**WDTD Flash Flood Assessment**

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| --- | --- | --- | --- | --- |
| * What are the pros and cons for flash flooding that you analyzed from your NSHARP sounding?
 | Precipitable Water: | Favorable | Neutral | Unfavorable |
| Warm Cloud Layer: | Favorable | Neutral | Unfavorable |
| CAPE profile:  | Favorable | Neutral | Unfavorable |
| Relative Humidity: | Favorable | Neutral | Unfavorable |
| **Precip Efficiency:**  | **(High)** 5 | 4 | 3 | 2 | 1 **(Low)** |
| LCL-EL wind: | Favorable | Neutral | Unfavorable |
| Corfidi Upshear wind: | Favorable | Neutral | Unfavorable |
| **Storm motion:** | Slow Motion (any storm can produce FF)Fast Motion (need training storms for FF) |
| * Where is the soil saturated (based on CREST)?
 | **High Soil Moisture area(s):** |  |
| * Where are your low FFG values, denoting higher flash flood threat?
 | **Low FFG area(s):** |  |
| * What is your topography?
 | **Topography:** | Flat | Hilly | Mountainous |
| * Any significant urban areas?
 | **Urban area(s):** |  |
| * Nearest/Best radar for QPE threat?
 | **Closest radar(s):** |  |
| * What is the storm total for Dual-Pol?
 | **Storm Total DP QPEs:** | DP Max (e.g. 3-4”): |  |
| * Any old rainfall in DP QPEs or mesonets? (note: go to 1st frame to see)
 | **Old rainfall/obs data?** |  Yes 🡪 Take diff of 1st & last frame; account for diff in total No 🡪 Compare to obs freely at current time |
| * How do QPEs compare to mesonet obs?
 | **DP QPE:** | Too High | About Right | Too Low | n/a |
| * Do you need to adjust your total, based on the obs comparison?
 | Adjusted DP Total: |  |
| * What is the latest 6hr total for MRMS? (note: ends at the top of hour)
 | **6hr MRMS QPEs:** | MRMS 6hr Max (e.g. 3-4”): |  |
| * Any old rainfall in mesonets?
 | **Old mesonet data?** | Yes 🡪 Don’t compare to QPEs (skip to 1hr assessment)No 🡪 Compare to QPEs at top of the hour |
| * How do QPEs compare to mesonet obs?
 | **MRMS QPE:** | Too High | About Right | Too Low | n/a |
| * Do you need to adjust your total, based on the obs comparison?
 | Adjusted MRMS Total:  |  |
| * Within the last 1-hr, how much rain has fallen?
 | **1-hr QPEs:**  | DP 1-hr Max: |  |
| MRMS 1-hr Max: |  |
| * How do QPEs compare to METAR obs?
 | **DP QPE:** | Too High | About Right | Too Low | n/a |
| **MRMS QPE:** | Too High | About Right | Too Low | n/a |
| * Any significant rain rate differences between sources?
 | **Rate Comparison** |  |
| * QPE threat area below melting layer?
 | **Below Melting Layer?** | Yes | No | Close |
| * Is melting hail (KDP > 4-5 deg/km) impacting your DP rain rates?
 | **Melting Hail Impacts:** | Yes |  | No |
| * FFMP choice?
 | **FFMP QPE Source(s):** | HPE (DP mosaic) |
|  | Single DP (only better for beam blocked areas) |
|  | MRMS (mosaic) |
| * Based on your chosen source, what are your final rainfall totals for the FFW text?
 | **Rainfall Totals:** | Accounted for:□ Obs adjustments? □ Melting hail? |
| * Is more rain expected during your warning? If so, what additional amounts do you estimate for the FFW text?
 | **Additional Rainfall Expected (your call):** |  |