METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR JUNE 1949

AEROLOGICAL OBSERVATIONS

[For description of change in Table 1 and charts, see REVIEW, January 1946, p. 6]

TABLE 1.—*Mean dynamic height (geopotential) in units of 0.98 dynamic meters, temperature in degrees centigrade, and relative humidity in percent, for standard pressures, as obtained by radiosondes during June 1949*

STATIONS AND MEAN SURFACE PRESSURES

Standard pressure surface (mb.)	Albany, N. Y. (1,005.7 mb.)				Albuquerque, N. Mex. (834.5 mb.)				Atlanta, Ga. (981.8 mb.)				Big Spring, Tex. (923.4 mb.)				Bismarck, N. Dak. (951.4 mb.)				Boise, Idaho (912.6 mb.)				Brownsville, Tex. (1,010.2 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	86	19.6	74	30	1,620	23.6	34	30	300	22.8	77	30	774	26.3	54	29	505	18.8	63	30	868	22.8	34	30	6	27.4	83
1,000	30	135	(*)	----	30	10	(*)	----	30	139	(*)	----	30	62	(*)	----	29	71	(*)	----	30	62	(*)	----	30	96	26.7	83
950	30	579	19.5	64	30	480	(*)	----	30	589	22.8	69	30	524	(*)	----	29	519	(*)	----	30	519	(*)	----	30	553	24.0	79
900	30	1,042	16.9	66	30	966	(*)	----	30	1,058	20.3	67	30	1,000	26.0	51	29	982	17.4	52	30	988	22.1	32	30	1,023	22.5	61
850	30	1,527	13.6	66	30	1,467	(*)	----	30	1,550	17.0	70	30	1,501	22.5	54	29	1,468	14.4	52	30	1,481	18.5	31	30	1,519	20.2	52
800	30	2,035	10.5	59	30	1,996	21.9	34	30	2,065	13.7	69	30	2,026	18.6	56	29	1,977	10.8	53	30	1,996	14.1	35	30	2,040	17.4	44
750	30	2,571	7.9	53	30	2,558	17.7	35	30	2,611	10.6	64	30	2,580	15.3	48	29	2,518	7.5	53	30	2,538	9.4	41	30	2,592	14.1	42
700	30	3,136	4.7	49	30	3,136	12.7	40	30	3,179	7.6	55	30	3,158	11.6	43	29	3,078	4.1	52	30	3,104	4.6	44	30	3,167	10.6	42
650	30	3,740	1.6	43	30	3,757	7.4	46	30	3,792	4.0	53	30	3,778	6.9	46	29	3,681	.4	50	30	3,702	−.4	48	30	3,784	6.9	37
600	30	4,379	−1.7	38	30	4,405	1.8	56	30	4,434	.3	51	30	4,425	1.7	51	29	4,315	−3.6	48	30	4,338	−4.8	46	30	4,433	3.0	33
550	30	5,067	−5.7	33	30	5,102	−3.9	63	30	5,125	−3.6	47	28	5,118	−3.3	48	29	4,999	−7.8	43	30	5,018	−8.9	39	29	5,131	−1.5	34
500	30	5,806	−10.1	----	30	5,845	−9.4	65	30	5,874	−8.0	45	28	5,868	−8.2	42	29	5,732	−12.3	38	30	5,749	−13.9	38	29	5,884	−6.5	41
450	30	6,618	−15.3	----	30	6,658	−14.9	59	29	6,694	−13.2	45	28	6,685	−13.6	39	29	6,535	−18.0	37	30	6,548	−19.3	36	29	6,709	−11.6	39
400	30	7,486	−22.0	----	30	7,533	−20.5	----	29	7,574	−18.9	44	28	7,566	−19.5	36	29	7,399	−24.2	----	30	7,407	−25.5	----	29	7,593	−17.7	32
350	30	8,454	−29.3	----	30	8,507	−27.7	----	29	8,554	−26.1	----	28	8,544	−26.5	----	29	8,358	−31.7	----	29	8,359	−32.9	----	29	8,578	−24.8	----
300	30	9,535	−37.7	----	30	9,595	−36.2	----	29	9,650	−34.6	----	28	9,639	−34.6	----	29	9,429	−39.9	----	29	9,426	−40.8	----	28	9,680	−33.1	----
250	30	10,767	−46.8	----	30	10,834	−45.7	----	28	10,900	−44.7	----	28	10,887	−44.0	----	27	10,649	−48.2	----	29	10,642	−49.2	----	26	10,935	−42.4	----
200	30	12,212	−56.7	----	29	12,285	−54.7	----	28	12,354	−56.1	----	28	12,352	−54.1	----	27	12,095	−54.7	----	29	12,086	−54.2	----	25	12,407	−53.3	----
175	30	13,049	−60.4	----	28	13,138	−57.8	----	27	13,194	−61.8	----	28	13,198	−58.8	----	24	12,957	−57.1	----	28	12,934	−55.9	----	24	13,257	−58.8	----
