

U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, *Secretary*

WEATHER BUREAU

F. W. REICHELDERFER, *Chief*

TECHNICAL PAPER No. 12

Sunshine and Cloudiness  
at  
Selected Stations in the United States,  
Alaska, Hawaii, and Puerto Rico

Prepared by

CLIMATOLOGICAL BRANCH

DIVISION OF CLIMATOLOGICAL AND HYDROLOGIC SERVICES



WASHINGTON

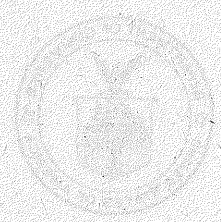
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U. S. DEPARTMENT OF COMMERCE  
BUREAU OF WEATHER SERVICE  
WASHINGTON, D. C.

TECHNICAL TABLE NO. 12

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at  
Selected Stations in the United States,  
Alaska, Hawaii, and Puerto Rico

Prepared by  
CLARENCE S. BRADY  
OFFICE OF CLIMATOLOGY AND METEOROLOGICAL SERVICE



WASHINGTON  
1931

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SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES, ALASKA, HAWAII, AND PUERTO RICO

AVERAGE NUMBER OF HOURS AND PERCENTAGE OF POSSIBLE SUNSHINE

Stations	Yrs. Thru 1948	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual		
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	
ALABAMA																												
Birmingham	43	149	47	159	51	217	58	248	64	289	67	298	69	274	63	271	65	253	68	241	69	189	60	136	44	2724	61	
Mobile	41	165	52	172	54	225	61	263	69	302	71	290	68	258	60	256	63	243	65	246	70	198	63	149	46	2767	62	
Montgomery	37	165	52	171	54	229	62	267	68	310	72	307	72	283	65	281	68	254	69	248	70	202	64	149	48	2866	64	
ARIZONA																												
Phoenix	52	238	75	240	78	303	81	340	87	397	92	401	93	363	83	342	83	327	88	308	88	260	83	233	75	3752	84	
Yuma	39	257	81	261	84	332	89	365	95	415	97	418	97	401	92	375	91	346	93	327	93	280	89	254	82	4031	90	
ARKANSAS																												
Fort Smith	41	161	52	170	56	218	59	242	62	287	66	316	73	341	77	312	75	268	72	231	66	174	56	153	50	2873	64	
Little Rock	53	153	49	162	53	216	58	247	63	288	66	316	73	318	72	304	73	264	71	244	70	176	57	143	47	2831	63	
CALIFORNIA																												
Bakersfield																												
Eureka	51	117	39	129	42	176	48	216	52	242	54	253	55	230	50	187	44	186	49	164	48	120	42	119	41	2139	47	
Fresno	50	136	44	188	61	266	72	325	82	386	88	413	94	432	97	404	96	344	92	300	86	222	72	141	47	3557	80	
Los Angeles	51	219	70	210	68	255	69	266	68	277	64	300	69	343	78	330	80	286	77	266	76	245	79	220	72	3217	72	
Red Bluff	28	143	47	170	56	239	64	293	74	349	79	385	86	432	95	401	94	326	87	266	77	180	60	141	49	3325	73	
Sacramento	42	132	43	172	57	250	68	304	76	366	82	401	90	435	96	405	95	339	91	283	82	196	65	128	43	3411	74	
San Diego	53	215	68	208	67	253	68	261	67	259	60	260	61	296	68	291	70	263	71	248	71	240	76	219	70	3013	68	
San Francisco	56	162	53	175	57	237	64	281	71	310	70	335	76	308	69	267	63	263	70	244	70	190	62	163	55	2935	66	
COLORADO																												
Denver	57	205	68	201	66	238	64	250	63	272	61	310	69	311	68	286	67	265	70	242	70	201	67	190	65	2971	67	
Grand Junction	48	177	58	186	61	241	65	263	66	314	71	352	79	342	76	307	73	284	76	254	73	203	67	171	58	3094	69	
Pueblo	48	232	76	226	74	268	72	275	69	309	70	339	77	335	75	313	74	289	78	262	75	226	75	214	72	3288	74	
CONNECTICUT																												
Hartford	36	138	47	165	55	207	56	221	55	260	57	269	59	276	60	254	59	210	56	188	55	138	47	129	46	2455	54	
New Haven	48	156	53	181	61	224	60	235	59	277	62	289	64	298	65	275	64	236	63	218	63	161	54	157	55	2707	61	
D.C.																												
Washington	54	140	46	162	54	207	56	232	58	274	62	280	63	288	64	260	61	230	61	212	61	161	53	137	46	2583	57	
FLORIDA																												
Apalachicola	21	195	57	201	63	252	66	290	72	337	78	300	70	290	65	274	64	250	65	267	74	227	69	182	55	3065	66	
Jacksonville	50	184	57	187	59	250	67	276	72	300	71	267	63	268	62	262	64	225	61	211	60	196	61	170	53	2796	62	
Key West	33	224	67	238	75	289	78	297	78	300	73	278	68	290	69	279	69	242	66	235	65	223	68	221	68	3116	70	
Miami	37	213	65	226	71	268	72	279	73	279	67	250	60	274	65	272	67	228	62	224	63	207	64	211	65	2931	66	
Pensacola	29	176	54	178	56	234	63	270	70	303	72	302	72	280	65	276	67	258	70	264	74	206	64	167	53	2914	65	
Tampa	51	202	61	211	66	263	71	288	75	310	74	272	65	262	62	261	64	239	64	239	67	217	67	198	62	2962	67	
GEORGIA																												
Atlanta	51	158	50	167	52	222	60	260	66	301	70	302	70	274	63	255	61	247	67	242	69	194	62	150	48	2772	62	
Augusta	45	180	56	191	61	250	67	281	72	317	74	311	72	296	68	297	70	262	71	257	73	208	66	176	55	3026	68	
Macon	49	170	54	175	56	236	63	268	69	310	72	303	71	292	67	284	69	257	69	249	71	203	65	160	51	2907	65	
Savannah	53	171	53	175	54	235	62	266	66	295	68	278	64	261	60	247	59	220	59	222	63	199	63	165	52	2734	61	
IDAHO																												
Boise	7	117	41	129	43	218	59	251	62	286	63	317	68	396	86	369	85	282	74	200	59	99	34	95	34	2759	59	
Pocatello	47	121	41	146	49	211	57	244	61	296	65	339	74	268	79	338	78	281	75	226	66	151	52	106	42	2827	63	
ILLINOIS																												
Cairo	17	154	50	161	53	219	59	256	65	307	70	343	78	367	82	328	78	276	74	247	71	168	55	135	45	2961	65	
Chicago	54	131	45	147	49	198	53	234	58	284	63	313	69	341	74	300	70	241	64	207	60	138	47	114	40	2648	58	
Moline	4	146	49	134	45	190	51	210	53	241	54	262	58	358	78	293	69	226	60	209	61	99	33	125	43	2493	56	
Peoria	43	145	49	160	53	210	57	237	60	283	63	318	70	352	77	301	70	251	67	215	62	151	51	128	45	2751	60	
Springfield	46	146	48	156	52	201	55	230	58	278	62	310	69	350	77	304	71	250	67	220	64	161	53	129	44	2735	60	
INDIANA																												
Evansville	36	141	46	151	50	205	55	243	59	298	63	324	69	351	77	311	71	270	68	225	64	159	54	126	45	2804	60	
Fort Wayne	36	115	39	129	44	190	51	220	55	273	61	308	68	338	74	293	69	237	63	191	56	116	39	91	32	2501	54	
Indianapolis	46	128	42	136	46	181	49	222	56	276	62	303	68	332	73	290	68	254	68	214	62	148	49	112	39	2599	57	
Terre Haute	35	137	45	146	48	196	53	221	55	269	60	297	67	338	75	293	69	249	67	221	64	153	51	125	42	2645	58	

AVERAGE NUMBER OF HOURS AND PERCENTAGE OF POSSIBLE SUNSHINE

Stations	Yrs. Thru 1948	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
<b>IOWA</b>																											
Burlington	6	146	53	148	49	188	51	224	56	244	54	288	64	366	80	314	74	247	66	225	65	116	39	130	45	2636	58
Charles City	42	143	49	159	54	204	55	233	58	276	62	300	67	348	75	301	70	238	64	196	57	133	48	118	43	2649	58
Davenport	38	135	46	149	50	202	54	230	57	282	62	310	69	341	74	293	68	238	63	197	57	143	48	113	40	2633	57
Des Moines	53	162	55	172	58	212	57	239	59	280	62	305	67	346	75	297	69	240	64	218	63	157	53	141	50	2769	62
Dubuque	49	141	48	153	51	193	52	232	58	269	59	296	65	334	72	284	66	224	60	187	54	132	45	113	40	2558	56
Sioux City	39	160	55	174	59	219	59	234	58	279	62	303	66	348	75	309	72	247	66	212	62	152	52	140	49	2777	62
<b>KANSAS</b>																											
Concordia	39	181	60	183	61	241	65	259	65	298	67	331	74	368	81	327	77	269	72	237	69	195	65	166	57	3055	66
Dodge City	58	206	67	202	66	253	68	267	67	299	68	325	73	351	78	329	78	284	76	259	75	215	71	201	68	3191	72
Topeka	49	170	56	174	58	219	59	234	59	279	63	299	67	344	76	305	72	246	66	222	64	178	59	153	52	2823	63
Wichita	35	187	61	196	64	245	65	255	64	295	67	324	73	369	82	329	78	270	72	235	68	197	65	168	57	3070	68
<b>KENTUCKY</b>																											
Louisville	54	133	42	144	47	192	52	227	57	280	63	303	68	325	72	293	70	254	68	266	65	155	51	116	39	2688	58
<b>LOUISIANA</b>																											
New Orleans	56	161	49	160	51	213	57	243	63	286	66	271	64	248	58	242	59	238	65	246	69	189	60	146	46	2643	59
Shreveport	5	169	53	159	51	217	58	266	68	293	68	333	78	350	81	321	78	259	69	276	78	193	62	152	49	2988	66
<b>MAINE</b>																											
Eastport	54	130	45	148	50	192	52	206	51	237	51	248	53	261	55	247	57	204	54	169	50	106	37	108	39	2256	51
Portland	53	157	58	176	59	220	59	232	57	266	58	285	62	303	65	281	65	228	64	194	57	140	48	146	51	2628	58
<b>MARYLAND</b>																											
Baltimore	53	149	49	171	55	217	58	236	59	273	61	284	64	295	65	270	64	240	64	220	63	167	55	144	49	2666	59
<b>MASSACHUSETTS</b>																											
Boston	54	144	49	166	56	213	58	227	57	267	59	283	62	292	53	270	63	227	61	197	58	142	48	134	48	2562	57
<b>MICHIGAN</b>																											
Alpena	35	78	27	126	43	196	53	230	57	265	57	294	63	325	69	267	61	189	50	136	40	63	22	56	21	2225	48
Detroit	57	100	34	126	42	181	49	210	53	261	58	294	64	319	69	281	65	226	60	183	53	104	35	82	29	2367	52
Escanaba	41	112	39	141	49	189	50	213	52	253	55	279	60	304	64	262	60	199	53	157	46	99	33	91	33	2299	50
Grand Rapids	43	76	26	113	38	181	49	221	55	273	60	301	66	334	72	287	67	214	58	164	48	90	31	61	22	2315	49
Lansing	37	98	33	133	44	196	53	232	58	288	63	317	69	349	75	295	68	221	59	179	52	101	35	80	28	2489	53
Marquette	43	87	31	116	40	172	47	209	52	242	52	262	56	297	62	245	56	175	46	125	37	66	23	64	24	2060	44
Sault Ste. Marie	41	77	27	130	45	185	50	219	54	260	56	286	61	305	64	255	58	175	46	117	35	59	21	57	21	2125	48
<b>MINNESOTA</b>																											
Duluth	36	128	46	170	55	221	60	240	59	267	57	282	60	324	68	278	63	200	53	155	46	100	35	107	35	2472	53
Minneapolis	33	142	50	159	54	209	56	234	58	278	60	302	65	346	73	303	70	223	59	179	53	114	40	111	40	2600	56
<b>MISSISSIPPI</b>																											
Meridian	49	155	49	158	51	215	58	244	63	287	67	294	69	272	63	271	66	259	70	242	69	189	60	140	45	2726	61
Vicksburg	52	149	47	154	49	213	57	251	64	298	70	310	73	300	69	296	72	273	74	251	71	190	60	140	44	2825	62
<b>MISSOURI</b>																											
Columbia	50	160	53	169	56	215	58	235	59	284	64	307	69	345	76	305	72	250	67	225	65	172	57	148	50	2815	62
Kansas City	56	170	56	174	58	223	60	240	62	284	64	312	70	348	77	311	74	256	69	231	67	179	59	152	52	2880	64
St. Joseph	38	162	54	170	56	214	58	230	58	285	64	314	70	360	79	299	70	248	66	224	64	171	57	144	49	2821	61
St. Louis	56	146	48	151	50	205	55	232	58	282	63	300	67	325	72	288	68	249	67	223	64	163	54	129	44	2693	59
Springfield	33	153	50	166	54	213	57	234	59	277	63	303	69	348	78	300	71	258	69	226	68	171	56	144	51	2793	62
<b>MONTANA</b>																											
Billings	8	137	49	145	49	182	47	230	55	282	61	294	63	372	78	325	74	233	62	212	62	123	44	121	45	2656	57
Great Falls	6	140	50	168	58	230	62	259	63	290	62	256	53	384	80	330	75	228	61	199	59	143	50	139	53	2766	60
Havre	42	136	50	172	60	224	61	262	63	298	63	319	66	381	78	333	75	246	65	193	58	138	49	121	47	2823	62
Helena	53	127	45	157	54	214	58	241	59	271	58	296	62	365	76	322	73	236	63	189	56	134	48	114	43	2666	58
Kalispell	48	75	27	115	40	182	49	234	57	274	58	291	61	372	77	321	73	229	61	171	51	80	29	53	20	2397	50
Missoula	12	86	31	114	39	170	46	208	51	275	59	255	54	381	80	343	78	241	64	171	51	84	30	59	22	2387	50
<b>NEBRASKA</b>																											
Lincoln	43	171	57	178	59	224	60	238	60	280	62	312	69	351	76	298	70	245	66	222	64	170	57	154	54	2843	63
North Platte	41	191	64	192	64	239	65	250	63	293	65	328	73	365	80	325	76	269	72	242	70	188	63	168	59	3050	68
Omaha	51	168	56	175	58	214	58	238	60	283	63	309	68	352	77	299	70	249	66	223	65	161	54	144	50	2815	62
Valentine	58	176	60	186	62	222	60	241	60	291	64	322	70	369	79	320	74	272	73	236	69	160	55	160	57	2955	65
<b>NEVADA</b>																											
Reno	39	176	58	190	63	263	71	297	75	344	77	372	83	406	89	379	89	321	86	261	76	199	66	162	56	3370	76
Winnemucca	41	162	54	174	58	241	65	280	70	339	76	367	81	411	96	383	90	319	86	256	74	184	62	151	52	3267	73

