

NWS FORM E-5 <small>(11-88)</small> <small>(PRES. by NWS Instruction 10-924)</small>	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		REPORT FOR: MONTH YEAR August 2008
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		SIGNATURE Chris Daniels for Lora J Mueller _____ In Charge of HSA DATE

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.

During the month of August, much needed rainfall fell across the Permian Basin and the Davis Mountains while other areas in the Midland Hydrological Service Area (HSA) received lower amounts. A remnant vorticity max of tropical system Dolly tracked westward across West Texas on August 2nd, increasing lift across the area. Scattered showers and thunderstorms developed over the Permian Basin and the Upper Trans Pecos bringing widespread half an inch amounts with isolated areas receiving up to one inch of rainfall. On August 7th and 8th, the remnants of tropical storm Edouard moved across the northern Permian Basin. Most areas in the Permian Basin received less than half an inch of rainfall with isolated areas over the northern Permian Basin approaching one inch. On August 12th and 13th, a cold front slowly moved across West Texas. Heavy rainfall fell across the Permian Basin, Trans Pecos and the Davis mountains during this period. Isolated areas across the eastern and northern Permian Basin received up to two and a half inches of rainfall. On August 17th through the 20th and upper level low over Colorado slowly moved southeast toward the Texas panhandle bringing heavy rainfall to Permian Basin, Upper Trans Pecos and the Davis Mountains. One to two inch totals over most of the Permian Basin were common during this time period with isolated higher amounts. Orographic lifting combined with abundant moisture aided in the development of scattered showers and thunderstorms over the Davis Mountains throughout much of the month of August. Overall, the Permian Basin and the Davis Mountains received the highest rainfall accumulations through the Month with other areas receiving less rainfall.

Midland International Airport 2.42 inches of rainfall, which is 1.77 inches above the monthly average. After a below normal month in July, August was well above normal which brought drought relief to many areas. The yearly rainfall total is now up to 6.24 inches, which is still 3.18 inches below the normal value of 9.42 inches.

Precipitation amounts from area ASOS:

City	ASOS ID	August	July
Carlsbad, NM	CNM	1.54 inches	3.23 inches
Fort Stockton	FST	0.43 inches	1.21 inches
Guadalupe Pass	GDP	1.37 inches	3.24 inches
Midland Int'l	MAF	2.42 inches	0.70 inches
Odessa	ODO	3.39 inches	0.31 inches
Terrell County	6R6	1.26 inches	2.20 inches
Wink	INK	1.27 inches	1.58 inches

Precipitation amounts from area AWOS:

City	ASOS ID	August	July
Alpine	E38	5.06 inches	2.88 inches
Artesia, NM	ATS	1.00 inches	1.95 inches
Big Spring	BGP	1.74 inches	0.24 inches
Gaines County	GNC	0.70 inches	0.02 inches
Marfa	MRF	4.47 inches	2.17 inches
Midland Airpark	MDD	0.42 inches	0.03 inches
Pecos	PEQ	0.53 inches	0.63 inches
Snyder	SNK	0.21 inches	0.00 inches

Average reservoir levels across the HSA averaged 41% of conservation capacity at the end of August.

Reservoir (County, State)	August Conserv Cap (%)	July Conserv Cap (%)
JB Thomas (Scurry, TX)	8	8
Colorado City (Mitchell, TX)	76	77
Champion Creek (Mitchell, TX)	25	4
Natural Dam Salt Lake (Howard, TX)	49	N/A
Moss Creek (Howard, TX)	24	35
Brantley (Eddy, NM)	81	64
Avalon (Eddy, NM)	N/A	36
Red Bluff (Reeves, TX)	22	24

Products Issued for May:

Flash Flood Watches: 22
Flash Flood Warnings: 6
Flash Flood Statements: 8
Flood Warnings: 13
Flood Statements: 43
Hydrologic Statements (RVSMAF): 50
Drought Statements: 2
Hydrologic Outlooks (ESFMAF):

Total Products Issued: 144

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