150	28	13,999	−62.0	----	24	14,088	−60.8	----	26	14,137	−66.4	----	25	14,162	−63.4	----	24	13,930	−57.5	----	27	13,912	−56.4	----	22	14,208	−64.5	----
125	23	15,129	−62.9	----	13	15,221	−64.4	----	19	15,249	−68.4	----	21	15,272	−67.5	----	23	15,083	−58.5	----	23	15,061	−57.0	----	21	15,304	−70.8	----
100	21	16,501	−62.3	----	6	16,626	−70.2	----	12	16,528	−68.9	----	15	16,610	−69.7	----	19	16,487	−58.4	----	17	16,465	−57.9	----	12	16,598	−73.2	----
80	12	17,881	−61.0	----	----	----	----	----	5	17,909	−66.2	----	10	17,953	−66.7	----	12	17,883	−57.4	----	9	17,884	−57.4	----	8	17,922	−72.8	----
60	6	19,717	−57.1	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6	19,709	−55.0	----	----	----	----	----

Standard pressure surface (mb.)	Buffalo, N. Y. (989.3 mb.)				Camaguey, Cuba [1] (------ mb.)				Caribou, Maine (991.5 mb.)				Charleston, S. C. (1,014.0 mb.)				Ciudad Victoria, Mex. (971.6 mb.)				Columbia, Mo. (984.5 mb.)				Dodge City, Kans. (921.6 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	221	19.9	70	----	----	----	----	30	191	14.7	81	30	13	22.7	90	27	335	29.7	57	30	239	23.0	81	30	792	22.5	72
1,000	30	127	(*)	----	----	----	----	----	30	117	(*)	----	30	135	23.2	85	27	76	(*)	----	30	102	(*)	----	30	71	(*)	----
950	30	576	20.6	58	----	----	----	----	30	560	15.9	65	30	586	21.7	77	27	539	28.3	55	30	554	23.6	70	30	528	(*)	----
900	30	1,037	17.8	59	----	----	----	----	30	1,013	13.5	64	30	1,052	18.9	76	27	1,013	24.2	59	30	1,023	20.8	71	30	999	23.6	63
850	30	1,524	14.5	57	----	----	----	----	30	1,492	10.4	66	30	1,542	15.9	76	27	1,511	20.2	65	30	1,515	17.8	68	30	1,497	20.7	62
800	30	2,034	11.3	55	----	----	----	----	30	1,994	7.4	67	30	2,055	12.9	73	27	2,032	16.2	69	30	2,032	14.9	62	30	2,019	17.3	62
750	30	2,575	8.5	51	----	----	----	----	30	2,529	4.4	65	30	2,602	10.1	68	27	2,584	12.8	67	30	2,581	11.9	57	30	2,570	13.8	57
700	30	3,138	5.4	51	----	----	----	----	30	3,083	1.1	60	30	3,167	7.0	64	27	3,155	9.5	54	30	3,150	8.5	52	30	3,146	10.0	55
650	30	3,746	2.2	46	----	----	----	----	29	3,682	−1.7	55	30	3,778	3.6	66	26	3,773	5.7	49	30	3,763	4.5	54	30	3,760	5.5	53
600	30	4,384	−1.3	41	----	----	----	----	28	4,310	−5.0	50	30	4,420	.1	62	24	4,417	1.9	48	30	4,408	.6	56	30	4,407	1.0	49
550	28	5,069	−5.0	33	----	----	----	----	28	4,991	−9.2	45	29	5,114	−3.9	58	24	5,117	−2.5	44	30	5,103	−3.5	51	30	5,100	−3.7	47
500	27	5,809	−9.7	----	----	----	----	----	28	5,721	−13.8	43	29	5,859	−8.2	55	24	5,864	−6.8	43	30	5,849	−8.0	47	30	5,848	−8.6	43
450	27	6,616	−15.3	----	----	----	----	----	28	6,516	−19.2	39	29	6,678	−13.5	56	23	6,693	−11.3	46	30	6,669	−13.3	42	30	6,662	−13.9	39
400	26	7,493	−21.3	----	----	----	----	----	28	7,380	−25.2	----	29	7,556	−19.5	54	23	7,577	−16.9	41	30	7,547	−19.2	38	30	7,541	−20.4	37
350	23	8,457	−28.6	----	----	----	----	----	28	8,337	−31.7	----	29	8,534	−26.4	----	23	8,564	−24.1	----	30	8,526	−26.5	----	30	8,514	−27.9	----
300	23	9,542	−36.8	----	----	----	----	----	25	9,409	−39.4	----	29	9,630	−34.8	----	21	9,667	−32.6	----	30	9,620	−35.0	----	30	9,602	−36.1	----
250	22	10,778	−46.0	----	----	----	----	----	25	10,634	−47.5	----	28	10,873	−44.8	----	20	10,924	−43.0	----	30	10,865	−44.9	----	30	10,842	−45.8	----
200	20	12,248	−56.6	----	----	----	----	----	21	12,107	−54.6	----	26	12,323	−56.4	----	18	12,383	−55.3	----	30	12,321	−55.8	----	29	12,300	−55.2	----
