0.02 miles of river have rewet in the Isleta Reach since yesterday; some 2.67 miles of river have dried in the Isleta Reach since yesterday, of which 0.02 represents "new drying".								
	3:32	Rio Grande 3.24 miles upstream of Los Lunas Bridge (RM 164.61)	Top of river drying. Since yesterday, some 0.02 miles of river has rewet at the "top of drying".	0.00 (0 - 0)	Visual	3857669	343013	—	—	None
	4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:30	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Some 0.12 mile of river has dried at the "bottom of drying"	0.00 (0 - 0)	Visual	—	—	3838214	340099	None
	5:30	Rio Grande 3.22 miles downstream of Hwy 346 (RM 137.47)	Top of river drying. Since yesterday, some 1.55 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3820194	335524	—	—	None
	6:38	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. Since yesterday, 1.0 mile of river has dried at the "bottom of drying, of which 0.02 represents "new drying".	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	6:58	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
20-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 18.93 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.46-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.24 miles upstream of Los Lunas Bridge (RM 164.61) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). The "top of drying" and the "bottom of drying" in this segment is unchanged from yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.65). Since yesterday, some 0.18 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). The "bottom of drying" in this segment is unchanged from yesterday. Total miles of river reduced to isolated pools in this segment are 5.47 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.93 miles. In total, some 0.18 miles of river have dried in the Isleta Reach since yesterday.							
	3:37	Rio Grande 3.24 miles upstream of Los Lunas Bridge (RM 164.61)	Top of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	3857669	343013	—	—	None
	4:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:30	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	5:27	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. Since yesterday, some 0.18 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3820489	335460	—	—	None
	6:38	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	6:58	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.00 (2 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
21-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.32 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.85-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.56 miles upstream of Los Lunas Bridge (RM 165.00) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.39 miles of river have dried at the "top of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.65). Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). The "top of drying" and the "bottom of drying" in this segment are unchanged from yesterday. Total miles of river reduced to isolated pools in this segment are 5.47 miles. Total river dry in the Isleta Reach, including the two dry segments, is 19.32 miles. In total, some 0.32 miles of river have dried in the Isleta Reach since yesterday.								
	5:30	Rio Grande 3.56 miles upstream of Los Lunas Bridge (RM 165)	Top of river drying. Since yesterday, some 0.39 miles of river have dried at the "top of drying".	0.00 (0 - 0)	Visual	3858296	342900	—	—	None
	6:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:30	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	7:30	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3820489	335460	—	—	None
	8:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	8:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	3.00 (2 - 4)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.91 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.23 miles upstream of Los Lunas Bridge (RM 164.6) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.33 miles of river have rewet at the "top of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.04 miles downstream of Hwy 346 (RM 137.64). Since yesterday, some 0.01 mile of river has rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.46 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.91 miles. In total, some 0.34 miles of river have rewet in the Isleta Reach since yesterday.								
	17:50	Rio Grande 3.23 miles upstream of Los Lunas Bridge (RM 164.6)	Top of river drying. Some 0.33 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857666	343014	—	—	None
	16:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	16:50	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	9:45	Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64)	Top of river drying. Since yesterday, some 0.01 mile of river has rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820473	335460	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
23-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.91 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.45-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.23 miles upstream of Los Lunas Bridge (RM 164.6) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.27). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.04 miles downstream of Hwy 346 (RM 137.64). Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.46 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.91 miles.								
	7:30	Rio Grande 3.23 miles upstream of Los Lunas Bridge (RM 164.6)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857666	343014	—	—	None
	8:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:50	Rio Grande 1.27 mi. downstream Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	11:30	Rio Grande 3.04 miles downstream of Hwy 346 (RM 137.64)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3820473	335460	—	—	None
	10:45	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.55 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.5-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.28 miles upstream of Los Lunas Bridge (RM 164.65) to a point 1.27 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.05 miles of river have dried at the "top of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.57 miles downstream of Hwy 346 (RM 138.23). Since yesterday, some 0.59 miles of river has dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6.05 miles. Total river dry in the Isleta Reach, including the two dry segments, is 19.55 miles. In total, some 0.64 miles of river have dried in the Isleta Reach since yesterday.								
	3:50	Rio Grande 3.28 miles upstream of Los Lunas Bridge (RM 164.65)	Top of river drying. Some 0.05 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3857775	343032	—	—	None
	4:25	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:40	Rio Grande 1.27 mi. downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	5:39	Rio Grande 2.57 miles downstream of Hwy 346 (RM 138.23)	Top of river drying. Since yesterday, some 0.59 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3821329	335303	—	—	None
	6:29	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
25-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 18.91 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.44-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.22 miles upstream of Los Lunas Bridge (RM 164.59) to a point 1.23 miles downstream of the Peralta Main Wasteway (RM 151.15). Some 0.06 miles of river have rewet at the "top of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.02 miles downstream of Hwy 346 (RM 137.65). Since yesterday, some 0.58 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.47 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.91 miles. In total, some 0.64 miles of river have rewet in the Isleta Reach since yesterday.							
	3:38	Rio Grande 3.22 miles upstream of Los Lunas Bridg (RM 164.59)	Top of river drying. Some 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857647	343011	—	—	None
	4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:35	Rio Grande 1.27 mi. downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838214	340100	None
	5:24	Rio Grande 3.02 miles downstream of Hwy 346 (RM 137.65)	Top of river drying. Since yesterday, some 0.58 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820542	335427	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	6:20	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 17.55 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.09-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.23 miles upstream of Los Lunas Bridge (RM 164.6) to the confluence with Peralta Main Wasteway (RM 152.5). Some 1.23 miles of river have rewet at the "bottom of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.03 miles downstream of Hwy 346 (RM 137.64). Since yesterday, some 0.01 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.46 miles. Total river dry in the Isleta Reach, including the two dry segments, is 17.55 miles. In total, some 1.24 miles of river have rewet in the Isleta Reach since yesterday.								
	3:37	Rio Grande 3.22 miles upstream of Los Lunas Bridge (RM 164.59)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857647	343011	—	—	None
	4:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	8.50 (7 - 10)	Visual	—	—	—	—	None
	4:01	Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Since yesterday, some 1.23 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3840149	340126	None
	5:15	Rio Grande 3.03 miles downstream of Hwy 346 (RM 137.64)	Top of river drying. Since yesterday, some 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820472	335472	—	—	None
	5:55	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
27-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 18.18 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.21 miles upstream of Los Lunas Bridge (RM 164.6) to a point 0.68 miles downstream of Peralta Main Wasteway (RM 151.82). Some 0.01 miles of river have rewet at the "top of drying" and 0.68 miles of river have dried at the "bottom of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.07 miles downstream of Hwy 346 (RM 137.6). Since yesterday, some 0.04 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.42 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.18 miles. In total, some 0.68 miles of river have dried and some 0.05 miles of river have rewet in the Isleta Reach since yesterday.							
	3:39	Rio Grande 3.21 miles upstream of Los Lunas Bridge (RM 164.58)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857626	343018	—	—	None
	4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:55	Rio Grande 0.68 miles downstream of Peralta Main Wasteway (RM 151.82)	Bottom of river drying. Since yesterday, 0.01 miles of river have rewet at the "top of drying" and some 0.68 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3839211	340359	None
	5:30	Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.6)	Top of river drying. Since yesterday, some 0.04 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820321	335447	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.24 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.97-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.21 miles upstream of Los Lunas Bridge (RM 164.58) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61). Some 0.21 miles of river have dried at the "bottom of drying" since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.22 miles downstream of Hwy 346 (RM 137.45). Since yesterday, some 0.15 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.27 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.24 miles. In total, some 0.21 miles of river have dried and some 0.15 miles of river have rewet in the Isleta Reach since yesterday.							
	3:40	Rio Grande 3.21 miles upstream of Los Lunas Bridge (RM 164.58)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857626	343018	—	—	None
	4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:30	Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. Since yesterday, some 0.21 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838922	340336	None
	5:27	Rio Grande 3.22 miles downstream of Hwy 346 (RM 137.45)	Top of river drying. Since yesterday, some 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820067	335509	—	—	None
	6:22	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	6:51	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
29-Sep-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 15.02 mile segment in the Isleta Reach. River is reduced to isolated pools over a13.2-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.14 miles upstream of Los Lunas Bridge (RM 164.51) to a point 1.1 miles downstream of Peralta Main Wasteway (RM 151.31). Since yesterday, some 0.09 miles of river have rewet at the "top of drying", and 0.3 miles of river have dried at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 6.69 miles downstream of Hwy 346 (RM 133.98). Since yesterday, some 3.47 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 1.82 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.02 miles. In total, some 3.56 miles of river have rewet and some 0.3 miles of river have dried in the Isleta Reach since yesterday.							
	4:30	Rio Grande 3.14 miles upstream of Los Lunas Bridge (RM 164.51)	Top of river drying. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857520	343033	—	—	None
	5:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:28	Rio Grande 1.1 miles downstream of Peralta Main Wasteway (RM 151.31)	Bottom of river drying. Since yesterday, some 0.3 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838399	340226	None
	7:13	Rio Grande 6.69 miles downstream of Hwy 346 (RM 133.98)	Top of river drying. Since yesterday, some 3.47 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3815049	334615	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date
	7:48	Rio Grande at Hwy 60 (RM 130.8)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.18 mile segment in the Isleta Reach. River is reduced to isolated pools over a13.27-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 1.24 miles downstream of Peralta Main Wasteway (RM 151.26). Since yesterday, some 0.02 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.58 miles downstream of Hwy 346 (RM 137.09). Since yesterday, some 3.11 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 4.91 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.18 miles. In total, some 3.13 miles of river have dried in the Isleta Reach since yesterday.								
	3:47	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying. Since yesterday, some 0.02 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3857542	343026	—	—	None
	4:30	Peralta Main Wasteway (RM 152.5)	Irrigaiton system discharge to river	3.50 (3 - 4)	Visual	—	—	—	—	None
	4:45	Rio Grande 1.24 miles downstream of Peralta Main Wasteway (RM 151.26)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	—	—	3838399	340226	None
	6:07	Rio Grande 3.58 miles downstream of Hwy 346 (RM 137.09)	Top of river drying. Since yesterday, some 3.11 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3819615	335465	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.58 mile segment in the Isleta Reach. River is reduced to isolated pools over a13.27-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 1.24 miles downstream of Peralta Main Wasteway (RM 151.26). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.18 miles downstream of Hwy 346 (RM 137.49). Since yesterday, some 0.40 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.31 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.58 miles. In total, some 0.40 miles of river have dried in the Isleta Reach since yesterday.								
	4:03	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3857542	343026	—	—	None
	4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:53	io Grande 1.24 miles downstream of Peralta Main Wasteway (RM 151.26)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	—	—	3838399	340226	None
	5:47	Rio Grande 3.18 miles downstream of Hwy 346 (RM 137.49)	Top of river drying. Since yesterday, some 0.40 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820227	335505	—	—	None
	6:50	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	7:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.49 mile segment in the Isleta Reach. River is reduced to isolated pools over a13.27-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.16 miles upstream of Los Lunas Bridge (RM 164.53) to a point 1.24 miles downstream of Peralta Main Wasteway (RM 151.26). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.27 miles downstream of Hwy 346 (RM 137.40). Since yesterday, some 0.08 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.23 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.49 miles. In total, some 0.08 miles of river have rewet in the Isleta Reach since yesterday.								
	4:00	Rio Grande 3.16 miles upstream of Los Lunas Bridge (RM 164.53)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3857542	343026	—	—	None
	4:55	Rio Grande 1.24 miles downstream of Peralta Main Wasteway (RM 151.26)	Bottom of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	—	—	3838399	340226	None
	17:47	Rio Grande 3.26 miles downstream of Hwy 346 (RM 137.41)	Top of discontinuous flow. Since yesterday, some 0.08 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820041	335465	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
03-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.23 mile segment in the Isleta Reach. River is reduced to isolated pools over a12.79-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.03 miles upstream of Los Lunas Bridge (RM 164.4) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.06 miles downstream of Hwy 346 (RM 137.62). Since yesterday, some 0.21 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.44 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.23 miles. In total in the Isleta Reach, some 0.48 miles of river have rewet and .21 miles of river have dried since yesterday.								
	10:40	Rio Grande 3.03 miles upstream of Los Lunas Bridge (RM 164.4)	Top of river drying. Since yesterday, some 0.13 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857265	343069	—	—	None
	8:45	Peralta Main Wasteway (RM 152.5)	Irrigation system to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:55	Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. Since yesterday, some 0.35 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838922	340337	None
	8:00	Rio Grande 3.06 miles downstream of Hwy 346 (RM 137.62)	Top of discontinuous flow. Since yesterday, some 0.21 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820356	335453	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date
	7:30	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	2.50 (2 - 3)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.57 mile segment in the Isleta Reach. River is reduced to isolated pools over a12.74-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.98 miles upstream of Los Lunas Bridge (RM 164.35) to a point 0.89 miles downstream of Peralta Main Wasteway (RM 151.61). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.71 miles downstream of Hwy 346 (RM 138.01). Since yesterday, some 0.39 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.83 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.57 miles. In total in the Isleta Reach, some 0.05 miles of river have rewet and 0.39 miles of river have dried since yesterday.								
	3:40	Rio Grande 2.98 miles upstream of Los Lunas Bridge (RM 164.35)	Top of river drying. Since yesterday, some 0.05miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857176	343076	—	—	None
	4:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:30	Rio Grande 0.89 miles downstream of Peralta Main Wasteway (RM 151.61)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3838922	340337	None
	5:25	Rio Grande 2.71 miles downstream of Hwy 346 (RM 138.01)	Top of discontinuous flow. Since yesterday, some 0.39 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3821013	335292	—	—	None
	6:20	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	6:50	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.39 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.05-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.83 miles upstream of Los Lunas Bridge (RM 164.2) to a point 1.27 miles downstream of Peralta Main Wasteway (RM 151.15). A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.23 miles downstream of Hwy 346 (RM 138.52). Since yesterday, some 0.51 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6.34 miles. Total river dry in the Isleta Reach, including the two dry segments, is 19.39 miles. In total in the Isleta Reach, some 0.15 miles of river have rewet and 0.97 miles of river have dried since yesterday.								
	3:35	Rio Grande 2.83 miles upstream of Los Lunas Bridge (RM 164.2)	Top of river drying. Since yesterday, some 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857086	343072	—	—	None
	4:17	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:34	Rio Grande 1.27 miles downstream of Peralta Main Wasteway (RM 151.15)	Bottom of river drying. Since yesterday, some 0.46 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838215	340087	None
	5:39	Rio Grande 2.23 miles downstream of Hwy 346 (RM 138.52)	Top of discontinuous flow. Since yesterday, some 0.51 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3821772	335549	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change from yesterday	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date
	6:40	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.19 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.95-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.83 miles upstream of Los Lunas Bridge (RM 164.2) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.10 miles of river have rewet at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.25 miles downstream of Hwy 346 (RM 138.42). Since yesterday, some 0.10 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 6.24 miles. Total river dry in the Isleta Reach, including the two dry segments, is 19.19 miles. In total in the Isleta Reach, some 0.20 miles of river have rewet since yesterday.								
	4:40	Rio Grande 2.83 miles upstream of Los Lunas Bridge (RM 164.2)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3857086	343072	—	—	None
	5:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:45	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Since yesterday, some 0.10 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838331	340199	None
	7:35	Rio Grande 2.25 miles downstream of Hwy 346 (RM 138.42)	Top of discontinuous flow. Since yesterday, some 0.10 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3821729	335508	—	—	None
	9:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	10:10	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.74 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.8 miles upstream of Los Lunas Bridge (RM 164.17) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.03 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.74 miles downstream of Hwy 346 (RM 138). Since yesterday, some 0.42 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total miles of river reduced to isolated pools in this segment are 5.82 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.74 miles. In total in the Isleta Reach, some 0.45 miles of river have rewet since yesterday.								
	7:40	Rio Grande 2.8 miles upstream of Los Lunas Bridge (RM 164.17)	Top of river drying. Since yesterday, some 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856941	343118	—	—	None
	8:45	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	9:00	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3838331	340199	None
	10:10	Rio Grande 2.74 miles downstream of Hwy 346 (RM 138)	Top of discontinuous flow. Since yesterday, some 0.42 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820988	335303	—	—	None
	11:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	11:45	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 18.13 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.36-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.37 miles upstream of Los Lunas Bridge (RM 163.61) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.56 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.85 miles downstream of Hwy 346 (RM 137.95). Since yesterday, some 0.05 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.77 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.13 miles. In total in the Isleta Reach, some 0.61 miles of river have rewet since yesterday.							
	3:50	Rio Grande 2.37 miles upstream of Los Lunas Bridge (RM 163.61)	Top of river drying. Since yesterday, some 0.56 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856071	343210	—	—	None
	4:36	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:00	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	3838331	340199	—	—	None
	5:45	Rio Grande 2.79 miles downstream of Hwy 346 (RM 137.95)	Top of discontinuous flow. Since yesterday, some 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820904	335334	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.17 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.6-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.46 miles upstream of Los Lunas Bridge (RM 166.85) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 3.24 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.01 miles downstream of Hwy 346 (RM 137.75). Since yesterday, some 0.2 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.57 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.17 miles. In total in the Isleta Reach, some 0.2 miles of river have rewet since yesterday, and some 3.24 miles of river have dried since yesterday.							
	4:05	Rio Grande 5.46 miles upstream of Los Lunas Bridge (RM 166.85)	Top of river drying. Since yesterday, some 3.24 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3860982	343412	—	—	None
	5:15	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:20	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3838331	340199	None
	5:52	Rio Grande 3.01 miles downstream of Hwy 346 (RM 137.75)	Top of discontinuous flow. Since yesterday, some 0.2 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820641	335419	—	—	None
	6:45	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	7:00	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 21.54 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.67 miles upstream of Los Lunas Bridge (RM 167.17) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.32 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 2.99 miles downstream of Hwy 346 (RM 137.8). Since yesterday, some 0.05 miles of river have dried at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.62 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.54 miles. In total in the Isleta Reach, some 0.37 miles of river have dried since yesterday.							
	4:01	Rio Grande 5.67 miles upstream of Los Lunas Bridge (RM 167.17)	Top of river drying. Since yesterday, some 0.32 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3861230	343696	—	—	None
	3:50	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:15	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3838331	340199	None
	6:05	Rio Grande 2.99 miles downstream of Hwy 346 (RM 137.8)	Top of discontinuous flow. Since yesterday, some 0.05 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3820737	335325	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
11-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 21.69 mile segment in the Isleta Reach. River is reduced to isolated pools over a 16.08-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.83 miles upstream of Los Lunas Bridge (RM 167.33) to a point 1.15 miles downstream of Peralta Main Wasteway (RM 151.25). Since yesterday, some 0.16 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.0 miles downstream of Hwy 346 (RM 137.79). Since yesterday, some 0.01 miles of river have rewet at the "top of drying". Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.61 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.69 miles. In total in the Isleta Reach, some 0.16 miles of river have dried since yesterday, and 0.01 miles or river have rewet							
	4:10	Rio Grande 5.83 miles upstream of Los Lunas Bridge (RM 167.33)	Top of river drying. Since yesterday, some 0.16 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3861462	343971	—	—	None
	3:50	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	3:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:10	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	3.50 (3 - 4)	Visual	—	—	—	—	None
	5:30	Rio Grande 1.15 miles downstream of Peralta Main Wasteway (RM 151.25)	Bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3838331	340199	None
	6:11	Rio Grande 3.00 miles downstream of Hwy 346 (RM 137.79)	Top of discontinuous flow. Since yesterday, some 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820707	335343	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date
	6:55	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.47 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.76 miles upstream of Los Lunas Bridge (RM 167.22) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). Since yesterday, some 0.11 miles of river have rewet at the "top of drying" and some 0.05 miles of river have rewet at the "bottom of drying." A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.07 miles downstream of Hwy 346 (RM 137.73). Since yesterday, some 0.06 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.55 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.47 miles. In total in the Isleta Reach, some 0.22 miles of river have rewet since yesterday.							
	5:05	Rio Grande 5.76 miles upstream of Los Lunas Bridge (RM 167.22)	Top of river drying. Since yesterday, some 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3861311	343755	—	—	None
	4:45	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:40	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:20	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying. Since yesterday, some 0.05 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3838401	340231	None
	7:25	Rio Grande 3.07 miles downstream of Hwy 346 (RM 137.73)	Top of discontinuous flow. Since yesterday, some 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820539	335428	—	—	None
	8:05	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3812394	334463	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
13-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.29 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.83-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.73 miles upstream of Los Lunas Bridge (RM 167.13) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). Since yesterday, some 0.09 miles of river have rewet at the "top of drying." A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.16 miles downstream of Hwy 346 (RM 137.64). Since yesterday, some 0.09 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.46 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.29 miles. In total in the Isleta Reach, some 0.18 miles of river have rewet since yesterday.							
8:00	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3861240	343702	—	—	None
8:10	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
8:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
9:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
9:15	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3838401	340231	None
10:45	Rio Grande 3.16 miles downstream of Hwy 346 (RM 137.64)	Top of discontinuous flow. Since yesterday, some 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820473	335460	—	—	None
11:30	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3812394	334463	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
14-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21.15 mile segment in the Isleta Reach. River is reduced to isolated pools over a 15.83-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.73 miles upstream of Los Lunas Bridge (RM 167.13) to a point 1.2 miles downstream of Peralta Main Wasteway (RM 151.3). No change since yesterday. A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.3 miles downstream of Hwy 346 (RM 137.5). Since yesterday, some 0.14 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.32 miles. Total river dry in the Isleta Reach, including the two dry segments, is 21.15 miles. In total in the Isleta Reach, some 0.14 miles of river have rewet since yesterday.								
	8:00	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861240	343702	—	—	None
	8:10	Alehandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	8:15	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	9:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	9:15	Rio Grande 1.2 miles downstream of Peralta Main Wasteway (RM 151.3)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838401	340231	None
	10:45	Rio Grande 3.3 miles downstream of Hwy 346 (RM 137.5)	Top of discontinuous flow. Since yesterday, some 0.14 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820277	335492	—	—	None
	11:30	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3812394	334463	None
	11:55	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.93 mile segment in the Isleta Reach. River is reduced to isolated pools over a 14.63-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 5.73 miles upstream of Los Lunas Bridge (RM 167.13) to the confluence of the Peralta Main Wasteway (RM 152.5). Since yesterday, some 1.2 miles of river have rewet at the "bottom of drying." A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.32 miles downstream of Hwy 346 (RM 137.48). Since yesterday, some 0.02 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.3 miles. Total river dry in the Isleta Reach, including the two dry segments, is 19.93 miles. In total in the Isleta Reach, some 1.22 miles of river have rewet since yesterday.								
	5:10	Rio Grande 5.73 miles upstream of Los Lunas Bridge (RM 167.13)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3861240	343702	—	—	None
	5:05	Alejandro Wasteway (RM 166.63)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:00	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	0.00 (0 - 0)	Visual	—	—	—	—	None
	6:00	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	7.50 (5 - 10)	Visual	—	—	—	—	None
	6:40	Rio Grande at the confluence of the Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Some 1.2 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3840138	340117	None
	7:45	Rio Grande 3.32 miles downstream of Hwy 346 (RM 137.48)	Top of discontinuous flow. Since yesterday, some 0.02 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3820161	335519	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date
	6:00	Rio Puerco at I-25 (RM 126.5)	Flow estimate	1240.00 (1240 - 1240)	Measured	—	—	—	—	USGS peak flow measured estimate

