

**WFO Midland, Texas**

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:

MONTH

**September**

YEAR

**2011**

SIGNATURE

**J. DeBerry**

In Charge of HSA

DATE

**October 15, 2011**

TO: Hydrometeorological Information Center, W/OH2  
NOAA / National Weather Service  
1325 East West Highway, Room 7230  
Silver Spring, MD 20910-3283

*When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924)*

An X inside this box indicates that no river flooding occurred within this hydrologic service area.

Rainfall continued to improved slightly over West Texas and Southeast New Mexico during September, but contributed little to alleviating long-term drought relief for the region. However, a few notable events occurred.

On September 14<sup>th</sup>, a cold front, coupled with southwest flow aloft and a surface trough, brought widespread showers and thunderstorms to the HSA. This event was the most widespread significant hydrologic event in almost a year. Mainstem rivers and tributaries came out of baseflow. The Rio Grande at Candelaria (CDET2) briefly went into moderate flood stage from rises upstream. Rises were also noted on the Rio Conchos and Alamito Creek. On the 17<sup>th</sup>, these rises translated downstream to Presidio, causing minor flooding at Presidio 6WNW (PIOT2), Presidio International Bridge (PRST2), and Presidio 5SE (PRDT2). Complimenting this flow was a large mesoscale convective system that developed over the Rio Conchos early on September 17<sup>th</sup>, near its confluence with the Rio Grande.

Precipitation amounts from area ASOS's:

City	ASOS ID	September	August
Carlsbad, NM	CNM	1.65"	0.14"
Fort Stockton	FST	0.69"	0.45"
Guadalupe Pass	GDP	0.87"	0.38"
Midland Int'l	MAF	1.59"	0.45"
Odessa	ODO	0.72"	1.25"
Terrell County	6R6	0.22"	0.01"
Wink	INK	0.64"	0.23"

Precipitation amounts from area AWOS:

City	ASOS ID	September	August
Alpine	E38	0.97"	0.62"
Artesia, NM	ATS	0.65"	0.14"
Big Spring	BGP	0.24"	0.30"
Gaines County	GNC	1.41"	0.00"

Marfa	MRF	1.24"	0.53"
Midland Airpark	MDD	0.69"	0.19"
Pecos	PEQ	0.40"	0.01"
Snyder	SNK	1.23"	0.39"

Some other locations in the HSA that received notable amounts of precipitation for September were:

Paduca, Eddy County 3.06"  
Tatum, Lea County 3.36"  
Caprock, Lea County 3.75"  
Hobbs, Lea County 4.12"

111 locations reported rainfall for the month of September, for an average of 1.21".

Normal September precipitation for Midland International Airport is 2.31". Total precipitation for Midland International Airport for the year ending October 1<sup>st</sup> was 2.20", or 9.38" below normal.

While rainfall improved somewhat during September, the drought continues. As of October 1<sup>st</sup>, all of Southeast New Mexico and most of West Texas were in exceptional drought. Eastern Jeff Davis, extreme southern Reeves, extreme northern Brewster, and southwestern Pecos Counties had improved to mere severe drought. A small area at the intersection of Crane, Pecos, and Upton Counties on the Pecos River had improved to extreme drought.

Reservoir levels across the HSA averaged 25% of conservation capacity as of October 1<sup>st</sup>.

Reservoir (County, State)	September Conserv Cap (%)	August Conserv Cap (%)
JB Thomas (Scurry, TX)	2	2
Colorado City (Mitchell, TX)	34	37
Champion Creek (Mitchell, TX)	11	14
Natural Dam Salt Lake (Howard, TX)	49	49
Moss Creek (Howard, TX)	50	60
Brantley (Eddy, NM)	15	18
Avalon (Eddy, NM)	36	36
Red Bluff (Reeves, TX)	3	11

**Non-Routine Products Issued for September:**

Flash Flood Watches (FFA): 0  
Flash Flood Warnings (FFW): 0  
Flash Flood Statements (FFS): 0  
Flood Warnings (FLW): 1  
Flood Statements (FLS): 16

**Total Non-Routine Products Issued: 17**

**cc: email: COE ABQ, HIC, IBWC ELP, IBWC PRD, LCRA, NWS ABQ, NWS EPZ, NWS LBB, NWS MAF, NWS SJT, SRH, TAMU, TCEQ, USGS CNM, USGS SJT, WGRFC**