175	19	13,103	−61.3	----	----	----	----	----	19	12,945	−56.7	----	26	13,160	−51.8	----	18	13,223	−61.8	----	27	13,153	−60.7	----	28	13,138	−59.8	----
150	16	14,079	−64.6	----	----	----	----	----	14	13,913	−58.3	----	22	14,122	−66.2	----	17	14,160	−68.0	----	24	14,110	−64.1	----	24	14,113	−63.0	----
125	12	15,195	−65.2	----	----	----	----	----	9	15,117	−59.4	----	13	15,216	−68.3	----	10	15,210	−73.3	----	14	15,260	−67.4	----	21	15,231	−65.8	----
100	7	16,555	−64.3	----	----	----	----	----	----	----	----	----	6	16,569	−68.3	----	----	----	----	----	9	16,601	−66.8	----	11	16,596	−67.4	----
80	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6	17,958	−64.9	----	7	17,963	−65.4	----

Standard pressure surface (mb.)	El Paso, Tex. (877.4 mb.)				Ely, Nev. (807.6 mb.)				Glasgow, Mont. (934.9 mb.)				Grand Junction, Colo. (849.8 mb.)				Great Falls, Mont. (884.1 mb.)				Greensboro, N. C. (984.8 mb.)				Hatteras, N. C. (1,016.1 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	1,195	28.9	25	30	1,908	17.1	40	30	648	19.7	47	30	1,474	21.3	37	30	1,128	17.5	46	29	273	21.9	82	30	3	23.5	88
1,000	30	9	(*)	----	30	38	(*)	----	30	60	(*)	----	30	34	(*)	----	30	60	(*)	----	29	139	(*)	----	30	143	22.8	86
950	30	488	(*)	----	30	496	(*)	----	30	513	(*)	----	30	497	(*)	----	30	514	(*)	----	29	589	22.2	71	30	596	20.9	79
900	30	976	(*)	----	30	970	(*)	----	30	975	18.8	40	30	976	(*)	----	30	982	(*)	----	29	1,055	19.4	72	30	1,057	18.2	76
850	30	1,476	27.7	25	30	1,464	(*)	----	30	1,462	14.7	43	30	1,471	(*)	----	30	1,462	15.3	43	29	1,546	16.3	73	30	1,546	15.6	71
800	30	2,008	23.1	28	30	1,988	17.7	35	30	1,971	10.6	49	30	1,997	19.5	35	30	1,973	11.1	46	29	2,060	13.3	72	30	2,059	12.9	66
750	30	2,570	18.2	33	30	2,537	14.2	34	30	2,507	6.2	55	30	2,551	15.1	38	30	2,510	6.6	51	29	2,606	10.1	69	29	2,603	10.1	61
700	30	3,151	13.0	40	30	3,114	9.3	38	30	3,066	2.0	57	30	3,127	10.3	44	30	3,068	1.9	56	29	3,173	6.9	61	29	3,170	7.0	58
650	30	3,768	7.4	48	30	3,723	4.0	44	30	3,661	−2.0	55	30	3,740	5.1	51	30	3,664	−2.9	58	29	3,783	3.9	51	29	3,780	3.7	53
600	30	4,421	1.7	57	30	4,367	−1.4	48	30	4,291	−6.2	51	30	4,385	−.2	57	30	4,290	−7.4	59	29	4,476	.3	49	29	4,422	−.1	49
550	30	5,113	−3.8	58	30	5,052	−7.1	49	30	4,969	−10.3	41	30	5,076	−5.5	56	30	4,965	−11.9	52	29	5,119	−3.6	42	29	5,115	−4.1	50
500	30	5,862	−8.8	52	30	5,790	−12.0	41	30	5,695	−15.1	34	30	5,817	−10.5	50	30	5,685	−16.7	47	29	5,866	−7.8	42	29	5,860	−8.4	45
450	30	6,677	−14.1	38	30	6,591	−17.7	34	30	6,489	−20.7	----	30	6,629	−16.0	43	30	6,477	−22.2	----	29	6,686	−13.1	40	29	6,677	−13.5	44
400	30	7,555	−20.3	----	29	7,458	−23.7	----	30	7,343	−27.0	----	30	7,497	−22.0	----	30	7,324	−28.5	----	29	7,567	−19.3	38	28	7,555	−19.8	42
350	29	8,529	−27.6	----	29	8,419	−31.2	----	30	8,291	−34.4	----	30	8,465	−29.2	----	30	8,267	−35.3	----	28	8,544	−26.4	----	28	8,531	−27.2	----
300	28	9,616	−36.4	----	29	9,493	−39.1	----	30	9,350	−42.7	----	29	9,543	−37.6	----	30	9,322	−43.6	----	28	9,640	−34.7	----	28	9,622	−35.8	----
250	28	10,854	−46.2	----	29	10,719	−47.6	----	29	10,555	−51.2	----	27	10,773	−46.5	----	30	10,526	−50.9	----	27	10,887	−44.6	----	25	10,858	−45.8	----