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
16-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.64 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.49-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.73 miles upstream of Los Lunas Bridge (RM 165.13) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 2.0 miles of river have rewet at the "top of drying and 0.86 miles of river have dried at the "bottom of drying." A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.39 miles downstream of Hwy 346 (RM 137.33). Since yesterday, some 0.15 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 5.15 miles. Total river dry in the Isleta Reach, including the two dry segments, is 18.64 miles. In total in the Isleta Reach, some 2.15 miles of river have rewet since yesterday and 0.86 miles of river have dried since yesterday.								
	3:45	Rio Grande at USGS Bosque Farms Gauge (RM 166.1)	Flow estimate	8.50 (7 - 10)	Visual	—	—	—	—	None
	4:00	Rio Grande 3.73 miles upstream of Los Lunas Bridge (RM 165.13)	Top of river drying. Some 2.0 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3858482	342854	—	—	None
	4:49	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:12	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. Since yesterday, 0.86 miles of river have dried at the "bottom of drying"	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	6:40	Rio Grande at Hwy 346 (RM 140.8)	Flow estimate	6.00 (5 - 7)	Visual	—	—	—	—	None
	6:15	Rio Grande 3.39 miles downstream of Hwy 346 (RM 137.33)	Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819977	335470	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 17.94 mile segment in the Isleta Reach. River is reduced to isolated pools over a 13.05-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 3.31 miles upstream of Los Lunas Bridge (RM 164.69) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.44 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.71 miles downstream of Hwy 346 (RM 137.07). Since yesterday, 0.26 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.54 miles upstream of US 60 (RM 132.18). Total distance of river reduced to isolated pools in this segment is 4.89 miles. Total river dry in the Isleta Reach, including the two dry segments, is 17.94 miles. In total in the Isleta Reach, some 0.7 miles of river have rewet since yesterday.							
	3:59	Rio Grande 3.31 miles upstream of Los Lunas Bridge (RM 164.69)	Top of river drying. Some 0.44 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3857793	343076	—	—	None
	4:35	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:55	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:30	Rio Grande 3.71 miles downstream of Hwy 346 (RM 137.07)	Top of discontinuous flow. Since yesterday, 0.26 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819566	335468	—	—	None
	0:00	Rio Grande 1.54 miles upstream of US 60 (RM 132.18)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3812394	334463	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.99 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.16-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.6 miles upstream of Los Lunas Bridge (RM 163.8) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.71 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.73 miles downstream of Hwy 346 (RM 137.04). Since yesterday, 0.03 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.57 miles upstream of US 60 (RM 132.21). Total distance of river reduced to isolated pools in this segment is 4.83 miles. Total river dry in the Isleta Reach, including the two dry segments, is 16.99 miles. In total in the Isleta Reach, some 0.77 miles of river have rewet since yesterday.							
	4:07	Rio Grande 2.6 miles upstream of Los Lunas Bridge (RM 163.8)	Top of river drying. Some 0.71 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856474	343156	—	—	None
	4:50	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:10	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	6:01	Rio Grande 3.73 miles downstream of Hwy 346 (RM 137.04)	Top of discontinuous flow. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819488	335452	—	—	None
	6:31	Rio Grande 1.57 miles upstream of US 60 (RM 132.21)	Bottom of river drying. Since yesterday, 0.03 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3812433	334398	None
	7:03	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.73 mile segment in the Isleta Reach. River is reduced to isolated pools over a 12.01-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.45 miles upstream of Los Lunas Bridge (RM 163.65) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.15 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.79 miles downstream of Hwy 346 (RM 136.93). Since yesterday, 0.06 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 1.57 miles upstream of US 60 (RM 132.21). Total distance of river reduced to isolated pools in this segment is 4.72 miles. Total river dry in the Isleta Reach, including the two dry segments, is 16.73 miles. In total in the Isleta Reach, some 0.21 miles of river have rewet since yesterday.							
	3:56	Rio Grande 2.45 miles upstream of Los Lunas Bridge (RM 163.65)	Top of river drying. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3856147	343221	—	—	None
	4:40	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:00	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:27	Rio Grande 3.79 miles downstream of Hwy 346 (RM 136.93)	Top of discontinuous flow. Since yesterday, 0.06 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819333	335484	—	—	None
	0:00	Rio Grande 1.57 miles upstream of US 60 (RM 132.21)	Presumed bottom of river drying. Unchanged from yesterday.	0.00 (0 - 0)	Visual	—	—	3812433	334398	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
20-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.77 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.92-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.36 miles upstream of Los Lunas Bridge (RM 163.56) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.09 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 3.91 miles downstream of Hwy 346 (RM 136.81). Since yesterday, 0.12 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.85 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.77 miles. In total in the Isleta Reach, some 0.96 miles of river have rewet since yesterday.								
	4:09	Rio Grande 2.36 miles upstream of Los Lunas Bridge (RM 163.56)	Top of river drying. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855987	343165	—	—	None
	4:59	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:20	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	6:01	Rio Grande 3.91 miles downstream of Hwy 346 (RM 136.81)	Top of discontinuous flow. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819215	335400	—	—	None
	7:02	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Bottom of river drying. Since yesterday, 0.75 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3813556	334406	None
	7:15	Rio Grande at Hwy 60 (RM 130.6)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
21-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 15.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.76-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.2 miles upstream of Los Lunas Bridge (RM 163.4) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.16 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.02 miles downstream of Hwy 346 (RM 136.7). Since yesterday, 0.11 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.74 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.5 miles. In total in the Isleta Reach, some 0.27 miles of river have rewet since yesterday.							
	4:13	Rio Grande 2.2 miles upstream of Los Lunas Bridge (RM 163.4)	Top of river drying. Since yesterday, 0.16 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855751	343144	—	—	None
	4:57	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	5:24	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	7:10	Rio Grande at Hwy 346 (RM 140.8)	Continuous flow	4.00 (3 - 5)	Visual	—	—	—	—	None
	6:23	Rio Grande 4.02 miles downstream of Hwy 346 (RM 136.7)	Top of discontinuous flow. Since yesterday, 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3819054	335298	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.34 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.71-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.15 miles upstream of Los Lunas Bridge (RM 163.35) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.16 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.2 miles downstream of Hwy 346 (RM 136.59). Since yesterday, 0.11 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.63 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.34 miles. In total in the Isleta Reach, some 0.16 miles of river have rewet since yesterday.							
	3:43	Rio Grande 2.15 miles upstream of Los Lunas Bridge (RM 163.35)	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855614	343097	—	—	None
	4:29	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:55	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:23	Rio Grande 4.2 miles downstream of Hwy 346 (RM 136.59)	Top of discontinuous flow. Since yesterday, 0.11 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818832	335192	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
23-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.18 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.56-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 2.0 miles upstream of Los Lunas Bridge (RM 163.2) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.15 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.21 miles downstream of Hwy 346 (RM 136.58). Since yesterday, 0.01 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.62 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.18 miles. In total in the Isleta Reach, some 0.16 miles of river have rewet since yesterday.							
	3:41	Rio Grande 2.0 miles upstream of Los Lunas Bridge (RM 163.2)	Top of river drying. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855451	343136	—	—	None
	4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:50	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:10	Rio Grande 4.21 miles downstream of Hwy 346 (RM 136.58)	Top of discontinuous flow. Since yesterday, 0.01 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818814	335186	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 15.07 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.53-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.97 miles upstream of Los Lunas Bridge (RM 163.17) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande(RM 151.64). Since yesterday, 0.03 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.29 miles downstream of Hwy 346 (RM 136.5). Since yesterday, 0.08 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.54 miles. Total river dry in the Isleta Reach, including the two dry segments, is 15.07 miles. In total in the Isleta Reach, some 0.11 miles of river have rewet since yesterday.								
	3:50	Rio Grande 1.97 miles upstream of Los Lunas Bridge (RM 163.17)	Top of river drying. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855326	343143	—	—	None
	4:35	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:51	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:41	Rio Grande 4.29 miles downstream of Hwy 346 (RM 136.5)	Top of discontinuous flow. Since yesterday, 0.08 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818732	335161	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
25-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.99 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.48-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.92 miles upstream of Los Lunas Bridge (RM 163.12) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.05 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.26 miles downstream of Hwy 346 (RM 136.47). Since yesterday, 0.03 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.51 miles. Total river dry in the Isleta Reach, including the two dry segments, is 14.99 miles. In total in the Isleta Reach, some 0.08 miles of river have rewet since yesterday.								
	3:40	Rio Grande 1.92 miles upstream of Los Lunas Bridge (RM 163.12)	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855205	343149	—	—	None
	4:25	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:45	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:23	Rio Grande 4.26 miles downstream of Hwy 346 (RM 136.47)	Top of discontinuous flow. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818663	335119	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.77 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.35-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.79 miles upstream of Los Lunas Bridge (RM 162.99) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.13 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.35 miles downstream of Hwy 346 (RM 136.38). Since yesterday, 0.09 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.42 miles. Total river dry in the Isleta Reach, including the two dry segments, is 14.77 miles. In total in the Isleta Reach, some 0.22 miles of river have rewet since yesterday.							
	3:45	Rio Grande 1.79 miles upstream of Los Lunas Bridge (RM 162.99)	Top of river drying. Since yesterday, 0.13 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3855067	343183	—	—	None
	4:30	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
	4:50	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	5:19	Rio Grande 4.35 miles downstream of Hwy 346 (RM 136.38)	Top of discontinuous flow. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818573	335060	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
27-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14.4 mile segment in the Isleta Reach. River is reduced to isolated pools over a 11.12-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 1.56 miles upstream of Los Lunas Bridge (RM 162.76) to a point 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64). Since yesterday, 0.23 miles of river have rewet at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.49 miles downstream of Hwy 346 (RM 136.24). Since yesterday, 0.14 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.28 miles. Total river dry in the Isleta Reach, including the two dry segments, is 14.4 miles. In total in the Isleta Reach, some 0.37 miles of river have rewet since yesterday.							
	4:15	Rio Grande 1.56 miles upstream of Los Lunas Bridge (RM 162.76)	Top of river drying. Since yesterday, 0.23 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3854719	343299	—	—	None
	4:50	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	11.00 (10 - 12)	Visual	—	—	—	—	None
	5:15	Rio Grande 0.86 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.64)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3838929	340346	None
	6:15	Rio Grande 4.49 miles downstream of Hwy 346 (RM 136.24)	Top of discontinuous flow. Since yesterday, 0.14 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818383	335005	—	—	None
	7:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3813556	334406	—	—	None
	7:30	Rio Grande at Hwy 60 (RM 130.8)	Continuous flow	1.50 (1 - 2)	Visual	—	—	—	—	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Oct-2012		**General Comments:**	The river is dry or reduced to isolated pools over a 13.5 mile segment in the Isleta Reach. River is reduced to isolated pools over a 10.34-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.76 miles upstream of Los Lunas Bridge (RM 162.16) to a point 0.58 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.82). Since yesterday, 0.6 miles of river have rewet at the "top of drying" and 0.18 miles of river have rewet at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.61 miles downstream of Hwy 346 (RM 136.12). Since yesterday, 0.12 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.16 miles. Total river dry in the Isleta Reach, including the two dry segments, is 13.5 miles. In total in the Isleta Reach, some 0.9 miles of river have rewet since yesterday.							
	4:05	Rio Grande 0.76 miles upstream of Los Lunas Bridge (RM 162.16)	Top of river drying. Since yesterday, 0.6 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3853782	343500	—	—	None
	5:06	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	11.00 (10 - 12)	Visual	—	—	—	—	None
	5:49	Rio Grande 0.58 miles downstream of the Peralta Main Wasteway confluence with the Rio Grande (RM 151.82)	Bottom of river drying. Since yesterday, 0.18 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3839209	340357	None
	7:15	Rio Grande 4.61 miles downstream of Hwy 346 (RM 136.12)	Top of discontinuous flow. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3818182	334983	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
29-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 11.45 mile segment in the Isleta Reach. River is reduced to isolated pools over a 8.44-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.45 miles downstream of Los Lunas Bridge (RM 160.94) to the confluence with Peralta Wasteway (RM 152.5). Since yesterday, 1.22 miles of river have rewet at the "top of drying" and 0.68 miles of river have rewet at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 4.83 miles downstream of Hwy 346 (RM 135.97). Since yesterday, 0.15 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 3.01 miles. Total river dry in the Isleta Reach, including the two dry segments, is 11.45 miles. In total in the Isleta Reach, 2.05 miles of river have rewet since yesterday.								
	5:00	Rio Grande 0.16 miles upstream of Los Lunas Bridge (RM 161.5)	Top of river drying	0.00 (0 - 0)	Visual	3852992	342963	—	—	None
	0:00	Rio Grande 0.45 miles downstream of Los Lunas Bridge (RM 160.94)	Recently wetted riverbed observed at 04:15 hrs on 30-Oct-2012 is evidence that the river rewet to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying". Therefore, since yeste	0.00 (0 - 0)	Visual	3852078	342548	—	—	Recently wetted riverbed observed at 04:15 hrs on 30-Oct-2012 is evidence that the river rewet to this point late in the day on 29-Oct-2012, i.e., that this became the furthest downstream point referred to as "Top of river drying".
	6:20	Peralta Main Wasteway (RM 152.5)	Irrigation system discharge to river	17.50 (15 - 20)	Visual	—	—	—	—	None
	6:25	Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying. Since yesterday, 0.68 miles of river have rewet at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3840138	340117	None
	7:40	Rio Grande 4.83 miles downstream of Hwy 346 (RM 135.97)	Top of discontinuous flow. Since yesterday, 0.15 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3817916	334965	—	—	None
	0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 11.65 mile segment in the Isleta Reach. River is reduced to isolated pools over an 8.98-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.11 miles upstream of Los Lunas Bridge (RM 161.48) to the confluence with Peralta Wasteway (RM 152.5). Since yesterday, 0.54 miles of river have dried at the "top of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.17 miles downstream of Hwy 346 (RM 135.63). Since yesterday, 0.34 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 2.67 miles. Total river dry in the Isleta Reach, including the two dry segments, is 11.65 miles. In total in the Isleta Reach, 0.34 miles of river have rewet since yesterday and 0.54 miles of river dried since yesterday.								
	4:00	Rio Grande 0.11 miles upstream of Los Lunas Bridge (RM 161.48)	Top of river drying. Since yesterday, 0.54 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3852884	342897	---	---	None
	4:54	Peralta Main Wasteway (RM 152.5)	Irrigaiton system discharge to river	22.50 (20 - 25)	Visual	---	---	---	---	None
	4:55	Rio Grande at the confluence with Peralta Main Wasteway (RM 152.5)	Bottom of river drying	0.00 (0 - 0)	Visual	---	---	3840138	340117	None
	5:52	Rio Grande 5.17 miles downstream of Hwy 346 (RM 135.63)	Top of discontinuous flow. Since yesterday, 0.34 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3817470	334754	---	---	None
	6:30	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	---	---	3813556	334406	None

