

Description of micrometeorology data for Willow Creek Tower in Wcreekyyy\_met.txt

Missing or invalid data is reported as -999. Time is recorded at the beginning of average period. The average interval is 30 minutes.

Column	Name	Description	Unit
1	Year	Year	Year
2	Month	Month	Month
3	Day	Day	Day
4	LST	Local Standard Time	Hour
5	Jday	Julian day	Day
6	Fjday	Fractional Julian day	Day
7	CO2_2ft	Concentration of CO2 at 2 feet	ppm
8	CO2_5ft	Concentration of CO2 at 5 feet	ppm
9	CO2_10ft	Concentration of CO2 at 10 feet	ppm
10	CO2_25ft	Concentration of CO2 at 25 feet	ppm
11	CO2_45ft	Concentration of CO2 at 45 feet	ppm
12	CO2_70ft	Concentration of CO2 at 70 feet	ppm
13	CO2_97ft	Concentration of CO2 at 97 feet	ppm
14	Wsp_2m	Wind speed at 2 meters	m/s
15	Wsp_40ft	Wind speed at 40 feet	m/s
16	Wsp_80ft	Wind speed at 80 feet	m/s
17	Wsp_97ft	Wind speed at 97 feet	m/s
18	Wdir_2m	Wind direction at 2 meters	Deg
19	Wdir_40ft	Wind direction at 40 feet	Deg
20	Wdir_80ft	Wind direction at 80 feet	Deg
21	Wdir_97ft	Wind direction at 97 feet	Deg
22	Ta_25cm	Air temperature at 25 cm	°C
23	Ta_50cm	Air temperature at 50 cm	°C
24	Ta_75cm	Air temperature at 75 cm	°C
25	Ta_1 m	Air temperature at 1 meter	°C

26	Ta-2 m	Air temperature at 2 meters	°C
27	Ta_25 ft	Air temperature at 25 feet	°C
28	Ta_40 ft	Air temperature at 40 feet	°C
29	Ta_60 ft	Air temperature at 60 feet	°C
30	Ta_80 ft	Air temperature at 80 feet	°C
31	Ta_97 ft	Air temperature at 97 feet	°C
32	Tree_n	Tree temperature, north side	°C
33	Tree_s	Tree temperature, south side	°C
34	Mr_97 ft	H2O mixing ratio at 97 feet	g/kg
35	Rh_2m	Relative humidity at 2 meters	%
36	Rh_25 ft	Relative humidity at 25 feet	%
37	Rh_40 ft	Relative humidity at 40 feet	%
38	Rh_60 ft	Relative humidity at 60 feet	%
39	Rh_80 ft	Relative humidity at 80 feet	%
40	Ts_0	Soil temperature on surface	°C
41	Ts_5 cm	Soil temperature at 5cm below surface	°C
42	Ts_10 cm	Soil temperature at 10 cm below surface	°C
43	Ts_20 cm	Soil temperature at 20 cm below surface	°C
44	Ts_50 cm	Soil temperature at 50 cm below surface	°C
45	Ts_1 m	Soil temperature at 1 meter below surface	°C
46	SWC_5 cm	Soil moisture content at 5 cm below surface	% by vol
47	SWC_10 cm	Soil moisture content at 10 cm below surface	% by vol
48	SWC_20 cm	Soil moisture content at 20 cm below surface	% by vol
49	SWC_50 cm	Soil moisture content at 50 cm below surface	% by vol
50	SWC_1 m	Soil moisture content at 1 meter below surface	% by vol
51	P_atm	Atmospheric pressure at 97 feet	Kpa
52	PPFD_2m	Photosynthetic Active radiation at 2 meters	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$
53	PPFD_20 ft	Photosynthetic Active radiation at 20 feet	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$
54	PPFD_40 ft	Photosynthetic Active radiation at 40 feet	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$
55	PPFD_60 ft	Photosynthetic Active radiation at 60 feet	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$
56	PPFD_97ft	Total incoming photosynthetic photon flux density at 97 feet	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$
57	PPFD_dif	Diffuse incoming photosynthetic photon flux density at 97 feet	$\mu \text{ mol m}^{-2} \text{ s}^{-1}$

		density at 97 feet	
58	P	Precipitation	Mm
59	Solar_in	Incoming solar radiation at 97 feet	W m <sup>-2</sup>
60	Solar_ref	Reflected solar radiation at 97 feet	W/m <sup>-2</sup>
61	Ir_in	Incoming ir radiation at 97 feet	W/m <sup>-2</sup>
62	Ir_emit	Emitted ir radiation at 97 feet	W/m <sup>-2</sup>
63	Sol_stdev	Standard deviation of incoming solar radiation	W/m <sup>-2</sup>
64	R_in	Incoming total radiation at 97 feet	W m <sup>-2</sup>
65	R_net	Net radiation at 97 feet	W m <sup>-2</sup>
66	Leaf-wet	Wetness indicator at 97 feet	Kohms
67	Net_raw	Net radiation above soil surface, no wind correction at 2m	W m <sup>-2</sup>
68	Net_rad	Net radiation above soil surface, wind correction applied at 2m	W m <sup>-2</sup>
69	G_75 mm	Soil heat flux at 75 mm below surface	W m <sup>-2</sup>