200	25	12,293	−56.2	----	28	12,170	−54.0	----	28	11,991	−54.3	----	22	12,253	−53.5	----	29	11,969	−54.6	----	27	12,343	−55.9	----	25	12,305	−56.9	----
175	20	13,142	−60.5	----	25	13,008	−56.6	----	27	12,843	−54.7	----	21	13,101	−56.0	----	28	12,816	−55.4	----	26	13,186	−61.0	----	24	13,145	−61.6	----
150	12	14,116	−66.1	----	22	13,971	−59.1	----	26	13,828	−54.9	----	20	14,072	−58.6	----	24	13,786	−54.3	----	26	14,133	−64.7	----	23	14,085	−64.9	----
125	6	15,238	−69.9	----	18	15,112	−61.3	----	21	14,999	−56.0	----	10	15,196	−60.8	----	17	14,946	−54.6	----	19	15,236	−66.0	----	18	15,196	−66.4	----
100	----	----	----	----	15	16,479	−63.2	----	13	16,414	−57.6	----	9	16,572	−62.7	----	13	16,375	−56.5	----	11	16,577	−66.3	----	8	16,528	−64.9	----
80	----	----	----	----	9	17,861	−62.1	----	6	17,832	−56.2	----	----	----	----	----	11	17,789	−56.2	----	5	17,927	−62.8	----	----	----	----	----
60	----	----	----	----	5	19,637	−59.2	----	----	----	----	----	----	----	----	----	7	19,622	−54.7	----	----	----	----	----	----	----	----	----
50	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7	20,790	−53.6	----	----	----	----	----	----	----	----	----

See footnotes at end of table.

Standard pressure surface (mb.)	Havana, Cuba [1] (---- mb.)				Honolulu, T. H. (1,015.4 mb.)				International Falls, Minn. (968.6 mb.)				Joliet, Ill. (992.5 mb.)				Lake Charles, La. (1,012.7 mb.)				Lander, Wyo. (827.7 mb.)				Las Vegas, Nev. (931.4 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	----	----	----	----	30	3	26.6	63	30	360	15.6	76	30	178	20.5	76	30	5	25.4	86	30	1,696	15.7	56	30	660	30.5	19
1,000	----	----	----	----	30	137	24.3	66	30	86	(*)	----	30	111	(*)	----	30	117	26.1	78	30	52	(*)	----	30	17	(*)	----
950	----	----	----	----	30	586	20.5	72	30	528	17.3	65	30	562	21.6	63	30	570	23.9	72	30	509	(*)	----	30	483	(*)	----
900	----	----	----	----	30	1,049	16.8	79	30	986	15.1	60	30	1,025	18.7	65	30	1,041	21.0	70	30	978	(*)	----	30	965	28.9	22
850	----	----	----	----	30	1,535	13.8	78	30	1,468	11.7	65	30	1,514	15.7	62	30	1,534	18.0	65	30	1,466	(*)	----	30	1,468	24.6	24
800	----	----	----	----	30	2,045	12.8	56	30	1,972	8.8	63	30	2,026	12.9	58	30	2,051	15.3	57	30	1,986	15.9	45	30	1,994	19.8	28
750	----	----	----	----	30	2,594	11.7	38	30	2,512	5.9	59	29	2,576	10.3	50	30	2,599	12.5	44	30	2,536	11.8	47	30	2,540	14.7	33
700	----	----	----	----	30	3,161	9.2	36	30	3,066	3.0	57	29	3,142	7.5	47	30	3,172	9.1	43	30	3,103	7.3	52	30	3,123	9.4	39
650	----	----	----	----	30	3,778	6.0	36	30	3,669	−.5	54	29	3,749	4.1	42	30	3,785	5.1	45	30	3,709	2.5	56	30	3,735	4.3	44
600	----	----	----	----	30	4,424	2.7	34	30	4,299	−4.0	46	29	4,395	.1	41	30	4,430	1.0	43	30	4,350	−2.4	55	29	4,383	−.3	44
550	----	----	----	----	30	5,124	−1.7	32	29	4,980	−8.0	40	29	5,087	−4.3	39	30	5,126	−3.2	40	30	5,035	−7.3	51	29	5,071	−5.3	42
500	----	----	----	----	30	5,875	−6.8	34	29	5,711	−12.7	38	29	5,832	−8.7	36	30	5,873	−7.8	42	30	5,771	−12.4	43	29	5,814	−10.2	34
450	----	----	----	----	30	6,694	−12.7	37	29	6,513	−18.2	35	29	6,649	−13.9	34	30	6,693	−13.1	37	30	6,575	−17.9	38	29	6,623	−15.8	----
400	----	----	----	----	30	7,578	−19.2	37	29	7,376	−24.4	----	29	7,527	−20.0	34	30	7,572	−19.3	36	30	7,438	−24.5	----	29	7,497	−22.5	----