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES, ALASKA, HAWAII, AND PUERTO RICO

AVERAGE NUMBER OF HOURS AND PERCENTAGE OF POSSIBLE SUNSHINE

Stations	Yrs. Thru 1948	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
<b>NEW HAMPSHIRE</b>																											
Concord	10	137	50	150	53	196	56	199	53	221	52	261	56	267	56	257	58	200	55	172	50	122	44	113	43	2295	52
<b>NEW JERSEY</b>																											
Atlantic City	50	150	51	172	57	212	57	236	59	278	63	282	63	297	66	276	65	242	65	221	64	174	58	149	51	2689	60
Trenton	35	147	49	167	51	215	58	236	59	285	64	291	65	302	66	275	65	239	64	211	61	157	52	137	47	2662	60
<b>NEW MEXICO</b>																											
Albuquerque	25	224	71	216	70	273	74	298	76	345	80	366	84	340	77	317	77	293	79	279	80	239	77	218	72	3408	77
Roswell	42	221	70	219	72	277	74	298	76	327	76	340	79	331	75	306	74	273	74	260	74	231	74	213	68	3296	74
Santa Fe	50	224	72	217	69	263	71	289	73	326	74	348	80	306	69	297	71	283	76	278	80	235	76	215	73	3281	74
<b>NEW YORK</b>																											
Albany	51	121	41	151	51	197	53	215	53	260	57	281	61	288	62	263	61	219	58	183	53	112	38	104	37	2394	54
Binghamton	50	92	31	116	39	151	41	178	44	222	49	245	54	246	53	213	50	176	47	137	40	81	27	71	25	1928	42
Buffalo	37	93	30	121	41	185	49	208	52	268	58	307	66	324	69	279	65	223	60	171	49	97	33	70	25	2346	50
Canton	40	107	37	137	46	186	50	195	48	250	54	288	62	298	63	265	61	201	54	151	44	85	30	83	30	2247	49
New York	54	154	52	178	59	219	59	244	61	276	61	287	63	295	64	269	63	237	63	215	62	162	55	149	52	2685	60
Oswego	32	59	20	92	31	162	44	207	51	270	59	295	64	316	68	270	63	211	56	153	45	71	24	53	19	2159	48
Rochester	53	92	32	121	41	151	48	215	53	274	60	306	67	324	70	284	66	226	60	168	49	91	31	69	25	2321	51
Syracuse	57	90	31	114	38	168	45	201	50	265	58	294	64	309	67	268	62	211	56	158	47	88	30	72	26	2238	50
<b>NORTH CAROLINA</b>																											
Asheville	39	150	49	160	53	204	55	234	60	269	60	266	59	257	57	233	57	217	60	214	64	176	59	140	49	2520	57
Charlotte	37	163	52	176	57	235	63	260	66	311	72	302	69	281	64	268	64	244	66	241	69	202	64	159	52	2842	58
Greensboro	18	149	48	170	55	216	58	247	63	298	68	298	68	271	61	268	64	242	65	242	69	183	59	149	49	2733	61
Raleigh	50	154	49	172	56	222	60	253	64	293	67	284	65	274	62	260	62	241	65	231	66	188	61	152	51	2724	61
Wilmington	53	180	57	182	59	240	65	271	69	307	71	300	69	286	65	272	66	251	68	246	70	211	68	174	57	2922	65
<b>NORTH DAKOTA</b>																											
Bismarck	52	144	51	169	58	204	55	234	57	270	58	293	62	347	72	301	69	235	62	196	59	139	49	127	48	2659	58
Devils Lake	42	144	52	168	59	218	59	244	59	278	59	297	62	343	71	296	67	219	58	182	54	124	45	122	46	2635	59
Williston	45	134	49	164	63	215	58	240	60	287	61	300	63	351	73	314	71	238	63	194	57	128	46	121	46	2786	59
Fargo	7	144	46	169	54	204	58	242	58	255	62	256	65	336	76	281	71	201	61	203	55	91	40	114	40	2495	57
<b>OHIO</b>																											
Cincinnati	57	126	41	142	46	192	50	233	57	287	63	315	70	331	73	300	70	260	69	217	62	148	48	116	39	2667	57
Cleveland	52	86	29	107	36	170	46	211	53	275	61	305	67	328	71	288	67	233	62	179	52	94	32	68	24	2344	51
Columbus	52	112	37	132	44	177	48	217	56	275	63	296	67	319	71	283	68	240	66	200	60	128	44	95	34	2474	55
Dayton	34	118	39	131	42	182	49	218	55	269	61	302	67	329	72	286	67	249	67	203	58	132	43	101	35	2520	57
Sandusky	36	104	35	121	40	180	49	208	51	275	61	306	68	323	70	283	66	230	61	185	53	109	37	80	28	2404	52
Toledo	49	98	33	120	40	172	46	201	50	263	58	295	65	325	70	287	67	231	62	186	54	108	36	82	29	2368	50
<b>OKLAHOMA</b>																											
Oklahoma City	49	180	57	186	60	232	63	251	64	284	65	319	74	347	79	324	78	273	73	236	67	196	63	174	58	3002	67
Tulsa	5	154	49	176	57	189	51	198	50	214	49	247	57	325	73	293	70	243	65	222	64	174	56	137	45	2572	58
<b>OREGON</b>																											
Baker	41	116	40	144	49	201	54	235	58	290	64	311	67	392	83	354	81	274	73	209	62	130	45	90	33	2746	62
Portland	56	77	27	96	33	151	41	199	49	242	52	265	56	337	71	290	66	203	54	148	43	80	28	65	24	2153	48
Roseburg	16	73	25	91	31	143	40	209	52	260	57	278	61	363	78	340	79	263	70	151	44	70	24	49	18	2290	51
<b>PENNSYLVANIA</b>																											
Erie	51	65	22	104	35	166	45	207	51	266	60	291	64	309	67	273	64	211	56	148	43	70	24	45	16	2155	46
Harrisburg	48	130	43	155	51	202	55	230	58	278	62	288	64	306	67	266	63	234	62	199	58	141	47	124	43	2553	57
Philadelphia	52	148	49	172	57	216	58	233	58	273	61	278	62	290	64	263	62	235	63	216	63	159	53	144	49	2627	58
Pittsburgh	51	95	32	114	38	168	45	200	50	261	58	283	63	297	63	263	62	232	62	189	55	117	39	84	28	2303	50
Reading	35	133	44	153	51	203	55	221	55	264	59	272	61	276	61	256	60	219	59	192	56	133	46	121	42	2443	54
Scranton	21	114	38	140	47	186	51	216	53	263	59	272	60	313	67	253	60	216	58	174	51	116	39	97	34	2360	53
<b>RHODE ISLAND</b>																											
Block Island	46	134	45	158	52	207	56	221	55	256	57	258	57	274	60	258	60	221	59	197	57	144	49	124	42	2452	54
Providence	43	147	50	169	57	219	59	231	58	272	60	284	63	289	63	266	62	222	59	205	60	151	51	140	49	2595	58
<b>SOUTH CAROLINA</b>																											
Charleston	50	185	58	185	59	242	65	281	72	313	73	296	69	285	65	273	66	252	68	243	69	215	69	175	56	2945	66
Columbia	43	165	52	176	57	232	62	262	67	294	68	288	67	269	61	264	63	241	65	240	68	199	64	154	50	2784	62
Greenville	25	166	53	180	58	240	65	269	68	304	70	300	69	290	66	279	67	258	69	245	70	195	64	170	55	2896	64
<b>SOUTH DAKOTA</b>																											
Huron	50	162	56	186	63	225	61	250	62	296	65	317	68	356	76	311	72	244	65	204	60	147	51	138	50	2836	62
Rapid City	41	170	58	188	63	232	62	249	62	281	61	309	62	350	72	322	74	257	70	219	66	167	58	150	54	2894	64

