NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE (11-88) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIO	HYDROLOGIC SERVICE AREA (HSA)	
(PRES. by NWS Instruction 10-924) NATIONAL WEATHER SERVICE	WFO Midland, Texas	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR June 2021	
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230	SIGNATURE	
Silver Spring, MD 20910-3283	DATE July 15, 2021	
When no flooding occurs, include miscellaneous river conditions, such as sign cover, droughts, and hydrologic products issued (NWS Instruction 10-924)	nificant rises, record low stages, ice conditions, snow	
An X inside this box indicates that no river flooding occurr	ed within this hydrologic service area.	

June started typical for West Texas and Southeast New Mexico, but was abnormally cool and wet during the last week or so. A cold front moved into the area and stalled roughly along the I-20 corridor, as an upper trough moved into the region. This resulted in several days of widespread convection, starting out as severe weather, then during into heavy showers as the airmass turned tropical. Because of the tropical nature of the airmass, radars overshot much of the low-level warm rain processes that accompany such air masses, and radar estimates were often too low as a result.

Severe storms began in earnest on June 26th, and flash-flooded parts of the Permian Basin during the evening. Roads quickly flooded in Midland in Midland County, as well as Lamesa in Dawson County.

By the morning of the 27th, flash flooding had become more widespread. Numerous high water rescues were reported in and around Big Spring in Howard County, as well as in Midland. Many of the few ponds in Midland overflowed their banks. Farther west, flash flooding was reported in Odessa in Ector County and Monahans in Ward County.

Rain and flooding continued into June 28th. Further flooding was reported in Midland, with runoff up to 6' deep in low-lying roadways. Flooding continued in Odessa and Lamesa, and developed into Fluvanna in Scurry County. Unfortunately, by mid-morning some residences in east Odessa started taking on water. Numerous roads were closed and/or washed out near Fluvanna and Lamesa. Farther east, flash flooding began in Scurry and Mitchell Counties. During the afternoon, storms began developing in the Pecos River valley, flooding oil lease roads in and around Orla in Reeves, Eddy and Culberson Counties. Flash flooding and road closures were then reported in and around Artesia, Lakewood, Loving, and Malaga, all in Eddy County.

Late in the evening, storms produced intense rainfall over the headwaters of Alamito Creek in Jeff Davis County. A flash flood later moved into Marfa in Presidio County, washing away a vehicle on Alamito Creek Crossing. The motorist driving the vehicle died. Local law enforcement said waters in the normally-dry wash rose to 12' in depth.

Overall, 21 water rescues were performed in Odessa, and 20 in Midland.

On the 29th, the focus shifted to Carlsbad in Eddy County, where numerous roads flooded and were barricaded. Dark Canyon flash flooded, emptying runoff into southwest Carlsbad. Avalon Reservoir, a small reservoir just to the north of Carlsbad, quickly filled and overtopped its (uncontrolled) dam with up to 7500 cfs at one point. Unfortunately, another fatality occurred when a motorist drove around a barricade and was swept away.

June 30th closed out the month when flash flooding closed McKittrick Canyon and Williams Ranch in Guadalupe Mountains National Park.

All of this rainfall ultimately led to elevated flows on tributaries and mainstem rivers. The Rio Grande went into minor flood below Presidio, and flooding in Dark Canyon brought the Pecos into minor flood in Carslbad.

Precipitation amounts from area ASOS's:

City	ASOS ID	June	May
Carlsbad, NM	KCNM	0.35"	1.60"
Fort Stockton	KFST	3.51"	0.64"
Guadalupe Pass	KGDP	3.19"	0.46"
Midland Int'l	KMAF	4.75"	2.48"
Odessa	KODO	5.52"	1.93"
Terrell County	K6R6	0.64"	3.46"
Wink	KINK	0.34"	1.74"

