

<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>September</b> YEAR <b>2024</b> SIGNATURE <b>J. DeBerry</b> In Charge of HSA DATE <b>October 15, 2024</b>
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		

*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.

September got off to a great start, with an upper trough combining with a cold front to produce heavy showers and prolific amounts of rainfall over West Texas and Southeast New Mexico.

On September 1<sup>st</sup>, 2-3" of rain fell in the Rio Conchos and Rio Grande watersheds, briefly bringing the Rio Grande into minor flood below the Rio Conchos and at the Presidio vehicle bridge.

On the 2<sup>nd</sup>, widespread showers and embedded thunderstorms developed along the cold front over the Permian Basin, resulting in widespread flash flooding. The first reports came from Scurry County, where the Emergency Manager reported flooded roadways in the vicinities of Fluvanna and north of Snyder, including US Hwy 84 and FM 1298. Vehicles were stranded, requiring high water rescues. Storms then developed into Mitchell County, flooding roads in and around Colorado City, stranding vehicles there. In Andrews in Andrews County, multiple road closures were reported. In Midland in Midland County, significant water flooded Industrial Avenue, in addition to many other roads. 1-2' of runoff flooded an RV park in west Midland. Business I-20 frontage roads were impassable in spots. Vehicles were stranded throughout the city, and 41 high water rescues were reported. In Big Spring in Howard County, similar conditions were reported. Odessa in Ector County had perhaps the worst flooding, as radar estimates as much as 7" fell northwest of the city in a very short amount of time. 25-30 high water rescues were reported in the city. Runoff flooded up to doorsteps in some areas. St. Hwy 302 flooded near the junction of FM 1936. Flooding was reported along St. Hwy 191 leading into the city. Farther northwest, curb-to-curb flooding was reported in Lovington in Lea County. In Eddy County, 2-3" of rain was reported in various locations, but radar coverage was poor, as the radar was overshooting much of the activity. Dark Canyon flash flooded, necessitating 3 swift water rescues. In Artesia, Eagle Draw water crossings were closed. Farther south, additional rainfall brought the Rio Grande back into minor flood, again at Presidio, but also downstream at Castolon and Johnson Ranch. Farther north, in Borden County, J.B. Thomas Reservoir rose over 7' in 24 hours. Downstream from that, Deep Creek near Dunn briefly rose into minor flood, as did the Colorado River at Colorado City.

The highest rainfall total for September 2<sup>nd</sup> was 7.10" at Fluvanna in Scurry County. Highest radar estimate was 7.54" northwest of Odessa in Ector County. Midland International Air & Space Port received 3.63" of rainfall, completely erasing its annual deficit, and then some.

Unfortunately, that was the only notable hydrologic activity for the month. The rest of September was dominated by a few severe events.

Precipitation amounts from area ASOS's:

City	ASOS ID	September	August
Carlsbad, NM	KCNM	0.09"	1.29"
Fort Stockton	KFST	1.69"	0.38"
Midland Int'l	KMAF	4.21"	0.56"
Odessa	KODO	M	T
Terrell County	K6R6	2.11"	1.36"
Wink	KINK	1.43"	0.48"

