POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946

By LUCY T. DAY

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[Communicated by the Superintendent, U. S. Naval Observatory.] All measurements and spot counts were made at the Naval Observatory from plates taken at the observatories indicated. Difference in longitude is measured from the central meridian, positive toward the west. Latitude is positive towards the north. Areas are corrected for foreshortening and expressed in millionths of Sun's hemisphere. For each day under Mount Wilson group number, longitude, latitude, area of spot or group, and spot count, are included respectively: number of groups, assumed longitude of center of the disk, assumed latitude of center of the disk, total areas of spots and groups, and total spot count.

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	h m		°	°	°	°				
July 1	12 50	8113	−85	84	+21	85	12	1	G	U. S. Naval.
		8111	−80	89	−29	82	194	1		
		8109	−79	90	−19	79	145	1		
		8112	−76	93	+14	76	48	1		
		8111	−73	96	−27	77	145	5		
		8110	−72	97	+18	72	121	3		
		8109	−71	98	−18	74	12	1		
		8109	−67	102	−17	70	145	1		
		8106	−53	116	+23	55	388	1		
		8105	−38	131	+29	44	97	1		
		8101	+20	189	−29	37	24	12		
		8101	+29	198	−29	42	24	7		
		8103	+53	222	+21	55	6	2		
		8095	+68	237	−22	70	12	2		
		8098	+68	237	−17	70	6	1		
		(11)		(169)	(+3)		1,379	40		
2	15 18	8113	−68	87	+23	69	6	1	G	Do.
		8111	−63	92	−29	68	339	10		
		8109	−62	93	−19	65	48	4		
		8112	−60	95	+15	61	12	1		
		8111	−59	96	−26	64	412	10		
		8110	−57	98	+18	59	121	8		
		8109	−53	102	−17	57	109	1		
		8110	−52	103	+18	53	12	1		
		8106	−41	114	+21	43	12	1		
		8106	−39	116	+22	41	485	2		
		8105	−22	133	+28	33	73	1		
		8101	+45	200	−30	55	12	1		
		8095	+80	235	−20	80	12	1		
		8098	+82	237	−18	82	6	1		
		(10)		(155)	(+3)		1,659	43		
3	11 11	8111	−52	92	−28	59	339	6	VG	Do.
		8109	−51	93	−18	55	6	2		
		8112	−50	94	+15	51	12	1		
		8111	−49	95	−25	55	97	13		
		8109	−49	95	−18	53	24	2		
		8109	−47	97	−18	52	12	1		
		8110	−47	97	+18	49	97	12		
		8111	−44	100	−26	51	145	2		
		8110	−42	102	+18	43	48	8		
		8109	−41	103	−17	46	97	1		
		8106	−31	113	+21	35	61	6		
		8106	−29	115	+21	33	485	1		
		8106	−29	115	+23	34	12	9		
		8105	−12	132	+28	27	61	1		
		8101	+55	199	−30	63	12	1		
		(7)		(144)	(+3)		1,508	66		
4	10 9	8111	−40	91	−29	50	291	7	F	Do.
		8109	−40	91	−19	44	6	1		
		8112	−38	93	+14	40	6	1		
		8109	−37	94	−19	43	73	10		
		8111	−36	95	−25	45	97	4		
		8110	−34	97	+18	35	48	4		
		8109	−32	99	−19	37	48	5		
		8111	−31	100	−27	42	73	2		
		8110	−29	102	+18	31	24	2		
		8109	−29	102	−18	35	61	1		
		8106	−19	112	+21	25	48	4		
		8106	−17	114	+21	25	485	1		
		8105	+1	132	+28	27	48	1		
		(6)		(131)	(+3)		1,308	43		
5	10 38	8111	−27	90	−29	40	436	10	G	Do.
		8112	−24	93	+14	26	6	1		
		8111	−23	94	−26	38	194	10		
		8109	−23	94	−19	32	97	12		
		8110	−20	97	+17	25	12	1		
		8109	−18	99	−19	28	48	13		
		8111	−17	100	−27	35	109	5		
		8110	−17	100	+18	22	48	6		
		8109	−15	102	−18	26	61	1		
		8106	−6	111	+21	18	36	7		
		8106	−3	114	+21	18	485	1		
		8106	−2	115	+22	19	48	8		
		8105	+15	132	+28	30	48	1		
		8114	+47	164	+17	49	24	9		
		(7)		(117)	(+3)		1,652	85		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	h m		°	°	°	°				
July 6	9 12	8111	−15	90	−27	33	388	14	F	Mt. Wilson.