AVERAGE NUMBER OF HOURS AND PERCENTAGE OF POSSIBLE SUNSHINE

Stations	Yrs. Thru 1948	Jan.		Feb.		Mar.		Apr.		May		June		July		Aug.		Sept.		Oct.		Nov.		Dec.		Annual	
		Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%	Hrs.	%
<del>MISSISSIPPI</del>																											
<del>Chattanooga</del>																											
TENNESSEE																											
Chattanooga	51	131	40	143	46	188	50	226	58	271	66	257	62	270	60	252	61	243	65	224	64	167	54	126	41	2498	56
Knoxville	49	135	43	150	49	202	54	235	60	284	65	289	66	287	65	253	61	243	65	225	65	168	55	127	42	2598	58
Memphis	46	145	46	161	52	214	58	248	63	293	68	318	73	317	72	299	72	258	69	241	69	176	57	137	45	2808	62
Nashville	51	136	43	148	48	201	54	242	61	289	66	304	70	304	69	286	68	255	69	229	66	168	54	127	42	2693	59
TEXAS																											
Abilene	2	187	59	208	67	258	69	258	66	296	69	308	72	348	80	314	76	226	61	211	60	248	79	209	67	3071	67
Amarillo	42	232	74	232	75	286	77	302	77	339	78	365	84	353	80	342	82	290	78	259	74	239	77	220	72	3426	77
Austin	21	147	45	156	50	214	58	234	50	267	63	302	71	328	76	322	79	260	70	244	69	172	54	102	48	2798	63
Brownsville	25	142	43	154	49	199	53	224	58	267	64	298	72	324	77	321	79	247	70	250	70	172	53	134	41	2732	61
Dallas	34	166	52	170	55	228	61	247	63	284	66	327	76	349	80	321	78	274	74	239	68	185	59	161	52	2951	65
Del Rio	29	169	52	173	54	227	61	240	62	248	59	274	65	312	72	317	81	237	66	223	65	170	54	156	51	2746	61
El Paso	40	233	73	237	76	300	81	331	85	372	87	372	87	336	77	316	77	293	79	286	81	246	78	224	72	3546	79
Fort Worth	26	178	56	175	57	239	65	254	66	284	67	322	75	336	78	323	78	273	74	248	70	173	63	175	56	3000	67
Galveston	56	166	51	160	51	208	56	240	62	290	69	317	75	305	72	287	70	257	69	263	74	199	62	158	50	2850	63
Houston	37	155	48	155	49	199	53	223	58	275	65	298	71	298	70	284	70	241	65	238	67	180	57	139	44	2685	60
Palestine	7	160	50	165	53	222	60	223	57	262	61	285	67	344	79	317	77	283	77	259	73	179	57	163	52	2862	64
Port Arthur	31	154	47	154	49	209	56	246	63	298	70	318	75	298	69	294	72	262	71	260	73	191	60	144	45	2828	62
San Antonio	44	159	49	160	51	210	56	223	59	251	60	288	69	315	73	300	74	249	68	234	66	171	53	154	48	2714	60
UTAH																											
Modena	45	202	67	199	64	259	70	278	69	329	74	376	85	340	75	325	77	306	82	277	80	222	73	191	64	3304	69
Salt Lake City	10	152	51	158	53	245	66	280	70	332	74	348	77	365	80	346	81	320	86	242	70	148	50	131	49	3067	69
VERMONT																											
Burlington	37	99	34	130	44	178	49	194	48	246	54	273	59	288	62	255	59	192	51	142	41	73	25	66	24	2136	46
VIRGINIA																											
Cape Henry	21	153	50	172	56	222	60	254	64	299	68	302	68	294	66	283	67	235	63	237	68	187	61	157	52	2795	62
Lynchburg	43	147	48	167	55	219	59	242	61	295	67	293	66	307	69	272	65	242	65	223	64	172	56	146	49	2725	61
Norfolk	48	153	50	175	57	222	60	248	63	291	66	285	65	289	65	273	66	235	63	225	65	184	60	152	51	2732	61
Richmond	44	152	50	168	55	217	58	247	62	297	67	288	65	299	66	263	62	239	64	226	65	180	59	147	50	2723	61
WASHINGTON																											
North Head	42	78	27	110	37	155	42	197	49	223	48	228	48	240	50	202	46	180	48	137	40	89	31	74	27	1913	43
Seattle	52	71	26	103	36	163	44	207	51	247	53	255	53	310	64	267	59	188	50	115	34	65	24	58	22	2049	41
Spokane	49	72	26	116	40	196	53	256	62	301	64	327	68	396	82	348	79	257	68	180	54	78	28	57	22	2584	58
Tacoma	46	57	20	87	30	149	40	200	49	234	50	245	52	293	61	253	57	179	48	104	31	56	20	46	17	1903	43
Tatoosh Island	37	70	26	107	37	148	40	182	44	225	48	229	48	235	49	205	47	177	47	128	38	71	25	64	25	1841	41
Walla Walla	31	68	23	106	35	192	52	260	63	315	68	344	70	405	83	365	82	265	70	197	69	93	34	54	19	2664	55
Yakima	18	93	33	143	49	229	62	287	70	338	72	350	74	414	86	377	86	277	74	206	61	108	38	76	29	2898	57
WEST VIRGINIA																											
Elkins	49	100	33	111	36	156	42	189	47	239	54	240	54	254	56	228	52	205	55	173	50	123	41	96	33	2114	45
Parkersburg	50	93	30	113	37	158	43	200	50	251	56	271	60	292	64	254	60	225	60	184	53	109	37	85	30	2235	48
WISCONSIN																											
Green Bay	45	126	44	150	51	203	55	227	56	265	58	296	63	329	70	279	65	217	58	175	52	114	40	108	39	2488	54
La Crosse	44	137	48	161	54	208	56	235	58	276	60	303	65	341	73	293	68	221	59	182	54	118	41	110	40	2585	56
Madison	43	125	43	142	48	188	51	211	53	255	56	284	62	325	70	276	64	214	57	178	52	114	39	101	36	2413	53
Milwaukee	46	130	44	147	49	197	53	229	57	271	60	300	65	339	73	289	67	232	62	187	55	127	44	110	39	2558	57
WYOMING																											
Cheyenne	50	198	66	197	66	241	65	244	61	261	61	307	68	320	70	288	68	257	69	234	68	196	66	183	65	2926	66
Lander	45	194	66	208	70	263	71	262	65	296	65	338	74	351	76	323	75	267	71	226	66	175	60	175	62	3078	69
Sheridan	39	161	56	182	62	228	61	243	60	284	62	318	68	355	75	318	73	252	66	200	59	152	53	144	52	2337	63
Yellowstone Pk.	35	<del>155</del>	39	<del>222</del>	51	<del>262</del>	55	<del>322</del>	57	<del>381</del>	56	<del>427</del>	63	<del>472</del>	73	<del>425</del>	71	<del>376</del>	65	<del>339</del>	57	<del>257</del>	45	<del>274</del>	38	<del>1484</del>	56
ALASKA																											
Anchorage	7	68	34	93	36	190	52	256	58	260	48	290	50	256	45	186	38	129	33	81	26	72	23	47	27	1928	40
Fairbanks	17	57	35	111	46	216	59	312	68	321	55	356	55	284	46	170	33	127	33	90	29	71	38	35	30	2150	46
Juneau	26	53	24	82	31	133	36	159	37	192	37	207	38	155	28	137	29	102	27	52	16	51	22	38	22	1361	29
Nome	16	72	44	112	47	216	59	235	52	290	50	322	51	212	34	161	32	141	36	108	33	78	40	40	31	1987	42
T. H.																											
Honolulu	40	212	62	209	64	223	60	236	62	259	64	264	66	276	67	278	70	259	70	246	68	210	63	204	60	2876	65
PUERTO RICO																											
San Juan	48	224	65	226	69	262	70	248	66	237	59	244	62	264	65	265	67	227	62	233	64	212	63	222	65	2864	65



SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES,  
ALASKA, HAWAII, AND PUERTO RICO

AVERAGE CLOUDINESS (0 to 10)

Stations	Yrs. Thru 1948	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>ALABAMA</b>														
Birmingham	44	5.9	5.7	5.4	5.2	5.0	5.1	5.6	5.3	4.7	4.0	4.6	6.1	5.2
Mobile	41	7.3	6.2	5.3	4.5	6.6	4.7	7.0	6.7	7.2	3.6	7.1	4.3	5.9
Montgomery	76	5.8	5.7	5.2	4.8	4.6	5.1	5.5	5.2	4.4	3.8	4.5	5.7	5.0
<b>ARIZONA</b>														
Phoenix	53	3.8	3.9	3.6	2.9	2.2	1.6	1.5	3.4	2.3	2.3	2.8	3.6	3.0
Tucson	6	4.8	4.8	4.4	3.5	2.9	2.2	5.3	5.1	3.5	3.5	3.5	4.6	4.0
Yuma	70	2.4	2.4	2.1	1.5	1.0	0.6	1.6	1.8	1.1	1.2	1.7	2.4	1.6
<b>ARKANSAS</b>														
Fort Smith	63	5.5	5.4	5.3	5.2	5.1	4.6	4.2	4.0	4.1	4.0	4.7	5.0	4.8
Little Rock	68	5.8	5.7	5.5	5.3	5.2	4.8	4.8	4.4	4.2	3.9	5.0	5.8	5.0
<b>CALIFORNIA</b>														
Eureka	52	6.7	6.7	6.5	6.0	5.9	5.5	5.9	6.3	5.6	5.8	6.5	6.6	6.2
Fresno	52	6.4	5.2	4.6	3.5	2.7	1.5	1.0	0.9	1.4	2.3	3.9	6.0	3.3
Los Angeles	10	4.3	4.7	4.7	4.7	4.6	3.9	2.7	2.4	2.8	3.4	3.2	4.7	3.8
Oakland	5	5.3	6.1	5.8	5.1	5.4	4.3	4.2	4.0	3.2	4.9	5.2	6.9	5.0
Red Bluff	60	5.5	5.0	4.7	3.9	3.5	2.1	0.9	1.0	1.8	2.8	4.2	5.5	3.4
Sacramento	70	5.7	4.8	4.2	3.5	2.7	1.7	0.7	0.8	1.4	2.4	3.7	5.6	3.1
San Diego	59	4.5	4.8	4.6	4.6	4.8	4.2	3.6	3.3	3.2	3.5	3.3	4.3	4.0
San Francisco	76	5.3	5.2	4.9	4.3	4.2	3.6	4.1	4.4	3.6	3.7	4.3	5.2	4.4
<b>COLORADO</b>														
Denver	52	4.3	4.6	5.2	5.5	5.5	4.6	4.5	4.6	4.0	4.0	4.1	4.2	4.6
Grand Junction	48	5.1	5.3	5.1	5.3	4.7	3.5	3.9	3.9	3.3	3.4	4.0	4.9	4.4
Pueblo	17	4.0	4.7	4.8	5.6	5.5	4.4	4.2	4.5	3.8	3.7	3.8	4.2	4.4
<b>CONNECTICUT</b>														
Hartford	43	6.1	5.6	5.6	5.9	5.8	5.7	5.7	5.5	5.4	5.1	6.0	6.1	5.7
New Haven	75	5.5	5.1	5.0	5.2	5.1	5.0	4.9	4.7	4.5	4.6	5.3	5.3	5.0
D. C.														
Washington	64	5.9	5.5	5.5	5.2	5.2	5.0	5.0	5.0	4.7	4.5	5.3	5.8	5.2
<b>FLORIDA</b>														
Apalachicola	71	5.4	5.3	5.1	4.5	4.0	5.0	5.6	5.6	5.0	3.8	4.3	5.7	4.9
Jacksonville	77	5.2	5.1	4.6	4.4	4.5	5.3	5.5	5.3	5.3	4.8	4.6	5.2	5.0
Key West	47	4.3	3.7	3.6	3.6	4.4	5.3	5.1	5.1	5.4	4.8	4.2	4.3	4.4
Miami	37	5.3	4.7	4.8	5.0	5.6	6.4	6.2	5.9	6.3	5.8	5.4	5.4	5.6
Pensacola	67	5.6	5.5	5.2	4.7	4.4	4.9	5.7	5.3	4.6	3.8	4.4	5.5	5.0
Tampa	28	5.4	4.7	4.8	4.6	4.6	5.8	6.2	5.9	6.0	4.6	4.5	5.2	5.2
<b>GEORGIA</b>														
Atlanta	69	5.9	5.7	5.3	5.1	5.0	5.3	5.8	5.7	4.8	4.2	4.7	5.8	5.3
Augusta	35	5.7	5.4	5.2	4.9	5.0	5.4	5.9	5.6	5.0	4.2	4.7	5.7	5.2
Macon	49	5.7	5.6	5.1	4.9	4.9	5.4	5.9	5.6	4.9	4.2	4.5	5.8	5.2
Savannah	77	5.3	5.2	4.8	4.5	4.5	5.2	5.5	5.4	5.1	4.3	5.1	5.1	4.9
<b>IDAHO</b>														
Boise	50	7.3	6.8	6.3	5.9	5.2	4.4	2.6	2.5	3.3	4.6	6.2	7.1	5.2
Pocatello	48	7.0	6.5	6.0	5.8	5.4	4.4	3.6	3.4	3.7	4.6	5.9	6.7	5.2
<b>ILLINOIS</b>														
Cairo	57	6.4	6.3	6.3	6.0	5.9	5.6	5.1	4.9	4.6	4.4	5.5	6.3	5.6
Chicago	77	6.3	6.1	6.0	5.7	5.3	5.1	4.2	4.3	4.7	5.0	6.2	6.5	5.4
Moline	5	6.3	6.5	6.7	6.7	7.2	6.6	5.1	5.2	5.6	5.1	7.2	6.6	6.2

AVERAGE CLOUDINESS (0 to 10)

Stations	Yrs. Thru 1948	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
ILLINOIS Cont														
Peoria	43	5.8	5.7	5.4	5.4	5.0	4.5	3.6	4.0	4.2	4.4	5.6	6.2	5.0
Springfield	68	6.1	6.0	6.5	5.9	5.5	5.4	4.4	4.5	4.5	4.5	5.6	6.3	5.4
INDIANA														
Evansville	49	6.3	6.1	6.0	5.6	5.4	5.1	4.6	4.6	4.4	4.4	5.4	6.3	6.2
Fort Wayne	36	6.9	6.9	6.5	6.2	5.7	5.4	4.6	4.9	5.0	5.4	6.7	7.4	6.0
Indianapolis	77	6.7	6.5	6.4	6.0	5.7	5.4	4.8	4.8	4.7	4.8	6.1	6.8	5.7
Terre Haute	35	6.6	6.5	6.4	6.2	5.9	5.6	4.7	5.0	4.9	4.9	6.0	6.9	5.9
IOWA														
Burlington	5	6.2	7.0	6.8	6.9	6.6	6.5	5.1	5.2	5.1	5.4	7.2	7.0	6.3
Charles City	42	5.9	5.7	5.9	5.7	5.5	5.1	4.2	4.6	4.9	4.9	6.2	6.4	5.4
Davenport	60	5.8	5.9	6.0	5.7	5.5	5.1	4.3	4.6	4.6	4.7	5.6	6.2	5.3
Des Moines	52	5.8	5.9	6.2	6.0	5.9	5.6	4.5	4.7	4.7	4.8	5.8	6.2	5.5
Dubuque	54	6.0	5.9	6.1	5.9	5.8	5.6	4.7	4.9	5.1	5.3	6.2	6.5	5.7
Sioux City	18	5.8	6.1	6.5	6.4	6.3	5.8	4.4	4.7	4.6	4.6	6.0	6.1	5.6
KANSAS														
Concordia	61	5.2	5.8	5.7	6.1	5.9	5.3	4.1	4.7	4.6	4.2	4.8	5.4	5.2
Dodge City	60	3.8	4.4	4.5	4.7	4.8	4.3	3.8	3.6	3.5	3.4	3.5	3.8	4.0
Topeka	54	5.1	5.1	5.2	5.2	5.2	4.6	3.8	4.0	4.2	4.1	4.7	5.4	4.7
Wichita	59	4.9	5.1	5.1	5.2	5.3	4.5	3.8	3.8	4.0	4.1	4.5	5.1	4.6
KENTUCKY														
Louisville	77	6.4	6.1	6.0	5.7	5.3	5.1	4.6	4.5	4.4	4.4	5.7	6.5	5.4
LOUISIANA														
New Orleans	78	5.6	5.6	5.3	5.0	4.7	5.1	5.6	5.4	4.7	3.9	4.7	5.7	5.1
Shreveport	75	5.6	5.6	5.2	5.0	4.7	4.3	4.4	4.0	3.9	3.7	4.7	5.6	4.9
MAINE														
Eastport	58	6.5	6.2	6.3	6.4	6.6	6.6	6.3	6.0	6.0	6.3	7.2	6.8	6.4
Portland	76	5.0	4.7	4.9	5.0	5.1	5.0	4.6	4.4	4.2	4.6	5.0	5.0	4.8
MARYLAND														
Baltimore	77	5.9	5.5	5.6	5.4	5.3	5.3	5.1	5.1	4.8	4.6	5.2	5.7	5.3
MASSACHUSETTS														
Boston	77	5.8	5.4	5.6	5.6	5.6	5.5	5.5	5.1	5.0	5.2	5.7	5.8	5.5
Nantucket	60	6.6	6.1	5.8	5.6	5.6	5.6	5.4	5.2	5.3	5.6	6.2	6.5	5.8
MICHIGAN														
Alpena	76	7.5	6.6	6.0	5.7	5.6	5.1	4.7	4.9	5.5	6.2	7.7	7.9	6.1
Detroit	57	7.0	7.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	6.0	7.0	8.0	7.0
Escanaba	49	6.6	6.0	5.8	5.6	5.6	5.2	4.7	5.0	5.6	6.0	7.2	7.1	5.9
Grand Rapids	44	8.1	7.3	6.6	6.2	5.9	5.6	4.7	5.1	5.5	6.1	7.7	8.3	6.4
Lansing	42	7.5	6.9	6.3	6.0	5.7	5.4	4.5	4.9	5.2	5.8	7.2	7.7	6.1
Marquette	38	7.9	7.3	6.9	6.3	6.3	6.1	5.5	5.9	6.4	7.1	8.2	8.1	6.8
Sault Ste. Marie	59	7.9	6.7	6.2	5.9	6.0	5.5	5.1	5.6	6.3	7.2	8.4	8.3	6.6
MINNESOTA														
Duluth	52	5.8	5.4	5.6	5.5	5.7	5.6	4.8	5.1	5.5	5.9	6.8	6.2	5.7
Minneapolis	41	6.1	6.0	6.0	6.2	6.2	5.9	4.8	5.0	5.4	5.6	6.6	6.6	5.9
MISSISSIPPI														
Meridian	17	5.8	5.8	5.2	5.1	4.9	4.8	5.6	5.0	4.4	3.9	4.7	6.0	5.1
Vicksburg	57	5.5	5.7	5.5	5.2	5.0	4.8	5.5	4.9	4.1	3.4	4.4	5.5	5.0
MISSOURI														
Columbia	8	5.7	5.8	5.8	5.6	5.7	5.3	3.8	4.6	4.2	4.6	6.2	6.5	5.3
Kansas City	13	6.0	6.1	6.1	6.2	5.9	5.7	4.0	4.6	4.7	4.4	5.5	6.2	5.4
St. Joseph	38	4.6	4.9	5.0	5.0	4.8	4.2	3.1	3.8	3.9	3.8	4.4	4.9	4.3

