

Sunspot Relative-Numbers.

	Number of observations	Reduction-factor on Wolfs unit		Number of observations	Reduction-factor on Wolfs unit
Belgrade	43	0.43	Sonneberg	29	0.56
Catania	59	0.84	South Hadley	43	0.90
Greenwich	81	0.77	Stonyhurst	44	0.92
Kiew	31	0.93	Tokyo	75	0.57
Lyons	45	0.84	Tsinan	60	0.78
Roma/Monte Mario	63	0.65	Zurich	75	0.60

1939	January	February	March	1939	January	February	March
1	41	79 b	102 ad	17	71	M 62 ac	W 83 ac
2	42	M 90 c	92	18	63	61	E 112 c
3	60	97 ad	70	19	E 70 c	EE 62 cc	133
4	M 76 ac	67	75	20	M 74 c	EM 82 cc	112
5	58	56	60 a	21	E 86 acd	92 dd	E 89 c
6	E 90 acd	M 82 c	52	22	83	96 d	77
7	68	76	52 a	23	77	98	74 a
8	78	85 a	44 d	24	W 90 acd	93 a	66 a
9	M 55 cd	64	M 61 c	25	102 aad	112	48
10	EE 134 ccd	E 44 acd	47 d	26	M 86 ac	74 a	49
11	118 aa	49 d	49	27	102	101	41
12	111	73	55	28	103	92	35
13	103	86	E 55 c	29	72 a		41
14	84 a	76	46 a	30	76		36
15	86 aad	56	58	31	76 a		35
16	55	M 62 ac	W 55 ac		Mean 80.3	77.4	64.6

- a = Passage of an average-sized group through the central meridian.
 b Passage of a large group through the central meridian.
 c New formation of a group developing into a middle-sized or large center 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 center of activity on the east limb.

Zurich, June 20, 1939.

W. Brunner.

Sunspot Relative-Numbers.

	Number of observations	Reduction-factor on Wolfs unit		Number of observations	Reduction-factor on Wolfs unit
Belgrade	68	0.42	Sonneberg	—	—
Catania	70	0.83	South Hadley	46	0.84
Greenwich	83	0.79	Stonyhurst	74	0.90
Kiew	76	0.87	Tokyo	51	0.53
Lyons	57	0.92	Tsinan	68	0.75
Roma/Monte Mario	68	0.66	Zurich	73	0.60

1939	April	May	June	1939	April	May	June
1	E 34 c	E 163 c	129	17	109	93 d	92
2	M 85 c	157 aad	120 a	18	102	79 d	MW 91 cc
3	83	119	113 ad	19	94 ad	79	89
4	82 a	141	97 a	20	M 125 acdd	68	56 aa
5	74	124 ab	104 d	21	125	EW 87 cc	68
6	70 ad	115	124	22	115 a	85	68
7	E 63 cd	133 add	127	23	M 152 acd	93 a	65 dd
8	86	105 d	113 d	24	151	E 106 ac	74
9	89 dd	103	116 ad	25	134 a	107	61
10	W 98 c	EM 128 cc	104 a	26	134 abd	97	84 d
11	102 a	101	E 119 c	27	146	104 d	E 109 c
12	100 a	EE 142 cc	102	28	145 ad	138 ad	137 d
13	EW 112 cc	M 121 aac	107 d	29	136	172 add	134 aa
14	E 126 aac	148 aad	112 a	30	140	157	118 a
15	121 b	139	101 a	31		146	
16	141 d	118	97		Mean 109.1	118.3	101.0

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

b = Passage of a large group through the central meridian.

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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 center of activity on the east limb.

Zurich, Septembre 30, 1939.

W. Brunner.

Sunspot Relative-Numbers.

	Number of observations	Reduction-factor on Wolfs unit		Number of observations	Reduction-factor on Wolfs unit
Belgrade	79	0.40	Roma/Monte Mario	73	0.76
Catania	80	0.83	South Hadley	—	—
Greenwich	83	0.86	Stonyhurst	73	0.99
Kiew	—	—	Tokyo	76	0.53
Lyons	68	1.03	Tsinan	64	0.73
Madrid	22	0.69	Zurich	85	0.60

1939	July	August	September	1939	July	August	September
1	103	E 67 ^{cd}	103 ^{ab}	17	85 ^{ab}	128	69 ^d
2	97 ^a	78	116 ^d	18	86	111	67
3	112 ^{dd}	M 73 ^{aac}	124	19	95 ^a	110 ^a	88
4	E 128 ^c	94	E 119 ^{cd}	20	E 113 ^{bc}	104 ^d	70
5	130	90 ^a	136	21	106	94 ^b	89 ^{ad}
6	122	112 ^d	136 ^d	22	96	86	88
7	151	M 106 ^{bc}	114	23	80 ^a	72 ^d	88 ^a
8	167 ^{ab}	E 141 ^{cdd}	E 145 ^{ac}	24	67	75	107 ^d
9	130 ^{ab}	157	159 ^{abd}	25	62	58 ^a	106
10	143	151 ^d	168 ^b	26	53	69 ^d	98 ^d
11	131 ^d	157 ^{aa}	E 136 ^c	27	50 ^a	E 86 ^c	E 105 ^{bcd}
12	118	M 170 ^{ac}	150 ^a	28	W 57 ^{cd}	85	131 ^d
13	101	159 ^{ad}	127	29	M 71 ^c	69	131 ^a
14	97 ^d	138 ^a	92	30	68	M 76 ^c	M 137 ^c
15	M 87 ^c	M 146 ^{acd}	96 ^a	31	46	95 ^b	
16	74	122	83 ^{ad}		Mean 97.6	105.8	112.6

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E, on the eastern part of the Sun's disc; W, on the western part; M, in the central-circle zone.

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Zurich, Decembre 15, 1939.

W. Brunner.

Sunspot Relative-Numbers.

	Number of observations	Reduction-factor on Wolfs unit		Number of observations	Reduction-factor on Wolfs unit
Belgrade	43	0.42	Roma/Monte Mario	49	0.72
Catania	66	0.79	South Hadley	52	0.82
Greenwich	47	0.83	Stonyhurst	56	0.86
Kiew	—	—	Tokyo	64	0.51
Lyons	36	0.83	Tsinan	75	0.70
Madrid	48	0.64	Zurich	59	0.60

1939	October	November	December	1939	October	November	December
1	144 ad	E 81 aacd	54 d	17	79 a	94	52 ad
2	143 a	88	40	18	E 74 acd	103 b	61
3	109	72	43	19	92 d	M 75 c	44 d
4	92 aa	61	27	20	95	50	46
5	90	58 a	18	21	86 a	67 d	46 d
6	82 d	62	M 17 c	22	94 d	66 a	47
7	91 a	66 a	23 a	23	94	62	35
8	91 d	E 37 c	47 d	24	112 a	E 61 c	41
9	77	E 40 c	45	25	112 bd	58	32 a
10	67	M 46 c	52 d	26	100 d	M 59 c	37 a
11	56	E 66 ac	49	27	80	62 a	32
12	E 74 ac	82	E 56 c	28	64 a	61	31
13	85 a	84	48 a	29	E 81 c	43 a	28
14	E 68 ac	E 99 ac	62	30	85	43	47 d
15	E 73 c	87 a	58	31	74 a		34
16	68	111 d	53 a				
					Mean 38.1	68.1	42.1

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Zurich, April 10, 1940.

W. Brunner.