NWS FORM E	<ul> <li>U.S. DEPARTMENT OF COMMERCE</li> <li>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</li> </ul>	HYDROLOGIC SERVICE AREA (HSA)	
(PRES. by NWS Ins	struction 10-924) NATIONAL WEATHER SERVICE	WFO Midland, Texas	
MONTHL	Y REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR October 2023	
TO:	Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230	SIGNATURE	
	Silver Spring, MD 20910-3283	DATE November 15, 2023	
	ding occurs, include miscellaneous river conditions, such as signi hts, and hydrologic products issued (NWS Instruction 10-924)	ficant rises, record low stages, ice conditions, snow	
An X	inside this box indicates that no river flooding occurre	d within this hydrologic service area.	

October was fairly uneventful until the latter part of the month, when a couple of events brought relatively abundant rainfall to the HSA, especially the Permian Basin. On October 24<sup>th</sup>, remnants of Hurricane Norma moved into West Texas and Southeast New Mexico from the southwest, and the very tropical airmass that accompanied it produced very efficient rain showers across the eastern half of the HSA. Many locations reported 2" or more of rainfall, especially in the Permian Basin. Little flash flooding was reported, as the rain rates were low, but the event was long.

On the 25<sup>th</sup>-26<sup>th</sup>, an upper-level trough plowed through the area, trailing a line of thunderstorms that produced another 0.5-1" across much of the area. The strongest part of the line dumped 2-3" just above the confluence of Independence Creek with the Pecos River, briefly sending Independence Creek (SFIT2) into minor flood.

Precipitation amounts from area ASOS's:

City	ASOS ID	October	September
Carlsbad, NM	KCNM	1.74"	0.68"
Fort Stockton	KFST	1.56"	0.08"
Guadalupe Pass	KGDP	0.00"	M
Midland Int'l	KMAF	3.52"	1.01"
Odessa	KODO	2.10"	0.87"
Terrell County	K6R6	1.44"	0.46"
Wink	KINK	0.08"	0.41"

## Precipitation amounts from area AWOS's:

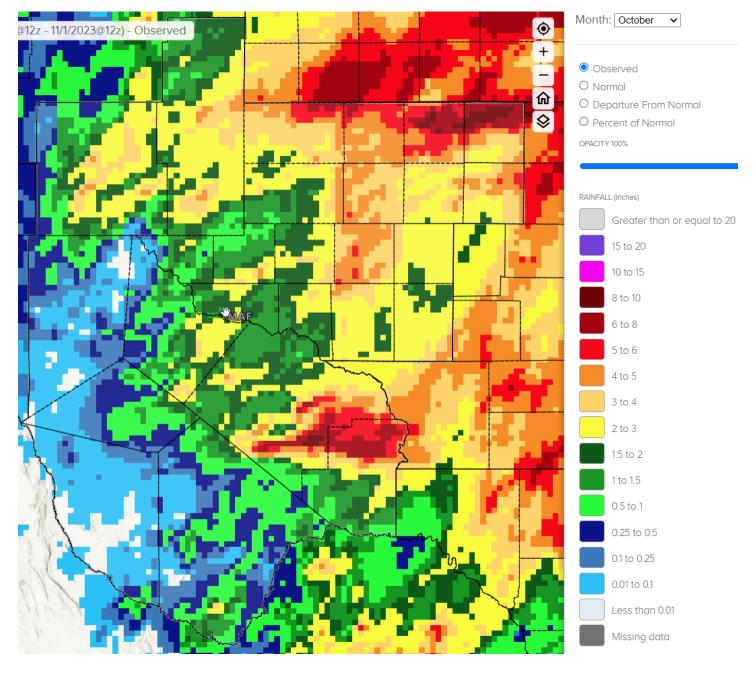
City	AWOS ID	October	September
Alpine	KE38	1.51"	1.37"
Andrews County	KE11	1.07"	1.31"
Artesia, NM	KATS	0.22"	1.18'
Big Spring	KBGP	2.21"	2.43"
Culberson County	KVHN	0.00"	0.20"

Gaines County	KGNC	1.22"	2.01"
Hobbs, NM	KHOB	0.22"	0.32"
Lajitas	KT89	0.38"	1.53"
Lamesa Municipal	KLUV	1.94"	2.73"
Marfa	KMRF	0.07"	М
Midland Airpark	KMDD	0.74"	0.23"
Pecos County	KPEQ	0.65"	0.15"
Presidio County	KPRS	0.12"	0.58"
Reagan County	KE41	0.13"	0.19"
Snyder	KSNK	2.03"	1.22"

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

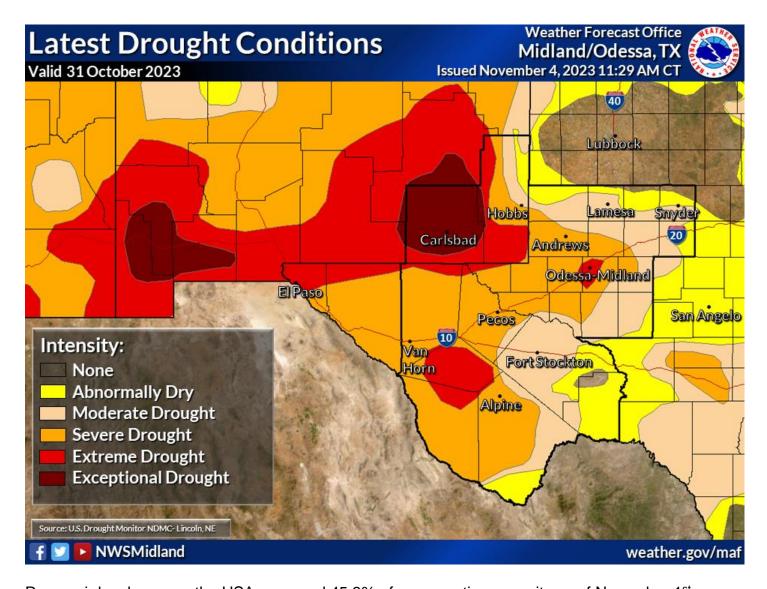
Fluvanna 3WNW, Borden County	5.60"
Fort Stockton 38SE, Pecos County	6.53"
Welch, Dawson County	6.71"
Gail, Borden County	6.86"

84 locations reported rainfall for the month of October, for an HSA average of 2.04".



October Precipitation

Normal October precipitation for Midland International Air and Space Port is 1.21". Total precipitation for 2023 ending November 1<sup>st</sup> was 6.32", or 5.88" below normal.



Reservoir levels across the HSA averaged 45.3% of conservation capacity as of November 1st:

Reservoir (County, State)	November 1 Conserv Cap (%)	October 1 Conserv Cap (%)
JB Thomas (Scurry, TX)	22.7	18.5
Colorado City (Mitchell, TX)	49.6	49.5
Champion Creek (Mitchell, TX)	59.6	56.2
Natural Dam Salt Lake (Howard, TX)	48.4	48.4
Moss Creek (Howard, TX)	78.0	76.0
Brantley (Eddy, NM)	42.0	51.0
Avalon (Eddy, NM)	22.0	32.0
Red Bluff (Reeves, TX)	39.7	45.7

## **Non-Routine Products Issued for October:**

Flash Flood Watches (FFA): 0
Flash Flood Warnings (FFW): 24
Flash Flood Statements (FFS): 27
Flood Advisories/Statements (FLS): 1

## Flood Warnings (FLW): 3

**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