		8111	−10	95	−25	30	194	21		
		8109	−10	95	−18	23	73	7		
		8112	−10	95	+15	15	6	1		
		8110	−7	98	+18	17	12	5		
		8111	−5	100	−25	28	145	12		
		8109	−5	100	−18	22	48	9		
		8110	−5	100	+20	17	61	4		
		8110	−3	102	+18	15	48	15		
		8109	−3	102	−17	20	73	1		
		8106	+9	114	+24	23	24	12		
		8106	+10	115	+23	22	485	1		
		8105	+15	120	+27	29	36	10		
		8105	+28	133	+29	37	12	3		
		8114	+65	170	+19	66	73	9		
		(7)		(105)	(+3)		1,678	124		
7	13 27	8111	−6	83	−34	38	12	1	G	U. S. Naval.
		8115	−1	88	+9	5	6	1		
		8111	0	89	−29	33	170	9		
		(*)	+2	91	+27	24	6	1		
		8111	+5	94	−25	29	145	10		
		8109	+5	94	−18	22	36	2		
		8109	+8	97	−19	24	61	2		
		8112	+8	97	+13	12	6	2		
		8110	+9	98	+21	19	61	6		
		8111	+11	100	−26	31	61	7		
		8109	+13	102	−17	26	48	1		
		8110	+13	102	+19	20	48	10		
		8106	+25	114	+22	30	339	5		
		8105	+42	131	+29	47	24	6		
		8116	+55	144	+22	57	12	3		
		8114	+76	165	+18	76	97	1		
		8114	+80	169	+17	80	97	1		
		(10)		(89)	(+4)		1,229	68		
8	11 0	8117	−79	359	−13	80	24	2	G	Do.
		8117	−71	7	−12	72	6	1		
		8111	+11	89	−29	34	315	12		
		8111	+18	96	−26	35	242	15		
		8109	+18	96	−18	28	24	5		
		8112	+20	98	+15	23	12	2		
		8109	+21	99	−19	31	48	13		
		8110	+21	99	+21	27	61	4		
		8111	+23	101	−26	38	48	15		
		8109	+25	103	−18	32	61	2		
		8106	+38	116	+22	41	388	10		
		8105	+55	133	+30	58	6	1		
		8116	+69	147	+21	69	48	7		
		(8)		(78)	(+4)		1,283	89		
9	8 46	8117	−65	1	−13	67	97	6	F	Mt. Wilson.
		8111	+23	89	−27	38	194	10		
		8109	+29	95	−17	36	24	2		
		8111	+30	96	−25	41	145	17		
		8110	+33	99	+22	36	36	1		
		8109	+37	103	−17	42	48	1		
		8111	+37	103	−25	47	24	6		
		8106	+47	113	+24	50	24	1		
		8106	+48	114	+23	51	97	6		
		8106	+51	117	+23	53	145	3		
		8116	+81	147	+22	81	48	1		
		(6)		(66)	(+4)		882	54		
10	10 47	8118	−75	336	−20	77	24	3	F	U. S. Naval.
		8117	−55	356	−10	57	24	3		
		8117	−48	3	−11	51	97	7		
		(*)	+20	71	−10	25	12	4		
		8111	+39	90.	−29	50	97	6		
		8111	+43	94	−28	52	73	4		
		8111	+45	96	−25	53	12	1		
		8110	+48	99	+20	50	24	1		
		8109	+51	102	−19	56	48	1		
		8106	+61	112	+22	61	97	2		
		8106	+65	116	+21	65	121	1		
		(7)		(51)	(+4)		629	33		
11	12 56	8118	−64	333	−21	67	194	2	G	Do.
		8118	−61	336	−20	65	61	2		
		8117	−39	358	−11	42	48	9		
		8117	−34	3	−12	36	73	8		
		8119	−33	4	+19	36	24	3		
		8111	+50	87	−30	58	109	6		
		8111	+57	94	−29	64	97	2		
		8109	+68	105	−19	70	12	1		
		8110	+69	106	+17	69	48	1		
		8106	+76	113	+21	76	97	1		
		8106	+80	117	+20	80	121	2		
		(7)		(37)	(+4)		884	37		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	*h m*		°	°	°	°				
July 12	8 37	8121	−80	307	+22	80	339	1	G	Mt. Wilson.