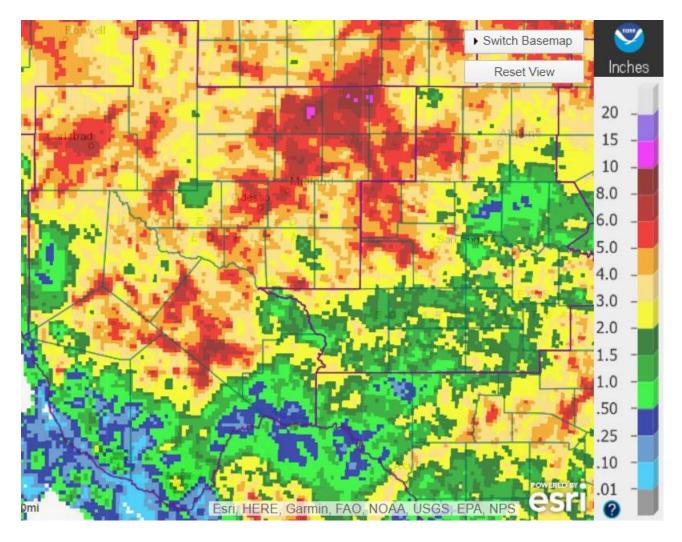
Precipitation amounts from area AWOS's:

City	AWOS ID	June	May
Alpine	KE38	1.07"	1.20"
Andrews County	KE11	2.92"	0.61"
Artesia, NM	KATS	5.40"	1.02'
Big Spring	KBGP	6.09"	2.67"
Culberson County	KVHN	1.61"	0.15"
Gaines County	KGNC	0.01"	0.16"
Hobbs, NM	KHOB	1.82"	0.56"
Lamesa Municipal	KLUV	2.77"	3.45"
Marfa	KMRF	2.33"	0.39"
Midland Airpark	KMDD	6.29"	2.39"
Pecos County	KPEQ	1.81"	0.94"
Presidio County	KPRS	1.39"	1.61"
Reagan County	KE41	5.83"	2.04"
Snyder	KSNK	2.85"	5.82"

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

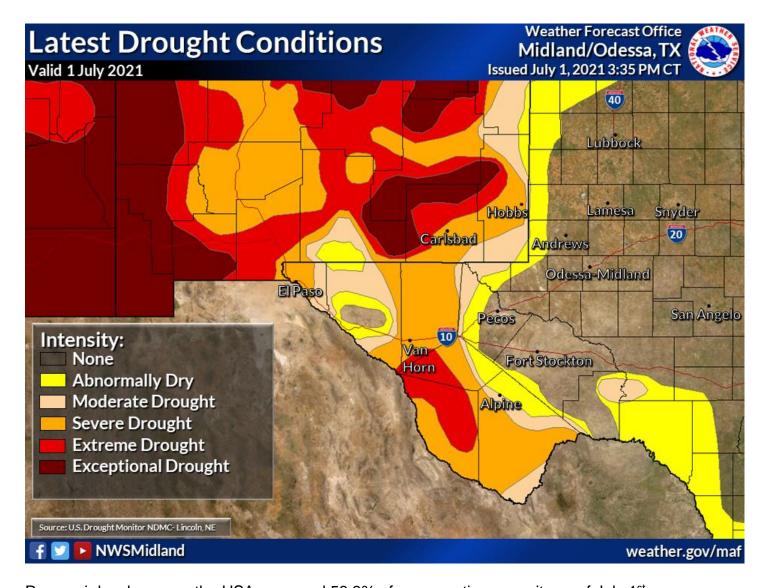
Tarzan, Martin County 8.25" Gail, Borden County 8.61" Fluvanna, Scurry County 8.79" Lenorah, Martin County 8.95"

92 locations reported rainfall for the month of June, for an HSA average of 3.64".



June Precipitation

Normal June precipitation for Midland International Air and Space Port is 1.80". Total precipitation for 2021 ending July 1st was 10.24", or 4.25" above normal.



Reservoir levels across the HSA averaged 56.3% of conservation capacity as of July 1st:

Reservoir (County, State)	July 1 Conserv Cap (%)	June 1 Conserv Cap (%)
JB Thomas (Scurry, TX)	37.8	16.6
Colorado City (Mitchell, TX)	46.6	35.7
Champion Creek (Mitchell, TX)	62.2	61.1
Natural Dam Salt Lake (Howard, TX)	48.5	48.4
Moss Creek (Howard, TX)	47.0	47.0
Brantley (Eddy, NM)	50.0	33.0
Avalon (Eddy, NM)	100+	24.0
Red Bluff (Reeves, TX)	58.5	46.5

Non-Routine Products Issued for June:

Flash Flood Watches (FFA): 11
Flash Flood Warnings (FFW): 24
Flash Flood Statements (FFS): 23
Flood Advisories/Statements (FLS): 71

Flood Warnings (FLW): 18

Total Non-Routine Products Issued: 147

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