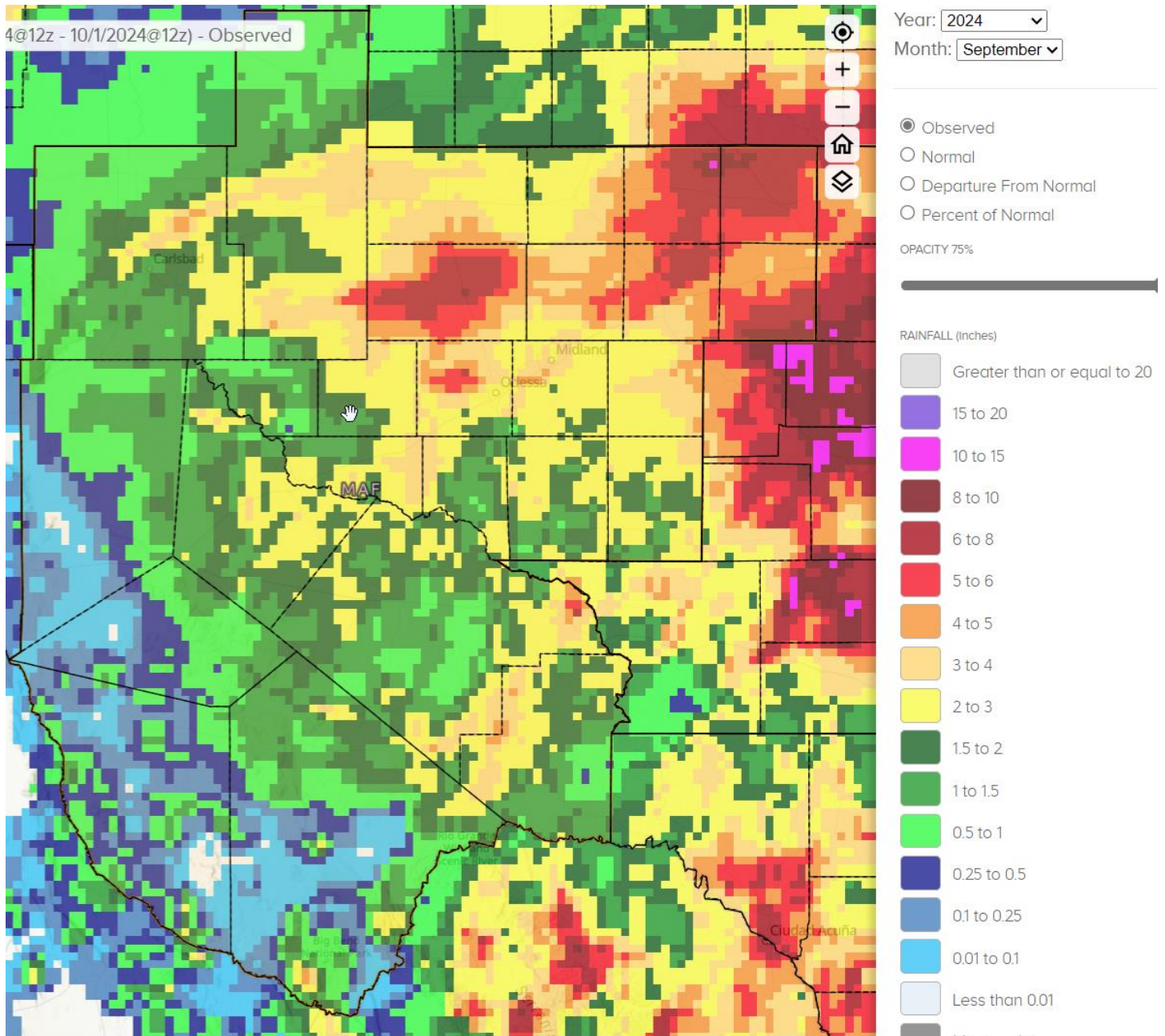
Precipitation amounts from area AWOS's:

City	AWOS ID	September	August
Alpine	KE38	1.12"	1.91"
Andrews County	KE11	5.05"	0.37"
Artesia, NM	KATS	1.29"	0.57'
Big Spring	KBGP	4.58"	2.01"
Culberson County	KVHN	0.17"	0.11"
Gaines County	KGNC	3.52"	0.37"
Lajitas	KT89	0.10"	0.15"
Lamesa Municipal	KLUV	1.33"	0.24"
Marfa	KMRF	M	M
Midland Airpark	KMDD	1.09"	1.62"
Pecos County	KPEQ	2.12"	0.99"
Presidio County	KPRS	1.98"	0.18"
Reagan County	KE41	0.96"	1.17"
Snyder	KSNK	6.20"	0.34"

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

Hobbs, Lea County	3.77"
Gail, Borden County	6.82"
Fluvanna, Scurry County	9.73"
Big Spring 5NE	9.91"

82 locations reported rainfall for the month of September, for an HSA average of 2.23".



### September Precipitation

Normal September precipitation for Midland International Air and Space Port is 1.66". Total precipitation for the year was 10.33", or 0.66" below normal.