Isleta Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
31-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 11.29 mile segment in the Isleta Reach. River is reduced to isolated pools over an 9.06-mile segment in the vicinity of Isleta Diversion-Belen, extending south from a point 0.33 miles downstream of Los Lunas Bridge (RM 161.05) to a point 0.46 miles downstream of the river's confluence with Peralta Wasteway (RM 151.99). Since yesterday, 0.43 miles of river have rewet at the "top of drying" and 0.51 miles of river have dried at the "bottom of drying". A second segment of river is reduced to isolated pools between Hwy 346 and US 60. Top of drying in this segment is 5.61 miles downstream of Hwy 346 (RM 135.19). Since yesterday, 0.44 miles of river have rewet at the "top of drying." Bottom of drying in this segment is 2.27 miles upstream of US 60 (RM 132.96). Total distance of river reduced to isolated pools in this segment is 2.23 miles. Total river dry in the Isleta Reach, including the two dry segments, is 11.29 miles. In total in the Isleta Reach, 0.87 miles of river have rewet since yesterday and 0.51 miles of river dried since yesterday.								
4:15	Rio Grande 0.33 miles downstream of Los Lunas Bridge (RM 161.05)	Top of river drying. Since yesterday, 0.43 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3852240	342640	—	—	None
5:00	Peralta main Wasteway (RM 152.5)	Irrigation system discharge to river	0.00 (0 - 0)	Visual	—	—	—	—	None
5:25	Rio Grande 0.46 miles downstream of the river's confluence with Peralta Main Wasteway (RM 151.99)	Bottom of river drying. Since yesterday, 0.51 miles of river have dried at the "bottom of drying."	0.00 (0 - 0)	Visual	—	—	3839410	340401	None
6:15	Rio Grande 5.61 miles downstream of Hwy 346 (RM 135.19)	Top of discontinuous flow. Since yesterday, 0.44 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3816818	334470	—	—	None
0:00	Rio Grande 2.27 miles upstream of US 60 (RM 132.96)	Presumed bottom of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
08-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	21:00	Rio Grande at San Acacia (RM 116)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
	22:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	325.00 (300 - 350)	Visual	—	—	—	—	Flow dropped to 280 cfs by 24:00 hrs

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	17:00	Rio Grande at San Acacia (RM 116)	Continuous flow	379.00 (379 - 379)	Measured	—	—	—	—	Beginning stage (inside) = 10.78; Ending stage (inside) = 10.76. Measured cells = 15; light rain
	4:10	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
	9:30	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	200.00 (200 - 200)	Visual	—	—	—	—	None
	5:20	Rio Grande at San Marcial (RM 68.6)	Continuous flow	150.00 (150 - 150)	Visual	—	—	—	—	None
	7:20	Rio Grande at San Marcial (RM 68.6)	Continuous flow	178.90 (178.8 - 179)	Measured	—	—	—	—	Beginning stage (inside) = 15.23; Ending stage (inside) = 15.24. Measured cells = 19
10-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	8:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
	7:00	Rio Grande at North Boundary Bosque del Apache (RM 84)	Continuous flow	325.00 (325 - 325)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
11-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	11:45	Rio Grande at Escondida (RM 104.8)	Continuous flow	NA	Not available/applicable	—	—	—	—	Inside stage = 26.53; outside stage = 26.58
13-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
14-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
15-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	0:00	General comment (RM 0)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
16-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	7:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
17-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	12:30	Rio Grande at San Acacia (RM 116.2)	Continuous flow	290.00 (290 - 290)	Visual	—	—	—	—	None
	13:30	Rio Grande at Escondida Bridge (RM 104.8)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	Inside stage = 26.51; outside stage = 26.54
	9:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	250.00 (250 - 250)	Visual	—	—	—	—	None
18-May-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	6:00	Rio Grande at San Acacia (RM 116.2)	Continuous flow	275.00 (250 - 300)	Visual	—	—	—	—	None
	16:00	Rio Grande at San Acacia (RM 116.2)	Continuous flow	287.50 (275 - 300)	Visual	—	—	—	—	None
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	300.00 (300 - 300)	Visual	—	—	—	—	None
	16:45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	275.00 (275 - 275)	Visual	—	—	—	—	None
	5:00	Rio Grande at North Boundary Bosque del Apache (RM 84.2)	Continuous flow	325.00 (325 - 325)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
21-May-2012	**General Comments:** Flow in the main river channel is continuous throughout the San Acacia Reach. Mostly overcast with evening rain yesterday and today. Note: Two flow measurements conducted today at South Boundary line of Bosque del Apache Refuge and US Highway 380.									
	6:45	Neil Cupp pump site (RM 90.5)	2 pumps are discharging.	18.00 (18 - 18)	Visual	—	—	—	—	None
	10:30	Neil Cupp pump site (RM 90.5)	Pumps are shut off	NA	Not available/applicable	—	—	—	—	None
	7:00	Rio Grande at US Highway 380 (RM 87.1)	Measurement conducted between 07:00 and 08:30 am; discharge = 266.46 cfs	266.23 (266.46 - 266)	Measured	—	—	—	—	USGS website read 271 cfs
	6:30	North Boundary - BDA pump site (RM 84.2)	2 pumps are discharging.	18.00 (18 - 18)	Visual	—	—	—	—	None
	9:00	North Boundary - BDA pump site (RM 84.2)	Pumps are shut off	NA	Not available/applicable	—	—	—	—	None
	4:30	Rio Grande at South Boundary - BDA pump site (RM 74)	Measurement conducted between 04:30 and 06:00 am; discharge = 136.39 cfs	136.20 (136.39 - 136)	Measured	—	—	—	—	None
22-May-2012	**General Comments:** Flow in the main river channel is continuous throughout the San Acacia Reach.									
	6:00	Rio Grande at US 380 (RM 87.1)	continuous flow	200.00 (200 - 200)	Visual	—	—	—	—	None
	18:00	Rio Grande at US 380 (RM 87.1)	continuous flow	212.50 (200 - 225)	Visual	—	—	—	—	None
	13:30	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	NA	Not available/applicable	—	—	—	—	None
	11:30	Rio Grande at San Marcial (RM 68.6)	Measurement conducted 11:30 - 12:30 pm, discharge = 79.56	79.56 (79.56 - 79.56)	Measured	—	—	—	—	Inside stage = 14.88 ft.; personnel: Greg Pargas and Anders Lundahl

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
23-May-2012	**General Comments:** Flow in the main river channel is continuous throughout the San Acacia Reach.									
	8:00	Rio Grande at US 380 (RM 87.1)	continuous flow	200.00 (200 - 200)	Visual	—	—	—	—	None
	18:00	Rio Grande at US 380 (RM 87.1)	Continuous flow	200.00 (200 - 200)	Visual	—	—	—	—	None
	6:30	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	continuous flow	87.50 (75 - 100)	Visual	—	—	—	—	None
	7:00	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	112.50 (100 - 125)	Visual	—	—	—	—	None
	17:00	Rio Grande at South Boundary - BDA (RM 74)	Continuous flow	NA	Not available/applicable	—	—	—	—	3 pumps in operation.
	14:00	Rio Grande at San Marcial (RM 68.6)	Measurement conducted 14:45 - 15:39 hrs; discharge = 66.141 cfs	66.12 (66.141 - 66.1)	Measured	—	—	—	—	None
24-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	14:30	Rio Grande downstream of San Acacia Diversion (RM 116.2)	Continuous flow	152.50 (150 - 155)	Visual	—	—	—	—	Inside stage 9.93
	6:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	87.50 (75 - 100)	Visual	—	—	—	—	None
	7:00	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	127.50 (125 - 130)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	9:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	110.00 (110 - 110)	Visual	—	—	—	—	None
	8:30	Rio Grande at San Marcial (RM 68.5)	Continuous flow	54.00 (54 - 54)	Visual	—	—	—	—	None
31-May-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	10:00	Rio Grande at f US Hwy 380 (RM 87.1)	Continuous flow	94.52 (94.52 - 94.52)	Measured	—	—	—	—	Internet posting at time of measurement was 76 cfs
01-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	12:35	Rio Grande at San Acacia (RM 116.2)	Continuous flow	188.55 (188.55 - 188.55)	Measured	—	—	—	—	Internet reading shows 181 cfs at this time. By 2:07 pm this day, USGS had adjusted the shift for the gauge to better reflect the flow at the site.

