

**EXAMPLE of pivot table output**

Hourly averages of sunshine duration over 20 years, with colour conditional formatting

YYYY (Multiple Items)

SUNSHINE Hourly duration, h	Column Labels												Grand Total
Row Labels	1	2	3	4	5	6	7	8	9	10	11	12	Grand Total
0000	0	0	0	0	0	0	0	0	0	0	0	0	0
0100	0	0	0	0	0	0	0	0	0	0	0	0	0
0200	0	0	0	0	0	0	0	0	0	0	0	0	0
0300	0	0	0	0	0	0	0	0	0	0	0	0	0
0400	0	0	0	0	0	0	0	0	0	0	0	0	0
0500	0	0	0	0.00	0.11	0.17	0.11	0.01	0	0	0	0	0.03
0600	0	0	0.00	0.18	0.38	0.39	0.40	0.25	0.02	0	0	0	0.14
0700	0	0.00	0.11	0.44	0.45	0.44	0.45	0.40	0.30	0.05	0	0	0.22
0800	0.00	0.10	0.32	0.51	0.49	0.50	0.52	0.47	0.43	0.28	0.08	0	0.31
0900	0.15	0.27	0.39	0.54	0.50	0.51	0.52	0.50	0.48	0.38	0.29	0.15	0.39
1000	0.30	0.35	0.44	0.54	0.49	0.49	0.51	0.49	0.51	0.42	0.35	0.27	0.43
1100	0.32	0.37	0.44	0.53	0.46	0.48	0.46	0.46	0.50	0.41	0.36	0.31	0.43
1200	0.34	0.35	0.41	0.49	0.42	0.44	0.43	0.42	0.46	0.40	0.35	0.32	0.40
1300	0.34	0.34	0.39	0.46	0.40	0.40	0.40	0.40	0.44	0.38	0.34	0.31	0.38
1400	0.33	0.32	0.41	0.47	0.40	0.40	0.41	0.42	0.45	0.38	0.34	0.29	0.38
1500	0.29	0.33	0.43	0.47	0.42	0.42	0.45	0.42	0.44	0.39	0.32	0.26	0.39
1600	0.22	0.33	0.42	0.47	0.43	0.43	0.46	0.42	0.43	0.34	0.22	0.13	0.36
1700	0.03	0.24	0.39	0.45	0.44	0.44	0.45	0.44	0.43	0.21	0.01	0	0.30
1800	0	0.02	0.23	0.42	0.44	0.44	0.46	0.42	0.28	0.00	0	0	0.23
1900	0	0	0.00	0.17	0.40	0.44	0.42	0.28	0.01	0	0	0	0.14
2000	0	0	0	0	0.11	0.23	0.22	0.03	0	0	0	0	0.05
2100	0	0	0	0	0	0	0	0	0	0	0	0	0
2200	0	0	0	0	0	0	0	0	0	0	0	0	0
2300	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grand Total</b>	<b>0.10</b>	<b>0.13</b>	<b>0.18</b>	<b>0.26</b>	<b>0.26</b>	<b>0.28</b>	<b>0.28</b>	<b>0.24</b>	<b>0.22</b>	<b>0.15</b>	<b>0.11</b>	<b>0.08</b>	<b>0.19</b>

The conditional formatting quickly highlights the sunniest hours, from which it is easily seen that mornings are sunnier than afternoons owing to the growth of convective cloud, particularly in summer, and that there tends to be a pickup later in the afternoon, as convective cloud begins to die down once more

The five sunniest hours are additionally formatted with borders to enable easy identification - April's mornings are the sunniest, averaging over 30 minutes each hour

*This plot is from real data. It is presented here as a PDF rather than the Excel file, as the original file is > 50 MB file size*