		8120	−62	325	−18	65	12	1		
		8118	−51	336	−20	56	194	5		
		8118	−49	338	−19	53	121	7		
		8117	−26	1	−11	30	48	9		
		8119	−24	3	+18	27	24	7		
		8117	−22	5	−12	26	73	15		
		8119	−20	7	+18	24	48	6		
		8111	+65	92	−29	70	194	9		
		8111	+71	98	−28	76	97	7		
		8109	+83	110	−19	83	12	1		
		(7)		(27)	(+4)		1,162	68		
13	11 6	8121	−69	302	+22	70	339	2	G	U. S. Naval.
		8118	−39	332	−20	44	145	11		
		8118	−35	336	−19	42	170	8		
		8117	−12	359	−12	19	61	7		
		8119	−11	0	+18	18	61	3		
		8117	−10	1	−12	18	48	4		
		8117	−7	4	−11	17	16	2		
		8119	−7	4	+17	15	12	6		
		8119	−3	8	+17	15	24	3		
		8111	+78	89	−30	80	194	2		
		(5)		(11)	(+4)		1,070	48		
14	11 11	8121	−56	302	+22	58	339	1	F	Do.
		8122	−53	305	−17	56	24	7		
		8120	−39	319	−20	45	48	10		
		8118	−26	332	−21	36	170	13		
		8118	−23	335	−20	33	145	11		
		8117	+1	359	−12	15	121	9		
		8119	+3	1	+17	14	24	4		
		8119	+10	8	+16	16	48	11		
		(6)		(358)	(+4)		919	66		
15	11 10	8121	−42	303	+22	45	339	1	F	Do.
		8122	−39	306	−15	43	16	5		
		8122	−35	310	−16	40	24	3		
		8120	−27	318	−21	37	12	2		
		8118	−12	333	−21	28	121	8		
		8118	−6	339	−20	25	121	6		
		8117	+15	0	−14	22	24	7		
		8119	+18	3	+17	23	24	3		
		8119	+23	8	+18	27	24	4		
		8119	+26	11	+17	29	145	5		
		(6)		(345)	(+4)		850	44		
16	10 43	8124	−85	247	−24	85	97	3	VG	Do.
		8125	−83	249	+26	83	48	1		
		8121	−31	301	+22	35	12	6		
		8121	−29	303	+22	32	339	1		
		8122	−27	305	−15	32	73	16		
		8122	−22	310	−16	28	73	8		
		8123	−17	315	+24	26	48	1		
		8123	−16	316	+23	25	12	7		
		8120	−13	319	−21	28	12	2		
		8118	+3	335	−20	23	48	9		
		8118	+7	339	−19	24	97	11		
		8117	+28	0	−11	32	6	3		
		8119	+35	7	+17	37	48	18		
		8119	+40	12	+17	42	170	1		
		(9)		(332)	(+4)		1,083	87		
17	11 3	8125	−70	248	+26	71	24	1	G	Do.
		8124	−69	249	−24	71	48	1		
		8124	−65	253	−23	70	73	3		
		8121	−17	301	+21	24	364	1		
		8122	−13	305	−16	23	145	27		
		8122	−7	311	−17	24	242	3		
		8123	−4	314	+24	20	48	2		
		8123	−1	317	+23	19	12	7		
		8120	0	318	−20	25	12	6		
		8118	+15	333	−21	29	12	3		
		8118	+21	339	−20	32	36	5		
		8126	+45	3	−37	59	12	3		
		8119	+47	5	+17	49	121	12		
		8119	+54	12	+17	56	242	16		
		(9)		(318)	(+5)		1,391	90		
18	9 22	8128	−80	226	+15	80	24	1	G	Mt. Wilson.
		8125	−58	248	+26	59	12	1		
		8124	−57	249	−24	61	24	5		
		8124	−52	254	−23	57	48	6		
		8121	−9	297	+23	21	24	15		
		8121	−3	303	+22	18	388	1		
		8122	+1	307	−16	21	194	42		
		8122	+8	314	−16	23	339	5		

See footnotes at end of table.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	*h m*		°	°	°	°				
July 18	9 22	8123	+10	316	+24	22	97	30	G	Mt. Wilson.
