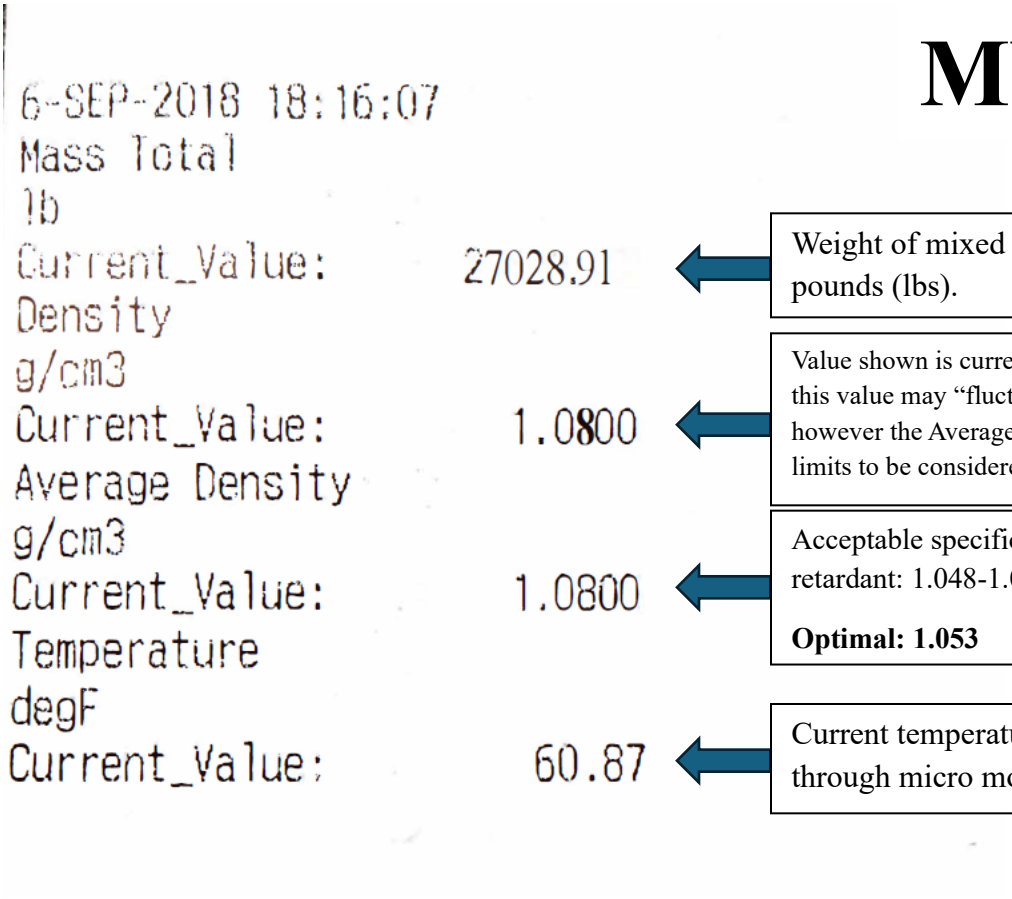
MVP-Fx



Weight of mixed retardant loaded on airtanker in pounds (lbs).

Value shown is current density going through the meter, this value may "fluctuate outside the acceptable range, however the Average Density **MUST** be within acceptable limits to be considered properly mixed."

Acceptable specific gravity range for mixed retardant: 1.048-1.059

Optimal: 1.053

Current temperature of retardant flowing through micro motion.

- What is an acceptable refractometer reading for MVP-Fx? A reading of 8.0 - 9.75 is the acceptable range, with 8.75 being the optimal reading.

- How do you calculate gallons for MVP-Fx? $Gallons = \frac{mass\ total\ value}{8.79}$