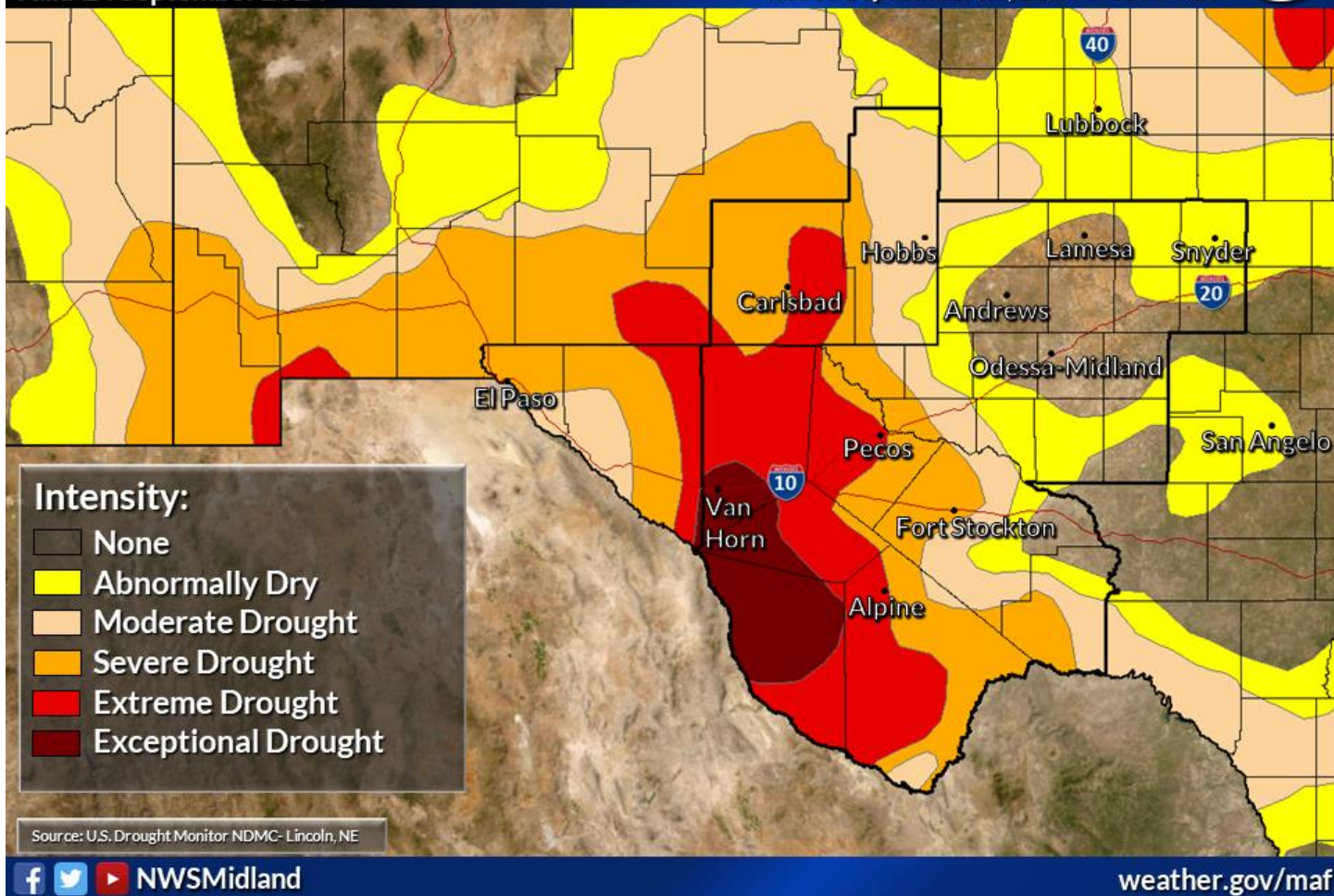
# Latest Drought Conditions

Weather Forecast Office  
Midland/Odessa, TX



Valid 24 September 2024

Issued September 29, 2024 9:46 AM CT



Reservoir levels across the HSA averaged 52.3% of conservation capacity as of October 1<sup>st</sup>:

Reservoir (County, State)	October 1 Conserv Cap (%)	September 1 Conserv Cap (%)
JB Thomas (Scurry, TX)	37.9	16.5
Colorado City (Mitchell, TX)	77.4	39.7
Champion Creek (Mitchell, TX)	51.4	51.7
Natural Dam Salt Lake (Howard, TX)	48.4	48.4
Moss Creek (Howard, TX)	73.0	76.0
Brantley (Eddy, NM)	38.0	45.0
Avalon (Eddy, NM)	54.0	57.0
Red Bluff (Reeves, TX)	38.6	37.5

## Non-Routine Products Issued for September:

Flash Flood Watches (FFA): 0  
 Flash Flood Warnings (FFW): 18  
 Flash Flood Statements (FFS): 14  
 Flood Advisories/Statements (FLS): 15

Flood Warnings (FLW): 8

**Total Non-Routine Products Issued: 55**

**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**