

WFO Midland, Texas

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
 MONTH YEAR
July 2007

TO: Hydrometeorological Information Center, W/OH2
 NOAA / National Weather Service
 1325 East West Highway, Room 7230
 Silver Spring, MD 20910-3283

SIGNATURE
Lora J Mueller

In Charge of HSA

DATE
August 11, 2007

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 flooding occurred within this hydrologic service area.

July was not only another wet month for the Midland HSA, but also a record setting one. The persistent moist airmass remained over the area, bringing precipitable water values of over 2 inches at times, dewpoints consistently in the 50 and 60°F range, and heavy rainfall. 25 out of 31 days in July saw rainfall over some part of the HSA on. Midland International Airport bypassed the annual precipitation on July 28, when 0.68 inches fell at the airport bringing the annual total to that point to 14.88 inches (0.08 inches above the annual norm). In addition, this amount shattered the daily precipitation record of 0.19 inches set back in 1970.

Much of the rainfall for July 29 fell during a 3 to 5 hour period during the early morning hours causing flash flooding across many areas of the forecast area, including both Midland and Odessa where high water rescues were performed. The rainfall stopped just before dawn allowing much of the standing water to go down before the Monday morning commute began. Some roadways were still closed due to high water and others had mud across them from the rapidly flowing water that morning. On Wall Street in South Midland, water levels were measured by flood gages at 3 feet deep during the height of the event.

July ended with an additional 0.49 inches that fell on the final day bringing the monthly total to 2.34 inches at Midland International Airport. Due to the areal extend of July's rainfall, not only was flash flooding problematic, but river flooding was also near-constant during the latter half of the month as storm systems continually moved along and south of the Rio Grande causing elevated flows that still persist. Due the saturated conditions, even small rainfall amounts caused responses in river levels and flows.

Additional precipitation from area ASOS/AWOS:

City	ASOS ID	Monthly Total	Departure from Last Month
Big Spring	BGP	0.76 inches	-1.71 inches
Carlsbad	CNM	1.08 inches	-0.02 inches
Fort Stockton	FST	1.73 inches	+0.23 inches
Odessa	ODO	1.72 inches	-0.63 inches
Snyder	SNK	0.68 inches	-2.14 inches
Dryden	6R6	1.97 inches	+0.51 inches
Wink	INK	3.09 inches	+1.45 inches

Average reservoir levels across the HSA remained at 46% of conservation capacity. Champion Creek was again the lowest percentage of conservation capacity dropping one percent to 15% capacity. Lake Colorado City was again the highest percentages with 83%

Reservoir (County, State)	June Conserv Cap (%)	July Conserv Cap (%)
JB Thomas (Scurry, TX)	17	16
Colorado City (Mitchell, TX)	84	83
Champion Creek (Mitchell, TX)	16	15
Moss Creek (Howard, TX)	84	81
Brantley (Eddy, NM)	55	67
Avalon (Eddy, NM)	32	31
Red Bluff (Reeves, TX)	33	30

Products Issued:

- Flash Flood Watches: 13
- Flash Flood Warnings: 14
- Flash Flood Statements: 17
- Flood Warnings: 10
- Flood Statements (River): 24 (8)
- Hydrologic Statements (RVSMFAF): 7
- Drought Statements (ESFMAF): 1 - *This product has been temporarily suspended since the area is not currently experiencing drought conditions or impacts.*

Total Products: 86

cc: mail: IBWC-ELP, IBWC-PRS, ACE-FTW, USGS-CNM, USGS-SJT
 cc: email: HIC, SRH, W/SR2, W/SR3, W/SR-ABQ, W/SR-ELP, W/SR-FWR, W/SR-LBB,
 W/SR-MAF, W/SR-SJT, LCRA, TAMU, TCEQ, COE ABQ