

NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) WFO Midland, Texas
		MONTHLY REPORT OF HYDROLOGIC CONDITIONS
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		REPORT FOR: MONTH August YEAR 2017 SIGNATURE <u>J. DeBerry</u> In Charge of HSA DATE September 15, 2017

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.

August was near average in terms of rainfall and the synoptic pattern, which consisted mostly of the dominance of the summertime ridge. A few hydrological events were noted.

The month got off to a good start when thunderstorms developed in the Permian Basin on August 1st. Odessa in Ector County received over 3" of rainfall in some areas. Several high-water rescues were reported.

Activity remained mostly in rural areas until the 20th, when thunderstorms struck Carlsbad in Eddy County. Some roadways in town were inundated with 2-3' of runoff. Thunderstorms developed over Carlsbad again on August 25th, flooding multiple roadways near downtown with up to 1' of runoff.

The rest of the month saw very little rainfall, as the HSA was on the subsidence side of Hurricane Harvey.

Down on the border, thunderstorms and releases from Luis Leon Reservoir on the Rio Conchos in Mexico kept the Rio Grande in minor flood for most of the month.

Precipitation amounts from area ASOS's:

City	ASOS ID	August	July
Carlsbad, NM	CNM	4.57"	1.56"
Fort Stockton	FST	1.16"	1.74"
Guadalupe Pass	GDP	3.90"	1.77"
Midland Int'l	MAF	2.52"	1.48"
Odessa	ODO	2.72"	0.84"
Terrell County	6R6	3.28"	3.27"
Wink	INK	4.59"	1.21"

Precipitation amounts from area AWOS's:

City	AWOS ID	August	July
Alpine	E38	1.52"	2.63"
Artesia, NM	ATS	0.86"	0.76"

Big Spring	BGP	1.79"	0.08"
Gaines County	GNC	2.40"	1.87"
Hobbs	HOB	0.82"	1.41"
Marfa	MRF	2.17"	2.42"
Midland Airpark	MDD	1.60"	0.23"
Pecos	PEQ	1.81"	0.61"
Presidio	PRS	1.37"	4.10"
Snyder	SNK	1.77"	0.11"

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

K-Bar Ranch, Ector County 5.27"
Tatum, Lea County 5.75"
Nadine, Lea County 5.81"
Mount Locke, Jeff Davis County 5.86"

101 locations reported rainfall for the month of August, for an HSA average of 2.85".

Normal August precipitation for Midland International Air and Space Port is 1.84". Total precipitation for the airport for the year ending September 1st was 12.74", or 3.01" above normal.

Due to August rain, all of Southeast New Mexico and West Texas are out of drought.

Reservoir levels across the HSA averaged 54.9% of conservation capacity as of September 1st:

Reservoir (County, State)	September 1 Conserv Cap (%)	August 1 Conserv Cap (%)
JB Thomas (Scurry, TX)	54.2	55.5
Colorado City (Mitchell, TX)	44.0	44.3
Champion Creek (Mitchell, TX)	49.8	50.4
Moss Creek (Howard, TX)	69.0	60.0
Brantley (Eddy, NM)	57.0	50.0
Avalon (Eddy, NM)	41.0	36.0
Red Bluff (Reeves, TX)	69.3	69.2

Non-Routine Products Issued for August:

Flash Flood Watches (FFA): 5
Flash Flood Warnings (FFW): 7
Flash Flood Statements (FFS): 5
Flood Advisories/Statements (FLS): 121
Flood Warnings (FLW): 11

Total Non-Routine Products Issued: 149

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