350	----	----	----	----	30	8,557	−26.6	----	29	8,334	−31.4	----	29	8,503	−27.3	----	29	8,550	−26.7	----	30	8,395	−32.2	----	29	8,462	−30.4	----
300	----	----	----	----	30	9,651	−35.2	----	29	9,407	−39.3	----	29	9,593	−35.7	----	29	9,643	−35.3	----	30	9,464	−40.5	----	29	9,538	−38.6	----
250	----	----	----	----	28	10,900	−45.4	----	29	10,632	−48.1	----	29	10,835	−45.7	----	28	10,889	−45.0	----	30	10,681	−49.2	----	29	10,766	−47.6	----
200	----	----	----	----	28	12,351	−56.6	----	28	12,074	−54.5	----	26	12,279	−57.0	----	28	12,342	−56.1	----	29	12,127	−56.0	----	29	12,214	−55.0	----
175	----	----	----	----	28	13,187	−61.6	----	28	12,924	−56.2	----	25	13,107	−61.9	----	28	13,178	−61.8	----	28	12,981	−57.8	----	29	13,059	−58.7	----
150	----	----	----	----	28	14,134	−64.9	----	26	13,904	−56.6	----	20	14,045	−65.5	----	27	14,121	−67.3	----	24	13,951	−59.2	----	29	14,019	−62.1	----
125	----	----	----	----	28	15,238	−67.1	----	20	15,050	−56.9	----	19	15,159	−65.7	----	24	15,216	−71.8	----	17	15,086	−61.6	----	26	15,150	−65.4	----
100	----	----	----	----	27	16,581	−68.8	----	11	16,496	−58.5	----	14	16,516	−64.7	----	17	16,524	−72.3	----	12	16,463	−63.3	----	17	16,506	−66.4	----
80	----	----	----	----	26	17,920	−67.9	----	----	----	----	----	8	17,869	−61.8	----	8	17,867	−69.5	----	----	----	----	----	8	17,864	−63.6	----
60	----	----	----	----	23	19,675	−61.4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
50	----	----	----	----	21	20,813	−57.2	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
40	----	----	----	----	16	22,227	−52.9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
30	----	----	----	----	7	24,064	−50.9	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	Little Rock, Ark. (1,004.0 mb.)				Mazatlan, Mex. (1,007.6 mb.)				Medford, Oreg. (967.7 mb.)				Merida, Mex. (1,009.5 mb.)				Miami, Fla. (1,015.9 mb.)				Nantucket, Mass. (1,016.4 mb.)				Nashville, Tenn. (994.0 mb.)			
Surface	30	79	24.3	83	30	14	28.0	71	30	401	22.8	37	30	27	27.9	71	30	4	25.0	83	30	14	16.1	94	30	177	23.5	82
1,000	30	114	24.5	81	30	81	27.3	71	30	112	(*)	----	30	111	27.5	71	30	143	24.8	81	30	152	17.8	86	30	124	(*)	----
950	30	569	24.4	70	30	537	24.5	60	30	563	21.8	35	30	565	25.0	70	30	594	22.7	76	30	594	17.4	71	30	577	23.0	71
900	30	1,039	21.5	72	30	1,009	23.5	56	30	1,026	17.9	40	30	1,039	21.9	71	30	1,064	20.3	71	30	1,053	15.4	59	30	1,044	19.8	72
850	30	1,533	18.5	66	30	1,506	20.8	61	30	1,512	13.8	46	30	1,533	18.9	71	30	1,556	17.3	69	30	1,536	13.0	50	30	1,536	16.6	73
800	30	2,050	15.7	58	30	2,029	17.9	59	30	2,020	10.0	52	30	2,052	15.6	68	30	2,072	14.3	66	30	2,044	10.7	46	30	2,050	13.4	70
750	30	2,599	12.5	53	30	2,588	15.1	53	30	2,559	6.3	53	30	2,601	12.6	62	30	2,614	11.2	61	30	2,583	8.3	38	30	2,596	10.4	63
700	30	3,171	8.9	50	30	3,160	11.5	53	30	3,115	3.2	41	30	3,174	9.0	61	30	3,188	7.9	62	30	3,146	5.4	34	30	3,163	7.0	59
650	30	3,781	5.4	42	29	3,785	7.7	52	30	3,715	−.3	38	30	3,787	5.5	62	29	3,795	4.2	61	30	3,749	2.1	31	30	3,772	3.5	57
600	30	4,431	1.4	49	29	4,433	3.3	55	30	4,348	−4.1	33	30	4,436	2.0	56	29	4,442	.2	64	30	4,389	−1.6	30	30	4,414	−.3	51
550	30	5,127	−2.8	45	29	5,134	−1.3	55	30	5,032	−8.1	32	30	5,133	−2.1	53	29	5,137	−3.7	62	29	5,075	−5.7	30	30	5,107	−4.3	46