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	13:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	105.00 (100 - 110)	Visual	—	—	—	—	None
	12:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
03-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	14:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	105.00 (100 - 110)	Visual	—	—	—	—	None
	12:30	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	12:00	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
04-Jun-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	7:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	100.00 (100 - 100)	Visual	—	—	—	—	None
	6:45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	6:00	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	95.00 (90 - 100)	Visual	—	—	—	—	None
	8:45	Rio Grande at San Marcial (RM 68.6)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	9:30	Rio Grande at Fort Craig (RM 64.8)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	4:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	85.00 (80 - 90)	Visual	—	—	—	—	None
	16:20	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	85.00 (85 - 85)	Visual	—	—	—	—	None
	5:00	Rio Grande at upstream North Boundary Bosque del Apache (RM 84.2)	Continuous flow	77.50 (75 - 80)	Visual	—	—	—	—	None
	7:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None
	13:50	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	6:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	14:20	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	14:36	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	4:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	75.00 (70 - 80)	Visual	—	—	—	—	None
	11:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	61.15 (61.15 - 61.15)	Measured	—	—	—	—	7 cells; USGS reading at this time = 62.0 cfs
	6:30	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	70.00 (70 - 70)	Visual	—	—	—	—	None
	7:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	17:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	47.17 (47.17 - 47.17)	Measured	—	—	—	—	None
	7:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	8:00	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	65.00 (60 - 70)	Visual	—	—	—	—	None
	10:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	7:00	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	55.00 (50 - 60)	Visual	—	—	—	—	None
	6:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	6:30	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
09-Jun-2012		**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	20:30	Rio Grande at Brown Arroyo (RM 84.1)	Continuous flow	67.50 (60 - 75)	Visual	—	—	—	—	None
	20:15	Rio Grande at Neil Cupp (RM 90.5)	Continuous flow	70.00 (65 - 75)	Visual	—	—	—	—	No pumps running
	5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	19:44	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	65.00 (60 - 70)	Visual	—	—	—	—	None
	7:00	Rio Grande upstream of North Boundary Bosque del Apache Refuge (RM 84.2)	Continuous flow	55.00 (50 - 60)	Visual	—	—	—	—	None
	7:01	North Boundary Bosque del Apache pump site (RM 84.2)	Pump site discharge	30.00 (30 - 30)	Visual	—	—	—	—	None
	7:45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	6:30	Rio Grande at River Widening (RM 77)	Continuous flow	25.00 (20 - 30)	Visual	—	—	—	—	None
	7:30	Rio Grande 750 ft upstream of South Boundary Bosque del Apache (RM 73.9)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Jun-2012		**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	20:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	7:00	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	52.50 (50 - 55)	Visual	—	—	—	—	None
	19:56	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	19:57	North Boundary Bosque del Apache pump site (RM 84.2)	Three pumps running; pump site discharge to river	35.00 (35 - 35)	Visual	—	—	—	—	None
	18:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	40.00 (40 - 40)	Visual	—	—	—	—	None
	18:25	Rio Grande at River Widening (RM 77)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None
	19:15	Rio Grande 750 ft upstream of South Boundary Bosque del Apache (RM 73.9)	Continuous flow	NA	Not available/applicable	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
11-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	5:30	Rio Grande upstream of North Boundary Bosque del Apache (RM 84.2)	Continuous flow	55.00 (55 - 55)	Visual	—	—	—	—	None
	5:31	North Boundary Bosque del Apache pump site (RM 84.2)	Three pumps running; Pump site discharge to river	35.00 (35 - 35)	Visual	—	—	—	—	None
	5:45	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	42.50 (40 - 45)	Visual	—	—	—	—	None
	6:00	Rio Grande at River Widening (RM 77)	Continuous flow	35.00 (35 - 35)	Visual	—	—	—	—	None
	19:15	Rio Grande 750 ft upstream of South Boundary Bosque del Apache (RM 73.9)	Continuous flow	27.50 (20 - 35)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Jun-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings and site-specific observations.									
	5:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (60 - 60)	Visual	—	—	—	—	None
	19:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	60.00 (55 - 65)	Visual	—	—	—	—	None
	6:30	Rio Grande just upstream of the North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	55.00 (55 - 55)	Visual	—	—	—	—	None
	7:00	North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	35.00 (35 - 35)	Visual	—	—	—	—	3 pumps operating
	19:20	Rio Grande just upstream of the North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	50.00 (50 - 50)	Visual	—	—	—	—	None
	19:30	North Boundary Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	40.00 (40 - 40)	Visual	—	—	—	—	3 pumps operating
	6:00	Rio Grande at Bosque del Apache Headquarters (RM 78.75)	Continuous flow	42.50 (40 - 45)	Visual	—	—	—	—	None
	5:45	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	35.00 (35 - 35)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
13-Jun-2012		**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings and site-specific observations.								
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	57.50 (55 - 60)	Visual	—	—	—	—	None
	14:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	62.50 (60 - 65)	Visual	—	—	—	—	None
	5:38	North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	33.00 (33 - 33)	Visual	—	—	—	—	3 pumps operating; pump channel staff 0.80; impeller housing partially exposed.
	8:00	Rio Grande just upstream of the North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	47.50 (40 - 55)	Visual	—	—	—	—	None
	14:45	Rio Grande just upstream of the North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Continuous flow	57.50 (55 - 60)	Visual	—	—	—	—	None
	15:00	North Boundary of Bosque del Apache Refuge pump site (RM 84.2)	Pump operations	25.00 (25 - 25)	Visual	—	—	—	—	2 pumps operating.
	6:38	Rio Grande at Bosque del Apache Refuge Headquarters (RM 78.75)	Continuous flow	42.50 (40 - 45)	Visual	—	—	—	—	None
	6:58	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	35.00 (35 - 35)	Visual	—	—	—	—	None
	8:00	Rio Grande 750 ft upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
14-Jun-2012		**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings and site-specific observations.								
	14:18	Rio Grande at Otero Street (RM 99.2)	Continuous flow	150.00 (150 - 150)	Visual	—	—	—	—	None
	14:30	Rio Grande 1.0 miles upstream of Brown Arroyo (RM 95.1)	Continuous flow	150.00 (150 - 150)	Visual	—	—	—	—	None
	14:45	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow	150.00 (150 - 150)	Visual	—	—	—	—	None
	15:00	Rio Grande at Neil Cupp (RM 90.5)	Continuous flow	90.00 (80 - 100)	Visual	—	—	—	—	None
	6:00	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	57.50 (55 - 60)	Visual	—	—	—	—	None
	15:45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	62.00 (62 - 62)	Visual	—	—	—	—	None
	6:20	North Boundary Bosque del Apache pump site (RM 84.2)	Pump operations	27.50 (25 - 30)	Visual	—	—	—	—	2 pumps operating; pump channel staff = 0.71.
	6:30	Rio Grande just upstream of the North Boundary Bosque del Apache pump site (RM 84.2)	Continuous flow	45.00 (40 - 50)	Visual	—	—	—	—	None
	15:20	North Boundary Bosque del Apache pump site (RM 84.2)	Pump operations	35.00 (35 - 35)	Visual	—	—	—	—	2 pumps operating; channel staff = 0.68
	7:00	Rio Grande at Bosque del Apache Refuge Headquarters (RM 78.75)	Continuous flow	32.50 (30 - 35)	Visual	—	—	—	—	None
	7:45	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	16:30	Rio Grande at Bosque del Apache Refuge River Widening Site (RM 77)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	9:00	Rio Grande 750 ft. upstream of South Boundary Bosque del Apache Refuge (RM 73.9)	Continuous flow	17.50 (15 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24.57 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.57-mile segment extending south from RM 98.57 to South Boundary Bosque del Apache (RM 74.0). There was 0.35 miles of "new drying". Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach								
	13:00	Rio Grande 0.43 miles downstream of Otero Street (RM 98.57)	Top of river drying, including 0.35 miles of "new drying"	0.00 (0 - 0)	Visual	3769894	327050	—	—	None
	10:00	Rio Grande 3.12 miles upstream of Brown Arroyo (RM 97.6)	Top of river drying	0.00 (0 - 0)	Visual	3768666	327990	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
25-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.0-mile segment extending south from Otero Street, Socorro (RM 99.0) to South Boundary Bosque del Apache (RM 74.0). There was 0.41 miles of "new drying". Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	7:54	Rio Grande at Otero Street, Socorro (RM 99)	Top of river drying and 0.41 miles of "new drying"	0.00 (0 - 0)	Visual	3770405	326974	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 27.5 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 27.5-mile segment extending south from a point 2.25 miles downstream of Escondida (RM 101.5) to South Boundary Bosque del Apache (RM 74.0). There was 2.5 miles of "new drying". Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	5:30	Rio Grande at Escondida (RM 104.1)	Continuous flow	7.00 (7 - 7)	Visual	—	—	—	—	None
	6:00	Rio Grande at Diversion Channel North of Socorro (RM 102.6)	Continuous flow	5.00 (5 - 5)	Visual	—	—	—	—	None
	8:00	Rio Grande 2.25 miles downstream of Escondida (RM 101.5)	Top of river drying and 2.5 miles of "new drying"	0.00 (0 - 0)	Visual	3773739	327175	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
27-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 27.5 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 27.5-mile segment extending south from a point 2.25 miles downstream of Escondida (RM 101.5) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 2.25 miles downstream of Escondida (RM 101.5)	Top of river drying	0.00 (0 - 0)	Visual	3773739	327175	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 27.5 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 27.5-mile segment extending south from a point 2.25 miles downstream of Escondida (RM 101.5) to South Boundary Bosque del Apache (RM 74.0). This segment of the river has previously dried. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 2.25 miles downstream of Escondida (RM 101.5)	Top of river drying	0.00 (0 - 0)	Visual	3773739	327175	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
29-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 27.5 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 27.5-mile segment extending south from a point 2.25 miles downstream of Escondida (RM 101.5) to South Boundary Bosque del Apache (RM 74.0). This segment of the river has previously dried. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	9:00	Rio Grande 2.25 miles downstream of Escondida (RM 101.5)	Top of river drying. No change from previous day.	0.00 (0 - 0)	Visual	3773739	327175	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 29 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 29.0-mile segment extending south from a point 1.05 miles downstream of Escondida Bridge (RM 103.0) to South Boundary Bosque del Apache (RM 74.0). This includes 1.5 miles of "new drying". Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:00	Rio Grande 1.05 miles downstream of Escondida (RM 103)	Top of river drying. There has been 1.5 miles of "new drying" since yesterday.	0.00 (0 - 0)	Visual	3775568	326414	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813571	334416	Site not visited this date
31-Jul-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 21 mile segment in the San Acacia Reach. At 16:15 hrs, river is reduced to isolated pools over a 21.0-mile segment extending south from a point 1.0 mile upstream of Brown Arroyo (RM 95.0) to South Boundary Bosque del Apache (RM 74.0). This includes 8.0 miles of river rewetting. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	16:15	Rio Grande 1.0 mile upstream of Brown Arroyo (RM 95)	Top of river drying. There has been 8.0 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3765409	327710	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
	15:15	Rio Grande 2.0 miles downstream of South Boundary Bosque del Apache Refuge pump site (RM 72)	Continuous flow	15.00 (15 - 15)	Visual	—	—	—	—	None
	14:45	Rio Grande at San Marcial (RM 68.6)	Continuous flow	20.00 (20 - 20)	Visual	—	—	—	—	None
	14:03	Rio Grande just upstream of Ft. Craig pump site (RM 64.8)	Continuous flow	20.00 (20 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19 mile segment in the San Acacia Reach. At 13:38 hrs the river is reduced to isolated pools over a 19.0-mile segment extending south from a point 1.0 mile downstream of Brown Arroyo (RM 93.0) to South Boundary Bosque del Apache (RM 74.0). This includes 2.0 miles of river rewetting since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	10:30	Rio Grande at Otero Street, Socorro (RM 99.1)	Continuous flow	20.00 (20 - 20)	Visual	—	—	—	—	None
	11:30	Rio Grande 1.0 mile upstream of Brown Arroyo (RM 95)	Continuous flow	15.00 (15 - 15)	Visual	—	—	—	—	None
	12:00	Rio Grande at Brown Arroyo (RM 94)	Continuous flow	15.00 (15 - 15)	Visual	—	—	—	—	None
	8:00	Rio Grande 0.5 mile downstream of Brown Arroyo (RM 93.5)	Top of river drying. At this time, there has been 1.5 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3763384	327412	—	—	None
	13:38	Rio Grande 1.0 mile downstream of Brown Arroyo (RM 93)	Top of river drying. At this time, there has been 2.0 miles of river rewetting since yesterday.	0.00 (0 - 0)	Visual	3762823	327952	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not visited this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
02-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.5 mile segment in the San Acacia Reach. At 08:01 hrs the river is reduced to isolated pools over a 18.5-mile segment extending south from a point 1.5 miles downstream of Brown Arroyo (RM 92.5) to South Boundary Bosque del Apache (RM 74.0). This includes 0.5 miles of river rewetting since 13:38 hrs yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	12:00	Brown Arroyo at the Rio Grande (RM 94)	Irrigation discharge	30.00 (30 - 30)	Visual	—	—	—	—	None
	8:01	Rio Grande 1.5 miles downstream of Brown Arroyo (RM 92.5)	Top of river drying. At this time, there has been 0.5 miles of river rewetting since 13:38 hrs yesterday.	0.00 (0 - 0)	Visual	3762033	328087	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
03-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 19.0-mile segment extending south from a point 1.0 mile downstream of Brown Arroyo (RM 93.0) to South Boundary Bosque del Apache (RM 74.0). This includes 0.5 miles of river rewetting since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach								
	7:16	Rio Grande 1.0 mile downstream of Brown Arroyo (RM 93)	Top of river drying. Some 0.5 miles of river rewet since yesterday.	0.00 (0 - 0)	Visual	3762787	327893	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 28.3 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 28.3-mile segment extending south from a point 1.0 mile downstream of Brown Arroyo (RM 93.0) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	21:00	Rio Grande 1.5 miles downstream of Escondida Bridge (RM 102.3)	Top of drying. Some 9.3 miles of river dried since yesterday morning, all of which had dried previously this year.	0.00 (0 - 0)	Visual	3774641	326645	—	—	None
	7:00	Rio Grande 1.0 mile downstream of Brown Arroyo (RM 93)	Top of river drying	0.00 (0 - 0)	Visual	3762787	327893	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed today.
05-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.1 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.1-mile segment extending south from a point 1.0 mile downstream of Brown Arroyo (RM 93.0) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach. Some 15.2 miles of river have rewet since yesterday evening at 21:00 hrs.								
	3:00	Rio Grande at Escondida Bridge (RM 104.8)	Continuous flow	632.00 (632 - 632)	Visual	—	—	—	—	Estimated flow confirms USGS posting on internet
	6:00	Rio Grande at US 380 (RM 87.1)	Top of river drying. Some 15.2 miles of river have rewet since yesterday evening at 21:00 hrs.	0.00 (0 - 0)	Visual	3754727	328843	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
06-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 3 mile segment in the San Acacia Reach. At 16:00 hrs, the river was still rewetting. The location of top of drying for this day is in flux and will be approximated at the River Widening site on Bosque del Apache Refuge (RM 77). Bottom of drying is at South Boundary Bosque del Apache (RM 74.0). Total river dry in the San Acacia Reach is estimated to be 3.0 miles. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach. Some 10.0 miles of river have rewet since yesterday at 6:00 hrs.								
	23:59	Rio Grande at the River Widening site on Bosque del Apache Refuge (RM 77)	Top of river drying.	0.00 (0 - 0)	Visual	3737749	326222	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Persumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not visited this date
07-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 29 mile segment in the San Acacia Reach. At 02:00 hrs, the river is reduced to isolated pools over a 0.85-mile segment extending south from RM 74.85 to South Boundary Bosque del Apache (RM 74.0). By 21:30 hrs, the river is reduced to isolated pools over a 29.00-mile segment extending south from a point 1.04 miles downstream of Escondida (RM 103) to South Boundary Bosque del Apache (RM 74.0). Some 28.15 miles of river dried today. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	21:00	Rio Grande at Nine Mile Outfall (RM 105)	Continuous flow	5.00 (5 - 5)	Visual	—	—	—	—	None
	21:30	Rio grande 1.04 miles downstream of Escondida USGS gauge (RM 103)	Top of river drying. Some 28.15 miles of river dried since 02:30 hrs this date.	0.00 (0 - 0)	Visual	3775564	326414	—	—	None
	2:30	Rio Grande just upstream of South Boundary Bosque del Apache Refuge (RM 74.85)	Top of drying	0.00 (0 - 0)	Visual	3734923	323826	—	—	None
	2:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.11 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 30.11-mile segment extending south from a point approximately 200 feet downstream of Escondida Bridge (RM 104.11) to South Boundary Bosque del Apache (RM 74.0). This includes 1.11 miles of new drying. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	18:30	Rio Grande approximately 200 feet downstream of Escondida Bridge (RM 104.11)	Top of river drying. This point is 1.11 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3777118	326006	—	—	None
	6:00	Rio Grande 1.04 miles downstream of Escondida Bridge (RM 103)	Top of river drying.	0.00 (0 - 0)	Visual	3775567	326398	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not visited this date
09-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.4 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 30.4-mile segment extending south from the confluence of the Rio Grande with the Nine Mile Outfall (RM 104.4) to South Boundary Bosque del Apache (RM 74.0). This includes 0.29 miles of new drying. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	10:30	Rio Grande at Nine Mile Outfall (RM 104.4)	Top of river drying. This point is 0.29 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3777572	325991	—	—	None
	9:30	Rio Grande at USGS gauge at Escondida (RM 104.1)	Flow estimate.	0.00 (0 - 0)	Visual	—	—	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.79 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.79-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.79) to South Boundary Bosque del Apache (RM 74.0). This includes 1.39 miles of new drying. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	9:30	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.79)	Top of river drying. This point is 1.39 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new drying".	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	5:30	Rio Grande 0.21 miles upstream of Nine Mile Outfall (RM 104.6)	Top of river drying	0.00 (0 - 0)	Visual	3777786	326057	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
11-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 32.2 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 32.2-mile segment extending south from a point 1.48 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). This includes 0.41 miles of "new" drying. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	19:00	Rio Grande 1.48 miles upstream of Nine Mile Outfall (RM 106.2)	Top of river drying. This point is 0.41 miles upstream of the previous maximum extent of drying for the reach and therefore represents "new" drying.	0.00 (0 - 0)	Visual	3779800	326767	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 32.2 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 32.2-mile segment extending south from a point 1.48 miles upstream of Nine Mile Outfall (RM 106.2) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	12:00	Rio Grande 1.48 miles upstream of Nine Mile Outfall (RM 106.2)	Top of river drying	0.00 (0 - 0)	Visual	3779800	326767	—	—	No change since yesterday
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3813565	334405	Site not observed this date
13-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been 0.41 miles of river that have rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. There has been 0.41 miles of river that have rewet since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
14-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been no change since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	7:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
15-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been no change since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
16-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been no change since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been no change since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
18-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 31.97 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 31.97-mile segment extending south from a point 1.08 miles upstream of Nine Mile Outfall (RM 105.97) to South Boundary Bosque del Apache (RM 74.0). There has been no change since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	7:00	Rio Grande 1.08 miles upstream of Nine Mile Outfall (RM 105.97)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3779154	326781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not visited this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 25.00-mile segment extending south from Otero Street, Socorro (RM 99.0) to South Boundary Bosque del Apache (RM 74.0). Some 6.97 miles of river have rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande at Escondida (RM 104.2)	Continuous flow	10.00 (10 - 10)	Visual	—	—	—	—	None
	7:30	Socorro North Diversion Channel (RM 102.4)	Discharge estimate. High water mark suggests that recent flow was as high as 300 cfs.	25.00 (25 - 25)	Visual	—	—	—	—	None
	7:00	Rio Grande 3.2 miles downstream of Escondida (RM 101)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None
	6:00	Rio Grande at Otero Street, Socorro (RM 99)	Top of drying. River rapidly rewetting.	0.00 (0 - 0)	Visual	3770405	326974	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
20-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.8 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 30.8-mile segment extending south from a point 0.22 miles upstream of Nine Mile Outfall (RM 104.8) to South Boundary Bosque del Apache (RM 74.0). There has been 8.5 miles of river drying since yesterday afternoon. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	5:45	Rio Grande 0.22 miles upstream of Nine Mile Outfall (RM 104.8)	Top of river drying. There has been 8.5 miles of river drying since yesterday afternoon (the river rewet downstream to RM 96.3 [328081, 3766166] yesterday afternoon).	0.00 (0 - 0)	Visual	3777919	326070	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not visited this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
21-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 28.4 mile segment in the San Acacia Reach. The river is reduced to isolated pools over a 28.4-mile segment extending south from the diversion channel north of Socorro (RM 102.4) to South Boundary Bosque del Apache (RM 74.0). There has been 2.4 miles of river rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	6:30	Rio Grande at the diversion channel north of Socorro (RM 102.4)	Top of river drying. There has been 2.4 miles of river rewetting since yesterday afternoon.	0.00 (0 - 0)	Visual	3774656	326561	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
22-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 23.44 mile segment in the San Acacia Reach. At 10:30 hrs, the river is reduced to isolated pools over a 23.44-mile segment extending south from a point 4.3 miles downstream of the diversion channel north of Socorro (RM 97.44) to South Boundary Bosque del Apache (RM 74.0). At 10:30 hrs, there has been 4.96 miles of river rewet since yesterday. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach. Heavy precipitation is expected over portions of the San Acacia Reach today.								
	6:00	Rio Grande 1.21 miles downstream of the diversion channel north of Socorro (RM 101)	Top of river drying. There has been 2.4 miles of river rewetting since yesterday. The river is rapidly rewetting from this point (70 cfs) and is expected to rewet a large portion of the dry river channel downstream of this point today.	0.00 (0 - 0)	Visual	3773113	327703	—	—	None
	10:30	Rio Grande 4.3 miles downstream of the diversion channel north of Socorro (RM 97.44)	Top of river drying. There has been 4.96 miles of river rewetting since yesterday. The river is rapidly rewetting from this point (70 cfs) and is expected to rewet a large portion of the dry river channel downstream of this point today.	0.00 (0 - 0)	Visual	3768556	328008	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
23-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.05 mile segment in the San Acacia Reach. At 08:30 hrs the presumed top of river drying is just upstream of Neil Cupp pump site. The presumed bottom of river drying remains, for the moment, at the South Boundary Bosque del Apache pump channel (RM 74.0). This intermittent river segment is presumed to be 16.05 miles. There has been 10.95 miles of river that has rewet since yesterday. The river is rapidly rewetting at 08:30 hrs. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande at Neil Cupp pump site (RM 90.05)	Top of river drying. There has been 10.95 miles of river that has rewet since yesterday.	0.00 (0 - 0)	Visual	3758812	329027	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
24-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 10.1 mile segment in the San Acacia Reach. At 08:30 hrs the river is reduced to isolated pools over an unknown distance within the Bosque del Apache refuge. The presumed top of river drying is North Boundary Bosque del Apache Refuge (RM 84.1) based on the duration of the flood pulse at the USGS gauge upstream of Hwy 380. There has been 5.95 miles of river that has rewet since yesterday. The presumed bottom of river drying remains, for the moment, at the South Boundary Bosque del Apache pump channel (RM 74.0). The remaining intermittent river segment is presumed to be 10.1 miles. However, the river is rapidly rewetting at 08:30 hrs. Aside from this segment, the flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande at North Boundary Bosque del Apache Refuge (RM 84.1)	Presumed top of river drying. There has been 5.95 miles of river that has rewet since yesterday.	0.00 (0 - 0)	Visual	3749291	329081	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
25-Aug-2012	**General Comments:**	At 08:00 hrs the intermittent segment of the previous day is now presumed to have rewet. This presumption is based on the sudden rise in flow that began the previous evening (24-Aug-2012) and peaked about midnight. This suggests that about 10.1 miles of river rewet since yesterday morning.								
	3:15	Rio Grande at US 380 (RM 87.1)	continuous flow	62.50 (50 - 75)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Aug-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	7:00	Rio Grande at US 380 (RM 87.1)	Observation of continuous flow confirms USGS internet posting of flow.	37.00 (37 - 37)	Visual	—	—	—	—	None
	8:00	Rio Grande at River Widening site on Bosque del Apache Refuge (RM 77)	Continuous flow; no estimate of flow	NA	Not available/applicable	—	—	—	—	None
27-Aug-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	5:30	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow; no estimate of flow	NA	Not available/applicable	—	—	—	—	None
	6:00	Rio Grande at US 380 (RM 87.1)	Continuous flow	65.00 (65 - 65)	Visual	—	—	—	—	None
	6:45	Rio Grande at River Widening on Bosque del Apache Refuge (RM 77.2)	Continuous flow	45.00 (45 - 45)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Aug-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	5:30	Rio Grande at US 380 (RM 87.1)	Continuous flow	35.00 (35 - 35)	Visual	—	—	—	—	None
	6:30	Rio Grande at River Widening on Bosque del Apache Refuge (RM 77.2)	Continuous flow	NA	Not available/applicable	—	—	—	—	No flow estimate
	6:00	Rio Grande at Mid Bosque del Apache (RM 76.5)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	7:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	NA	Not available/applicable	—	—	—	—	No flow estimate
29-Aug-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	8:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	7.50 (5 - 10)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Aug-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	4:00	Rio Grande at Brown Arroyo (RM 94.1)	Continuous flow	20.00 (20 - 20)	Visual	---	---	---	---	None
	4:30	Rio Grande at Neil Cupp (RM 90.05)	Continuous flow	NA	Not available/applicable	---	---	---	---	No flow estimate
	5:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	20.00 (20 - 20)	Visual	---	---	---	---	None
	6:00	Rio Grande lateral to Bosque del Apache Refuge headquarters (RM 78.75)	Continuous flow	20.00 (20 - 20)	Visual	---	---	---	---	None
	7:00	Rio Grande at River Widening (RM 77)	Continuous flow	15.00 (15 - 15)	Visual	---	---	---	---	None
	8:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	5.00 (5 - 5)	Visual	---	---	---	---	None
31-Aug-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 3.2 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 3.2-mile segment extending south from the River Widening, site on Bosque del Apache Refuge (RM 77.2) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:45	Rio Grande at River Widening, Bosque del Apache Refuge (RM 77.2)	Top of river drying	0.00 (0 - 0)	Visual	3737944	326256	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Not available/applicable	---	---	3733282	322934	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.1 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.1-mile segment extending south from the Hwy 380 Bridge (RM 87.1) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	14:00	Rio Grande at Hwy 380 (RM 87.1)	Top of river drying. Some 9.9 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3754723	328900	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74; 322934, 3733282) (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Not available/applicable	—	—	3733282	322934	None
02-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 20 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 20-mile segment extending south from a point approximately 6.9 miles upstream of Hwy 380 Bridge (RM 94) to South Boundary Bosque del Apache (RM 74). Some 6.9 miles of river have dried in this segment since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	15:30	Rio Grande at 6.9 miles upstream of Hwy 380 Bridge (RM 94)	Top of river drying. Some 6.9 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3763994	327202	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
03-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 22.27 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 22.27-mile segment extending south from a point 2.47 miles downstream of Otero Street, Socorro (RM 96.27) to South Boundary Bosque del Apache (RM 74). Some 2.27 miles of river have dried in this segment since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	18:00	Rio Grande 2.47 miles downstream of Otero Street, Socorro (RM 96.27)	Top of river drying. Some 2.27 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3766975	327730	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
04-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 22.51 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 22.51-mile segment extending south from a point 2.23 miles downstream of Otero Street, Socorro (RM 96.51) to South Boundary Bosque del Apache (RM 74). Some 0.24 miles of river have dried in this segment since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:00	Rio Grande 2.23 miles downstream of Otero Street, Socorro (RM 96.51)	Top of river drying. Some 0.24 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3767379	327622	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
05-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.0 mile segment extending south from a point 1.00 mile downstream of Otero Street, Socorro (RM 98.0) to South Boundary Bosque del Apache (RM 74). Some 1.49 miles of river have dried in this segment since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:00	Rio Grande 1.00 mile downstream of Otero Street, Socorro (RM 98)	Top of river drying. Some 1.49 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3769209	327668	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
06-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.0 mile segment extending south from a point 1.00 mile downstream of Otero Street, Socorro (RM 98.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:30	Rio Grande 1.00 mile downstream of Otero Street, Socorro (RM 98)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3769209	327668	—	—	None
	11:45	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
	11:46	Rio Grande just downstream of South Boundary Bosque del Apache Refuge (RM 73.8)	Continuous flow	10.00 (10 - 10)	Visual	—	—	—	—	None
	12:05	Rio Grande 2.5 miles downstream of South Boundary Bosque del Apache Refuge (RM 71.5)	Continuous flow	20.00 (20 - 20)	Visual	—	—	—	—	None
	12:45	Rio Grande at San Marcial (RM 68.6)	Continuous flow	15.00 (15 - 15)	Visual	—	—	—	—	None
	13:30	Rio Grande at Ft. Craig (RM 64.8)	Continuous flow	15.00 (15 - 15)	Visual	—	—	—	—	None
	14:00	Rio Grande at White Gate (RM 58.7)	Continuous flow	20.00 (20 - 20)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24.6 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.6 mile segment extending south from a point 0.40 mile downstream of Otero Street, Socorro (RM 98.6) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	5:00	Rio Grande 0.40 mile downstream of Otero Street, Socorro (RM 98.6)	Top of river drying. Some 0.60 miles of river have dried at the "top of drying" since yesterday	0.00 (0 - 0)	Visual	3769937	327052	—	—	None
	6:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
	6:01	Pump channel at South Boundary Bosque del Apache Refuge (RM 74)	Three pumps running	25.00 (25 - 25)	Visual	—	—	—	—	None
	12:05	Rio Grande 2.5 miles downstream of South Boundary Bosque del Apache Refuge (RM 71.5)	Continuous flow	25.00 (25 - 25)	Visual	—	—	—	—	None
	6:15	Rio Grande at San Marcial (RM 68.6)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	7:15	Rio Grande 1.3 miles downstream of San Marcial (RM 67.3)	Continuous flow	27.50 (25 - 30)	Visual	—	—	—	—	None
	8:00	Rio Grande at Ft. Craig (RM 64.8)	Continuous flow	30.00 (30 - 30)	Visual	—	—	—	—	None
	8:30	Rio Grande at White Gate (RM 58.7)	Continuous flow	35.00 (35 - 35)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
08-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 29.9 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 29.9 mile segment extending south from a point 0.25 miles downstream of Escondida Bridge (RM 103.9) to South Boundary Bosque del Apache (RM 74). Some 5.3 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	12:17	Rio Grande 0.25 miles downstream of Escondida Bridge (RM 103.9)	Top of river drying. Some 5.3 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3776784	326031	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
09-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 29.9 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 29.9-mile segment extending south from a point 0.25 miles downstream of Escondida Bridge (RM 103.9) to South Boundary Bosque del Apache (RM 74). Some 5.3 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:45	Rio Grande 0.25 miles downstream of Escondida Bridge (RM 103.9)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3776784	326031	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.15 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 30.15 mile segment extending south from Escondida Bridge (RM 104.15) to South Boundary Bosque del Apache (RM 74). Some 0.25 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	5:30	Rio Grande at Escondida Bridge (RM 104.15)	Top of river drying. Some 0.25 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3777173	325970	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
11-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.15 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 30.15 mile segment extending south from Escondida Bridge (RM 104.15) to South Boundary Bosque del Apache (RM 74). No change since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach. Thomas Archdeacon (USFWS) reports the addition of storm water from Socorro's North Diversion Channel or from Escondida Drain Outfall that briefly rewet the river in the vicinity of river miles 95 to 99. This water input did not connect with other running-water river segments.								
	5:45	Rio Grande at Escondida Bridge (RM 104.15)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3777173	325970	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
12-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 30.42 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 30.42 mile segment extending south from Nine Mile Outfall (RM 104.42) to South Boundary Bosque del Apache (RM 74). Some 0.27 miles of river have dried at the "top of drying" since yesterday. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:00	Rio Grande at Nine Mile Outfall (RM 104.42)	Top of river drying. Some 0.27 miles of river have dried at the "top of drying" since yesterday.	0.00 (0 - 0)	Visual	3777603	326014	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
13-Sep-2012	**General Comments:**	Flow in the main river channel is believed to be continuous or will soon be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations. Some 30.42 miles of river have rewet in this reach of river since yesterday.								
	12:15	Rio Grande at San Acacia (RM 116.2)	Flow estimkate	900.00 (900 - 900)	Visual	—	—	—	—	USGS posted flows as high as 1700 cfs at 09:00 hrs.
	11:30	Socorro North Diversion Channel at I-25 (RM 102.39)	Flow estimate	150.00 (100 - 200)	Visual	—	—	—	—	None
	10:15	Brown Arroyo at I-25 (RM 96.8)	Flow estimate	2.50 (2 - 3)	Visual	—	—	—	—	Anticipate higher flow in the arroyo over the next several hours.
	14:00	Brown Arroyo at I-25 (RM 96.8)	Flow estimate	40.00 (40 - 40)	Visual	—	—	—	—	None
	0:00	San Pedro Arroyo near the Rio Grande (RM 87.1)	Flow estimate	500.00 (500 - 500)	Visual	—	—	—	—	Arroyo ran at this volume for a few hours.
	9:30	San Pedro Arroyo near the Rio Grande (RM 87.1)	Flow estimate	15.00 (15 - 15)	Visual	—	—	—	—	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
14-Sep-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	0:30	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	1000.00 (1000 - 1000)	Visual	---	---	---	---	None
	6:15	Rio Grande at San Marcial (RM 68.6)	Continuous flow	300.00 (300 - 300)	Visual	---	---	---	---	Flood pulse just arrived
15-Sep-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	10:30	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	NA	Not available/applicable	---	---	---	---	3 pumps are in operation
16-Sep-2012	**General Comments:** Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.									
	6:30	Rio Grande at Hwy 380 gauge (RM 87.4)	Continuous flow	160.00 (160 - 160)	Visual	---	---	---	---	None
	7:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow	NA	Not available/applicable	---	---	---	---	3 pumps are in operation

