Precipitation duration

Definition

Precipitation duration in hours is used by 100-hr and 1000-hr fuel moisture indices of the NDRFS. When absent it can be estimated using a formula proposed by Bradshaw et al. (1983).

Formula

Bradshaw et al. (1983) proposed to replace the $P_{\it Dur}$ as follows:

$$P_{Dur} = min(8, rac{P+0.02)}{p_r})$$

with the precipitation rate p_r [inch/h] defined as

$$p_r = egin{cases} 0.25, & ext{for Climate 1 or 2} \ 0.05, & ext{for Climate 3 or 4} \end{cases}$$

where P is the 24-hours precipitation in inches and Climate is the climate class according to Deeming (1977).

References

Literature:

Bradshaw et al. (1983) Deeming (1977)

The original document is available at http://wiki.fire.wsl.ch//tiki-index.php?page=Precipitation+duration