		8118	+27	333	−21	37	12	3		
		8118	+34	340	−19	41	24	7		
		8117	+56	2	−11	58	12	1		
		8127	+57	3	−19	60	24	7		
		8126	+58	4	−38	67	61	1		
		8127	+60	6	−18	63	36	3		
		8119	+63	9	+18	63	170	14		
		8119	+70	16	+18	71	291	1		
		(11)		(306)	(+5)		1,780	143		
19	11 23	8129	−88	204	+20	88	388	1	G	U. S. Naval.
		8128	−67	225	+15	67	24	1		
		8124	−44	248	−23	51	48	1		
		8124	−43	249	−24	51	24	2		
		8121	−3	289	+20	16	6	1		
		8121	+10	302	+21	19	339	1		
		8122	+10	302	−14	21	121	1		
		8122	+13	305	−17	24	97	13		
		8122	+21	313	−17	30	291	3		
		8123	+22	314	+24	28	97	9		
		8123	+25	317	+22	30	61	8		
		8118	+40	332	−20	47	12	1		
		8118	+50	342	−20	55	12	1		
		8126	+70	2	−40	78	24	1		
		8127	+71	3	−19	74	48	4		
		8119	+74	6	+16	74	194	6		
		8127	+77	9	−21	78	194	1		
		8119	+84	16	+16	84	291	1		
		(10)		(292)	(+5)		2,271	56		
20	10 31	8129	−85	194	+19	85	582	1	F	Do.
		8129	−85	194	+23	85	388	2		
		8129	−80	199	+20	80	194	1		
		8129	−79	200	+22	79	291	1		
		8129	−75	204	+20	75	388	1		
		8128	−55	224	+15	57	24	2		
		8124	−31	248	−23	41	24	3		
		8124	−29	250	−24	41	12	1		
		8121	+20	299	+22	26	6	1		
		8121	+23	302	+21	27	388	1		
		8122	+24	303	−15	30	97	4		
		8122	+27	306	−17	34	73	7		
		8122	+33	312	−17	40	267	9		
		8123	+33	312	+24	37	97	7		
		8123	+37	316	+22	40	73	5		
		8118	+64	343	−19	67	12	3		
		(7)		(279)	(+5)		2,916	49		
21	10 24	8129	−73	193	+23	73	485	3	F	Do.
		8129	−69	197	+19	69	970	2		
		8129	−68	198	+23	69	582	1		
		8133	−68	198	−19	70	73	5		
		8129	−64	202	+19	64	388	8		
		8129	−64	202	+23	65	339	5		
		8129	−61	205	+21	61	339	1		
		8128	−42	224	+17	44	12	3		
		8132	−38	228	+22	41	12	3		
		8124	−18	248	−23	33	36	8		
		8124	−15	251	−23	31	12	1		
		8130	+17	283	+13	20	48	10		
		8121	+33	299	+22	36	24	4		
		8121	+36	302	+21	37	364	1		
		8122	+38	304	−15	43	97	7		
		8131	+43	309	−20	49	6	3		
		8122	+45	311	−16	50	48	4		
		8123	+45	311	+25	48	97	4		
		8122	+48	314	−17	53	339	1		
		8123	+50	316	+22	52	48	4		
		(10)		(266)	(+5)		4,319	78		
22	11 50	8129	−61	191	+23	62	679	5	G	Do.
		8129	−57	195	+23	59	582	3		
		8133	−57	195	−19	61	73	7		
		8129	−56	196	+19	57	1,503	18		
		8133	−50	202	−19	54	170	1		
		8129	−49	203	+23	51	339	14		
		8129	−47	205	+21	50	315	1		
		8128	−29	223	+12	21	12	6		
		8132	−25	227	+21	29	24	5		
		8124	−1	251	−20	25	6	2		
		8130	+32	284	+13	33	48	3		
		8121	+47	299	+22	50	24	1		
		8121	+50	302	+21	52	364	1		
		8122	+53	305	−17	57	97	13		
		8131	+57	309	−20	61	97	5		
		8123	+59	311	+25	60	73	4		
		8122	+61	313	−17	64	388	1		
		8123	+62	314	+23	63	97	1		
		(10)		(252)	(+5)		4,891	91		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	*h m*		°	°	°	°				
July 23	12 1	8129	−47	191	+23	50	679	5	G	U. S. Naval.
