WDTD Flash Flood Assessment

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