

The DUV files contain UV dose and are generated from daily ux scans and instrument responsivity. In NEUBrew network we do not upload Brewers with instrument responsivity. Therefore it should be assumed that calculated UV doses by Brewer are inaccurate!

Excerpts from “*Brewer MKIV Spectrophotometer Operator’s Manual OM-BA-C231 REV B*”, August 15, 1999 pages 46 and 75.

When scanning is complete, a calculation of the UVB/UVA McKinley- Diffey weighted irradiance is computed, sent to the printer and to the monitor screen, and appended to the DUVJJJYY.nnn data file. A correction is made to the Diffey action spectrum to include the effects of the UVA region 325-400nm).

DUVJJJYY.nnn: Daily DUV file.

The Daily DUV file is appended each time a UV scan (any type of scan - UA, UF, UV, etc) is run.

It is the more common of the two DUVJJJYY.nnn files.

Time	DUV
6.1860	4.402109
8.5610	65.338420
9.8725	132.457100
12.7702	219.891700
15.7105	105.198000
16.3337	69.199570
17.1518	40.585530
17.9707	16.680470
18.7878	5.160622
19.6043	0.597062

Time is in decimal hours from 00:00:00 GMT
DUV is in $\text{mW/m}^2/\text{nm}$