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES,  
ALASKA, HAWAII, AND PUERTO RICO

**AVERAGE CLOUDINESS (0 to 10)**

Stations	Yrs. Thru 1948	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>MISSOURI Cont</b>														
St. Louis	76	5.6	5.6	5.5	5.2	5.0	4.8	4.1	4.1	4.0	4.0	5.1	5.9	4.9
Springfield	43	5.4	5.1	4.9	4.8	4.3	3.9	3.3	3.6	3.7	4.0	4.7	5.5	4.4
<b>MONTANA</b>														
Billings	8	6.8	6.8	7.3	7.2	6.6	6.4	4.4	4.2	5.6	5.6	6.8	6.7	6.2
Great Falls	6	6.8	6.9	7.2	7.2	6.9	7.3	4.3	4.4	5.6	5.7	7.0	6.9	6.4
Havre	63	5.9	5.6	5.5	5.3	5.2	4.9	3.5	3.5	4.6	5.0	5.7	5.9	5.0
Helena	59	6.7	6.5	6.5	6.4	6.4	5.9	4.0	4.1	5.1	5.6	6.5	6.7	5.9
Kalispell	48	7.7	6.7	6.2	5.6	5.6	5.4	3.4	3.9	4.9	5.7	7.6	8.2	5.9
Missoula	12	7.8	7.6	7.3	7.2	6.3	6.6	3.7	3.6	4.9	6.0	7.5	8.4	6.4
<b>NEBRASKA</b>														
Lincoln	51	5.4	5.6	5.7	5.8	5.8	5.2	4.3	4.6	4.5	4.5	5.2	5.6	5.2
North Platte	4	5.8	6.7	6.2	7.2	6.6	5.8	5.0	4.8	5.0	4.9	6.4	6.1	5.9
Omaha	34	5.8	5.6	5.8	5.8	5.7	5.1	4.1	4.5	4.4	4.4	5.3	5.7	5.2
<b>NEVADA</b>														
Reno	28	5.1	5.3	4.7	4.5	4.0	3.0	1.8	1.8	2.0	3.3	4.2	5.2	3.7
Winnemucca	67	5.7	5.7	5.4	5.2	4.7	3.5	2.1	2.1	2.6	3.6	4.8	5.6	4.3
<b>NEW HAMPSHIRE</b>														
Concord	38	5.5	4.9	4.8	5.2	5.3	4.8	4.7	4.7	5.0	5.3	5.9	5.9	5.2
<b>NEW JERSEY</b>														
Atlantic City	49	6.1	5.5	5.6	5.6	5.4	5.5	5.3	5.2	5.0	4.6	5.3	5.9	5.4
Trenton	35	6.3	6.0	5.8	6.0	5.9	6.0	5.9	5.7	5.3	5.0	5.8	6.3	5.8
<b>NEW MEXICO</b>														
Albuquerque	16	4.2	4.9	4.6	4.7	4.3	3.6	4.3	4.4	3.7	3.2	3.1	3.9	4.1
Roswell	43	4.1	4.2	4.0	3.8	3.8	3.2	3.7	3.8	3.5	3.3	3.5	4.0	3.7
Santa Fe	67	3.6	4.2	4.1	4.2	4.1	3.4	4.8	3.6	3.5	2.9	3.2	3.5	3.8
<b>NEW YORK</b>														
Albany	59	6.5	5.9	5.7	5.7	5.4	5.2	5.0	5.0	4.9	5.4	6.3	6.6	5.6
Binghamton	50	7.4	7.1	7.0	6.7	6.4	6.1	6.1	6.0	5.9	6.2	7.3	7.9	7.7
Buffalo	77	7.9	7.2	6.7	6.1	5.8	5.3	5.0	5.1	5.3	6.2	7.6	8.1	6.4
Canton	40	6.9	6.2	5.9	6.0	5.6	4.9	4.7	5.0	5.4	6.2	7.6	7.4	6.0
New York	57	6.1	5.8	5.9	5.9	5.6	5.7	5.7	5.5	5.1	5.0	5.8	6.1	5.7
Oswego	57	8.5	8.0	6.9	6.0	5.7	5.1	4.7	4.9	5.3	6.2	8.0	8.6	6.5
Rochester	66	7.2	6.7	6.1	5.7	5.4	4.5	4.8	4.9	5.8	6.3	8.1	8.7	6.2
Syracuse	45	7.8	7.4	7.0	6.5	5.9	5.7	5.4	5.6	5.8	6.3	7.7	8.0	6.6
<b>NORTH CAROLINA</b>														
Asheville	45	5.9	5.6	5.5	5.3	5.2	5.4	5.9	5.8	5.1	4.4	4.7	5.8	5.4
Charlotte	69	5.8	5.4	5.3	5.1	5.1	5.5	5.7	5.6	4.9	4.1	4.6	5.4	5.2
Hatteras	12	5.7	5.6	5.3	4.7	4.6	5.0	5.5	4.7	5.3	4.8	4.7	5.6	5.1
Raleigh	61	5.8	5.5	5.3	5.0	4.9	5.3	5.6	5.5	4.8	4.2	4.6	5.4	5.2
Wilmington	11	5.4	5.3	4.9	4.6	4.8	5.3	5.4	5.2	5.2	4.0	4.4	5.4	5.0
<b>NORTH DAKOTA</b>														
Bismarck	73	5.3	5.2	5.5	5.4	5.3	5.1	3.9	4.0	4.4	4.9	5.5	5.6	5.0
Devils Lake	42	6.0	5.9	5.9	5.7	5.8	5.5	4.5	4.6	5.3	5.7	6.4	6.1	5.6
Fargo	52	5.9	5.7	6.0	5.6	5.3	5.3	3.9	4.3	4.9	5.5	6.2	6.2	5.4
Williston	66	5.5	5.4	5.7	5.4	5.3	5.2	4.0	4.0	4.7	5.1	5.6	5.5	5.1
<b>OHIO</b>														
Akron	16	7.3	7.0	6.5	6.3	6.0	5.8	5.0	5.3	5.2	5.8	7.1	7.6	6.2
Cincinnati	33	6.8	6.8	6.4	6.1	5.9	5.5	4.7	4.9	4.7	4.9	6.2	7.0	5.8
Cleveland	52	7.7	7.4	6.7	6.1	5.5	5.2	4.6	4.9	5.1	5.8	7.4	8.1	6.2

AVERAGE CLOUDINESS (0 to 10)

Stations	Yrs. Thru 1948	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>OHIO Cont</b>														
Columbus	52	7.0	6.7	6.5	6.0	5.5	5.2	4.8	4.9	4.6	5.0	6.4	7.2	5.8
Dayton	35	6.9	6.7	6.5	6.1	5.7	5.3	4.9	4.9	4.7	5.1	6.3	7.1	5.5
Sandusky	60	7.4	7.0	6.7	6.3	5.8	5.3	4.7	4.8	5.0	5.5	7.1	7.7	6.1
Toledo	77	6.9	6.4	6.0	5.6	5.0	4.6	3.9	4.1	4.3	5.1	5.2	7.1	5.5
<b>OKLAHOMA</b>														
Oklahoma City	16	5.3	5.7	5.3	5.4	5.7	4.9	3.8	4.4	4.4	4.3	4.7	5.2	4.9
Tulsa	5	6.1	6.2	6.1	6.4	5.9	5.9	4.4	4.8	4.3	4.4	5.4	6.1	5.5
<b>OREGON</b>														
Baker	37	7.0	6.7	6.0	5.7	5.5	5.0	2.9	3.1	3.9	4.9	6.4	7.1	5.4
Medford	70	8.0	7.2	7.1	6.6	5.6	4.8	2.2	1.8	3.0	5.2	6.8	8.4	5.6
Portland	77	7.6	7.4	7.0	6.6	6.3	5.8	4.0	4.0	4.9	6.2	7.4	7.8	6.2
Roseburg	31	7.9	7.4	6.8	6.1	5.3	4.5	2.6	1.6	2.8	4.3	5.9	6.3	5.1
<b>PENNSYLVANIA</b>														
Allentown	5	6.6	6.2	5.8	6.6	7.0	6.7	6.4	5.7	5.2	5.2	6.5	6.5	6.3
Erie	3	8.0	7.8	6.5	6.5	6.6	5.7	5.0	5.0	5.5	5.5	7.8	8.4	6.5
Harrisburg	49	6.5	6.0	6.1	6.0	5.8	5.9	5.5	5.5	5.0	5.1	6.1	6.5	5.8
Philadelphia	78	6.0	5.6	5.7	5.6	5.5	5.5	5.4	5.4	5.0	4.8	5.5	5.9	5.5
Philipsburg	5	7.7	7.5	7.1	7.1	7.3	7.3	6.3	5.9	5.7	5.7	7.3	7.6	6.9
Pittsburgh	76	7.4	7.0	6.7	6.2	5.7	5.5	5.3	5.2	5.0	5.4	6.7	7.5	6.1
Reading	35	6.4	6.0	5.7	5.9	5.7	5.6	5.6	5.3	5.1	5.1	6.1	6.6	5.8
Scranton	16	6.9	6.4	6.1	6.1	5.7	5.6	5.4	5.4	5.4	5.6	6.5	7.1	6.0
<b>RHODE ISLAND</b>														
Block Island	21	5.8	5.3	5.4	5.3	5.4	5.4	5.1	4.8	4.9	4.5	5.6	5.8	5.3
Providence	43	5.7	5.3	5.2	5.6	5.5	5.3	5.3	5.0	5.0	4.6	5.4	5.6	5.3
<b>SOUTH CAROLINA</b>														
Charleston	76	5.3	5.2	4.9	4.4	4.5	5.2	5.5	5.4	5.0	4.1	4.2	5.1	4.9
Columbia	49	5.6	5.3	5.1	4.8	4.8	5.1	5.6	5.3	4.7	4.0	4.4	5.5	5.0
Greenville	26	5.6	5.4	5.2	5.1	5.3	5.5	5.6	5.3	4.6	3.8	4.5	5.3	5.0
<b>SOUTH DAKOTA</b>														
Huron	67	5.2	5.1	5.6	5.4	5.1	4.8	3.7	4.1	4.4	4.6	5.3	5.5	4.9
Rapid City	28	5.5	5.5	6.0	6.0	5.9	5.2	4.0	4.0	4.3	4.6	5.5	5.6	5.2
<b>TENNESSEE</b>														
Chattanooga	69	6.2	5.9	5.6	5.4	5.1	5.2	5.4	5.2	4.6	4.1	4.9	6.0	5.3
Knoxville	77	6.3	6.0	5.6	5.2	5.0	5.1	5.1	5.1	4.3	4.0	5.1	6.0	5.2
Memphis	57	5.9	5.8	5.6	5.3	5.1	4.7	4.6	4.3	4.1	3.7	4.9	5.9	5.0
Nashville	77	6.4	6.2	5.8	5.5	5.2	5.0	5.0	4.7	4.5	4.1	5.2	6.3	5.3
<b>TEXAS</b>														
Abilene	62	5.1	5.3	5.0	4.8	4.9	4.1	4.1	4.2	4.1	3.9	4.4	4.8	4.6
Amarillo	56	4.1	4.1	3.8	3.9	4.0	3.7	4.0	3.6	3.6	3.8	3.5	3.9	3.8
Austin	21	6.1	5.9	5.4	5.5	5.5	4.8	4.3	4.0	4.6	4.2	5.5	5.8	5.1
Brownsville	25	6.5	6.2	5.9	5.7	5.4	4.6	4.4	4.2	5.1	4.4	5.7	6.5	5.4
Corpus Christi	60	5.9	5.9	6.0	6.0	5.5	4.2	4.1	4.0	4.4	4.0	5.3	6.0	5.1
Dallas	34	5.4	5.5	5.1	5.2	5.2	4.3	3.8	3.9	3.9	4.0	4.8	5.4	4.7
Del Rio	42	5.2	5.2	5.2	5.4	5.8	4.9	4.2	3.5	4.5	4.6	5.2	5.1	4.9
El Paso	70	3.4	3.5	3.2	2.6	2.5	2.4	3.9	3.8	3.2	2.6	2.9	3.4	3.1
Ft. Worth	49	5.0	5.2	5.0	5.1	5.1	4.2	3.9	3.8	3.8	4.0	4.2	4.9	4.5
Galveston	42	5.7	5.8	5.5	5.2	4.7	4.0	4.4	4.4	4.3	3.6	4.6	5.8	4.8
Houston	39	6.0	6.0	5.7	5.5	5.2	4.8	4.9	4.9	4.8	4.2	5.2	6.3	5.3
Laredo	5	6.3	6.7	5.6	5.4	5.9	4.9	4.3	4.5	4.7	4.6	5.3	6.3	5.3