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
17-Sep-2012	**General Comments:**	Flow in the main river channel is believed to be continuous throughout the San Acacia Reach based on USGS internet postings of flow and field observations.								
	6:45	Rio Grande at Hwy 380 (RM 87.1)	Continuous flow	40.00 (40 - 40)	Visual	—	—	—	—	None
	5:30	Rio Grande lateral to Bosque del Apache Refuge headquarters (RM 78.75)	Continuous flow, no flow estimate	NA	Not available/applicable	—	—	—	—	None
	4:30	Rio Grande at River Widening (RM 77)	Continuous flow, no flow estimate	NA	Not available/applicable	—	—	—	—	None
	4:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Continuous flow, no flow estimate	NA	Not available/applicable	—	—	—	—	Note: 3 pumps are in operation.
18-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.1 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.1 mile segment extending south from Hwy 380 (RM 87.1) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:45	Rio Grande at Hwy 380 (RM 87.1)	Top of river drying. Flow in the river became disrupted within the past 1 or 2 hours.	0.00 (0 - 0)	Visual	3754715	328893	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Note: 3 pumps are in operation.

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
19-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.0 mile segment extending south from a point 0.11 miles downstream of Otero Street, Socorro (RM 99.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	15:00	Rio Grande 0.11 miles downstream of Otero Street, Socorro (RM 99)	Top of river drying. River is slowly rewetting.	0.00 (0 - 0)	Visual	3770400	326991	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
20-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24.2 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.2 mile segment extending south from a point 1.0 mile downstream of Otero Street, Socorro (RM 98.2) to South Boundary Bosque del Apache (RM 74). Since yesterday, some 0.8 miles of river have rewet at the "top of drying". Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:00	Rio Grande 1.0 mile downstream of Otero Street, Socorro (RM 98.2)	Top of river drying. Since yesterday, some 0.8 miles of river have rewet.	0.00 (0 - 0)	Visual	3769370	327509	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
21-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.0 mile segment extending south from a point 0.11 miles downstream of Otero Street, Socorro (RM 99.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:00	Rio Grande 0.11 miles downstream of Otero Street, Socorro (RM 99)	Top of river drying. Since yesterday, some 0.8 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3770400	326991	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 24.2 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 24.2 mile segment extending south from a point 1.0 mile downstream of Otero Street, Socorro (RM 98.2) to South Boundary Bosque del Apache (RM 74). Since yesterday, some 0.8 miles of river have rewet. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:00	Rio Grande 1.0 mile downstream of Otero Street, Socorro (RM 98.2)	Top of river drying. Since yesterday, some 0.8 miles of river have rewet.	0.00 (0 - 0)	Visual	3769370	327509	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
23-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	14:00	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. Since yesterday, 1.8 miles of river have dried.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	None
24-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
25-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	8:00	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
26-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
27-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:10	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge. (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.0 mile segment extending south from a point 0.78 miles upstream of Otero Street, Socorro (RM 100.0) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 0.78 miles upstream of Otero Street, Socorro (RM 100)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771756	327358	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
29-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.5 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.5 mile segment extending south from a point 1.29 miles upstream of Otero Street, Socorro (RM 100.5) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:30	Rio Grande 1.29 miles upstream of Otero Street, Socorro (RM 100.5)	Top of river drying. Since yesterday, some 0.5 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3772468	327697	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
30-Sep-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:30	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. Since yesterday, some 0.11 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
01-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	9:30	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
02-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:00	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
03-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	11:55	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
04-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	10:30	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
05-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
06-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:00	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	None

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
07-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	12:00	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
08-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:30	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3820041	335465	Site not observed this date
09-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
10-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	7:50	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3820041	335465	Site not observed this date
11-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:50	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
12-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 26.61 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 26.61 mile segment extending south from a point 1.4 miles upstream of Otero Street, Socorro (RM 100.61) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:50	Rio Grande 1.4 miles upstream of Otero Street, Socorro (RM 100.61)	Top of river drying. No change from yesterday.	0.00 (0 - 0)	Visual	3772633	327768	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
13-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25.49 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.49-mile segment extending south from a point 0.4 miles upstream of Otero Street, Socorro (RM 99.49) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach								
	10:00	Rio Grande 0.4 miles upstream of Otero Street, Socorro (RM 99.49)	Top of river drying. Since yesterday, some 1.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3771167	327121	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3733282	322934	Site not observed this date
14-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25.49 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.49-mile segment extending south from a point 0.4 miles upstream of Otero Street, Socorro (RM 99.49) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	14:00	Rio Grande 0.4 miles upstream of Otero Street, Socorro (RM 99.49)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771167	327121	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3733287	322934	None
15-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 25.49 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 25.49-mile segment extending south from a point 0.4 miles upstream of Otero Street, Socorro (RM 99.49) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:00	Rio Grande 0.4 miles upstream of Otero Street, Socorro (RM 99.49)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3771167	327121	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
16-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.4 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.4-mile segment extending south from a point 0.4 miles upstream of US-380 (RM 87.4) to South Boundary Bosque del Apache (RM 74). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	15:00	Rio Grande 100 feet downstream of USGS gauge near US-380 (RM 87.4)	Top of river drying. River is still rewetting. Some 12.09 miles of river have rewet since yesterday.	0.00 (0 - 0)	Visual	3755340	328886	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
17-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 11.72 mile segment in the San Acacia Reach. River is reduced to isolated pools over an 11.72-mile segment extending south from a point approximately 1.57 miles downstream of Hwy 380 (RM 85.72) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, some 1.68 miles of river rewet at the top of river drying. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:00	Rio Grande 1.57 miles downstream of Hwy 380 (RM 85.72)	Top of river drying. Since yesterday, 1.68 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3752326	329191	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3752326	329191	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
18-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 18.41 mile segment in the San Acacia Reach. River is reduced to isolated pools over an 18.41-mile segment extending south from a point approximately 4.85 miles upstream of Hwy 380 (RM 92.41) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, some 6.69 miles of river dried at the top of river drying. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:09	Rio Grande 4.85 miles upstream of Hwy 380 (RM 92.41)	Top of river drying. Since yesterday, 6.69 miles of river have dried at the "top of drying."	0.00 (0 - 0)	Visual	3762178	328266	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
19-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.09 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 19.09-mile segment extending south from a point approximately 0.78 miles downstream of Brown Arroyo (RM 93.09) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, some 0.68 miles of river dried at the top of river drying. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:30	Rio Grande 0.78 miles downstream of Brown Arroyo (RM 93.09)	Presumed top of river drying. Since yesterday, some 0.68 miles of river dried at the top of river drying.	0.00 (0 - 0)	Visual	3762942	327781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
20-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 19.09 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 19.09-mile segment extending south from a point approximately 0.78 miles downstream of Brown Arroyo (RM 93.09) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:30	Rio Grande 0.78 miles downstream of Brown Arroyo (RM 93.09)	Top of river drying.	0.00 (0 - 0)	Visual	3762942	327781	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
21-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 17.38 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 17.38-mile segment extending south from a point approximately 2.3 miles downstream of Brown Arroyo (RM 91.38) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 1.71 miles of river have rewet at the "top of drying" due to short-term water input from Brown Arroyo. Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	10:51	Rio Grande 2.3 miles downstream of Brown Arroyo (RM 91.38)	Top of river drying. Since yesterday, 1.71 miles of river have rewet at the "top of drying" due to short-term water input from Brown Arroyo.	0.00 (0 - 0)	Visual	3760635	328221	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
22-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 17.38 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 17.38-mile segment extending south from a point approximately 1.24 miles upstream of Neil Cupp pump site (RM 91.38) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:07	Rio Grande 1.24 miles upstream of Neil Cupp pump site (RM 91.38)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3760635	328221	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
23-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 17.38 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 17.38-mile segment extending south from a point approximately 1.24 miles upstream of Neil Cupp pump site (RM 91.38) to South Boundary Bosque del Apache (RM 74.0). Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:31	Rio Grande 1.24 miles upstream of Neil Cupp pump site (RM 91.38)	Top of river drying. No change since yesterday.	0.00 (0 - 0)	Visual	3760635	328221	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
24-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 16.04 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 16.04-mile segment extending south from Neil Cupp pump site (RM 90.04) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 1.34 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:30	Rio Grande at Neil Cupp pump site (RM 90.04)	Top of river drying. Since yesterday, 1.34 miles of river have rewet at the "top of drying." River is advancing downstream at time of observation.	0.00 (0 - 0)	Visual	3758810	328992	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
25-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 14 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 14.0-mile segment extending south from a point 0.8 miles upstream of Hwy 380 (RM 88.0) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 2.04 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:35	Rio Grande at 0.8 miles upstream of Hwy 380 (RM 88)	Top of river drying. Since yesterday, 2.04 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755998	328979	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
26-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.71 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.71-mile segment extending south from a point 0.71 miles upstream of Hwy 380 (RM 87.71) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.29 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande 0.71 miles upstream of Hwy 380 (RM 88)	Top of river drying. Since yesterday, 2.04 miles of river have rewet at the "top of drying."	20.00 (20 - 20)	Visual	3755838	328961	—	—	River is rewetting with an advancing flow of 20 cfs
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
27-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.68 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.68-mile segment extending south from a point 0.68 miles upstream of Hwy 380 (RM 87.68) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.03 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande 0.68 miles upstream of Hwy 380 (RM 87.68)	Top of river drying. Since yesterday, 0.03 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755794	328954	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
28-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.37 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.37-mile segment extending south from a point 0.37 miles upstream of Hwy 380 (RM 87.37) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.31 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	9:45	Rio Grande 0.37 miles upstream of Hwy 380 (RM 87.37)	Top of river drying. Since yesterday, 0.31 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755327	328893	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3733282	322934	Site not observed this date
29-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.32 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.32-mile segment extending south from a point 0.32 miles upstream of Hwy 380 (RM 87.32) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.05 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	7:50	Rio Grande 0.32 miles upstream of Hwy 380 (RM 87.32)	Top of river drying. Since yesterday, 0.05 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755242	328913	---	---	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	---	---	3733282	322934	Site not observed this date

San Acacia Reach

Date	Time	Location*	Observation	Estimated Flow (cfs) Avg (Range)	Flow Estimate Type	River Drying GIS Coordinates (UTM NAD 1983, Zone 13) Top (N - E)		Bottom (N - E)		Comments
30-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.2 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.2-mile segment extending south from a point 0.2 miles upstream of Hwy 380 (RM 87.2) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.12 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande 0.2 miles upstream of Hwy 380 (RM 87.2)	Top of river drying. Since yesterday, 0.12 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3755022	328961	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying	0.00 (0 - 0)	Visual	—	—	3733282	322934	Site not observed this date
31-Oct-2012	**General Comments:**	The river is dry or reduced to isolated pools over a 13.11 mile segment in the San Acacia Reach. River is reduced to isolated pools over a 13.11-mile segment extending south from a point 0.11 miles upstream of Hwy 380 (RM 87.11) to South Boundary Bosque del Apache (RM 74.0). Since yesterday, 0.09 miles of river have rewet at the "top of drying." Aside from this segment, flow in the main river channel is continuous in the San Acacia Reach.								
	8:30	Rio Grande 0.11 miles upstream of Hwy 380 (RM 87.11)	Top of river drying. Since yesterday, 0.09 miles of river have rewet at the "top of drying."	0.00 (0 - 0)	Visual	3754890	328941	—	—	None
	0:00	Rio Grande at South Boundary Bosque del Apache Refuge (RM 74)	Presumed bottom of river drying.	0.00 (0 - 0)	Visual	—	—	3813556	334406	Site not observed this date

* For reference, the Los Lunas Bridge over the Rio Grande (NM 49) is at river mile 161.4, the Los Chavez Wasteway is at river mile 156.0, the Peralta Wasteway is at river mile 152.5, and the Belen Bridge over the Rio Grande (NM 6) is at river mile 149.5, U.S. Highway 380 is at river mile 87.1, South Boundary Bosque del Apache Refuge pump channel is at river mile 74.0, and Fort Craig is at river mile 64.8.