500	30	5,876	−7.2	43	29	5,888	−6.1	50	30	5,763	−12.6	33	30	5,885	−6.5	47	29	5,883	−7.6	56	29	5,814	−10.5	29	30	5,851	−8.7	38
450	30	6,701	−12.2	41	29	6,713	−10.9	41	30	6,565	−18.2	34	30	6,709	−11.5	42	29	6,704	−12.7	49	28	6,630	−15.8	29	29	6,668	−13.9	37
400	30	7,580	−18.4	41	29	7,602	−16.4	39	30	7,428	−24.7	----	30	7,595	−17.7	42	29	7,585	−18.8	51	28	7,501	−22.1	----	27	7,548	−19.5	39
350	29	8,564	−25.5	----	29	8,592	−23.5	34	29	8,388	−31.8	----	30	8,580	−24.8	----	29	8,566	−25.8	----	27	8,467	−29.4	----	27	8,526	−26.7	----
300	28	9,664	−33.9	----	29	9,700	−31.9	----	28	9,458	−40.0	----	30	9,681	−33.3	----	29	9,663	−34.2	----	27	9,548	−37.4	----	26	9,620	−35.1	----
250	28	10,916	−43.8	----	27	10,965	−41.6	----	27	10,682	−48.7	----	30	10,934	−43.4	----	29	10,910	−44.6	----	27	10,781	−46.6	----	26	10,865	−44.8	----
200	26	12,387	−54.7	----	27	12,439	−53.6	----	24	12,136	−55.7	----	29	12,396	−55.1	----	29	12,363	−56.6	----	24	12,227	−57.2	----	24	12,322	−55.0	----
175	25	13,226	−60.2	----	27	13,277	−60.1	----	24	12,981	−57.7	----	29	13,235	−61.6	----	29	13,197	−62.7	----	22	13,058	−61.5	----	23	13,162	−60.4	----
150	21	14,181	−64.3	----	24	14,239	−66.4	----	22	13,951	−58.7	----	27	14,174	−68.2	----	28	14,131	−68.0	----	19	14,023	−63.2	----	23	14,111	−65.0	----
125	17	15,271	−66.4	----	17	15,330	−72.2	----	17	15,097	−59.2	----	21	15,256	−73.3	----	21	15,214	−71.6	----	14	15,128	−64.1	----	18	15,202	−66.1	----
100	15	16,620	−68.1	----	12	16,637	−74.8	----	11	16,510	−60.8	----	5	16,557	−75.3	----	10	16,549	−70.6	----	9	16,470	−62.8	----	7	16,575	−67.8	----
80	10	17,965	−66.4	----	6	17,931	−75.8	----	7	17,893	−60.3	----	----	----	----	----	----	----	----	----	----	----	----	----	6	17,937	−65.7	----
60	----	----	----	----	5	19,626	−70.0	----	7	19,691	−58.4	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Standard pressure surface (mb.)	New Orleans, La. (1,014.3 mb.)				North Platte, Nebr. (914.7 mb.)				Oakland, Calif. (1,012.1 mb.)				Oklahoma City, Okla. (966.3 mb.)				Omaha, Nebr. (975.3 mb.)				Phoenix, Ariz. (967.5 mb.)				Pittsburgh, Pa. (972.0 mb.)			
Surface	30	2	25.2	85	30	849	19.9	77	30	6	16.3	71	30	391	24.5	77	30	308	23.2	76	30	339	31.3	25	30	382	21.2	68
1,000	30	127	25.8	79	30	68	(*)	----	30	108	15.2	71	30	87	(*)	----	30	88	(*)	----	30	40	(*)	----	30	132	(*)	----
950	30	582	23.7	74	30	523	(*)	----	30	553	17.8	54	30	542	25.1	68	30	540	22.1	68	30	503	32.8	21	30	585	21.6	62
900	30	1,051	20.7	74	30	989	20.6	68	30	1,008	19.9	29	30	1,015	22.5	67	30	1,006	19.8	67	30	986	29.0	22	30	1,048	19.1	61
850	30	1,543	17.6	72	30	1,482	18.2	63	30	1,498	17.6	26	30	1,511	19.3	65	30	1,497	17.3	65	30	1,491	24.6	25	30	1,538	15.8	63
800	30	2,059	14.6	66	30	2,001	15.1	60	30	2,012	14.7	22	30	2,030	16.3	59	30	2,013	14.2	65	30	2,017	19.9	29	30	2,050	12.7	58
750	30	2,606	11.7	60	30	2,547	11.3	57	30	2,560	11.4	21	30	2,580	13.3	50	30	2,563	11.0	61	30	2,575	15.0	35	30	2,593	9.9	54
700	30	3,178	8.6	55	30	3,116	7.6	56	30	3,127	7.9	20	30	3,154	9.6	51	30	3,128	7.5	58	30	3,147	10.0	41	30	3,160	6.8	53
650	30	3,790	5.1	51	30	3,724	3.3	57	30	3,736	4.2	22	30	3,765	5.4	51	30	3,741	3.6	53	30	3,766	5.3	45	30	3,771	3.4	51
600	30	4,438	1.2	50	30	4,367	−1.0	53	30	4,380	.1	22	30	4,414	.9	47	30	4,380	−.3	51	30	4,407	.1	47	30	4,411	−.2	46
