



Smoke and Growing Season Burns

MI Annual Rx Fire Meeting

Trent Wickman

USDA Forest Service

Black Area



Fuel Loading



Fuel Consumption



Emission Factor



Emission Production



Dispersion/Concentration

**Let's return to
fundamental
principles.....**



Combustion and Consumption is Affected by Fuel



Loading
Size
Arrangement
Continuity
Fuel Moisture





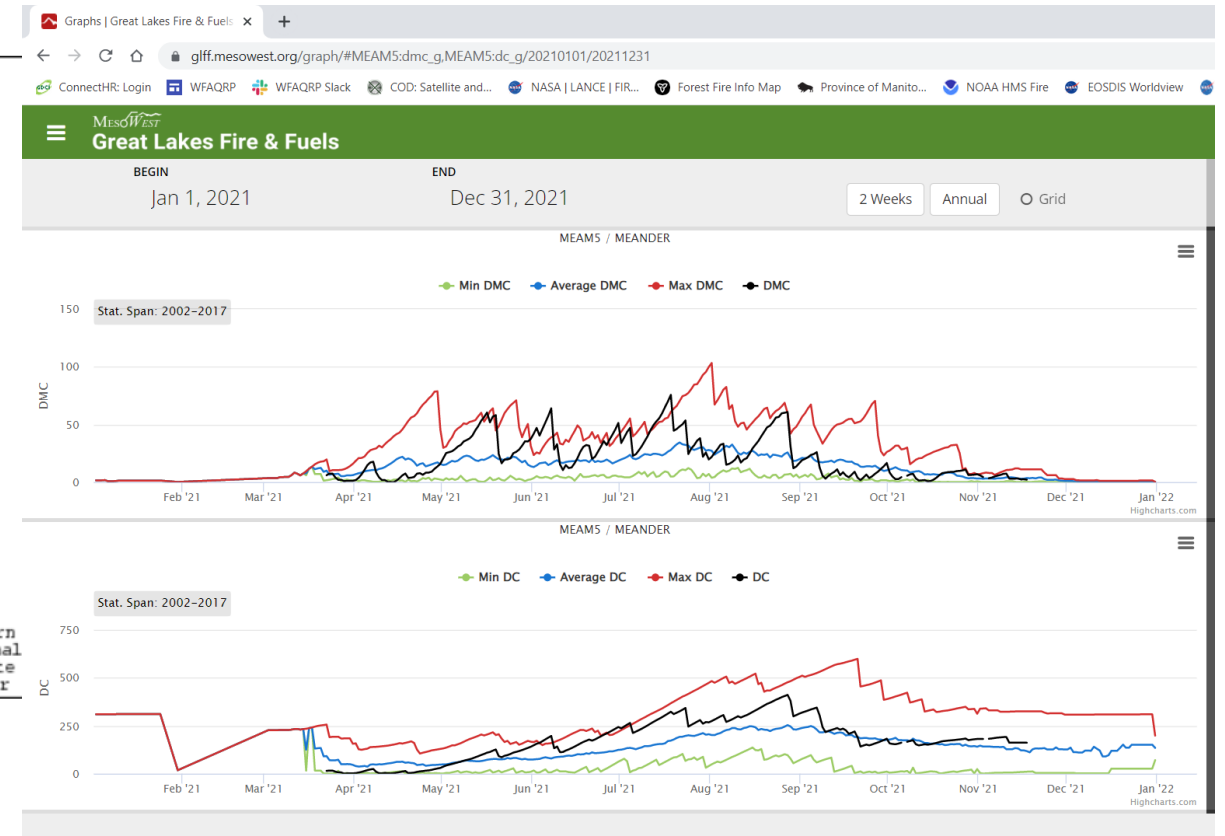
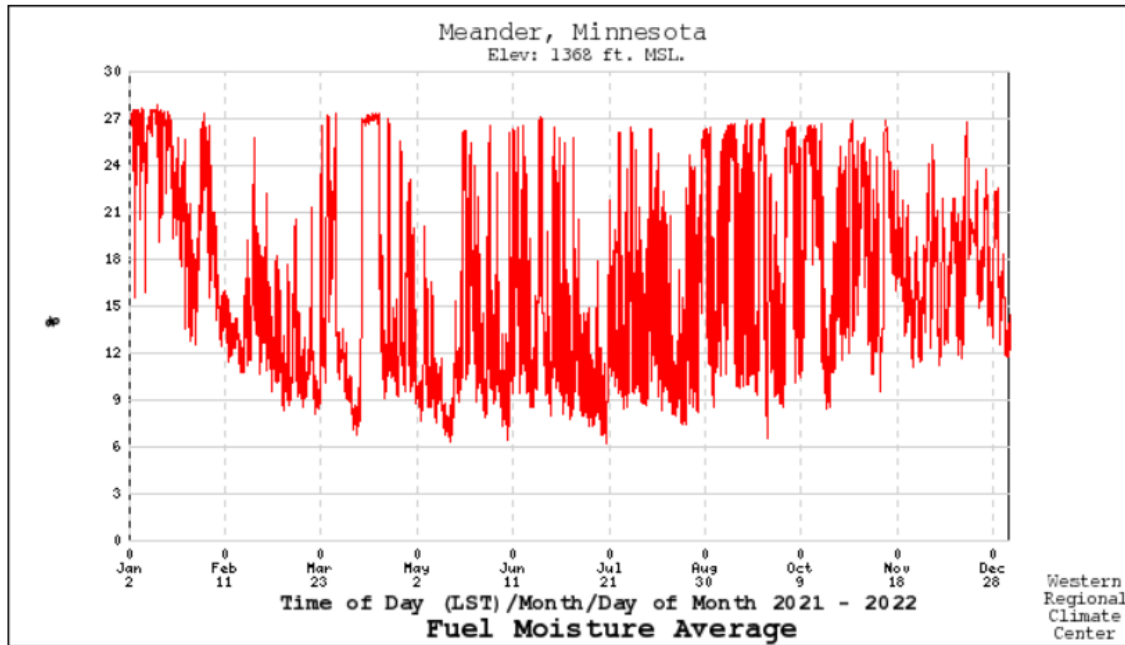
Emissions =

Fuel Consumed
(tons/acre)

x

Emission Factor
(pounds/ton)

Does the page of the calendar matter?



Different but Similar

- Sensitive Receptors
 - Young,
 - Old,
 - Those with cardiovascular and/or respiratory problems
 - School's in or out?
 - Rec areas closed or open?
 - Weekend Events?
- Lake breeze becomes weaker in the summer, esp. inland lakes