APPENDIX C - MIDDLE RIO GRANDE 2012 PUMPING OPERATIONS

Bureau of Reclamation
Middle Rio Grande Pumping Operations - 2012

Pump Site	Month	Date	AM / PM	Number of Pumps Operating	Calculated Flow Estimate (cfs) *	Comment
Neil Cupp	April					
		13-Apr-2012	AM	0	0	None
		20-Apr-2012	AM	0	0	None
		27-Apr-2012	AM	0	0	None
Neil Cupp	May					
		07-May-2012	AM	0	0	None
		11-May-2012	AM	0	0	None
		14-May-2012	AM	0	0	None
		18-May-2012	AM	0	0	None
		21-May-2012	AM	2	14	Pumps were turned on 19-May-2012; Pumps will be turned off today
		23-May-2012	AM	0	0	None
		25-May-2012	AM	0	0	None
		29-May-2012	AM	1	11	Pump will be shut off today
Neil Cupp	June					
		01-Jun-2012	AM	0	0	None
		04-Jun-2012	AM	0	0	None
		06-Jun-2012	AM	0	0	None
		08-Jun-2012	AM	0	0	None
		11-Jun-2012	AM	0	0	None
		13-Jun-2012	AM	0	0	None
		15-Jun-2012	AM	0	0	None
		18-Jun-2012	AM	0	0	None
		20-Jun-2012	AM	0	0	None
		22-Jun-2012	AM	0	0	None
		25-Jun-2012	AM	0	0	None
		27-Jun-2012	AM	0	0	None
		27-Jun-2012	AM	0	0	None
		29-Jun-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
Neil Cupp	***July***					
		06-Jul-2012	AM	0	0	None
		06-Jul-2012	AM	0	0	None
		09-Jul-2012	AM	0	0	None
		11-Jul-2012	AM	0	0	None
		13-Jul-2012	AM	0	0	None
		20-Jul-2012	AM	0	0	None
		23-Jul-2012	AM	0	0	None
		25-Jul-2012	AM	0	0	None
		27-Jul-2012	AM	0	0	None
Neil Cupp	***August***					
		01-Aug-2012	AM	0	0	None
		03-Aug-2012	AM	0	0	None
		06-Aug-2012	AM	0	0	None
		08-Aug-2012	AM	0	0	None
		13-Aug-2012	AM	0	0	None
		15-Aug-2012	AM	0	0	None
		17-Aug-2012	AM	0	0	None
		20-Aug-2012	AM	0	0	None
		21-Aug-2012	AM	0	0	None
		22-Aug-2012	AM	0	0	None
		23-Aug-2012	AM	0	0	None
		23-Aug-2012	AM	0	0	None
		24-Aug-2012	AM	0	0	None
		27-Aug-2012	AM	0	0	None
		28-Aug-2012	AM	0	0	None
		29-Aug-2012	AM	0	0	None
		31-Aug-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
Neil Cupp	***September***					
		05-Sep-2012	AM	0	0	None
		07-Sep-2012	AM	0	0	None
		10-Sep-2012	AM	0	0	None
		12-Sep-2012	AM	0	0	None
		14-Sep-2012	AM	0	0	None
		17-Sep-2012	AM	0	0	None
		26-Sep-2012	AM	0	0	None
		28-Sep-2012	AM	0	0	None
Neil Cupp	***October***					
		01-Oct-2012	AM	0	0	None
		05-Oct-2012	AM	0	0	None
		09-Oct-2012	AM	0	0	None
		12-Oct-2012	AM	0	0	None
		15-Oct-2012	AM	0	0	None
		19-Oct-2012	AM	0	0	None
		22-Oct-2012	AM	0	0	None
		26-Oct-2012	AM	0	0	None
		31-Oct-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
North Boundary	***April***					
		13-Apr-2012	AM	0	0	None
		20-Apr-2012	AM	0	0	None
		27-Apr-2012	AM	0	0	None
North Boundary	***May***					
		07-May-2012	AM	0	0	None
		11-May-2012	AM	0	0	None
		14-May-2012	AM	0	0	None
		18-May-2012	AM	0	0	None
		21-May-2012	AM	2	14	Pumps were turned on 19-May-2012; Pumps will be turned off today
		23-May-2012	AM	0	0	NBB pumps will turn on if 380 gage =100 cfs
		25-May-2012	AM	2	14	2 pumps going to 3 pumps today.
		29-May-2012	AM	3	21	One pump will be shut off today
North Boundary	***June***					
		01-Jun-2012	AM	2	14	None
		04-Jun-2012	AM	2	14	None
		06-Jun-2012	AM	2	14	None
		08-Jun-2012	AM	3	21	None
		11-Jun-2012	AM	3	21	None
		13-Jun-2012	AM	3	21	Going to 2 pumps today
		15-Jun-2012	AM	2	14	Going to 1 pump today
		18-Jun-2012	AM	0	0	None
		20-Jun-2012	AM	0	0	None
		22-Jun-2012	AM	0	0	None
		25-Jun-2012	AM	0	0	None
		27-Jun-2012	AM	0	0	None
		27-Jun-2012	AM	0	0	None
		29-Jun-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
North Boundary	***July***					
		06-Jul-2012	AM	0	0	None
		06-Jul-2012	AM	0	0	None
		09-Jul-2012	AM	0	0	None
		11-Jul-2012	AM	0	0	None
		13-Jul-2012	AM	0	0	None
		20-Jul-2012	AM	0	0	None
		23-Jul-2012	AM	0	0	None
		25-Jul-2012	AM	0	0	None
		27-Jul-2012	AM	0	0	None
North Boundary	***August***					
		01-Aug-2012	AM	0	0	None
		03-Aug-2012	AM	0	0	None
		06-Aug-2012	AM	0	0	None
		08-Aug-2012	AM	0	0	None
		13-Aug-2012	AM	0	0	None
		15-Aug-2012	AM	0	0	None
		17-Aug-2012	AM	0	0	None
		20-Aug-2012	AM	0	0	None
		21-Aug-2012	AM	0	0	None
		22-Aug-2012	AM	0	0	None
		23-Aug-2012	AM	0	0	None
		23-Aug-2012	AM	0	0	None
		24-Aug-2012	AM	0	0	None
		27-Aug-2012	AM	0	0	None
		28-Aug-2012	AM	0	0	None
		29-Aug-2012	AM	0	0	None
		31-Aug-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
North Boundary	***September***					
		05-Sep-2012	AM	0	0	None
		07-Sep-2012	AM	0	0	None
		10-Sep-2012	AM	0	0	None
		12-Sep-2012	AM	0	0	None
		14-Sep-2012	AM	0	0	None
		17-Sep-2012	AM	0	0	None
		26-Sep-2012	AM	0	0	None
		28-Sep-2012	AM	0	0	None
North Boundary	***October***					
		01-Oct-2012	AM	0	0	None
		05-Oct-2012	AM	0	0	None
		09-Oct-2012	AM	0	0	None
		12-Oct-2012	AM	0	0	None
		15-Oct-2012	AM	0	0	None
		19-Oct-2012	AM	0	0	None
		22-Oct-2012	AM	0	0	None
		26-Oct-2012	AM	0	0	None
		31-Oct-2012	AM	0	0	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
South Boundary	***April***					
		13-Apr-2012	AM	0	0	None
		20-Apr-2012	AM	0	0	None
		27-Apr-2012	AM	0	0	None
South Boundary	***May***					
		07-May-2012	AM	0	0	None
		11-May-2012	AM	0	0	None
		14-May-2012	AM	0	0	None
		18-May-2012	AM	0	0	None
		21-May-2012	AM	0	0	None
		23-May-2012	AM	0	0	SBB pumps will turn on if San Marcial >50 cfs
		25-May-2012	AM	3	21	None
		29-May-2012	AM	4	28	None
South Boundary	***June***					
		01-Jun-2012	AM	4	28	None
		04-Jun-2012	AM	4	28	None
		06-Jun-2012	AM	4	28	None
		08-Jun-2012	AM	4	28	None
		11-Jun-2012	AM	4	28	None
		13-Jun-2012	AM	4	28	None
		15-Jun-2012	AM	4	28	None
		18-Jun-2012	AM	4	28	None
		20-Jun-2012	AM	4	28	None
		22-Jun-2012	AM	4	28	None
		25-Jun-2012	AM	4	28	None
		27-Jun-2012	AM	4	28	None
		27-Jun-2012	AM	4	28	None
		29-Jun-2012	AM	4	28	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
South Boundary	***July***					
		06-Jul-2012	AM	4	28	None
		06-Jul-2012	AM	4	28	None
		09-Jul-2012	AM	4	28	None
		11-Jul-2012	AM	4	28	None
		13-Jul-2012	AM	4	28	Going to 3 pumps today
		20-Jul-2012	AM	3	21	None
		23-Jul-2012	AM	3	21	None
		25-Jul-2012	AM	3	21	None
		27-Jul-2012	AM	3	21	None
South Boundary	***August***					
		01-Aug-2012	AM	3	21	None
		03-Aug-2012	AM	3	21	None
		06-Aug-2012	AM	3	21	None
		08-Aug-2012	AM	3	21	None
		13-Aug-2012	AM	3	21	None
		15-Aug-2012	AM	3	21	None
		17-Aug-2012	AM	3	21	None
		20-Aug-2012	AM	3	21	None
		21-Aug-2012	AM	3	21	None
		22-Aug-2012	AM	3	21	None
		23-Aug-2012	AM	3	21	None
		23-Aug-2012	AM	3	21	None
		24-Aug-2012	AM	3	21	None
		27-Aug-2012	AM	3	21	Will scale back the RPM's today
		28-Aug-2012	AM	3	21	None
		29-Aug-2012	AM	3	21	None
		31-Aug-2012	AM	3	21	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

Pump Site	*Month*	*Date*	*AM / PM*	*Number of Pumps Operating*	*Calculated Flow Estimate (cfs) **	*Comment*
South Boundary	***September***					
		05-Sep-2012	AM	3	21	None
		07-Sep-2012	AM	3	21	None
		10-Sep-2012	AM	3	21	None
		12-Sep-2012	AM	3	21	None
		14-Sep-2012	AM	3	21	None
		17-Sep-2012	AM	3	21	None
		26-Sep-2012	AM	3	21	None
		28-Sep-2012	AM	3	21	None
South Boundary	***October***					
		01-Oct-2012	AM	3	21	None
		05-Oct-2012	AM	3	21	None
		09-Oct-2012	AM	3	21	None
		12-Oct-2012	AM	3	21	None
		15-Oct-2012	AM	3	21	None
		19-Oct-2012	AM	3	21	None
		22-Oct-2012	AM	3	21	None
		26-Oct-2012	AM	3	21	None
		31-Oct-2012	AM	3	21	None

**** Flow is estimated by calculation. If only one pump is running, flow is the product of the number of pumps times 11 cfs. If more than one pump is running, flow is the product of the number of pumps times 7 cfs.***

APPENDIX D -
SPREADSHEET ACCOUNTS OF 2012 RIVEREYES OBSERVATIONS

June 2012 (San Acacia Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
San Acacia 116.2 (CFS)	116.0	176			184		171		194			186		##		157			130		##		83			68		114		54	
	115.5																														
	115.0																														
One Mile Stop 114.8	114.5																														
	114.0																														
	113.5																														
	113.0																														
	112.5																														
	112.0																														
	111.5																														
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	109.5																														
	109.0																														
	108.5																														
	108.0																														
	107.5																														
Lemitar Diversion 107.1	107.0																														
	106.5																														
	106.0																														
	105.5																														
LFCC Outfall (9 mile)	105.0																														
Escondida Br 104.8	104.5																														
	104.0																														
	103.5																														
	103.0																														
N. Socorro Div. Channel 102.5	102.5																														
	102.0																														
	101.5																														
Escondida Drain Outfall 101.1	101.0																														
	100.5																														
	100.0																														
	99.5																														
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Otero Street 99.2	99.0																														
	98.5																														
	98.0																														
	97.5																														
	97.0																														
	96.5																														
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Brown Arroyo 94.1	94.0																														
	93.5																														
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	92.0																														
	91.5																														
	91.0																														
Neil Cupp	90.5																														
	90.0																														
	89.5																														
	89.0																														
	88.5																														
	88.0																														
	87.5																														
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
San Antonio (U.S. 380) 87.1	87.0																														
	86.5																														
	86.0																														
	85.5																														
	85.0																														
	84.5																														
N BDA 84.2	84.0																														
	83.5																														
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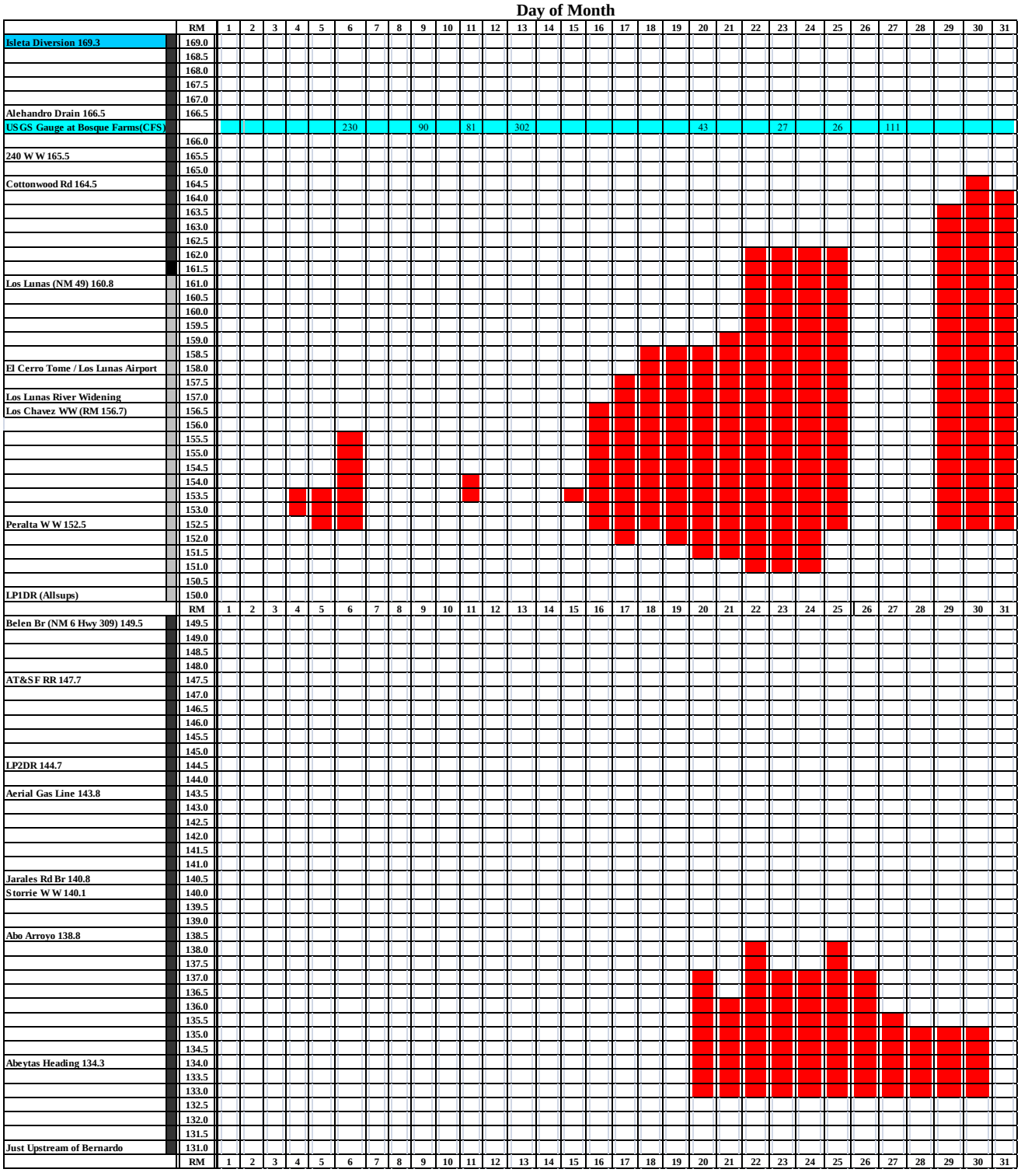
	82.5																														
	82.0																														
	81.5																														
	81.0																														
	80.5																														
	80.0																														
	79.5																														
	79.0																														
BDA HQ 78.75	78.5																														
	78.0																														
	77.5																														
	77.0																														
Mid BDA Pumps (Old Site)	76.5																														
	76.0																														
	75.5																														
	75.0																														
	74.5																														
S BDA	74.0																														