550	30	5,134	−2.7	44	29	5,059	−5.5	50	29	5,071	−4.3	22	30	5,108	−3.6	45	30	5,072	−4.6	45	30	5,100	−4.8	48	30	5,104	−4.0	39
500	30	5,883	−7.1	42	29	5,799	−10.1	42	29	5,816	−9.4	----	30	5,854	−8.4	41	29	5,818	−9.4	37	29	5,844	−9.3	39	30	5,849	−8.3	37
450	29	6,705	−12.5	40	28	6,612	−15.6	37	29	6,620	−15.2	----	29	6,673	−13.6	35	29	6,630	−14.8	34	29	6,658	−14.7	33	30	6,668	−13.7	36
400	29	7,585	−18.7	40	27	7,479	−22.1	----	29	7,502	−22.0	----	29	7,550	−20.0	35	29	7,507	−21.3	----	29	7,531	−21.2	----	30	7,544	−20.1	37
350	29	8,566	−25.8	----	27	8,446	−29.3	----	29	8,470	−29.6	----	29	8,526	−27.2	----	28	8,475	−28.5	----	29	8,502	−28.9	----	29	8,520	−27.3	----
300	29	9,664	−34.2	----	27	9,527	−38.0	----	29	9,551	−37.9	----	29	9,617	−35.6	----	28	9,562	−36.7	----	28	9,586	−37.4	----	28	9,611	−35.8	----
250	29	10,914	−43.9	----	25	10,765	−47.5	----	28	10,788	−46.9	----	28	10,858	−45.1	----	28	10,799	−46.4	----	27	10,821	−46.5	----	28	10,853	−45.5	----
200	28	12,372	−55.4	----	24	12,197	−57.2	----	28	12,238	−55.0	----	25	12,325	−55.4	----	28	12,246	−56.8	----	22	12,258	−55.9	----	27	12,306	−56.0	----
175	24	13,218	−60.8	----	23	13,031	−60.7	----	28	13,084	−57.9	----	22	13,166	−60.0	----	27	13,084	−61.8	----	22	13,098	−59.9	----	23	13,154	−61.0	----
150	22	14,171	−66.0	----	18	14,011	−62.0	----	27	14,043	−60.1	----	21	14,121	−64.0	----	22	14,032	−62.7	----	21	14,053	−63.2	----	21	14,124	−65.1	----
125	12	15,249	−69.5	----	13	15,120	−64.5	----	23	15,182	−61.6	----	8	15,220	−65.8	----	17	15,165	−64.1	----	15	15,136	−65.1	----	17	15,243	−66.2	----
100	----	----	----	----	6	16,444	−63.4	----	20	16,551	−63.2	----	----	----	----	----	11	16,526	−63.3	----	9	16,477	−66.8	----	7	16,592	−64.1	----
80	----	----	----	----	----	----	----	----	15	17,926	−62.4	----	----	----	----	----	8	17,885	−62.3	----	----	----	----	----	----	----	----	----
60	----	----	----	----	----	----	----	----	8	19,715	−58.7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

See footnotes at end of table.

Standard pressure surface (mb.)	Portland, Maine (1,013.7 mb.)				Rapid City, S. Dak. (900.1 mb.)				St. Cloud, Minn. (974.0 mb.)				San Antonio, Tex. (983.8 mb.)				San Juan, P. R. (1,015.8 mb.)				Santa Maria, Calif. (1,004.7 mb.)				Sault Ste. Marie, Mich. (987.5 mb.)			
	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity	Number of observations	Dynamic height	Temperature	Relative humidity
Surface	30	20	15.8	83	30	980	16.6	70	30	317	19.4	73	30	240	26.1	73	30	15	25.9	82	30	71	14.5	80	30	221	13.9	83
1,000	30	135	16.9	75	30	66	(*)	----	30	87	(*)	----	30	95	(*)	----	30	154	25.2	81	30	111	14.0	80	30	113	(*)	----
950	30	578	17.4	64	30	520	(*)	----	30	536	20.4	59	30	553	25.4	71	30	605	21.9	83	30	551	14.8	69	30	555	16.4	65
900	30	1,035	15.3	61	30	984	(*)	----	30	998	17.5	59	30	1,024	22.4	73	30	1,072	18.8	81	30	1,007	19.8	30	30	1,011	15.6	60
850	30	1,518	12.4	59	30	1,472	17.7	51	30	1,484	14.5	59	30	1,520	19.2	72	30	1,562	16.1	73	30	1,498	19.2	25	30	1,495	13.1	61
800	30	2,024	9.4	57	30	1,987	14.1	54	30	1,994	11.4	57	30	2,039	16.3	62	30	2,076	13.8	63	30	2,017	15.9	26	30	2,002	10.3	58
750	30	2,561	6.3	53	30	2,535	10.3	58	30	2,538	8.4	53	30	2,591	13.9	44	30	2,622	11.5	51	30	2,561	12.6	24	30	2,513	7.7	52
