

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	REPORT FOR: MONTH May YEAR 2015
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 June 15, 2015

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.

May got off to a good start, with the synoptic pattern sending upper-level troughs through West Texas and Southeast New Mexico every few days, and the dryline developing often.

On May 4th, an upper trough passed to the northwest of the HSA, sharpening a dryline over the western mountains, along which convection developed during the afternoon. These storms then moved east into the evening and into the 5th. Heavy rainfall flooded roadways in the vicinity of Seagraves in Gaines County, stranding several vehicles. Further south, portions of Interstate 10 in Fort Stockton were inundated with up to 2' of runoff. Heavy rain further west over Carlsbad in Eddy County closed several roads there. This convection then moved east, spawning minor flash-flooding over several counties in the Western Low Rolling Plains. The RAWs station at Gail in Borden County measured 8.02" from the event, while Q2 estimates of up to 10-14" were noted in eastern Dawson/western Borden County. All of this translated into inflow into the Lake J.B. Thomas reservoir, which reached 76% of conservation capacity by the end of the month. This is the most water J.B. Thomas has held since the 1960s.

Precipitation was relatively abundant along the Rio Grande during the month, as well. On May 13th, thunderstorms developed in the vicinity of Candelaria, briefly pushing the Rio Grande there into minor flood.

On the evening of the 16th, thunderstorms trained along a stationary dryline over Iraan in Pecos County. Up to 1.5' of runoff covered streets in Iraan. Highways west and south of town also flooded.

On May 18th, a long-lived supercell formed near Cuyanosa in Pecos county, where MPE amounts of over 6" of rainfall in 4 hours were recorded. The mesonet rain gage at Cuyanosa recorded over 3" in 30 minutes. Area roadways flooded with up to 4' of runoff, washing several vehicles of the road. The Pecos River at Grandfalls (PGFT2) rose over 6.5' to nearly 13'.

On the 23rd, thunderstorms developed over the Permian Basin, flash flooding several roadways in and around Midland in Midland County.

On May 25th, thunderstorms redeveloped over the Permian Basin, only a little more widespread. Roadways in Big Spring in Howard County flooded with up to 3' of runoff, while some roadways in Midland in Midland County saw 1-2' of runoff.

On the evening of the 27th, thunderstorms developed near Fort Stockton in Pecos County, flooding low spots with up to 3' of runoff.

On the afternoon of May 28th, thunderstorms trained through the Permian Basin. ½' to 1' of water covered low-lying roadways in Odessa in Ector County.

Precipitation began tapering off at the end of the month, with both the synoptic pattern and computer models hinting at the establishment of the summertime ridge, which will bring an end to the spring convective season.

Precipitation amounts from area ASOS's:

City	ASOS ID	May	April
Carlsbad, NM	CNM	2.86"	0.60"
Fort Stockton	FST	3.72"	0.38"
Guadalupe Pass	GDP	1.01"	0.23"
Midland Int'l	MAF	3.35"	1.30"
Odessa	ODO	2.93"	0.97"
Terrell County	6R6	1.14"	1.74"
Wink	INK	2.01"	0.04"

Precipitation amounts from area AWOS's:

City	AWOS ID	May	April
Alpine	E38	0.58"	0.71"
Artesia, NM	ATS	0.31"	0.58"
Big Spring	BGP	4.10"	0.11"
Gaines County	GNC	3.94"	0.98"
Hobbs	HOB	0.52"	0.41"
Marfa	MRF	1.35"	0.49"
Midland Airpark	MDD	0.87"	0.47"
Pecos	PEQ	3.26"	0.12"
Snyder	SNK	4.81"	1.94"

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

Big Lake, Reagan County	9.03"
Lamesa, Dawson County	9.60"
Fluvanna, Scurry County	9.65"
Gail, Borden County	12.08"

94 locations reported rainfall for the month of May, for an HSA average of 3.58".

Normal May precipitation for Midland International Airport is 1.75". Total precipitation for Midland International Airport for the year ending June 1st was 8.99", or 4.73" above normal.

The drought has ended across West Texas and Southeast New Mexico. As of May 26th, in Southeast New Mexico, extreme west Eddy County was abnormally dry. The rest of Southeast New Mexico was normal. In West Texas, southeast Terrell County was abnormally dry. The rest of West Texas was normal. The last time this HSA was in this condition was in June 2010.

Reservoir levels across the HSA averaged 52.9% of conservation capacity as of June 1st:

Reservoir (County, State)	May Conserv Cap (%)	April Conserv Cap (%)
JB Thomas (Scurry, TX)	76.1	44.0
Colorado City (Mitchell, TX)	24.9	22.6
Champion Creek (Mitchell, TX)	6.1	5.6
Natural Dam Salt Lake (Howard, TX)	48.6	48.6
Moss Creek (Howard, TX)	53.0	55.0
Brantley (Eddy, NM)	100.0+	100.0+
Avalon (Eddy, NM)	36.0	34.0
Red Bluff (Reeves, TX)	78.3	80.3

Non-Routine Products Issued for May:

Flash Flood Watches (FFA): 27
Flash Flood Warnings (FFW): 29
Flash Flood Statements (FFS): 33
Flood Advisories/Statements (FLS): 48
Flood Warnings (FLW): 4

Total Non-Routine Products Issued: 140

**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**