		8129	−43	195	+23	45	533	1		
		8129	−43	195	+19	45	1,309	9		
		8133	−42	196	−19	47	24	5		
		8133	−37	201	−19	44	121	1		
		8129	−37	201	+23	40	388	5		
		8129	−35	203	+20	37	533	6		
		8129	−31	207	+22	34	73	1		
		8132	−13	225	+20	20	12	2		
		8130	+44	282	+14	45	24	1		
		8121	+60	298	+23	60	48	1		
		8121	+61	299	+20	61	48	1		
		8121	+61	299	+21	61	339	3		
		8131	+70	308	−22	72	48	3		
		8123	+70	308	+25	71	242	3		
		8123	+75	313	+23	76	97	1		
		8122	+78	316	−17	80	388	1		
		8131	+80	318	−20	80	194	1		
		(8)		(238)	(+5)		5,100	50		
24	11 0	8129	−35	191	+23	38	679	4	G	Do.
		8129	−32	194	+20	35	1,018	7		
		8129	−30	196	+23	34	533	1		
		8133	−29	197	−18	37	48	9		
		8129	−28	198	+19	31	242	9		
		8129	−27	199	+23	31	533	6		
		8133	−26	200	−18	35	48	1		
		8133	−24	202	−18	34	145	1		
		8129	−23	203	+20	27	582	6		
		8129	−19	207	+21	25	97	5		
		8128	−1	225	+15	10	12	3		
		8121	+75	301	+21	76	291	1		
		8121	+75	301	+20	75	48	2		
		(4)		(226)	(+5)		4,276	55		
25	10 3	8129	−23	190	+23	28	679	7	G	Mt. Wilson.
		8129	−19	194	+20	24	970	15		
		8129	−18	195	+23	25	533	2		
		8129	−16	197	+21	23	533	13		
		8133	−15	198	−19	28	24	12		
		8129	−12	201	+21	20	485	21		
		8129	−10	203	+20	18	267	1		
		8133	−10	203	−18	25	145	2		
		8129	−7	206	+22	18	218	17		
		8128	+11	224	+17	17	24	4		
		8121	+87	300	+22	87	194	1		
		(4)		(213)	(+5)		4,072	95		
26	10 48	8135	−80	119	−26	82	388	1	VG	U. S. Naval.
		8134	−50	149	+11	50	24	11		
		8134	−49	150	+12	50	36	1		
		8129	−9	190	+23	21	533	12		
		8129	−6	193	+21	17	1,551	18		
		8133	−3	196	−19	24	6	2		
		8129	0	199	+21	16	921	27		
		8133	+3	202	−18	24	97	7		
		8129	+4	203	+20	16	242	1		
		8129	+5	204	+23	20	242	18		
		8128	+22	221	+13	23	24	12		
		8132	+29	228	+21	33	6	1		
		(6)		(199)	(+5)		4,070	111		
27	10 36	8136	−74	112	+11	74	145	3	G	Do.
		8135	−72	114	−24	75	194	3		
		8135	−64	122	−24	68	533	6		
		8134	−38	148	+12	38	61	14		
		8134	−33	153	+12	34	73	8		
		8129	+3	189	+23	19	485	13		
		8129	+5	191	+19	15	436	16		
		8129	+6	192	+23	19	727	6		
		8129	+8	194	+20	17	533	7		
		8133	+12	198	−18	27	12	9		
		8129	+13	199	+23	22	921	28		
		8133	+15	201	−18	28	12	9		
		8129	+18	204	+20	23	194	16		
		8128	+34	220	+14	36	61	11		
		8132	+40	226	+21	42	12	2		
		(7)		(186)	(+5)		4,399	151		
28	11 44	8137	−80	92	−30	82	485	2	VG	Do.
		8137	−70	102	−29	75	242	3		
		8137	−69	103	−28	72	97	1		
		8136	−64	108	+10	64	145	15		
		8135	−60	112	−26	65	170	1		
		8136	−59	113	+9	59	291	1		
		8135	−52	120	−26	58	485	1		

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS FOR JULY 1946—Continued

Date	Eastern standard time	Mount Wilson group No.	Heliographic: Difference in longitude	Heliographic: Longitude	Heliographic: Latitude	Heliographic: Distance from center of disk	Area of spot or group	Spot count	Plate quality	Observatory
1946	*h m*		°	°	°	°				
July 28	11 44	8134	−25	147	+11	26	121	21	VG	U. S. Naval.