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES,  
ALASKA, HAWAII, AND PUERTO RICO

**AVERAGE CLOUDINESS (0 to 10)**

Stations	Yrs. Thru 1948	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
TEXAS Cont														
Palestine	23	5.9	5.8	5.4	5.4	5.4	4.7	4.6	4.2	4.3	4.0	5.1	5.8	5.0
Port Arthur	31	6.1	6.2	5.7	5.3	4.8	4.6	5.2	4.8	4.5	3.9	5.1	6.3	5.2
San Antonio	49	5.6	5.5	5.2	5.3	5.4	4.5	4.4	4.1	4.6	4.2	5.2	5.6	5.0
UTAH														
Modena	47	4.7	5.1	4.8	4.7	4.2	2.8	3.8	3.6	2.8	3.1	3.8	4.7	4.0
Salt Lake City	12	6.7	7.0	6.2	6.0	5.2	4.5	3.8	3.4	3.4	4.4	5.5	6.7	5.1
VERMONT														
Burlington	42	7.2	6.7	6.5	6.5	6.4	6.0	5.6	5.7	6.0	6.6	7.8	7.9	6.6
VIRGINIA														
Cape Henry	57	6.0	5.4	5.4	5.1	4.9	5.0	5.1	5.0	4.7	4.3	4.9	5.7	5.1
Lynchburg	73	5.1	4.9	4.8	4.8	4.8	5.0	4.9	4.9	4.2	3.7	4.2	4.8	4.7
Norfolk	40	5.6	5.2	5.1	4.8	4.8	4.9	5.0	5.0	4.6	4.4	4.6	5.4	5.0
Richmond	50	5.8	5.3	5.3	5.0	4.8	5.1	5.1	5.2	4.8	4.3	4.8	5.6	5.1
WASHINGTON														
North Head	54	7.9	7.3	7.1	6.9	6.9	6.8	6.4	6.5	6.2	6.8	7.6	7.7	7.0
Seattle	54	7.9	7.4	6.9	6.5	6.2	6.0	4.4	4.7	5.7	7.0	7.9	7.9	6.5
Spokane	67	7.9	7.2	6.5	6.2	6.0	5.6	3.5	3.4	4.7	5.8	7.5	8.1	6.0
Tacoma	51	8.1	7.4	6.9	6.5	6.3	5.0	4.8	5.1	5.9	7.3	8.2	8.2	6.6
Tatoosh Island	41	7.9	7.2	7.1	7.0	7.0	6.9	6.6	6.8	6.4	6.8	7.8	7.8	7.1
Walla Walla	62	7.7	6.9	6.0	5.3	4.8	4.3	2.4	2.5	3.8	4.9	6.9	7.9	5.3
Yakima	18	7.8	6.9	6.4	5.9	5.5	4.8	2.4	2.5	3.7	5.0	6.9	7.8	5.5
WEST VIRGINIA														
Elkins	50	7.5	7.4	7.0	6.6	6.3	6.3	6.0	6.0	5.6	5.8	6.7	7.5	6.6
Parkersburg	56	7.2	7.0	6.3	5.8	5.3	5.2	4.7	5.0	4.7	5.2	6.6	7.3	5.9
WISCONSIN														
Green Bay	61	6.7	6.5	6.4	6.4	6.5	6.2	5.6	5.8	6.0	6.4	7.2	7.1	6.4
La Crosse	5	6.2	6.2	6.6	6.2	7.0	6.3	5.1	5.0	5.8	5.2	7.7	6.6	6.2
Madison	44	6.4	6.3	6.4	6.4	6.2	5.9	4.9	5.1	5.3	5.5	6.7	6.8	6.0
Milwaukee	77	6.2	6.1	6.1	5.8	5.5	5.3	4.4	4.7	5.0	5.5	6.4	6.6	5.6
WYOMING														
Casper	5	6.4	6.8	7.0	7.1	7.1	6.5	4.5	4.0	4.5	5.1	6.4	6.7	6.1
Cheyenne	77	4.6	5.0	5.3	5.7	5.9	4.9	4.7	4.7	4.2	4.3	4.6	4.7	4.9
Lander	56	4.5	4.7	5.2	5.5	5.4	4.5	4.2	4.0	4.0	4.4	4.8	4.6	4.6
Sheridan	41	5.8	5.7	5.8	6.0	5.8	5.0	3.9	4.0	4.6	5.1	5.7	5.8	5.3
Yellowstone Park	35	6.9	6.4	6.4	6.1	6.3	5.4	4.3	4.3	4.9	5.4	6.4	6.8	5.8
ALASKA														
Anchorage	7	7.1	7.4	6.9	7.0	7.5	7.1	7.6	7.6	7.4	7.8	7.0	7.1	8.3
Barrow	6	4.9	5.8	5.2	5.8	8.3	7.4	8.3	8.9	9.1	8.8	6.9	4.9	7.3
Fairbanks	5	7.0	6.5	6.7	6.1	7.1	7.1	7.3	7.6	7.8	8.1	6.3	6.8	7.0
Gambell	5	7.4	6.6	6.2	7.2	8.4	8.4	8.7	8.4	8.5	8.7	8.5	8.2	7.9
Juneau	26	7.6	7.2	7.4	7.4	7.6	7.2	7.9	7.6	7.5	8.2	7.7	7.5	7.6
Ketchikan	5	8.5	7.7	8.3	8.4	7.3	8.2	8.2	7.3	7.7	8.9	8.5	8.8	8.1
Kotzebue	5	5.9	5.5	6.3	5.6	6.7	7.1	7.4	8.1	7.4	7.3	5.7	6.6	6.7
McGrath	5	6.8	7.2	6.9	5.8	7.7	7.7	7.7	8.3	8.0	8.4	6.8	7.0	7.5
Nome	16	5.9	6.1	5.8	6.5	6.7	6.3	7.7	7.8	7.4	7.2	6.1	6.4	6.7
Northway	5	7.2	6.7	6.9	6.4	6.8	6.8	7.1	7.5	8.0	7.9	7.7	7.6	7.2
HAWAII														
Honolulu	44	5.2	5.1	5.7	5.4	5.1	5.0	4.8	4.8	4.9	5.1	5.5	5.4	5.2
PUERTO RICA														
San Juan	49	4.8	4.3	4.4	4.9	5.7	5.7	5.4	5.1	5.6	5.3	5.2	5.0	5.1

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. Yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual			
		Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy	Clear	Partly Clidy.	Cloudy				
		<b>ALABAMA</b>																																							
Birmingham	51	10	7	14	10	6	12	12	8	11	11	9	10	12	11	8	9	14	7	7	15	9	9	14	8	13	10	7	17	7	7	15	6	6	18	16	6	14	136	113	116
Mobile	74	7	3	21	8	6	14	10	7	14	14	8	8	7	10	14	12	9	9	1	17	13	6	6	19	5	7	18	14	14	3	6	6	18	16	5	10	106	98	161	
Montgomery	76	9	9	13	9	7	12	11	9	11	12	9	9	12	11	8	10	13	7	8	14	9	9	14	8	13	10	7	16	8	7	14	7	9	10	8	13	133	119	113	
<b>ARIZONA</b>																																									
Phoenix	52	16	8	7	14	8	6	17	8	6	19	7	4	23	6	2	24	5	1	17	11	3	18	10	3	22	6	2	22	6	3	19	7	4	17	8	6	228	90	47	
Tucson	54	16	9	6	14	8	6	17	9	5	19	8	3	16	7	8	20	8	2	10	15	6	11	15	5	16	10	4	20	7	4	19	7	4	17	9	5	195	112	58	
Yuma	64	22	6	3	20	6	2	23	6	2	25	4	1	27	4	0	28	2	0	25	5	1	24	6	1	26	3	1	27	3	1	24	5	1	23	5	3	294	55	16	
<b>ARKANSAS</b>																																									
Fort Smith	63	11	8	12	10	7	11	11	9	11	10	9	11	10	12	9	11	12	7	13	13	5	14	11	6	15	9	6	16	7	8	12	8	10	11	7	13	144	112	109	
Little Rock	67	10	7	14	9	7	12	11	8	12	11	9	10	10	12	9	11	12	7	12	12	7	13	11	7	14	9	7	16	7	8	13	7	10	11	6	14	141	107	117	
<b>CALIFORNIA</b>																																									
Bakersfield	45	11	9	11	13	7	8	15	8	8	17	8	5	22	5	4	26	3	1	28	2	1	27	3	1	25	4	1	21	6	4	16	8	6	11	8	12	232	71	62	
Eureka	58	6	8	17	6	7	15	7	9	15	8	10	12	8	11	12	9	11	10	7	13	11	6	12	13	9	10	11	9	9	13	7	8	15	7	8	16	89	116	160	
Fresno	60	8	7	16	11	8	9	14	9	8	17	8	5	21	7	3	25	4	1	28	2	1	28	2	1	25	3	2	22	6	3	16	8	6	10	7	14	225	71	69	
Los Angeles	70	15	8	8	12	9	7	13	10	8	12	11	7	11	14	6	13	14	3	17	13	1	18	12	1	17	11	2	17	10	4	18	8	4	16	8	7	179	128	58	
Oakland	17	9	9	13	8	12	9	10	12	10	11	9	11	13	7	15	11	4	15	13	3	13	15	3	15	11	4	13	10	8	12	9	9	8	8	15	138	128	99		
Red Bluff	70	11	7	13	12	6	10	14	8	9	15	9	6	18	8	5	23	5	2	28	3	*	28	3	0	24	4	2	20	7	4	15	7	8	11	7	13	219	73	73	
Sacramento	69	10	8	13	12	7	9	14	9	8	16	9	5	21	7	3	25	4	1	29	2	0	29	2	0	25	3	2	22	6	3	16	7	7	11	8	12	230	72	63	
San Diego	75	15	8	8	13	8	7	13	9	9	14	9	7	12	10	9	13	11	6	16	11	4	18	10	3	18	9	3	17	9	5	17	8	5	16	7	8	182	109	74	
San Francisco	62	10	8	13	10	8	10	12	9	10	13	10	7	14	10	7	17	9	4	14	12	5	12	13	6	15	10	5	16	9	6	13	9	8	11	8	12	157	115	93	
<b>COLORADO</b>																																									
Denver	76	14	12	5	11	11	6	10	13	8	9	13	8	8	14	9	12	14	4	11	16	4	11	16	4	15	11	4	16	10	5	15	10	5	14	12	5	146	152	67	
Grand Junction	48	12	9	10	9	10	9	10	11	10	10	11	9	12	12	7	16	10	4	14	13	4	16	11	4	18	8	4	18	8	5	15	8	7	13	8	10	163	119	83	
Pueblo	59	15	11	5	12	11	5	11	13	7	10	13	7	10	14	7	13	13	4	11	16	4	12	15	4	16	10	4	17	10	4	16	10	4	15	11	5	158	147	60	
<b>CONNECTICUT</b>																																									
Hartford	43	9	8	14	9	8	11	10	8	13	9	9	12	9	10	12	9	11	10	8	12	11	10	10	11	11	9	10	12	8	11	8	9	13	9	8	14	113	110	142	
New Haven	75	10	9	12	10	8	10	10	10	11	10	10	10	10	11	10	10	12	8	11	12	8	12	11	8	12	9	9	13	9	9	10	9	11	10	9	12	128	119	118	
<b>DISTRICT OF COLUMBIA</b>																																									
Washington	77	9	9	13	9	8	11	10	10	11	10	10	10	11	11	9	10	12	8	11	12	8	11	12	8	12	10	8	14	8	9	10	9	11	10	9	12	127	120	118	

