

WFO Midland, Texas

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH **September** YEAR **2019**

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

SIGNATURE J. DeBerry
In Charge of HSA

DATE
October 15, 2019

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 synoptic pattern began transitioning to fall during September, and rainfall picked up significantly as a result. The heavier rainfall occurred during the latter half of the month.

On September 21st, thunderstorms northwest of Fort Stockton flooded FM 1776 with up to 2' of runoff.

The biggest event took place near the end of the month, when an atmospheric river of tropical moisture from Tropical Storm Narda resulted in heavy rainfall that produced flash flooding and river rises, mainly over Southeast New Mexico. On the 30th, high water rescues were performed in Eddy County from Lakewood south to Carlsbad. Nearly every low-water crossing in the county flooded. In Artesia, floodwaters made it to the doorways of several residents.

Due to locally heavy rainfall, the Rio Grande went into minor flood a couple of times in September.

Precipitation amounts from area ASOS's:

City	ASOS ID	September	August
Carlsbad, NM	KCNM	1.02"	T
Fort Stockton	KFST	2.97"	1.04"
Guadalupe Pass	KGDP	1.00"	0.40"
Midland Int'l	KMAF	1.01"	0.32"
Odessa	KODO	1.48"	0.10"
Terrell County	K6R6	1.32"	0.12"
Wink	KINK	0.46"	0.30"

Precipitation amounts from area AWOS's:

City	AWOS ID	September	August
Alpine	KE38	3.38"	0.98"
Andrews County	KE11	3.15"	1.09"
Artesia, NM	KATS	2.13"	0.34"
Big Spring	KBGP	M	M
Gaines County	KGNC	0.21"	0.16"

Hobbs, NM	KHOB	0.32"	0.00"
Marfa	KMRF	3.66"	M
Midland Airpark	KMDD	0.00"	0.02"
Pecos	KPEQ	0.44"	0.09"
Presidio	KPRS	2.86"	1.18"
Snyder	KSNK	1.98"	1.42"

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

Welch, Dawson County	4.80"
Tatum, Lea County	5.96"
Chisos Basin, Brewster County	6.51"
Mount Locke, Jeff Davis County	7.76"

103 locations reported rainfall for the month of September, for an HSA average of 2.06".

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 12.41", or 0.83" above normal.

As of September 26th, moderate drought was noted in Southeast New Mexico in northeast Eddy and central Lea Counties. The rest of Southeast New Mexico was either abnormally dry or out of drought. In West Texas, moderate drought covered portions of the Western Low Rolling Plains, eastern Permian Basin, and eastern Terrell County. The rest of West Texas was either abnormally dry or out of drought.

Reservoir levels across the HSA averaged 53.2% of conservation capacity as of October 1st:

Reservoir (County, State)	October 1 Conserv Cap (%)	September 1 Conserv Cap (%)
JB Thomas (Scurry, TX)	27.8	29.2
Colorado City (Mitchell, TX)	47.4	49.1
Champion Creek (Mitchell, TX)	68.7	69.6
Natural Dam Salt Lake (Howard, TX)	48.4	48.4
Moss Creek (Howard, TX)	76.0	70.0
Brantley (Eddy, NM)	47.0	38.0
Avalon (Eddy, NM)	51.0	45.0
Red Bluff (Reeves, TX)	59.6	60.5

Non-Routine Products Issued for September:

Flash Flood Watches (FFA): 4
Flash Flood Warnings (FFW): 5
Flash Flood Statements (FFS): 5
Flood Advisories/Statements (FLS): 42
Flood Warnings (FLW): 3

Total Non-Routine Products Issued: 59

**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**