

WFO Midland, Texas

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

September

YEAR

2020

SIGNATURE

J. DeBerry

In Charge of HSA

DATE

October 15, 2020

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.

September was relatively dry and uneventful for West Texas and Southeast New Mexico, except for the eastern fringes of the HSA, which accumulated enough rainfall to offset the lack of it elsewhere. The only other notable hydrologic activity was minor flooding on the Rio Grande during the first half of the month, mainly due to increased inflows from the Rio Conchos. The Rio Conchos watershed saw abundant rainfall due to remnants of a tropical system that moved inland earlier in the month.

Precipitation amounts from area ASOS's:

| City | ASOS ID | September | August |
|----------------|---------|-----------|--------|
| Carlsbad, NM | KCNM | 0.10" | 0.21" |
| Fort Stockton | KFST | 1.60" | T |
| Guadalupe Pass | KGDP | 0.58" | 0.53" |
| Midland Int'l | KMAF | 0.83" | 0.20" |
| Odessa | KODO | 0.01" | T |
| Terrell County | K6R6 | 0.41" | 0.01" |
| Wink | KINK | 0.17" | 0.02" |

Precipitation amounts from area AWOS's:

| City | AWOS ID | September | August |
|-----------------|---------|-----------|--------|
| Alpine | KE38 | 1.07" | 0.06" |
| Andrews County | KE11 | 0.37" | 0.14" |
| Artesia, NM | KATS | 0.02" | 0.36" |
| Big Spring | KBGP | 1.67" | 0.49" |
| Gaines County | KGNC | M | 0.00" |
| Hobbs, NM | KHOB | 0.42" | 0.61" |
| Marfa | KMRF | 1.35" | 0.19" |
| Midland Airpark | KMDD | 0.50" | 0.46" |
| Pecos | KPEQ | 0.47" | 0.20" |
| Presidio | KPRS | 2.18" | 0.01" |
| Snyder | KSNK | 1.97" | 1.39" |

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

| | |
|--------------------------------|-------|
| Gail, Borden County | 3.62" |
| Big Lake, Reagan County | 3.74" |
| Lees, Glasscock County | 4.79" |
| Colorado City, Mitchell County | 4.98" |

100 locations reported rainfall for the month of September, for an HSA average of 1.47".

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 6.84", or 4.74" below normal.

Due to little rainfall, as of September 24th, in Southeast New Mexico, extreme to severe drought had developed. In West Texas, exceptional drought remained over the Marfa Plateau. This was surrounded by extreme drought. Extreme drought had also expanded in parts of the Pecos River Valley and was encroaching into the western Permian Basin. Most of the rest of West Texas was in severe or moderate drought. Only the upper Colorado River valley was abnormally dry or out of drought.

Reservoir levels across the HSA averaged 39.0% of conservation capacity as of October 1st:

| Reservoir (County, State) | October 1 Conserv Cap (%) | September 1 Conserv Cap (%) |
|------------------------------------|----------------------------------|------------------------------------|
| JB Thomas (Scurry, TX) | 17.4 | 18.5 |
| Colorado City (Mitchell, TX) | 39.1 | 35.7 |
| Champion Creek (Mitchell, TX) | 61.3 | 60.0 |
| Natural Dam Salt Lake (Howard, TX) | 48.4 | 48.4 |
| Moss Creek (Howard, TX) | 56.0 | 57.0 |
| Brantley (Eddy, NM) | 16.0 | 28.0 |
| Avalon (Eddy, NM) | 26.0 | 26.0 |
| Red Bluff (Reeves, TX) | 47.9 | 50.0 |

Non-Routine Products Issued for September:

Flash Flood Watches (FFA): 0
Flash Flood Warnings (FFW): 0
Flash Flood Statements (FFS): 0
Flood Advisories/Statements (FLS): 20
Flood Warnings (FLW): 4

Total Non-Routine Products Issued: 24

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