TECHNICAL PAPER NO. 12

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual		
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy
<b>FLORIDA</b>																																								
Apalachicola	22	12	7	12	10	8	10	12	9	10	13	9	8	14	11	6	10	13	7	7	15	9	9	13	9	12	9	9	17	8	6	15	7	8	10	8	13	141	117	107
Jacksonville	76	11	10	10	10	9	9	13	10	8	13	11	6	12	13	6	8	14	8	7	16	8	8	16	7	9	13	8	12	10	9	12	9	9	11	9	11	126	140	99
Key West	74	13	12	6	14	10	4	17	10	4	16	10	4	13	13	5	8	15	7	8	17	6	8	17	6	7	16	7	11	13	7	13	11	6	13	6	141	156	68	
Miami	37	10	12	9	11	10	7	13	11	7	11	12	7	8	13	10	5	12	13	5	16	10	6	15	10	5	14	11	8	12	11	9	12	9	10	12	9	101	151	113
Pensacola	67	10	9	12	9	8	11	11	10	10	12	10	8	13	11	7	10	14	6	7	15	9	8	15	8	13	10	7	17	7	7	14	8	8	11	8	12	135	125	105
Tampa	58	10	12	9	11	10	7	13	11	7	13	12	5	12	13	6	7	16	7	5	19	7	5	18	8	7	15	8	13	11	7	13	11	6	12	10	9	121	158	86
<b>GEORGIA</b>																																								
Atlanta	67	10	7	14	9	7	12	12	8	11	11	9	10	11	11	9	9	12	9	7	12	12	8	12	11	12	10	8	16	7	8	13	7	10	10	7	14	128	109	128
Augusta	77	11	8	12	10	8	10	12	9	10	12	10	8	12	11	8	9	13	8	8	14	9	9	14	8	12	11	7	16	8	7	14	8	8	11	8	12	136	122	107
Macon	49	10	7	14	10	6	12	12	7	12	12	8	10	12	10	9	8	13	9	6	14	11	8	14	9	11	10	9	15	7	9	14	6	10	10	7	14	128	109	128
Savannah	75	11	9	11	10	8	10	12	10	9	13	9	8	12	12	7	9	13	8	8	15	8	8	14	9	10	11	9	14	9	8	13	9	8	12	8	11	132	127	106
<b>IDAHO</b>																																								
Boise	7	5	6	20	5	6	17	7	9	15	6	11	13	8	11	12	10	12	8	19	10	2	21	7	3	16	8	6	12	8	11	5	6	19	5	5	21	119	99	147
Pocatello	47	5	9	17	6	8	14	7	11	13	8	11	11	9	13	9	13	12	5	16	12	3	17	11	3	16	9	5	13	9	9	9	9	12	6	9	16	125	123	117
<b>ILLINOIS</b>																																								
Cairo	47	8	9	14	7	8	13	8	10	13	8	10	12	8	12	11	8	13	9	10	13	8	12	12	7	12	10	8	14	8	9	10	8	12	8	8	15	113	121	131
Chicago	77	8	9	14	7	8	13	8	10	13	9	10	11	10	11	10	10	12	8	13	13	5	13	12	6	12	10	8	12	9	10	8	8	14	7	8	16	117	120	128
Moline	13	8	8	15	6	8	14	7	9	15	7	8	15	6	10	15	6	12	12	11	13	7	11	11	9	11	9	10	12	8	11	7	8	15	6	7	18	98	111	156
Peoria	43	10	7	14	9	7	12	11	8	12	11	9	10	11	11	9	13	11	6	17	11	3	15	11	5	14	9	7	15	7	9	11	7	12	9	7	15	146	105	114
Springfield	68	9	8	14	8	8	12	8	9	14	9	9	12	9	11	11	9	12	9	12	13	6	12	12	7	13	9	8	14	8	9	10	8	12	8	8	15	121	115	129
<b>INDIANA</b>																																								
Evansville	49	8	9	14	7	9	12	7	12	12	8	12	10	9	13	9	9	15	6	11	16	4	11	14	6	13	11	6	14	9	8	10	9	11	8	8	15	115	137	113
Fort Wayne	36	6	7	18	5	8	15	7	8	16	7	9	14	9	11	11	8	13	9	12	14	5	11	13	7	11	11	8	11	9	11	7	7	16	5	7	19	99	117	149
Indianapolis	76	7	8	16	6	8	14	6	10	15	7	11	12	8	12	11	8	14	8	11	14	6	11	13	7	12	10	8	12	9	10	8	8	14	6	8	17	102	125	138
South Bend	8	3	8	20	3	6	19	5	10	16	5	11	14	4	11	16	5	12	13	10	15	6	9	15	7	10	11	9	10	10	11	3	8	19	3	7	21	70	124	171
Terre Haute	47	8	8	15	7	8	13	8	9	14	8	10	12	9	12	10	9	13	8	11	15	5	11	13	7	12	10	8	13	8	10	10	8	12	8	7	16	114	121	130
<b>IOWA</b>																																								
Burlington	48	14	5	12	13	5	10	13	7	11	13	6	11	14	8	9	16	8	6	20	7	4	18	8	5	17	6	7	17	5	9	15	4	11	13	4	14	183	73	109
Charles City	49	9	9	13	8	9	11	8	11	12	10	9	11	10	11	10	10	12	8	15	11	5	13	11	7	12	9	9	12	9	10	9	8	13	8	8	15	124	117	124
Davenport	71	10	8	13	8	8	12	9	9	13	9	10	11	9	11	11	10	12	8	13	12	6	13	11	7	13	9	8	13	8	10	10	8	12	8	9	14	125	115	125
Des Moines	66	11	8	12	9	8	11	8	10	13	9	9	12	8	11	12	8	13	9	13	13	5	13	11	7	12	9	9	14	8	9	10	9	11	9	9	13	124	118	123
Dubuque	73	9	9	13	9	8	11	9	9	13	9	9	12	9	11	11	9	11	10	12	12	7	12	11	8	12	9	9	11	9	11	8	9	13	8	8	15	117	115	133
Sioux City	57	10	9	12	9	8	11	9	9	13	9	9	12	8	11	12	9	12	9	14	11	6	13	11	7	13	9	8	14	8	9	10	9	11	9	9	13	127	115	123
<b>KANSAS</b>																																								
Concordia	61	12	10	9	10	9	9	10	11	10	9	11	10	8	14	9	9	15	6	12	14	5	12	14	5	14	10	6	15	9	7	13	9	8	12	9	10	136	135	94
Dodge City	73	14	10	7	13	8	7	13	11	7	13	10	7	11	13	7	14	11	5	16	12	3	17	11	3	17	9	4	18	7	6	16	8	6	15	9	7	177	119	69
Topeka	61	11	10	10	10	9	9	10	11	10	10	11	9	10	12	9	11	13	6	15	12	4	14	12	5	14	10	6	16	8	7	13	8	9	11	9	11	145	125	95
Wichita	59	13	8	10	11	8	9	12	10	9	11	10	9	11	11	9	12	12	6	16	11	4	16	11	4	16	8	6	16	8	7	14	7	9	13	8	10	161	112	92

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES, ALASKA, HAWAII, AND PUERTO RICO

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. Yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual		
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy			
		<b>KENTUCKY</b>																																						
Louisville	76	8	8	15	8	8	12	8	9	14	9	9	12	10	11	10	9	13	8	12	12	7	12	12	7	13	10	7	14	9	8	10	8	12	7	8	16	120	117	128
<b>LOUISIANA</b>																																								
New Orleans	76	10	9	12	8	9	11	10	11	11	11	11	8	11	14	6	8	15	7	6	16	9	7	16	8	11	12	7	16	9	6	12	9	9	9	9	13	119	139	107
Shreveport	75	11	7	13	9	7	12	11	9	11	11	9	10	11	12	8	13	12	5	13	12	6	15	11	5	16	8	6	17	8	6	13	8	9	11	8	12	151	111	103
<b>MAINE</b>																																								
Caribou	9	7	8	16	4	9	15	6	7	18	5	11	14	4	10	17	4	9	17	3	13	15	5	12	14	7	9	14	6	8	17	4	7	19	5	9	17	60	112	193
Eastport	66	8	8	15	8	8	12	8	9	14	8	9	13	7	11	13	6	12	12	7	13	11	9	11	11	9	9	12	8	9	14	5	8	17	6	8	17	89	115	161
Portland	76	11	9	11	11	8	9	11	9	11	10	9	11	10	9	12	10	10	10	10	11	9	12	10	9	12	9	9	12	8	11	10	8	12	10	9	12	130	109	126
<b>MARYLAND</b>																																								
Baltimore	75	9	9	13	9	9	10	10	10	11	10	10	10	10	11	10	9	13	8	10	13	8	11	11	9	12	10	8	13	9	9	10	10	10	9	10	12	122	125	118
<b>MASSACHUSETTS</b>																																								
Boston	63	9	9	13	10	8	10	10	9	12	9	10	11	9	12	10	10	9	11	9	13	9	11	11	9	12	9	9	11	10	10	9	9	12	9	9	13	118	118	129
Nantucket	58	8	8	15	9	7	12	11	8	12	10	9	11	10	11	10	9	11	10	10	11	10	12	10	9	11	9	10	11	9	11	8	9	13	8	7	16	117	109	139
<b>MICHIGAN</b>																																								
Alpena	73	3	10	18	5	10	13	8	11	12	8	11	11	9	11	11	10	13	7	11	14	6	10	14	7	9	11	10	7	10	14	3	8	19	2	8	21	85	131	149
Detroit	76	5	8	18	5	9	14	7	10	14	8	10	12	9	12	10	9	13	8	12	14	5	12	12	7	11	11	8	10	9	12	5	8	17	4	8	19	97	124	
Escanaba	56	8	8	15	8	8	12	10	9	12	8	14	8	10	10	11	11	11	8	12	12	7	12	11	8	10	10	10	8	9	14	6	7	17	6	7	18	109	116	140
Grand Rapids	43	3	6	22	4	7	17	6	10	15	8	9	13	8	11	12	9	12	9	11	13	7	10	12	9	9	10	11	8	9	14	4	6	20	3	5	23	83	110	172
Lansing	37	4	7	20	5	8	15	7	9	15	8	9	13	9	10	12	9	13	8	12	13	6	11	13	7	10	10	10	10	9	12	5	6	19	4	6	21	94	113	
Marquette	76	4	8	19	4	9	15	6	10	15	8	10	12	8	11	12	8	12	10	9	13	9	9	13	9	7	11	12	5	9	17	3	7	20	3	7	21	74	120	171
Sault Ste. Marie	44	4	6	21	6	8	14	8	9	14	9	9	12	9	10	12	10	10	10	11	11	9	10	11	10	8	9	13	5	8	18	2	5	23	3	5	23	85	101	179
<b>MINNESOTA</b>																																								
Duluth	73	10	9	12	9	9	10	10	10	11	10	10	10	9	11	11	8	12	10	11	14	6	11	12	8	10	10	10	9	9	13	6	9	15	8	9	14	111	124	130
Minneapolis	57	9	9	13	8	8	12	8	9	14	8	8	14	8	10	13	7	12	11	11	12	8	10	12	9	11	9	10	10	8	13	7	8	15	7	8	16	104	113	148
<b>MISSISSIPPI</b>																																								
Meridian	56	10	8	13	9	7	12	11	9	11	11	10	9	11	12	8	11	13	6	8	15	8	10	15	6	14	10	6	17	7	7	14	7	9	10	7	14	136	120	109
Vicksburg	74	9	9	13	9	7	12	11	9	11	11	10	9	11	12	8	11	13	6	9	14	8	11	14	6	13	10	7	16	8	7	13	8	9	10	7	14	134	121	110
<b>MISSOURI</b>																																								
Columbia	58	10	8	13	9	7	12	9	9	13	10	8	12	10	11	10	10	12	8	14	11	6	14	11	6	14	8	8	15	7	9	12	7	11	9	8	14	136	107	122
Kansas City	57	12	8	11	10	8	10	11	10	10	10	10	10	12	9	11	12	7	15	12	4	15	11	5	14	8	8	16	7	8	13	7	10	11	7	13	148	112	105	
St. Joseph	38	13	8	10	11	7	10	12	9	10	12	8	10	12	11	8	14	10	6	19	9	3	16	10	5	16	7	7	16	7	8	14	7	9	12	7	12	168	100	97
St. Louis	77	10	9	12	9	8	11	10	10	11	10	10	10	11	11	9	10	13	7	14	12	5	14	12	5	14	9	7	16	8	7	11	8	11	9	8	14	138	118	109
Springfield	60	12	7	12	11	7	10	13	8	10	12	9	9	13	11	7	14	11	5	17	11	3	17	10	4	16	8	6	17	6	8	13	7	10	12	7	12	167	102	96

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.



AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual							
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy								
<b>MONTANA</b>																																													
Billings	8	5	11	15	4	9	15	4	9	18	3	9	18	4	14	13	5	12	13	13	14	4	14	11	6	9	11	10	9	11	11	5	9	16	6	9	16	81	129	155					
Butte	53	10	9	12	9	8	11	10	8	13	8	8	14	8	14	9	9	10	11	15	11	3	15	10	6	13	8	10	10	8	8	12	10	8	13	13	131	104	130						
Great Falls	54	8	13	10	8	12	8	9	13	9	10	12	8	10	13	8	10	14	6	16	12	3	15	12	4	12	11	7	11	12	8	13	10	8	13	10	125	150	90						
Havre	63	8	11	12	8	11	9	9	13	9	9	13	8	10	13	8	11	13	6	18	10	3	17	10	4	12	11	7	12	10	9	9	10	11	9	10	12	132	135	98					
Helena	67	6	10	15	6	9	13	7	10	14	6	10	14	6	12	13	7	12	11	14	12	5	15	11	5	11	10	9	10	10	11	7	9	14	6	10	15	101	125	139					
Kalispell	48	4	7	20	5	8	15	7	11	13	8	12	10	8	13	10	8	13	9	17	11	3	16	10	5	12	8	10	10	8	13	4	7	19	2	6	23	101	114	150					
Missoula	12	4	6	21	3	6	19	4	7	20	4	7	19	6	12	13	6	9	15	16	11	4	16	10	5	12	8	10	9	8	14	4	6	20	2	5	24	86	95	184					
<b>NEBRASKA</b>																																													
Lincoln	51	11	8	12	9	8	11	10	9	12	9	9	12	8	11	12	10	12	8	13	12	6	12	12	7	14	8	8	15	7	9	11	8	11	10	9	12	132	113	120					
North Platte	73	13	11	7	11	9	8	10	11	10	10	11	9	10	12	9	12	12	6	15	12	4	14	12	5	15	10	5	16	9	6	13	10	7	12	10	9	151	129	85					
Omaha	77	11	9	11	9	9	10	9	10	12	9	9	12	9	11	11	10	12	8	14	12	5	13	12	6	13	9	8	14	9	8	11	9	10	10	9	12	132	120	113					
Valentine	52	12	10	9	10	10	8	10	11	10	9	11	10	10	12	9	11	13	6	15	13	3	15	12	4	14	10	6	15	9	7	12	9	9	10	11	10	143	131	91					
<b>NEVADA</b>																																													
Reno	60	11	10	10	10	9	9	12	11	8	13	10	7	15	10	6	20	7	3	24	6	1	24	5	2	22	6	2	19	7	5	14	9	7	11	10	10	195	100	70					
Winnemucca	69	9	9	13	8	8	12	11	9	11	11	9	10	12	11	8	16	9	5	23	6	2	23	6	2	20	6	4	17	7	7	12	8	10	10	9	12	172	97	96					
<b>NEW HAMPSHIRE</b>																																													
Concord	45	11	8	12	12	7	9	13	8	10	11	9	10	12	9	10	12	10	8	12	12	7	13	11	7	12	9	9	12	8	11	9	8	13	10	7	14	139	106	120					
<b>NEW JERSEY</b>																																													
Atlantic City	71	9	9	13	9	9	10	10	10	11	10	10	10	10	11	10	10	12	8	10	13	8	11	11	9	12	10	8	13	9	9	11	9	10	10	9	12	125	122	118					
Newark	13	6	10	15	7	9	12	7	11	13	7	11	12	6	13	12	5	13	12	7	12	12	8	12	11	10	10	10	11	9	11	8	9	13	8	9	14	90	128	147					
Trenton	35	8	9	14	9	7	12	10	9	12	8	10	12	8	11	11	8	11	11	8	11	12	9	11	11	11	10	9	12	9	10	9	9	12	8	8	15	109	115	141					
<b>NEW MEXICO</b>																																													
Albuquerque	53	18	7	6	14	8	6	16	10	5	15	10	5	17	10	4	18	10	2	12	15	4	12	15	4	17	9	4	20	7	4	20	6	4	18	7	6	197	114	54					
Roswell	41	15	9	7	13	9	6	15	10	6	16	10	4	16	11	4	17	11	2	16	13	2	15	13	3	16	10	4	18	8	5	17	8	5	16	8	7	190	120	55					
<b>NEW YORK</b>																																													
Albany	74	7	9	15	8	9	11	9	10	12	9	10	11	10	11	10	10	12	8	10	14	7	11	12	6	13	12	7	12	12	8	9	13	8	8	15	4	7	19	3	7	21	71	108	186
Binghamton	50	4	8	19	5	7	16	6	8	17	6	8	16	7	10	14	7	11	12	6	13	12	7	12	12	8	9	13	8	8	15	4	7	19	3	7	21	71	108	186					
Buffalo	77	2	8	21	3	10	15	5	11	15	7	10	13	8	12	11	9	13	8	10	14	7	9	14	8	9	12	9	7	10	14	3	8	19	2	8	21	74	130	161					
Canton	40	7	7	17	7	8	13	9	8	14	9	8	13	10	10	11	12	10	8	12	12	7	11	12	8	9	11	10	8	8	15	4	7	19	5	6	20	103	107	155					
New York	77	8	10	13	8	10	10	8	11	12	8	11	11	9	12	10	8	13	9	9	13	9	9	13	9	11	10	9	11	10	10	11	8	10	13	106	133	126							
Oswego	77	2	5	24	3	6	19	5	8	18	8	9	13	9	10	12	10	11	9	11	12	8	11	12	8	10	10	7	9	15	2	6	22	1	5	25	79	103	183						
Rochester	76	2	8	21	4	8	16	6	9	16	8	9	13	9	11	11	10	11	9	11	13	7	11	12	8	10	10	8	9	14	3	7	20	2	6	23	84	113	168						
Syracuse	45	3	7	21	4	7	17	5	9	17	6	9	15	8	10	13	9	11	10	13	9	11	10	9	13	9	8	11	11	7	9	15	3	7	20	3	6	22	74	113	178				

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES, ALASKA, HAWAII, AND PUERTO RICO.

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.

AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. Yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual		
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy			
<b>NORTH CAROLINA</b>																																								
Asheville	39	10	9	12	9	8	11	11	9	11	10	10	10	10	13	8	8	15	7	7	16	8	7	16	8	10	13	7	15	8	8	14	6	10	11	8	12	122	131	112
Charlotte	67	10	8	13	10	7	11	11	9	11	11	10	11	11	9	8	14	8	7	14	10	9	12	10	12	10	8	16	7	8	14	7	9	11	8	12	130	116	119	
Greensboro	18	9	7	15	8	7	13	10	8	13	10	9	11	10	12	9	6	15	9	5	15	11	8	12	11	11	9	10	15	8	8	13	6	11	10	7	14	115	115	135
Hatteras	54	11	8	12	11	7	10	12	9	10	13	10	7	14	10	7	12	11	7	12	12	7	13	11	7	13	10	7	14	9	8	13	8	9	11	8	12	149	113	103
Raleigh	60	10	7	14	10	7	11	11	9	11	12	9	9	12	11	8	9	13	8	8	13	10	9	13	9	12	10	8	15	8	8	14	7	9	11	7	13	133	114	118
Wilmington	75	11	9	11	10	8	10	12	10	9	13	10	7	12	12	8	9	14	7	8	15	8	9	14	8	11	11	8	15	9	7	14	8	8	12	9	10	136	129	100
<b>NORTH DAKOTA</b>																																								
Bismarck	52	11	9	11	10	9	9	10	10	11	11	10	9	12	10	9	11	11	8	16	11	4	16	10	5	14	8	8	13	9	9	10	9	11	10	9	12	144	115	106
Devils Lake	42	9	9	13	9	8	11	8	10	13	9	9	12	9	9	13	9	11	10	13	11	7	13	10	8	11	9	10	10	8	13	8	8	14	8	7	16	116	109	140
Fargo	51	9	9	13	9	8	11	10	9	12	10	9	11	11	10	10	10	11	9	15	11	5	15	10	6	12	9	9	11	8	12	8	8	14	8	8	15	128	110	127
Williston	66	10	10	11	9	10	9	9	12	10	9	11	10	10	11	10	10	12	8	15	12	4	15	11	5	13	10	7	11	10	10	9	10	11	10	10	11	130	129	106
<b>OHIO</b>																																								
Akron	16	3	7	21	4	7	17	5	8	18	6	9	15	7	12	12	6	14	10	9	15	7	10	12	9	10	11	9	9	10	12	5	7	18	3	7	21	77	119	169
Cincinnati	77	7	8	16	7	8	13	7	9	15	9	9	12	9	12	10	9	12	9	10	13	8	12	12	7	13	10	7	13	9	9	9	8	13	7	8	16	112	118	135
Cleveland	75	3	8	20	4	8	16	6	10	15	8	10	12	10	12	9	10	13	7	12	13	6	11	13	7	10	11	9	9	13	4	7	19	3	7	21	90	121	154	
Columbus	68	6	8	17	6	8	14	7	10	14	8	9	13	9	12	10	10	12	8	12	13	6	12	12	7	13	10	7	12	9	10	7	8	15	5	8	18	107	119	139
Dayton	36	7	7	17	6	7	15	7	9	15	7	10	13	9	11	11	9	13	8	12	13	6	11	13	7	12	11	7	13	8	10	9	7	14	6	7	18	108	116	141
Sandusky	69	5	8	18	5	8	15	6	9	16	7	10	13	9	11	11	9	13	8	10	14	7	11	13	7	11	11	8	9	10	12	5	8	17	4	8	19	91	123	151
Toledo	77	6	8	17	5	9	14	8	10	13	9	10	11	11	11	9	12	12	6	15	12	4	14	11	6	13	10	7	12	9	10	7	8	15	5	8	18	117	118	130
<b>OKLAHOMA</b>																																								
Oklahoma City	56	13	8	10	11	7	10	12	9	10	11	10	9	10	12	9	13	12	5	16	11	4	16	10	5	16	8	6	17	7	7	15	7	8	13	8	10	163	109	93
Tulsa	41	14	6	11	13	6	9	15	7	9	14	7	9	16	8	7	16	9	5	20	8	3	19	8	4	19	6	5	19	5	7	17	5	8	15	6	10	197	81	87
<b>OREGON</b>																																								
Baker	57	5	8	18	5	8	15	7	10	14	8	11	11	9	11	11	11	8	20	8	3	19	8	4	15	8	7	12	9	10	7	8	15	6	7	18	124	107	134	
Medford	36	4	6	21	6	6	16	7	7	17	7	9	14	10	8	13	13	8	9	22	6	3	22	6	3	17	6	7	12	8	11	6	7	17	3	5	23	129	82	154
Portland	75	4	6	21	4	6	18	5	8	18	6	9	15	7	9	15	8	9	13	15	9	7	15	9	7	11	9	10	7	10	14	4	7	19	4	6	21	90	97	178
Roseburg	69	3	10	18	3	10	15	5	12	14	7	11	12	10	11	10	12	10	8	19	9	3	20	8	3	15	9	6	9	12	10	4	10	16	2	10	19	109	122	134
Salem	50	4	6	21	6	5	17	7	8	16	8	8	14	10	8	13	12	7	11	20	6	5	19	6	6	14	6	10	10	7	14	6	5	19	4	5	22	120	77	168
<b>PENNSYLVANIA</b>																																								
Allentown	17	12	10	9	13	8	7	13	10	8	14	9	7	15	9	7	15	8	7	16	8	7	15	10	6	16	8	6	16	8	7	12	11	7	12	11	8	169	110	86
Erie	74	2	8	21	4	8	16	6	11	14	8	11	11	10	12	9	11	12	7	12	14	5	11	14	6	10	11	9	8	10	13	4	7	19	2	6	23	88	124	153
Harrisburg	58	7	9	15	7	8	13	8	9	14	9	9	12	8	11	12	8	12	10	9	12	10	10	11	10	12	9	12	8	11	8	9	13	7	9	15	105	116	144	
Philadelphia	75	8	10	13	8	9	11	9	10	12	9	10	11	10	11	9	12	10	11	9	12	10	10	11	10	11	10	9	12	9	10	10	9	11	9	9	13	114	121	130
Phillipsburg	5	2	8	21	2	9	17	4	9	18	5	7	18	4	9	18	2	11	17	6	14	11	7	13	11	8	11	11	10	8	13	4	8	18	2	9	20	56	116	193
Pittsburgh	77	4	8	19	4	9	15	6	10	15	7	10	13	8	12	11	7	14	9	9	14	8	10	13	8	10	12	8	10	10	11	6	9	15	4	8	19	85	129	151
Reading	43	8	9	14	8	8	12	9	10	12	9	10	11	9	11	11	9	11	10	9	12	10	11	10	11	10	9	12	9	10	8	10	12	7	9	15	109	120	136	
Scranton	46	5	10	16	6	9	13	7	10	14	7	10	13	8	12	11	7	13	10	7	15	9	8	14	9	10	11	9	9	10	12	5	9	16	4	9	18	83	132	150

