

## Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
		Batavia	50	
Catania	57	0.85	0.80	39
Greenwich/Cape	78	0.68	0.74	47
Kiew	32	0.77	0.75	23
Kelburn/Wellington	47	0.87	0.81	31
Lyons	68	0.78	0.75	44
Roma/Campidoglio	46	0.74	0.68	32
South Hadley	48	0.92	0.91	32
Stonyhurst	58	0.76	0.70	33
Tokyo	60	0.61	0.58	33
Zürich/Arosa	80	0.60	0.60	—

Relative-numbers for the whole sun disc 1930

	Jan.	Febr.	March
1	36	47 d	23 a
2	41 d	73	24
3	55	98 a	28
4	38	M 111 c	54
5	49	117 a	55
6	55 d	110	50
7	62 a	111	50 b
8	68 a	82 a	49 b
9	62	101	53
10	56	66	28
11	E 65 c	E 79 c	17
12	70 bbd	55	30
13	91 a	47	26
14	89	37 a	17
15	96	E 36 c	E 28 c
16	108	22	M 44 c
17	107	21	52 b
18	135 b	23	44 a
19	95	17 a	42
20	63	8	33
21	74 d	10	31
22	59	13	33 d
23	63	17 d	8
24	49 a	20	24
25	39	16	17
26	34	15	25 d
27	E 31 ac	19	36
28	46	26 d	31 a
29	60		30
30	67 d		M 52 c
31	62		52
Mean	65.3	49.2	35.0

Relative-numbers for the central circle zone 1930

	Jan.	Febr.	March
1	19	8	11
2	9	17	10
3	12	19	0
4	0	49	0
5	14	52	29
6	27	55	43
7	34	58	35
8	33	51	49
9	28	74	33
10	32	44	10
11	43	16	0
12	41	19	0
13	35	14	0
14	42	13	0
15	22	17	10
16	25	4	19
17	41	8	41
18	76	21	43
19	55	10	22
20	25	8	18
21	21	7	7
22	17	0	0
23	28	0	0
24	24	0	7
25	22	0	0
26	17	0	6
27	17	19	10
28	32	18	19
29	42		18
30	28		36
31	10		45
Mean	28.1	21.5	16.8

## Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet  
( $\lambda = 0.32 \mu$ ) to green ( $\lambda = 0.50 \mu$ )  
(Ratio for June 1924 = 1)

1930

	Jan.	Febr.	March
1	1.32	1.43	
2	1.54		
3	1.61	1.33	
4		1.36	
5		1.36	
6		1.40	
7		1.43	
8	1.75	1.26	1.51
9		1.22	
10		1.25	1.43
11		1.30	1.51
12	1.78	1.40	1.39
13		1.43	1.36
14		1.29	
15		1.29	
16		1.38	
17		1.30	
18		1.20	
19		1.93	
20			1.36
21	1.47		1.30
22	1.42		1.30
23	1.53	1.96	1.33
24	1.60	1.46	
25		1.29	1.23
26			1.26
27			1.30
28	1.63	1.35	1.20
29			1.22
30	1.14		
31	1.40		
Mean	1.52	1.39	1.34

a) Passage of an average sized group through the central meridian.

b) Passage of a large group or spot through the central meridian.

c) New formation of a large or average sized centre of activity. E: on the eastern part of the Sun's disc, W: on the western part, M: in the central circle zone.

d) Entrance of a large or average sized centre of activity on the east limb.

## Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
		Batavia	70	
Catania	81	0.73	0.74	72
Greenwich/Cape	84	0.77	0.82	73
Kiew	72	0.72	0.86	64
Kelburn/Wellington	46	0.72	0.66	42
Lyons	70	0.77	0.77	67
Roma/Campidoglio	52	0.71	0.67	48
South Hadley	48	0.80	0.75	42
Stonyhurst	74	0.67	0.67	65
Tokyo	51	0.61	0.65	44
Zürich/Arosa	83	0.60	0.60	—

Relative-numbers for the whole sun disc  
1930

	April	May	June
1	56 b	52	31
2	59 d	52 a	28
3	41	50	28 a
4	42	41	M 34 c
5	E 58 c	E 30 c	27
6	57	37	E 34 ac
7	65 b	24 b	E 70 c
8	35	26	65 a
9	E 46 cc	23	62
10	50	19	52
11	56	M 22 c	52
12	50	25	42 a
13	60	25	37
14	45 a	18	23
15	33	32	21
16	22	41 d	20
17	20	35	16
18	14	25	15
19	10	31	9
20	26	39	14
21	30	31	8
22	31 d	33 b	8
23	28	45 d	7
24	23	67	10
25	E 24 c	46	16
26	25	M 43 c	14
27	22	56	E 32 c
28	E 39 ac	38 d	28
29	34 a	52 a	29
30	46	48	31
31		35	
Mean	38.2	36.8	28.8