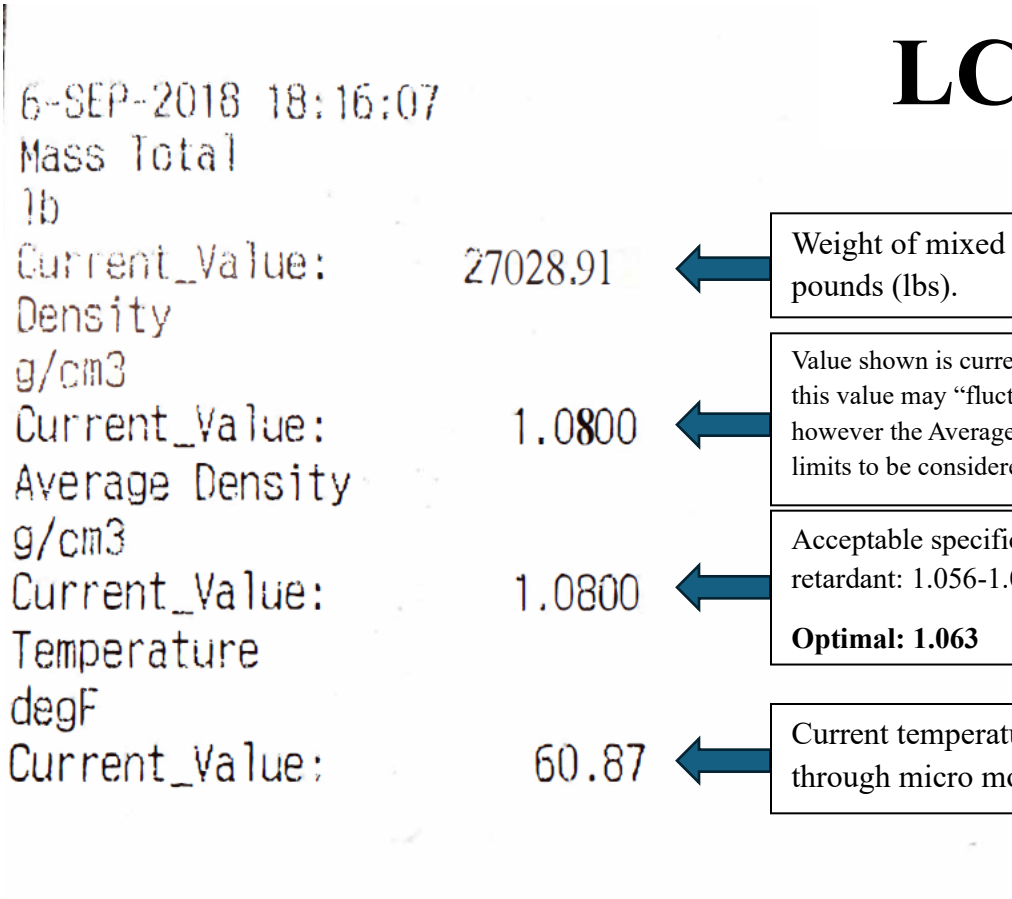
- 8.79 lbs/gal = 1.048-1.059 Specific Gravity ***Round Decimal to nearest whole number***

- Per the **Long-Term Fire Retardant Characteristics and Mix Factors** sheet, if numbers are outside of the acceptable range for either density or refractometer readings effectiveness of the load is reduced on the fire or may be outside of specifications of the contract. Inform the base manager or mix master of the discrepancy immediately.

- https://www.fs.usda.gov/rm/fire/wfcs/documents/2026-0205_qpl_ret_.pdf

- https://www.fs.usda.gov/rm/fire/wfcs/products/documents/PC%20MVP-Fx%20Product%20Information.pdf

LCE20-Fx



Weight of mixed retardant loaded on airtanker in pounds (lbs).

Value shown is current density going through the meter, this value may "fluctuate outside the acceptable range, however the Average Density **MUST** be within acceptable limits to be considered properly mixed."

Acceptable specific gravity range for mixed retardant: 1.056-1.069

Optimal: 1.063

Current temperature of retardant flowing through micro motion.

- What is an acceptable refractometer reading for LCE20-Fx? A reading of 9.75 – 12.0 is the acceptable range, with 11.0 being the optimal reading.

- How do you calculate gallons for LCE20-Fx? $Gallons = \frac{mass\ total\ value}{8.87}$

- 8.87 lbs/gal = 1.048-1.059 Specific Gravity ***Round Decimal to nearest whole number***

- Per the **Long-Term Fire Retardant Characteristics and Mix Factors** sheet, if numbers are outside of the acceptable range for either density or refractometer readings effectiveness of the load is reduced on the fire or may be outside of specifications of the contract. Inform the base manager or mix master of the discrepancy immediately.

- https://www.fs.usda.gov/rm/fire/wfcs/documents/2026-0205_qpl_ret_.pdf

- https://www.fs.usda.gov/rm/fire/wfcs/products/documents/PC%20LCE20-Fx%20Product%20Information%20-%20Revised%20121420.pdf