

<b>NWS FORM E-5</b> (11-88) (PRES. by NWS Instruction 10-924)	<b>U.S. DEPARTMENT OF COMMERCE</b> <b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</b> <b>NATIONAL WEATHER SERVICE</b>	HYDROLOGIC SERVICE AREA (HSA) <b>WFO Midland, Texas</b>
	<b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>	REPORT FOR: MONTH <b>May</b> YEAR <b>2014</b>
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283	SIGNATURE <b>J. DeBerry</b> In Charge of HSA	DATE <b>June 15, 2014</b>

*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.

Synoptic patterns favoring rainfall developed during the latter half of May, notably with a large, stationary trough that developed over the desert southwest. On May 22, convection developed over Eddy County, flash flooding Dark Canyon Road with up to 5' of runoff.

On the 23<sup>rd</sup>, thunderstorms developed over the Western Low Rolling Plains, flooding streets in Snyder in Scurry County with 6-8" of runoff. Later that night, a rare training supercell event developed over Carlsbad in Eddy County, dumping an over (estimated) 5" of rainfall north of Carlsbad. Dark Canyon also received a few inches of rainfall, and high water rescues were needed at the mouth of the canyon on the morning of the 24<sup>th</sup>.

Later that afternoon on May 24<sup>th</sup>, the focus shifted to the lower Trans Pecos, where radar estimates that between 5-8" of rain fell in the Independence Creek watershed from training supercells. This briefly pushed Independence Creek into moderate flood, and partially eroded State Hwy 349 near the Independence Creek bridge.

Convection redeveloped on the morning of the 25<sup>th</sup> over the Western Low Rolling Plains, Permian Basin, and Stockton Plateau. Flash flooding was reported in Odessa in Ector County and Midland in Midland County, where vehicles were abandoned in 2-3' of runoff in places. Water over roadways was also reported in Bakersfield in Pecos County and near Knott in Martin County.

On May 28<sup>th</sup>, the upper trough passed north of the region, bringing an end to this event. However, amid the departing severe and tornadic activity, one storm managed to flash flood areas near Big Spring in Howard County, with up to 2' of runoff covering some roads.

Precipitation amounts from area ASOS's:

City	ASOS ID	May	April
Carlsbad, NM	CNM	0.64"	0.63"
Fort Stockton	FST	0.06"	0.60"
Guadalupe Pass	GDP	0.04"	0.06"
Midland Int'l	MAF	2.26"	0.45"
Odessa	ODO	0.20"	0.44"
Terrell County	6R6	0.30"	0.34"
Wink	INK	0.43"	0.45"

Precipitation amounts from area AWOS's:

City	AWOS ID	May	April
Alpine	E38	0.05"	0.15"
Artesia, NM	ATS	0.19"	0.28"
Big Spring	BGP	1.73"	0.07"
Gaines County	GNC	0.80"	0.44"
Hobbs	HOB	0.03"	0.03"
Marfa	MRF	0.46"	0.10"
Midland Airpark	MDD	1.20"	0.22"
Pecos	PEQ	0.01"	1.06"
Snyder	SNK	3.45"	0.13"

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

Cope Ranch, Reagan County	2.91"
Bakersfield, Pecos County	3.46"
Tatum, Lea County	4.12"
Big Lake, Reagan County	5.20"

92 locations reported rainfall for the month of May, for an average of 1.23".

Normal May precipitation for Midland International Airport is 1.75". Total precipitation for Midland International Airport for 2014 ending June 1<sup>st</sup> was 3.16", or 1.10" below normal.

Despite May's welcome rainfall, drought conditions have not budged much over the past month over West Texas and Southeast New Mexico. As of May 27<sup>th</sup>, in Southeast New Mexico, extreme northwest Eddy County remained in extreme drought. Northwest Eddy and northeast Lea Counties remained in severe drought. The rest of Southeast New Mexico ranged from moderate drought to abnormally dry. Conditions improved slightly over West Texas. Extreme drought remained only in northern Scurry County. Severe drought covered much of the rest of the Western Low Rolling Plains and Permian Basin, as well as parts of the Alamito and Terlingua Creek watersheds. The rest of West Texas ranged from moderate to no drought.

Reservoir levels across the HSA averaged 41.1% of conservation capacity as of June 1<sup>st</sup>:

Reservoir (County, State)	May Conserv Cap (%)	April Conserv Cap (%)
JB Thomas (Scurry, TX)	1.1	0.9
Colorado City (Mitchell, TX)	25.8	24.9
Champion Creek (Mitchell, TX)	7.2	6.4
Natural Dam Salt Lake (Howard, TX)	48.6	48.6
Moss Creek (Howard, TX)	80.0	74.0
Brantley (Eddy, NM)	81.0	48.0
Avalon (Eddy, NM)	31.0	109.0
Red Bluff (Reeves, TX)	53.8	45.1

**Non-Routine Products Issued for May:**

Flash Flood Watches (FFA): 9

Flash Flood Warnings (FFW): 17

Flash Flood Statements (FFS): 6

Flood Warnings (FLW): 2

Flood Advisories/Statements (FLS): 31

**Total Non-Routine Products Issued: 65**

**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**