Relative-numbers for the central circle zone  
1930

	April	May	June
1	28	29	8
2	28	19	9
3	16	18	28
4	6	10	26
5	0	11	11
6	27	26	24
7	41	24	38
8	22	26	19
9	21	0	30
10	16	0	34
11	26	10	31
12	32	14	31
13	39	18	19
14	33	16	9
15	21	22	0
16	10	22	0
17	6	10	0
18	0	0	8
19	0	0	9
20	0	30	7
21	7	23	20
22	9	25	7
23	7	28	0
24	8	27	10
25	0	17	8
26	11	19	7
27	20	45	8
28	23	10	0
29	23	23	19
30	38	22	23
31		16	
Mean	17.3	18.1	14.8

## Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet  
( $\lambda = 0.32 \mu$ ) to green ( $\lambda = 0.50 \mu$ )  
(Ratio for June 1924 = 1)

	1930		
	April	May	June
1			1.11
2			
3			1.16
4	1.22		1.03
5	1.19		1.12
6			1.02
7			1.08
8		1.35	1.14
9		1.56	1.03
10		1.33	1.10
11	1.25	1.22	1.06
12	1.20	1.12	1.09
13		1.08	1.06
14		1.14	0.99
15	1.11	1.10	1.11
16	1.19		1.06
17	1.14		
18	1.13	1.22	1.42
19	1.14		1.67
20	1.04	1.07	1.43
21		1.14	1.38
22	1.00	1.35	1.33
23		1.16	1.22
24			1.20
25	1.14	1.11	1.13
26		1.05	1.20
27			1.22
28		1.11	1.25
29		1.16	1.16
30		1.08	1.14
31			
Mean	1.15	1.19	1.18

a) Passage of an average sized group through the central meridian.

b) Passage of a large group or spot through the central meridian.

c) New formation of a large or average sized centre of activity. E: on the eastern part of the Sun's disc, W: on the western part, M: in the central circle zone.

d) Entrance of a large or average sized centre of activity on the east limb.

## Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
Batavia	85	1.19	1.13	62
Catania	89	0.65	0.64	65
Greenwich/Cape	74	0.78	0.82	54
Kiew	65	0.77	0.91	46
Kelburn/Wellington	—	—	—	—
Lyons	85	0.75	0.75	63
Roma/Campidoglio	74	0.69	0.71	53
South Hadley	9	0.72	0.66	6
Stonyhurst	71	0.67	0.65	51
Tokyo	65	0.63	0.63	45
Zürich/Arosa	90	0.60	0.60	—

Relative-numbers for the whole sun disc  
1930

	Juli	Aug.	Sept.
1	22 <sup>a</sup>	17	56 <sup>d</sup>
2	36	23	46 <sup>a</sup>
3	35	7	M 48 <sup>c</sup>
4	28	7	68 <sup>ad</sup>
5	26	7	66
6	28	17 <sup>d</sup>	73
7	18	17	70
8	18	16	41 <sup>a</sup>
9	W 39 <sup>c</sup>	20	40
10	21	20	41
11	15	21	39 <sup>a</sup>
12	E 26 <sup>c</sup>	21 <sup>a</sup>	33
13	16	23	39
14	24	13	23
15	25	10	28
16	24 <sup>a</sup>	9	17
17	29	10	8
18	9	23 <sup>d</sup>	0
19	8	23	7
20	9	29	7
21	25	31	8
22	14	28	M 10 <sup>c</sup>
23	22	38	12
24	14 <sup>a</sup>	37 <sup>a</sup>	18 <sup>d</sup>
25	15	41	20
26	16	E 35 <sup>c</sup>	35 <sup>d</sup>
27	18	37	33
28	34	43	31
29	33	53	27
30	10	50 <sup>a</sup>	20 <sup>a</sup>
31	22 <sup>a</sup>	47 <sup>a</sup>	
Mean	21.9	24.9	32.1

Relative-numbers for the central circle zone  
1930

	Juli	Aug.	Sept.
1	21	9	27
2	20	0	15
3	8	0	25
4	7	7	36
5	16	0	29
6	28	0	41
7	18	0	23
8	18	7	15
9	16	9	25
10	0	20	19
11	0	22	16
12	8	21	25
13	0	16	11
14	14	12	0
15	25	0	0
16	24	0	0
17	29	0	8
18	0	0	0
19	0	0	7
20	0	0	6
21	0	7	8
22	0	19	10
23	0	38	11
24	0	30	10
25	7	30	11
26	8	9	0
27	9	0	0
28	32	22	0
29	33	31	17
30	10	32	20
31	10	30	
Mean	11.6	12.0	13.8

## Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet  
( $\lambda = 0.32 \mu$ ) to green ( $\lambda = 0.50 \mu$ )  
(Ratio for June 1924 = 1)

1930

	Juli	Aug.	Sept.
1	1.08		1.17
2	1.09	1.02	1.12
3	1.14	1.12	1.08
4	1.14	1.13	1.09
5	1.12	1.14	
6	1.17		1.19
7			1.36
8		1.11	1.25
9		1.17	1.29
10	1.17	1.17	1.31
11	1.17	1.17	1.37
12	1.11	1.16	1.52
13		1.11	
14	1.00	1.13	1.07
15		1.22	1.09
16	1.17	1.14	1.12
17	1.03	1.28	1.28
18	1.11	1.14	1.13
19	1.14	1.07	
20		1.14	1.39
21	1.10	1.12	1.28
22	1.14	1.13	1.26
23	1.14		1.16
24	1.11	1.14	1.25
25	1.08	1.14	
26	1.06	1.16	1.31
27	1.11	1.22	1.13
28	1.06	1.11	1.07
29	1.03	1.06	
30	0.93	1.14	
31		1.17	
Mean	1.10	1.14	1.22

- a) Passage of an average sized group through the central meridian.  
 b) Passage of a large group or spot through the central meridian.  
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## Sunspot Activity.