Note: Cells shaded ~~"red"~~ indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

July 2012 (Isleta Reach)



Note: Cells shaded ~~red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

July 2012 (San Acacia Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Acacia 116.2 (CFS)	116.0						338			301		61		305							42			19		8		8				
	115.5																															
	115.0																															
One Mile Stop 114.8	114.5																															
	114.0																															
	113.5																															
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	108.5																															
	108.0																															
	107.5																															
Lemitar Diversion 107.1	107.0																															
	106.5																															
	106.0																															
	105.5																															
LFCC Outfall (9 mile)	105.0																															
Escondida Br 104.8	104.5																															
	104.0																															
	103.5																															
	103.0																															
N. Socorro Div. Channel 102.5	102.5																															
	102.0																															
	101.5																															
Escondida Drain Outfall 101.1	101.0																															
	100.5																															
	100.0																															
	99.5																															
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Otero Street 99.2	99.0																															
	98.5																															
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Brown Arroyo 94.1	94.0																															
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	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Antonio (U.S. 380) 87.1	87.0																															
	86.5																															
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	84.5																															
N BDA 84.2	84.0																															
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BDA HQ 78.75	78.5																															
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Mid BDA Pumps (Old Site)	76.5																															
	76.0																															
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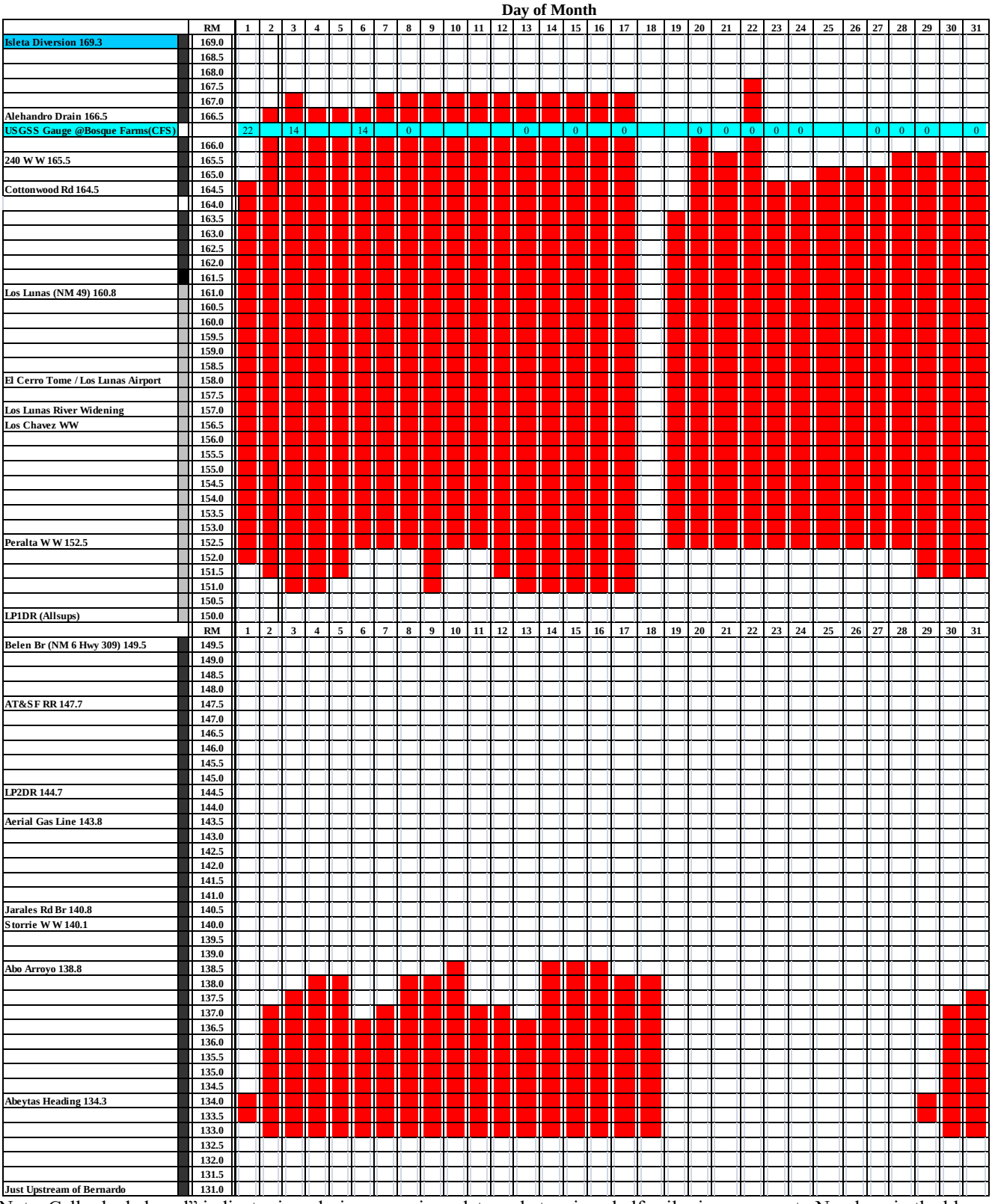
	74.5																															
S BDA	74.0																															

Note: Cells shaded ~~"red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

August 2012 (Isleta Reach)



Note: Cells shaded ~~red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

August 2012 (San Acacia Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Acacia 116.2 (CFS)	116.0	14		14			5		3					5		5		5			19	6	5	90	99			29	32	31		29
	115.5																															
	115.0																															
One Mile Stop 114.8	114.5																															
	114.0																															
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Lemitar Diversion 107.1	107.0																															
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LFCC Outfall (9 mile)	105.0																															
Escondida Br 104.8	104.5																															
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N. Socorro Div. Channel 102.5	102.5																															
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Escondida Drain Outfall 101.1	101.0																															
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Otero Street 99.2	99.0																															
	98.5																															
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	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Antonio (U.S. 380) 87.1	87.0																															
	86.5																															
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N BDA 84.2	84.0																															
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BDA HQ 78.75	78.5																															
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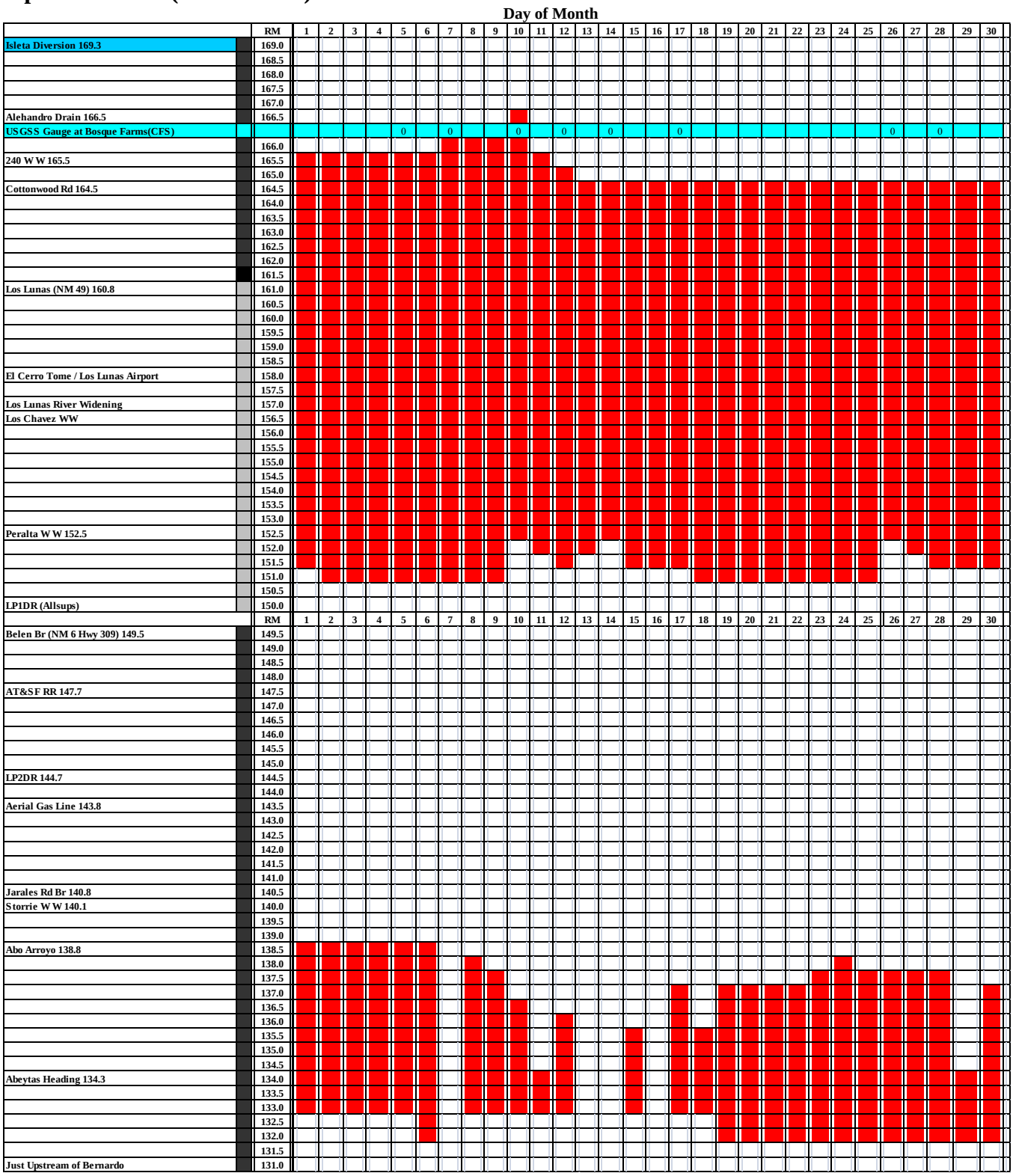
September 2012 (Isleta Reach)



Note: Cells shaded ~~"r~~ed" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

September 2012 (San Acacia Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
San Acacia 116.2 (CFS)	116.0					20		5			5		2		##			8									7		7		
	115.5																														
	115.0																														
One Mile Stop 114.8	114.5																														
	114.0																														
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	105.5																														
LFCC Outfall (9 mile)	105.0																														
Escondida Br 104.8	104.5																														
	104.0																														
	103.5																														
	103.0																														
N. Socorro Div. Channel 102.5	102.5																														
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Escondida Drain Outfall 101.1	101.0																														
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	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Otero Street 99.2	99.0																														
	98.5																														
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Brown Arroyo 94.1	94.0																														
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Neil Cupp	90.5																														
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	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
San Antonio (U.S. 380) 87.1	87.0																														
	86.5																														
	86.0																														
	85.5																														
	85.0																														
North Boundary pump channel	84.5																														
N BDA 84.2	84.0																														
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BDA HQ 78.75	78.5																														
	78.0																														
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	77.0																														
Mid BDA Pumps (Old Site)	76.5																														
	76.0																														
	75.5																														
	75.0																														
	74.5																														
S BDA	74.0																														

Note: Cells shaded ~~"red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

October 2012 (Isleta Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Isleta Diversion 169.3	169.0																															
	168.5																															
	168.0																															
	167.5																															
	167.0																															
Alehandro Drain 166.5	166.5																															
USGSS Gauge at Bosque Farms(CFS)		0				0				M			0			0				25			29				34					81
	166.0																															
240 W W 165.5	165.5																															
	165.0																															
Cottonwood Rd 164.5	164.5																															
	164.0																															
	163.5																															
	163.0																															
	162.5																															
	162.0																															
	161.5																															
Los Lunas (NM 49) 160.8	161.0																															
	160.5																															
	160.0																															
	159.5																															
	159.0																															
	158.5																															
El Cerro Tome / Los Lunas Airport	158.0																															
	157.5																															
Los Lunas River Widening	157.0																															
Los Chavez WW	156.5																															
	156.0																															
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	154.5																															
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	153.5																															
	153.0																															
Peralta W W 152.5	152.5																															
	152.0																															
	151.5																															
	151.0																															
	150.5																															
LP1DR (Allsups)	150.0																															
	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Belen Br (NM 6 Hwy 309) 149.5	149.5																															
	149.0																															
	148.5																															
	148.0																															
AT&SF RR 147.7	147.5																															
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	146.0																															
	145.5																															
	145.0																															
LP2DR 144.7	144.5																															
	144.0																															
Aerial Gas Line 143.8	143.5																															
	143.0																															
	142.5																															
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	141.0																															
Jarales Rd Br 140.8	140.5																															
Storrie W W 140.1	140.0																															
	139.5																															
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Abo Arroyo 138.8	138.5																															
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	134.5																															
Abeytas Heading 134.3	134.0																															
	133.5																															
	133.0																															
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	132.0																															
	131.5																															
Just Upstream of Bernardo	131.0																															

Note: Cells shaded ~~"red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

October 2012 (San Acacia Reach)

Day of Month

	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Acacia 116.2 (CFS)	116.0	7				8				8			8			##				7			12				19					28
	115.5																															
	115.0																															
One Mile Stop 114.8	114.5																															
	114.0																															
	113.5																															
	113.0																															
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	108.5																															
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	107.5																															
Lemitar Diversion 107.1	107.0																															
	106.5																															
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	105.5																															
LFCC Outfall (9 mile)	105.0																															
Escondida Br 104.8	104.5																															
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	103.0																															
N. Socorro Div. Channel 102.5	102.5																															
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Escondida Drain Outfall 101.1	101.0																															
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Otero Street 99.2	99.0																															
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Brown Arroyo 94.1	94.0																															
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	RM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
San Antonio (U.S. 380) 87.1	87.0																															
	86.5																															
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N BDA 84.2	84.0																															
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BDA HQ 78.75	78.5																															
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Mid BDA Pumps (Old Site)	76.5																															
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Note: Cells shaded ~~"red~~" indicate river drying on a given date and at a given half-mile river segment. Numbers in the blue-colored row are instantaneous estimates of flow at a given flow at the indicated gauge site as reported by the U.S. Army Corps of Engineers during morning water operations conference calls.

APPENDIX E - SAFETY DOCUMENTS

SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

PM Author Name (list other contributors):	Project Description:
Mike Hatch, Franchesca Lucero	River Drying Surveys

SECTION 1 HAZARD CONTROLS

Hazard Description	Hazard Controls
Vehicle Hazards (danger to driver and / or passenger / grass or brush fire	• Complete SWCA Daily Vehicle Inspection Log. Address any delinquent issues identified during inspection. Wear seatbelts. Drive defensively. Use lights & flashers when appropriate. While driving in rough terrain, stop vehicle, walk ahead of the vehicle for a short distance to identify hazards and look for areas to turn around, etc. Secure all loose objects in the passenger area or store in a separate storage area. Know the symptoms of fatigue. Take frequent breaks when driving long distances. Do not drive more than three hours without a break. • Park vehicles in locations that do not impede traffic flow. Back vehicles into parking slots when possible. Use spotter when the view of the parking area is obstructed. Do not breach berms or otherwise restricted roads. Do not park in arroyos or other areas prone to flash flooding when storms are likely. Follow the guidelines of "Tread Lightly." • Vehicles traveling on unimproved roads may accumulate excessive amounts of dry vegetation on the undercarriage, resulting in potential fire danger. To prevent this, field personnel will visually inspect the undercarriage of parked vehicles and remove vegetation when necessary. Field vehicles will also be parked in areas with sufficient vegetation clearance to prevent vehicle fires.
Carrying field equipment	Employees shall not carry objects greater than 40lbs. (or any other weight that could result in injury) or greater than 8 feet without the aid of a mechanical device or the assistance of another employee. Watch for uneven surfaces or objects on the ground. Wear gloves where potential pinch points occur or where objects are able to cut you. Use any other applicable Personal Protection Equipment
Loading Equipment on/off Vehicle	Employees will secure all loads in or on vehicles using ropes, tie-downs, tarps, bungee cords, or other appropriate securing materials to keep load/equipment from shifting or falling.
Hiking and Working Remotely	Let others know the general location of your field work. Carry tools in hand, facing downslope, so they can easily be discarded. Wear boots with non-skid soles. Make sure your footing is secure. Test each step. Be careful going downhill, especially after a long day. Try to keep one hand free while traversing up or down steep slopes. Wear appropriate footwear and clothing to ensure protection. If you fall, roll with the fall. Establish secure footing before taking the next step.
Blisters	Break in boots before field work! Steps on how to care for a blister: swab blister area with rubbing alcohol and let air dry. Sterilize a needle for 10 seconds in a flame. Puncture the edge of the blister near the skin. Apply gentle pressure to squeeze out fluid. Do not remove or rub off the top of the blister. Apply antibiotic ointment, but avoid alcohol or iodine. Cover with sterile gauze or bandage. Change the gauze or bandage daily. Cover the blister with a bandage.
Dense Vegetation (scratches from brush and trees, poison ivy or oak)	Be aware of potential hazards. Wear appropriate clothing to protect the skin. When moving through dense woody vegetation, always wear long sleeved shirt, long pants, closed toe shoes, safety glasses and gloves. Carry personal fist aid kits. Recognize hazardous vegetation and avoid contact. Apply Ivy Block to exposed skin repeatedly while in infested area. Dispose of covers/gloves safely. Decontaminate entire body. Apply Tecnu cream for two minutes then wash off with copious amounts of water.
Seasonal Allergies	Be aware of pollen count in survey area. Use preventative medicine with antihistamines to reduce hazard of environmental pollen. Carry an EpiPen if you are prone to allergies.
Insect Bites / Stings	DEET can be applied to either exposed skin or clothing. It should not be applied to skin that is covered by clothes. Do not apply insect repellent over cuts, wounds, or inflamed or eczematous skin. Under most circumstances of casual use, 10% - 35% DEET will provide adequate protection. In conditions where there is a rapid loss of repellent to the skin due to wash-off from rain, perspiration, or high ambient temperatures, periodic re-application is suggested. Use a bug net that covers exposed skin. If bitten, use antihistamines to control symptoms. Anyone who is allergic to bee stings should notify the group before going out in the field and should have an EpiPen on them at all times in the field. The sting of these insects is caused by the insects utilizing self-defense or defense of the nest response, so avoid all nests when possible. If a bee stings you, remove the stinger by scraping away the stinger sideways along the sting using a needle or credit card (do not squeeze with tweezers, it will cause more venom to come out).
Tick Bites	Use fine tweezers to grasp the tick as close to the skin surface as possible. Pull backwards gently but firmly, using an even, steady pressure. Do not jerk or twist. Do not squeeze, crush, or puncture the body of the tick, since its bodily fluids may contain infection-causing organisms. After removing the tick, wash the skin and hands thoroughly with soap and water. If any mouth parts of the tick remain in the skin, these should be left alone; they will be expelled on their own. Attempts to remove these parts may result in significant skin trauma. Seek medical attention should the bite become infected.