		8134	−24	148	+9	25	6	2		
		8129	+17	189	+23	24	485	9		
		8129	+21	193	+20	27	1,454	19		
		8129	+26	198	+21	30	776	16		
		8133	+28	200	−18	37	48	3		
		8129	+30	202	+19	32	206	1		
		8129	+32	204	+21	35	339	16		
		8128	+48	220	+14	49	12	2		
		(7)		(172)	(+5)		5,362	113		
29	11 10	8139	−72	88	−26	78	24	2	G	Do.
		8137	−69	91	−27	74	97	3		
		8137	−65	95	−30	72	485	5		
		(*)	−61	99	−17	66	12	1		
		8137	−56	104	−27	65	436	10		
		8136	−56	104	+11	56	267	3		
		8136	−50	110	+11	50	121	17		
		8135	−46	114	−30	58	24	5		
		8135	−46	114	−26	57	145	6		
		8136	−45	115	+9	45	291	2		
		8135	−39	121	−26	51	485	4		
		8138	−37	123	+19	39	12	1		
		8134	−19	141	+13	21	97	18		
		8134	−18	142	+13	20	24	1		
		8129	+30	190	+23	34	436	5		
		8129	+34	194	+21	36	1,406	16		
		8129	+40	200	+21	42	630	15		
		8129	+42	202	+20	43	194	1		
		8133	+42	202	−17	48	36	2		
		8129	+44	204	+23	46	388	14		
		(9)		(160)	(+6)		5,610	131		
30	11 8	8139	−58	88	−27	66	24	5	VG	Do.
		8137	−52	94	−30	62	48	5		
		8137	−48	98	−29	59	158	7		
		(*)	−47	99	−18	53	12	1		
		8136	−42	104	+11	42	315	15		
		8137	−41	105	−28	53	339	6		
		8136	−36	110	+10	36	48	10		
		8137	−33	113	−26	46	145	2		
		8137	−32	114	−30	48	12	5		
		8136	−32	114	+9	32	388	8		
		8135	−29	117	−26	44	97	7		
		8135	−26	120	−26	41	485	1		
		8140	−24	122	+19	27	24	2		
		8138	−5	141	+14	11	12	4		
		8134	+4	150	+14	10	194	31		
		8129	+41	187	+23	43	291	6		
		8129	+47	193	+23	50	630	3		
		8129	+50	196	+20	51	582	13		
		8129	+53	199	+23	55	533	5		
		8129	+56	202	+20	58	194	1		
		8133	+56	202	−17	61	12	2		
		8129	+60	206	+22	61	582	10		
		(10)		(146)	(+6)		5,125	149		
31	10 58	8139	−45	88	−25	55	12	3	G	Do.
		8137	−40	93	−26	52	145	7		
		8137	−39	94	−29	52	291	8		
		8137	−35	98	−26	47	194	17		
		8137	−29	104	−25	43	73	3		
		8136	−28	105	+10	29	388	11		
		8137	−27	106	−26	43	267	4		
		8136	−23	110	+10	24	24	5		
		8135	−20	113	−25	37	145	2		
		8136	−17	116	+9	18	436	11		
		8135	−15	118	−24	34	48	7		
		8135	−13	120	−24	32	436	3		
		8140	−10	123	+17	15	6	1		
		8138	+9	142	+13	12	12	4		
		8138	+16	149	+12	17	48	9		
		8134	+18	151	+13	20	73	8		
		8129	+54	187	+24	56	291	4		
		8129	+57	190	+23	59	630	7		
		8129	+60	193	+20	61	533	15		
		8129	+65	198	+23	66	582	20		
		8129	+68	201	+19	68	194	1		
		8129	+71	204	+21	71	582	12		
		(8)		(133)	(+6)		5,410	162		

Mean daily area for 31 days=2,586
Mean 10 g+s for 31 days=158.4

*Not numbered.
V=very good; G=good; F=fair; P=poor.
g=number of groups; s=number of spots.