	Number of observations	Reduction-factor on Wolf's unit		Number of comparisons
		whole disc	central zone	
		Batavia	62	
Catania	72	0.89	0.74	45
Greenwich/Cape	58	0.91	0.82	40
Kiew	48	0.69	0.86	30
Lyons	52	0.84	0.77	38
Roma/Campidoglio	52	0.74	0.67	34
South Hadley	46	0.82	0.75	33
Stonyhurst	50	0.70	0.67	30
Tokyo	68	0.68	0.65	42
Zürich/Arosa	83	0.60	0.60	—

Relative-numbers for the whole sun disc 1930

	Oct.	Nov.	Dez.
1	26	57	45 <sup>a</sup>
2	30 <sup>a</sup>	41	35
3	26	25	33
4	30 <sup>d</sup>	26	20
5	44	16	8
6	43	8	7
7	39	8	7
8	37	8	0
9	35	8	E 8 <sup>c</sup>
10	E 59 <sup>bc</sup>	15	19
11	53	8	21
12	48	15	17
13	56	0	15
14	38	12	22
15	32 <sup>a</sup>	14 <sup>d</sup>	22 <sup>a</sup>
16	24	21	20
17	11	26	30 <sup>d</sup>
18	22	31 <sup>d</sup>	52 <sup>d</sup>
19	22	43 <sup>b</sup>	W 50 <sup>cc</sup>
20	11	57	42
21	8	63 <sup>dd</sup>	33 <sup>e</sup>
22	11 <sup>d</sup>	66	27
23	18	68	29 <sup>a</sup>
24	16	48 <sup>a</sup>	42
25	M 29 <sup>c</sup>	W 58 <sup>c</sup>	52 <sup>a</sup>
26	37	E 76 <sup>abc</sup>	54
27	E 63 <sup>c</sup>	E 72 <sup>c</sup>	38
28	53 <sup>b</sup>	67	19
29	49 <sup>b</sup>	61	8
30	49	51 <sup>a</sup>	15
31	47		15
Mean	34.4	35.6	25.8

Relative-numbers for the central circle zone 1930

	Oct.	Nov.	Dez.
1	26	7	18
2	30	0	11
3	15	0	15
4	11	7	8
5	0	8	0
6	0	0	0
7	0	8	0
8	15	8	0
9	23	8	0
10	49	8	0
11	40	0	0
12	34	7	3
13	45	0	15
14	19	0	22
15	19	0	22
16	16	0	8
17	8	20	0
18	9	23	0
19	8	27	0
20	0	29	0
21	0	26	16
22	0	9	18
23	0	20	25
24	0	11	34
25	17	43	36
26	14	52	19
27	34	35	21
28	46	41	16
29	46	31	0
30	49	30	8
31	25		7
Mean	19.3	15.3	10.4

## Intensity of the ultra-violet Radiation.

(Mount Wilson)

The figures give the ratio ultra-violet  
( $\lambda = 0.32 \mu$ ) to green ( $\lambda = 0.50 \mu$ )  
(Ratio for June 1924 = 1)

1930

	Oct.	Nov.	Dez.
1		1.03	1.13
2	1.09	1.01	1.11
3	1.30	1.04	1.12
4	1.22	0.96	1.12
5	1.20	1.02	1.04
6	1.02	1.02	1.07
7		1.07	1.06
8		1.14	1.11
9		1.17	1.11
10		1.08	1.10
11	1.43	1.20	1.13
12	1.13	1.25	1.02
13	1.08	1.57	1.12
14	1.14		1.05
15	1.17	1.49	1.07
16	1.16		1.05
17	1.10		1.30
18	1.02	1.47	1.36
19	1.05	1.29	1.40
20	1.14	1.25	
21	1.17	1.14	
22	1.14	1.35	1.31
23	1.07	0.97	
24	1.17	0.96	
25	1.12		1.11
26	1.22		
27	1.06		1.09
28	1.11		1.07
29	1.03	0.96	
30	1.07	1.13	1.09
31	1.09		1.20
Mean	1.13	1.16	1.13

a) Passage of an average sized group through the central meridian.

b) Passage of a large group or spot through the central meridian.

c) New formation of a large or average sized centre of activity. E: on the eastern part of the Sun's disc, W: on the western part, M: in the central circle zone.

d) Entrance of a large or average sized centre of activity on the east limb.