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SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

Snake Bites	When moving through tall grass or weeds, poke at the ground in front of you with a long stick to scare away snakes. Watch where you step and where you sit when outdoors. Wear loose, long pants and high, thick leather or rubber boots or gators. Shine a flashlight on your path when walking outside at night. Never handle a snake, even if you think it is dead. If bitten – Take off any jewelry or tight clothing near the bite quickly, before swelling starts. Lift the bitten arm or leg so it is level with your heart. Clean the bite wound. Be sure to wipe in the direction away from the wound. If you think the bite was from a poisonous snake, get to a hospital as soon as you can. If medical help is more than 30 minutes away, tie an elastic wrap two inches above the bite. The wrap should be loose enough to slip a finger underneath it. Do NOT bleed the wound. Do NOT try to suck the venom out of the wound. Do NOT put ice on the bite.
Bear Encounters	• Black bears: Never make eye contact. Make yourself look large, raise arms, make noise, and leave area slowly without turning your back. Never play dead, and fight back if attacked. • Grizzly bears: Never make eye contact. Make yourself look large, make noise, and leave area slowly without turning your back. If attacked, curl into fetal position and protect head and neck. Do not fight back.
Mountain Lions	Avoid working when mountain lions are most active—dawn, dusk, and at night. Do not approach a mountain lion. If you encounter a mountain lion, do not run; instead, face the animal, make noise and try to look bigger by waving your arms; throw rocks or other objects. If attacked, fight back. If you witness a mountain lion attacking someone, immediately call 911.
Crossing Water (arroyos, flash-floods, rivers and streams)	If thunderstorms and / or heavy rain occur, move immediately to higher ground and do NOT cross any arroyos or small streams. Be aware of storms in the mountains that may result in flash flooding in locations some distance from the storm center. Do not cross very fast flowing water; fast/moderately fast flowing – cross if less than just above the knee-deep and you can see/feel the bottom (use a stick); flowing slowly – cross if less than waist-deep, use a stick; deeper than waist – do not cross unless necessary. Find a shallow spot to cross, if you can't find a safe place and your life does not depend on you crossing, turn around and go back. Find a wrist-thick shoulder-height stick to test the water depth in front of you; can also be used as a support, enabling you to keep two points of contact with the river bottom at all times. Loosen your pack so you can get it off quickly if you fall. Face slightly upstream on an angle and sidestep- Don't cross your legs. If you're in a group. Hold onto each other and cross in a "conga line," angling upstream, with the weaker hikers in the middle.
Storm Conditions: lightning (electrocution)	Incorporate the 30/30 Rule 1. Employees should seek shelter if the "Flash-To-Bang" delay (length of time in seconds between a lightning flash and its subsequent thunder), is 30 seconds or less. 2. Remain under cover until 30 minutes after the final clap of thunder. If caught out in the open during a thunderstorm, crouch down and touch as little surface of the ground as possible on the lower part of a slope. Avoid standing by tall objects or under overhangs. Remove metal jewelry. If in a vehicle, avoid touching metal when exiting.
Wet Soil Conditions	Some soils are extremely hydric and, if saturated, can create conditions where off-road vehicles can become stuck – even with a small amount of precipitation. Driving in conditions like these can cause deep rutting in roads and may damage vegetation, leading to erosion or loss of habitat. Driving should be avoided in these conditions; however, walking in these conditions can also provide similar difficulties. Any work on or near cultural resource sites can leave deep footprints and may affect site features or integrity. In very wet conditions, fieldwork should be suspended for a day, or more, to avoid affecting cultural resource sites.
Rock Outcrops, cliffs, downed trees & steep drainages	Travel on the contour; do not attempt to scale or descend rock outcrops. Consider all rock outcrops unstable, and do not depend on them to support your weight. Test every step to uncover loose rocks, unstable soil, or slick surfaces. Cross with care; they may be slippery. Stepping on or straddling downed trees is best avoided. Grasp rooted brush to avoid uncontrolled slides.
Surveying cutbanks and cliffs	All field personnel must be mindful of cutbanks and friable soils. Even if a bank looks stable, it may be seriously undercut and additional pressure could cause mass cleavage and a slide/fall of the bank. Some banks may be up to 100feet in height. Vehicles should remain at least 25 feet from cutbank edge, and persons walking should remain several feet away from areas where mass wasting or other erosion factors are observable.
Endangered Species	With fieldwork, you must avoid nesting locations. Coordination must be made with appropriate governing agencies to be compliant while surveying.
Heavy Equipment	Employees will avoid all heavy drilling equipment. If heavy equipment is in the area, employees will leave the area.
Barbed Wire and Fence	Choose safe crossing points and techniques. If possible, team members should assist each other. Keep tetanus shots current. Be sure to wear appropriate leather gloves when handling barbed wire. Wear appropriate clothing to protect against punctures, cuts, and lacerations by wire or post. Use caution when crossing fence for trip hazards. Jump on bottom wire to determine if it is strong enough to support weight before climbing over it. Ensure the post is not in a position to impale or harm while crossing. Always wear gloves when handling a fence!
All Terrain Vehicles (ATV)	Prior to riding, all employees must complete SWCA's ATV training located on the Safety Portal. Complete SWCA Daily ATV Inspection Log. Wear proper PPE (a helmet is required). Do NOT carry passengers unless the ATV is designed to do so. Use extra caution if road or environmental conditions change. Be aware of your surroundings. Give special attention to terrain features such as roads, slopes, canals, ditches, blind intersections, trees, shrubs, other vehicles. Don't traverse a hill sideways, always climb straight up or straight down. However, if you are in a situation where you need to cross pitched terrain (having a distinct change in camber from one side of the vehicle to the other), always lean towards the upslope direction to avoid rollovers. If you're not sure of the trail conditions, be prepared for the worst and consider walking if feasible.

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SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

Working in unfamiliar areas (getting lost)	Employees should be aware of surroundings and should inform others of their destination for the day. Always carry matches/lighter, more water than you need for the day, signaling device (mirror, air horn, and whistle) and compass in your backpack. If you have no cell phone coverage, do not panic. Trace your thoughts back to the last point where you definitely knew your location, how long ago that was and in what general direction you traveled since then. Re-trace your original position before you got lost. If no success – create a physical or a sound signal. Insulate yourself and wait for help to arrive. Waypoint vehicle with GPS.
Heat Stress	Heat exhaustion is caused by the loss of large amounts of fluid by sweating, sometimes with excessive loss of salt. A worker suffering from heat exhaustion still sweats but experiences extreme weakness or fatigue, giddiness, nausea, or headache. In more serious cases, the victim may vomit or lose consciousness. The skin is clammy and moist, the complexion is pale or flushed, and the body temperature is normal or only slightly elevated. In most cases, a treatment involves having the victim rest in a cool place and drink plenty of liquids. Victims with mild cases of heat exhaustion usually recover spontaneously with this treatment. Those with severe cases may require extended care for several days. There are no known permanent effects. Wear sunscreen, hat, and sunglasses to help avoid heat stress.
Dehydration	Workers should drink 5 to 7 ounces of fluids every 15 to 20 minutes (1 gallon per person per day) to replenish the necessary fluids in the body. Include both water and electrolytes as needed. Signs of dehydration include thirst, lack of urination and concentrated color, dry mouth, lack of tears, no sweating, muscle cramps, and nausea and vomiting. Fluid replacements may be attempted by drinking frequent, small amounts of clear fluids.
Hypothermia	Hypothermia usually occurs gradually. Often, people are not aware that they need help, much less medical attention. Common signs to look for are shivering, which is your body's attempt to generate heat through muscle activity, and the "-umbels": stumbles, mumbles, fumbles, and grumbles. These behaviors may be a result of changes in consciousness and motor coordination caused by hypothermia. Other hypothermia symptoms may include slurred speech, abnormally slow rate of breathing, cold, pale skin, fatigue, lethargy, or apathy. The severity of hypothermia can vary, depending on how low your core body temperature goes. Severe hypothermia eventually leads to cardiac and respiratory failure, then death. Wear layers, and bring extra clothes. Keep head covered. Use hand/foot warmers as necessary.
Dangerous or Violent Individuals	Be conscious of potentially dangerous or violent individuals or groups. Do not confront or approach dangerous individuals. If employees feel threatened, they should call 911 and contact their Project Manager/Office Director immediately. Carry pepper spray, and know how to use it.
Solo Fieldwork	Solo fieldwork should be avoided wherever possible. Solo fieldworkers are responsible for preparing a fieldwork risk assessment and submitting it to their field supervisor. Ensure that you have fully appraised yourself of local hazards and risks, noting which areas of high risk to avoid. Identify the location of the local emergency services, telephones and nearest residences prior to start of your fieldwork including specific location, dates, and times must be left with a field supervisor who should have instructions to contact the emergency services in the event that an employee does not return within the allocated time.
Working in burned forest areas	Be aware of the dangers of burned trees which are now in danger of falling over and hitting/pinning you. If it's windy out, the likelihood of a tree falling over is increased. Be aware of hidden holes in the ash - areas where tree trunks used to be which have burned out and left a hole in the ground. The ash and sediment covers these holes loosely, so they appear to be solid ground when it is actually a large hole. Since such hazards are hard to detect, be extra cautious when walking around high frequency burn areas and use a walking stick to probe the ground ahead.
Crossing Jetty Jacks and tie-back lines	Choose safe crossing points and access points. Jetty jacks and tie-backs could be submerged in water and ground. Locate or identify jetty jacks and associated lines before wading into river or walking through dense vegetation and brush. Be prepared to wear appropriate gloves, pants, and boots when working near jetty jacks to avoid cuts and lacerations. Use caution when crossing jetty jacks and tie-backs as they are a tripping hazard.
Stray Dogs	Stay away from dogs. Do not run if confronted, back away slowly using a calm, low voice, and remain calm. Carry pepper spray and have it readily accessible. Make sure you know how to properly use pepper spray. Look for a defense weapon.
Horses	Maintain a safe distance from horses (10 feet minimum). Avoid foals and separating them from mothers.
Livestock, electric fencing in pasture areas	Ask farmer to confine livestock outside of the project area. Stay away from livestock. Avoid calves and separating them from their mothers. Avoid isolating one animal from the group. Never trust a bull. Know what electric fencing looks like. To determine if electricity is on hold place a long blade of grass on the fence to see if it snaps.
Fire Safety	Conform to local and regional fire control restrictions.
Hiking and Driving ATV in low light conditions	Do not drive ATV at speeds unsafe for the effective illumination distance of the ATV headlight beam. Cary headlight beam or flashlight to illuminate foot travel.
*Additional Hazard	

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SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

*Additional Hazard	
*Additional Hazard	
*Field Defined:	
*Field Defined:	
*Field Defined:	

*When a new hazard is encountered in the field: pause and add it to the JHA, communicate the hazard to the field crew, and if proper PPE is not at hand for new hazard, stop work, contact supervisor, and plan accordingly.

SECTION 2 PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS

Full-length pants, Boots above ankles. Waders or wading boots and booties if conducting flow measurements. A PFD should be worn for all river crossings.

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SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

SECTION 3 WORKERS COMPENSATION & EMERGENCY PROVIDER INFORMATION

Emergency Provider	Address	City	State & Zip	Telephone
Presbyterian Hospital	1100 Central Ave SE	Albuquerque	NM, 87106	505-841-1234

W/C Non-Emergency Provider	Address	City	State & Zip	Telephone
Concentra Urgent Care	3811 Commons Ave NE	Albuquerque	NM 87109	(505)345-9599

W/C Non-Emergency Provider	Address	City	State & Zip	Telephone

SECTION 4 ADDITIONAL PHONE NUMBERS

Highway Patrol	BLM/USFS Ranger	Emergency Towing Company	Police / Fire Department / Ambulance
1888-442-6677	(505) 761-8700	(505) 864-3030	505 864-6288 /505-864-4401/911

Poison Control	Hazardous Materials	Animal Control	Border Patrol
800-432-6866	911	505-861-1301	N/A

SECTION 5 SWCA EMERGENCY CONTACT INFORMATION

It is the Project Manager's responsibility to communicate any incidents to their supervisor and Principal, as well as properly document and report incidents to their OSR and SWCA safety department. When inter-department employees are used to conduct field work, it is the PM's additional responsibility to inform the employee's home-office Principal of any incidents. Employees involved in incidents should also maintain open communications with their supervisor to the degree permissible by HIPPA and OSHA.

	Name:	Phone:
Project Manager	Mike Hatch	**505-328-4419**
Field Supervisor	Greg Pargas	**505-506-1517**
Principal (Office Manager)	Joseph Fluder	**505-263-2862**
Office Safety Representative (OSR)	Alayne Syzmanski	**505-206-6654**
Safety Council	A member of a Safety Council is available 24 hours per day in the event of an emergency	**602-501-1816**
Medcor	3rd Party Call in Triage Medical Service	**1-800-775-5866**

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SWCA ENVIRONMENTAL CONSULTANTS

JOB HAZARD ANALYSIS FORM (JHA)

Project Name:	Project Manager:	Project Number:	Project Start Date:	Project Location:
River Eyes	Mike Hatch	17402	May-11	Middle Rio Grande, NM

SECTION 6 DAILY JHA TRACKING

- By signing and initialing this Section I confirm that I have read and understand the attached Job Hazard Analysis document (JHA) and Workers Comp provider information and that I will follow this guidance. I also understand that anyone can call a Safety Timeout at any time in order to ensure a safe work environment in the field When in doubt STOP, and make an informed decision involving the Field Supervisor and others.

- This document must be signed and initialed on the first day of the project and initialed each day thereafter while on the project. If needed, please use another sheet for additional signatures.

Project Number:	17042	Check One		Please initial for each day of the project							
Print Name	Signature	Crew	Supervisor	SU	MO	TU	WE	TH	FR	SA	Week Ending

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SWCA

DAILY SAFETY VEHICLE INSPECTION LOG

Contact your Project Office Safety Representative (OSR) for any vehicle collisions or citations while on the job

VEHICLE INFORMATION

VIN No: | WEEK ENDING:

PLATE | STATE: | OFFICE:

YEAR: | MAKE & MODEL: | COLOR:

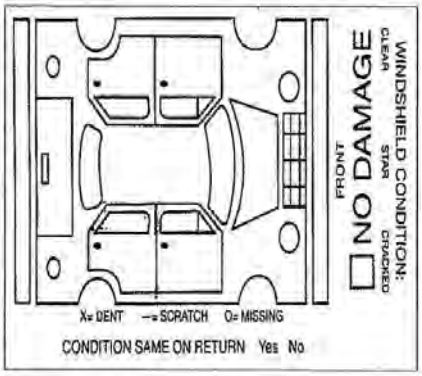
VEHICLE OWNER (√): ☐ PERSONAL ☐ SWCA ☐ RENTAL CONTRACT NUMBER:_____

VEHICLE CHECKLIST

Check appropriate item with the associated day
Any deficiencies must be listed at the bottom of the page

All vehicles in use shall be checked and documented at the beginning of each shift
All defects shall be corrected before the vehicle is placed into service

For fluid checks, see periodic checks below.	S	M	T	W	T	F	S
What is the recommended Pounds per Square Inch?	PSI =						
Are all tires inflated to the correct PSI?							
Is the tire tread in good condition for route?							
Are the tires free of gouges, blisters or defects?							
Do the high / low headlights work properly?							
Do the brake lights work properly?							
Do the reverse lights work properly?							
Do all (4) turn signal lights work properly?							
Other							
Does the horn work?							
Does the steering wheel rotate properly?							
Do the brakes & parking brake work properly?							
Do the windshield wipers work properly?							
Do you have an insurance / fleet card for the vehicle?							
Is there a copy of the current registration in the vehicle?							
Is a copy of the rental contract in the vehicle?							
Is there Vehicle Incident Reports (VIR) in the vehicle?							
Is a operators manual in the vehicle?							
Is there a emergency kit located in the vehicle?							
Is there a fire extinguisher in the vehicle (if required)?							
Is the load secure and evenly weighted?							
Are the straps or ropes in good condition?							
Is the hitch properly secure and the correct size?							
Is the trailer hitch latch secure?							
Are the Breakaway chains securely attached?							
Are the trailer lights working?							
Are electrical wires secure?							
Are the trailer tires safe?							



List both noticed and all damages, scratches, missing or nonworking items

REMINDERS:
Perform 360° vehicle walk around
Adjusted seat to appropriate position
Fasten seat belt
Adjust mirrors for a clear view

PERIODIC CHECKS:
Windshield Wiper Fluid (WEEKLY or SOONER)
Wiper Blades (WEEKLY or SOONER)
Spare Tire - Inflated and Functional (WEEKLY or SOONER)
Coolant (WEEKLY or SOONER)

PERIODIC CHECKS:
Motor Oil (WEEKLY OR EVERY 500 MILES)
Type (i.e. 10/30) _____
Transmission (ONCE A MONTH OR 2000 MILES)
Power Steering (ONCE A MONTH OR 2000 MILES)

DRIVER / MILEAGE LOG

	DRIVER - Print & Sign	Project / Task		Mileage	
SUN			/	Start	End
MON			/	Start	End
TUE			/	Start	End
WED			/	Start	End
THU			/	Start	End
FRI			/	Start	End
SAT			/	Start	End

If you are involved in an accident; provide copy of SWCA's fleet insurance card and direct other involved party's to contact us at: autoclaim@swca.com or by phone (602) 274-3831 ext. 1169. Do not discuss the accident with anyone except SWCA Management / Supervisors; Take Pictures if possible.

G:\Safety\2012 JHA & VIL_REQUEST FORM\Vehicle_Inspection_Log\Vehicle_Inspection_Log Printed 11/14/2012