

WFO Midland, Texas

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

September

YEAR

2015

SIGNATURE

J. DeBerry

In Charge of HSA

DATE

October 15, 2015

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.

The summer ridge began breaking down during September. During the first half of the month, abundant convective activity on both sides of the Rio Grande brought the river into flood from Candelaria to Presidio. The Rio Conchos also saw high flows.

On September 19th, isentropic lift tapped into a tropical atmospheric river running over the HSA, resulting in heavy rainfall in the Permian Basin. The city of Midland in Midland County was inundated with 3-4" of rainfall in under 2 hours, resulting in widespread flash flooding throughout the area. Over 60 high water rescues were noted. Otherwise, September closed out fairly uneventful.

Precipitation amounts from area ASOS's:

| City | ASOS ID | September | August |
|----------------|---------|-----------|--------|
| Carlsbad, NM | CNM | 3.14" | 0.47" |
| Fort Stockton | FST | 1.93" | 0.44" |
| Guadalupe Pass | GDP | 2.40" | 0.98" |
| Midland Int'l | MAF | 1.77" | 1.01" |
| Odessa | ODO | 1.06" | 1.04" |
| Terrell County | 6R6 | 0.00" | 0.18" |
| Wink | INK | 2.12" | 1.14" |

Precipitation amounts from area AWOS's:

| City | AWOS ID | September | August |
|-----------------|---------|-----------|--------|
| Alpine | E38 | 0.63" | 0.73" |
| Artesia, NM | ATS | 0.76" | 1.48" |
| Big Spring | BGP | 0.17" | 1.31" |
| Gaines County | GNC | 2.65" | 1.21" |
| Hobbs | HOB | 0.15" | 0.89" |
| Marfa | MRF | 1.44" | 2.01" |
| Midland Airpark | MDD | M | 0.21" |
| Pecos | PEQ | 1.07" | 1.01" |

| | | | |
|--------|-----|-------|-------|
| Snyder | SNK | 0.10" | 0.11" |
|--------|-----|-------|-------|

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

Van Horn, Culberson County 3.15"
 The Bowl, Culberson County 3.21"
 Big Lake, Reagan County 3.48"
 Seminole, Gaines County 3.56"

93 locations reported rainfall for the month of September, for an HSA average of 1.23".

Normal September precipitation for Midland International Air and Space Port is 1.86". Total precipitation for the airport for the year ending October 1st was 15.78", or 4.20" above normal.

West Texas and Southeast New Mexico remain mostly out of drought. As of September 29th, in Southeast New Mexico, extreme northwest Eddy County and northern Lea County were abnormally dry. The rest of Southeast New Mexico was normal. In West Texas, moderate drought had developed into southeast Mitchell and Terrell Counties. The rest of West Texas was either abnormally dry or out of drought altogether..

Reservoir levels across the HSA averaged 59.4% of conservation capacity as of October 1st:

| Reservoir (County, State) | September Conserv Cap (%) | August Conserv Cap (%) |
|------------------------------------|---------------------------|------------------------|
| JB Thomas (Scurry, TX) | 74.1 | 76.2 |
| Colorado City (Mitchell, TX) | 28.9 | 30.5 |
| Champion Creek (Mitchell, TX) | 13.0 | 13.8 |
| Natural Dam Salt Lake (Howard, TX) | 48.6 | 48.6 |
| Moss Creek (Howard, TX) | 72.0 | 81.0 |
| Brantley (Eddy, NM) | 50.0 | 100.0+ |
| Avalon (Eddy, NM) | 100.0+ | 100.0+ |
| Red Bluff (Reeves, TX) | 88.3 | 72.7 |

Non-Routine Products Issued for September:

Flash Flood Watches (FFA): 0
 Flash Flood Warnings (FFW): 2
 Flash Flood Statements (FFS): 1
 Flood Advisories/Statements (FLS): 25
Flood Warnings (FLW): 4

Total Non-Routine Products Issued: 32

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