TECHNICAL PAPER NO. 12

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. Yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual						
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy							
RHODE ISLAND																																												
Block Island	67	9	10	12	10	8	10	11	9	11	11	9	10	10	10	11	10	10	11	9	11	12	8	12	11	8	12	9	9	13	8	10	10	9	11	9	9	13	128	116	121			
Providence	43	10	8	13	10	8	10	12	8	11	10	9	11	10	10	11	10	10	11	9	10	12	9	11	11	9	11	10	9	14	8	9	10	9	11	11	8	12	129	113	123			
SOUTH CAROLINA																																												
Charleston	76	10	10	11	10	8	10	12	10	9	13	10	11	12	7	8	14	8	8	15	8	8	15	8	15	8	10	12	8	14	10	7	14	9	7	11	9	11	130	134	101			
Columbia	61	11	8	12	11	7	10	12	10	12	10	10	12	10	8	10	13	7	8	14	8	14	7	9	13	9	12	11	7	16	8	7	15	7	8	12	7	12	140	118	107			
Greenville	30	11	7	13	11	6	11	12	8	11	12	8	10	10	11	11	11	9	8	14	8	7	15	9	13	10	12	11	7	16	7	8	14	6	10	12	6	13	134	112	119			
SOUTH DAKOTA																																												
Huron	66	11	10	10	10	10	8	9	11	11	10	10	10	10	10	12	9	11	13	6	14	13	4	14	12	5	13	10	7	13	10	8	10	10	10	10	10	11	135	131	99			
Rapid City	60	11	10	10	9	10	9	8	11	12	8	11	11	8	12	11	10	10	12	11	10	12	8	14	12	5	14	12	5	14	9	7	14	9	8	11	10	9	11	10	10	132	128	105
TENNESSEE																																												
Chattanooga	69	8	9	14	8	8	12	9	10	12	10	11	9	10	13	8	8	15	7	7	16	8	9	15	7	12	12	6	15	9	7	12	8	10	9	8	14	117	134	114				
Knoxville	75	8	9	14	8	8	12	10	9	12	10	10	10	11	12	8	9	13	8	9	14	8	10	13	8	13	10	7	16	8	7	11	8	11	9	8	14	124	122	119				
Memphis	77	10	7	14	9	7	12	11	8	12	11	9	10	11	11	9	11	12	7	12	12	7	14	11	6	14	9	7	17	7	7	12	7	11	10	7	14	142	107	116				
Nashville	77	8	8	15	7	8	13	9	9	13	9	10	11	10	12	9	9	14	7	10	14	7	11	13	7	13	10	7	15	8	8	11	8	11	8	8	15	120	122	123				
TEXAS																																												
Abilene	61	12	8	11	9	9	10	12	10	9	12	9	9	11	12	8	14	11	5	15	11	5	14	11	6	14	9	7	17	7	7	14	7	9	13	8	10	157	112	96				
Amarillo	56	16	9	6	14	8	6	17	9	5	15	10	5	16	10	5	16	11	3	16	12	3	17	11	3	17	9	4	18	7	6	18	7	5	17	7	7	197	110	58				
Austin	37	12	6	13	11	6	11	12	8	11	12	8	10	11	12	8	12	13	5	15	13	3	16	12	3	12	12	6	15	9	7	12	7	11	11	6	14	151	112	102				
Brownsville	25	7	9	15	6	10	12	8	12	11	7	14	9	10	15	6	11	14	5	12	15	4	14	13	4	9	14	7	14	11	6	8	11	11	6	9	16	112	147	106				
Corpus Christi	60	8	8	15	7	9	12	8	10	13	7	11	12	8	14	9	12	13	5	14	13	4	15	11	5	13	11	6	15	10	6	10	9	11	8	9	14	125	128	112				
Dallas	34	12	7	12	10	7	11	11	9	11	10	10	10	10	11	10	13	12	5	16	10	5	16	11	4	16	8	6	15	8	8	13	7	10	11	7	13	153	107	105				
Del Rio	42	12	8	11	12	7	9	13	10	8	12	10	8	11	12	8	12	13	5	15	12	4	17	11	3	13	10	7	14	9	8	12	8	10	12	7	12	155	117	93				
El Paso	68	17	9	5	15	9	4	18	10	3	20	8	2	21	8	2	21	8	1	13	15	3	15	13	3	18	9	3	21	7	3	19	7	4	18	9	4	216	112	37				
Fort Worth	49	12	8	11	10	8	10	13	8	10	11	10	9	11	12	8	13	12	5	15	12	4	15	12	4	16	9	5	15	9	7	14	8	8	13	7	11	158	115	92				
Galveston	76	10	9	12	9	8	11	10	10	11	10	11	9	12	13	6	14	12	4	14	13	4	14	12	5	14	10	6	18	8	5	13	9	8	10	8	13	148	123	94				
Houston	36	9	8	14	8	8	12	10	8	13	9	10	11	10	13	8	11	14	5	10	15	6	10	16	5	12	12	6	15	10	6	11	9	10	8	8	15	123	131	111				
Palestine	62	10	8	13	9	7	12	10	9	12	9	10	11	10	12	9	10	14	6	12	14	5	12	14	5	13	11	6	16	8	7	12	8	10	10	8	13	133	123	109				
Port Arthur	31	9	7	15	7	8	13	9	10	12	10	11	9	12	12	7	12	12	6	10	14	7	12	15	6	13	10	7	16	9	6	11	9	10	8	7	16	127	124	114				
San Antonio	62	11	8	12	9	8	11	10	10	11	9	11	10	10	14	9	11	15	4	13	14	4	12	15	4	11	12	7	14	10	7	11	8	11	11	7	13	130	132	103				
UTAH																																												
Modena	47	13	9	9	11	8	9	12	10	9	12	11	7	13	12	6	19	8	3	16	11	4	16	12	3	20	7	3	19	7	5	16	8	6	14	8	9	181	111	73				
Salt Lake City	19	7	9	15	6	8	14	8	10	13	7	11	12	10	12	9	14	11	5	17	10	4	16	11	4	18	8	4	14	9	8	11	7	12	8	7	16	136	113	116				
VERMONT																																												
Burlington	33	5	7	19	6	8	14	7	9	15	7	8	15	6	10	15	7	12	11	8	12	11	9	11	11	8	10	12	7	8	16	3	7	20	3	7	21	76	109	180				
VIRGINIA																																												
Cape Henry	73	9	9	13	10	8	10	10	10	11	11	9	10	12	11	8	10	12	8	10	13	8	11	12	8	12	10	8	14	8	9	13	8	9	10	9	12	132	119	114				
Lynchburg	76	10	10	11	10	9	9	11	11	9	11	11	8	11	13	7	9	14	7	10	15	6	10	14	7	12	11	7	15	9	7	12	9	9	11	10	10	132	136	97				
Norfolk	77	10	8	13	10	8	10	11	9	11	11	9	10	11	11	9	10	12	8	10	12	9	10	12	9	12	9	9	14	8	9	12	8	10	11	8	12	132	114	119				
Richmond	49	10	8	13	10	8	10	11	9	11	12	8	10	12	10	9	10	11	9	10	13	8	10	12	8	10	12	8	15	8	8	13	8	9	11	7	13	136	112	117				

SUNSHINE AND CLOUDINESS AT SELECTED STATIONS IN UNITED STATES, ALASKA, HAWAII, AND PUERTO RICO

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.

## AVERAGE NUMBER OF CLEAR, PARTLY CLOUDY, AND CLOUDY DAYS.

Stations	No. Yrs. Thru 1948	Jan.			Feb.			Mar.			Apr.			May			June			July			Aug.			Sept.			Oct.			Nov.			Dec.			Annual										
		Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy	Clear	Partly Cldy.	Cloudy											
<b>WASHINGTON</b>																																																
North Head	60	4	5	22	5	6	17	5	8	18	5	9	16	5	10	16	5	9	16	7	10	14	14	7	10	14	7	10	8	8	14	7	8	16	5	5	20	4	5	22	67	92	206					
Seattle	56	3	6	22	4	7	17	5	10	16	5	11	14	6	12	13	8	10	12	13	10	12	13	10	12	13	10	12	8	13	10	8	9	12	9	9	12	3	7	20	4	5	22	77	107	181		
Spokane	65	3	6	22	4	8	16	6	10	15	7	10	13	7	11	13	8	12	10	14	10	12	14	10	12	14	10	12	4	18	9	4	12	9	9	12	8	10	13	4	7	19	3	5	23	97	107	161
Tacoma	51	3	6	22	4	7	17	5	9	17	5	11	14	7	11	13	7	11	12	12	11	12	12	11	12	12	11	12	8	11	12	8	9	12	5	9	17	2	6	22	3	5	23	73	107	185		
Tatoosh Island	59	4	5	22	5	5	18	6	7	18	5	8	17	6	8	17	4	9	17	6	9	17	6	9	17	6	9	17	16	7	8	16	7	8	15	6	7	18	4	5	21	4	5	22	64	84	217	
Walla Walla	53	3	7	21	5	8	15	8	11	12	10	12	8	12	12	7	14	10	6	22	7	2	22	6	3	15	9	6	13	9	9	6	13	9	9	5	8	17	3	6	22	132	105	128				
Yakima	17	4	6	21	5	8	15	7	10	14	8	11	11	9	11	11	12	9	9	22	6	3	22	7	2	22	6	3	15	9	6	13	9	9	5	8	17	3	6	22	132	105	128					
<b>WEST VIRGINIA</b>																																																
Elkins	49	4	7	20	4	7	17	6	8	17	6	9	15	7	11	13	5	13	12	6	14	11	7	13	11	9	12	9	10	9	12	9	10	12	7	7	16	4	7	20	75	117	173					
Parkersburg	59	6	7	18	6	7	15	8	8	15	10	8	12	11	9	11	11	11	8	13	11	11	11	11	8	13	10	7	13	8	10	8	7	15	6	6	19	117	103	145								
<b>WISCONSIN</b>																																																
Green Bay	61	7	8	16	6	8	14	7	10	14	7	9	14	6	11	14	6	13	11	8	14	9	8	13	10	8	10	12	8	9	14	5	7	18	6	7	18	82	119	164								
La Crosse	75	9	9	13	8	9	11	8	10	13	8	10	12	8	11	12	9	12	9	12	12	7	11	12	8	11	9	10	11	9	11	7	8	15	8	8	15	110	119	136								
Madison	69	8	9	14	7	8	13	8	9	14	7	10	13	8	11	12	7	12	11	10	14	7	10	13	8	10	10	10	10	9	12	7	9	14	6	8	17	98	122	145								
Milwaukee	76	8	9	14	7	9	12	8	10	13	8	10	12	9	11	11	9	12	9	13	12	6	12	12	7	11	10	9	10	9	12	7	8	15	7	8	16	109	120	136								
<b>WYOMING</b>																																																
Cheyenne	76	11	13	7	9	11	8	9	13	9	7	13	10	6	14	11	10	14	6	10	15	6	10	15	6	14	11	5	14	10	7	12	11	7	12	12	7	124	152	89								
Lander	56	12	13	6	11	12	5	10	14	7	8	13	9	9	14	8	12	13	5	13	15	3	14	13	4	14	11	5	14	11	6	11	13	6	12	13	6	140	155	70								
Sheridan	39	8	11	12	7	11	10	9	10	12	8	10	12	8	12	11	10	13	7	15	11	5	15	11	5	14	8	8	12	9	10	9	10	11	9	10	12	124	126	115								
Yellowstone Park	47	6	9	16	7	9	12	7	11	13	7	11	12	7	12	12	8	13	9	12	14	5	13	13	5	11	11	8	11	9	11	8	8	14	7	7	17	104	127	134								
<b>ALASKA</b>																																																
Anchorage	8	8	8	15	5	4	19	10	8	13	6	6	18	4	8	19	4	10	16	4	8	19	3	8	20	4	6	20	3	6	22	7	4	19	6	4	21	64	80	221								
Fairbanks	36	11	7	13	10	6	12	11	8	12	11	9	10	7	12	12	6	13	11	7	10	14	5	9	17	5	8	17	7	7	17	10	7	13	11	7	13	101	103	161								
Gambell	5	7	6	18	6	7	15	8	9	14	5	6	19	2	3	26	2	4	24	1	6	24	1	6	24	1	6	23	1	4	26	2	4	24	4	7	20	40	68	257								
Juneau	26	5	3	23	5	3	20	6	4	21	5	4	21	4	5	22	5	6	19	5	4	22	5	4	22	5	4	22	5	4	21	3	3	25	5	2	23	5	3	23	58	45	262					
Ketchikan	34	3	2	26	4	4	20	3	3	25	3	4	23	5	6	20	3	6	21	3	4	24	5	6	20	5	5	20	1	3	27	3	3	24	2	2	27	40	48	277								
Kotzebue	4	9	7	15	10	4	14	7	7	17	11	8	11	4	9	18	5	8	17	4	9	18	2	6	23	3	6	21	4	5	22	10	7	13	5	9	17	74	85	206								
McGrath	7	8	6	17	5	5	18	7	8	16	8	8	14	3	7	21	3	9	18	2	8	21	2	6	23	3	5	22	2	6	23	7	7	16	7	6	18	57	81	227								
Nome	40	12	5	14	11	5	12	12	5	14	11	6	13	8	8	15	9	5	16	5	6	20	4	7	20	6	7	17	8	6	17	10	5	15	12	5	14	108	70	187								
Northway	5	5	7	19	6	8	14	5	10	16	6	9	15	4	10	17	2	15	13	3	11	17	3	7	21	2	6	22	1	7	23	3	7	20	4	8	19	44	105	216								
<b>HAWAII</b>																																																
Honolulu	40	10	14	7	9	13	6	8	13	10	8	14	8	9	16	6	9	16	5	10	17	4	10	16	5	10	15	5	10	15	6	8	14	8	9	14	8	110	177	78								
<b>PUERTO RICO</b>																																																
San Juan	48	10	17	4	11	14	3	12	16	3	10	15	5	7	16	8	7	15	8	7	18	6	9	17	5	6	17	7	8	17	6	8	16	6	8	18	5	103	196	66								

TECHNICAL PAPER NO. 12

Note.--When the average sky cover from sunrise to sunset is 3/10 or less the day is recorded clear, 4/10 to 7/10 partly cloudy, and 8/10 or over cloudy.