

2018-02-06

This readme file describes the variables within the “Physiology_Environmental_Data.csv” data file accompanying the above publication. The “Physiology_Environmental_Data.csv” file includes leaf physiology data for eight plant species and corresponding environmental data collected on the same day as physiology measurements. Missing data are indicated by the code “9999.” For any further queries please contact okeefe4@wisc.edu.

Variable	Description
Year	Year of data collection
DOY	Day of year of data collection
Species	Species (“AG”= <i>Andropogon gerardii</i> , “PV”= <i>Panicum virgatum</i> , “SN”= <i>Sorghastrum nutans</i> , “VB”= <i>Vernonia baldwinii</i> , “SC”= <i>Solidago canadensis</i> , “AC”= <i>Amorpha canescens</i> , “RG”= <i>Rhus glabra</i> , “CD”= <i>Cornus drummondii</i>)
Fgroup	Plant functional group
Cond_night	Nocturnal stomatal conductance ($\text{mol m}^{-2}\text{s}^{-1}$)
Trmmol_night	Nocturnal transpiration ($\text{mmol m}^{-2}\text{s}^{-1}$)
Photo	Photosynthesis ($\mu\text{mol CO}_2 \text{m}^{-2}\text{s}^{-1}$)
Cond_day	Diurnal stomatal conductance ($\text{mol m}^{-2}\text{s}^{-1}$)
Trmmol_day	Diurnal transpiration ($\text{mmol m}^{-2}\text{s}^{-1}$)
Percent_cond	Percent nocturnal of diurnal stomatal conductance
Percent_trmmol	Percent nocturnal of diurnal transpiration
PD	Predawn leaf water potential (MPa)
MD	Midday leaf water potential (MPa)
Soil_moisture	Average daily soil moisture (v/v)
TAIR_N	Air temperature ($^{\circ}\text{C}$) at average time of nocturnal physiology measurements (23:00 h)
VPD_N	Vapor pressure deficit (kPa) at average time of nocturnal physiology measurements (23:00 h)
TAIR_D	Air temperature ($^{\circ}\text{C}$) at average time of diurnal physiology measurements (11:00 h)
VPD_D	Vapor pressure deficit (kPa) at average time of diurnal physiology measurements (11:00 h)