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| **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 YEAR **March 2009** |
| TO: Hydrometeorological Information Center, W/OH2<br>NOAA / National Weather Service<br>1325 East West Highway, Room 7230<br>Silver Spring, MD 20910-3283 | SIGNATURE **Christopher Daniels**<br>In Charge of HSA<br>DATE **April 14, 2009** |

*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)*

X **An X inside this box indicates that no river flooding occurred within this hydrologic service area.**

**Heavy rainfall fell across portions of the Midland HSA during the month of March. Despite the much needed precipitation, drought conditions continued across the area and worsened in some areas. Moderate to severe drought conditions encompass most of the Midland HSA with the exception being the Stockton Plateau and the Big Bend region where abnormally dry conditions prevail.**

**A couple of storm systems brought rainfall to the region. The first system on March 11th was a combination of an upper level trough and an arctic airmass which brought heavy rains to much of the Big Bend region and the Stockton plateau. These areas received up to 1.5 inches of rainfall while most of the Trans Pecos region, Permian Basin and Western Low Rolling Plains generally received less than half an inch with isolated amounts of up to one inch. On March 13th an upper level system moved across the region bringing light rain to mostly the Western Low Rolling Plains and Permian Basin. Most of this precipitation fell as a mix of snow, freezing rain and rain during the overnight hours. Most areas received less than a quarter of an inch with isolated areas receiving more.**

**After receiving 0.22 inches of rainfall in February, Midland International airport received 0.56 inches of rainfall in March which is 0.14 inches above the normal value of 0.70. Extended outlooks continue to indicate below normal to near normal precipitation and above normal temperatures through the middle of spring.**

**Precipitation amounts from area ASOS:**

| City | ASOS ID | March | February |
|---|---|---|---|
| Carlsbad, NM | CNM | 0.07 inches | 0.14 inches |
| Fort Stockton | FST | 0.52 inches | 0.22 inches |
| Guadalupe Pass | GDP | 0.08 inches | 0.02 inches |
| Midland Int'l | MAF | 0.56 inches | 0.22 inches |
| Odessa | ODO | 0.23 inches | 0.32 inches |
| Terrell County | 6R6 | 1.75 inches | 0.00 inches |
| Wink | INK | Trace | 0.09 inches |

**Precipitation amounts from area AWOS:**

| City | ASOS ID | March | February |
|---|---|---|---|
| Alpine | E38 | 0.73 inches | 0.03 inches |
| Artesia, NM | ATS | 0.12 inches | 0.00 inches |
| Big Spring | BGP | 0.33 inches | 0.23 inches |
| Gaines County | GNC | 0.24 inches | 0.27 inches |
| Marfa | MRF | 0.32 inches | 0.00 inches |
| Midland Airpark | MDD | 0.19 inches | 0.16 inches |
| Pecos | PEQ | 0.02 inches | 0.02 inches |
| Snyder | SNK | 0.32 inches | 0.41 inches |

**Average reservoir levels across the HSA averaged 34% of conservation capacity at the end of March.**

| Reservoir (County, State) | March Conserv Cap (%) | February Conserv Cap (%) |
|---|---|---|
| JB Thomas (Scurry, TX) | 7 | 8 |
| Colorado City (Mitchell, TX) | 67 | 68 |
| Champion Creek (Mitchell, TX) | 21 | 21 |
| Natural Dam Salt Lake (Howard, TX) | 49 | 49 |
| Moss Creek (Howard, TX) | 67 | 81 |
| Brantley (Eddy, NM) | 1 | 1 |
| Avalon (Eddy, NM) | 34 | 67 |
| Red Bluff (Reeves, TX) | 27 | 28 |

**Products Issued for December:**

Flash Flood Watches: 0
Flash Flood Warnings: 0
Flash Flood Statements: 0
Flood Warnings: 0
Flood Statements: 0
Hydrologic Statements (RVSMAF): 31
Drought Statements: 1
Hydrologic Outlooks (ESFMAF): 0
**Total Products Issued: 32**

cc: email: HIC, SRH, NWS ABQ, NWS EPZ, NWS FWR, NWS LBB, NWS MAF, NWS SJT, LCRA, TAMU, TCEQ, COE ABQ, IBWC PRD, IBWC ELP, USGS SJT, USGS CNM