700	30	3,120	3.4	44	30	3,099	6.7	57	30	3,098	5.5	47	30	3,166	11.1	36	30	3,193	8.4	46	30	3,134	8.9	27	30	3,103	4.8	48
650	30	3,721	.2	40	30	3,707	2.6	57	30	3,706	2.1	43	29	3,784	7.2	38	30	3,804	4.7	46	30	3,744	5.0	30	30	3,708	1.3	45
600	30	4,355	−3.4	39	30	4,347	−1.8	54	30	4,342	−1.9	42	29	4,435	2.6	41	30	4,450	1.1	41	30	4,391	1.0	28	30	4,345	−1.9	38
550	30	5,039	−7.3	35	30	5,035	−6.2	49	30	5,031	−6.0	38	29	5,133	−2.2	42	29	5,148	−2.7	37	30	5,087	−3.2	26	30	5,033	−5.7	36
500	30	5,775	−12.0	34	30	5,773	−11.1	44	30	5,769	−10.6	35	29	5,883	−7.2	38	29	5,894	−7.2	38	30	5,832	−8.1	----	30	5,773	−10.5	34
450	30	6,581	−17.6	----	30	6,582	−16.6	40	30	6,578	−16.2	32	28	6,706	−12.4	33	29	6,716	−12.8	40	30	6,650	−14.0	----	30	6,580	−16.0	----
400	30	7,445	−23.7	----	30	7,449	−22.7	----	30	7,449	−22.1	----	28	7,587	−18.7	----	29	7,596	−19.1	38	30	7,527	−21.0	----	30	7,453	−22.4	----
350	29	8,408	−31.2	----	30	8,414	−30.3	----	30	8,417	−29.3	----	28	8,568	−25.7	----	29	8,576	−26.4	----	30	8,496	−28.5	----	30	8,419	−29.6	----
300	28	9,479	−39.8	----	30	9,492	−38.3	----	30	9,499	−37.4	----	28	9,668	−33.6	----	28	9,669	−35.0	----	29	9,586	−37.2	----	30	9,500	−37.9	----
250	27	10,694	−49.0	----	30	10,721	−47.1	----	30	10,734	−46.2	----	26	10,923	−43.0	----	27	10,916	−45.3	----	29	10,822	−46.0	----	28	10,744	−47.0	----
200	21	12,148	−58.5	----	28	12,167	−54.8	----	30	12,186	−55.5	----	24	12,395	−53.4	----	27	12,365	−57.5	----	29	12,276	−54.9	----	23	12,193	−57.1	----
175	20	12,990	−61.8	----	25	13,018	−56.1	----	28	13,035	−58.2	----	21	13,244	−58.6	----	26	13,196	−63.8	----	29	13,122	−58.4	----	17	13,042	−61.5	----
150	16	13,960	−63.7	----	22	13,993	−57.9	----	28	14,000	−60.0	----	21	14,200	−64.2	----	23	14,123	−69.6	----	29	14,083	−62.1	----	9	13,997	−61.3	----
125	11	15,163	−62.9	----	18	15,150	−60.0	----	21	15,136	−60.7	----	13	15,329	−69.0	----	14	15,190	−72.6	----	27	15,204	−64.6	----	----	----	----	----
100	----	----	----	----	14	16,543	−61.1	----	16	16,523	−61.0	----	----	----	----	----	7	16,495	−72.2	----	22	16,555	−66.6	----	----	----	----	----
80	----	----	----	----	----	----	----	----	11	17,900	−58.5	----	----	----	----	----	----	----	----	----	9	17,897	−64.0	----	----	----	----	----
60	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5	19,633	−60.7	----	----	----	----	----

Standard pressure surface (mb.)	Spokane, Wash. (929.3 mb.)				Swan Island, W. I.[1] (---------- mb.)				Tacubaya, Mex. (773.4 mb.)				Tampa, Fla. (1,015.7 mb.)				Tatoosh Island, Wash. (1,015.2 mb.)				Toledo, Ohio (991.7 mb.)				Washington, D. C. (1,014.1 mb.)			
Surface	30	721	20.3	32	----	----	----	----	30	2,306	17.5	64	29	9	24.4	85	29	31	10.9	88	30	191	21.2	76	30	25	22.9	72
1,000	30	82	(*)	----	----	----	----	----	30	43	(*)	----	29	146	24.1	79	29	157	10.3	84	30	118	(*)	----	30	146	22.6	70
950	30	534	(*)	----	----	----	----	----	30	512	(*)	----	29	598	22.2	72	29	586	10.0	69	30	569	22.0	61	30	595	20.5	66
900	30	996	18.4	33	----	----	----	----	30	989	(*)	----	29	1,064	19.5	68	29	1,032	9.1	60	30	1,033	19.0	62	30	1,058	17.7	70
850	30	1,482	14.0	37	----	----	----	----	30	1,485	(*)	----	29	1,554	16.5	65	29	1,504	6.7	60	30	1,522	15.7	61	30	1,546	14.9	69
800	30	1,989	9.4	44	----	----	----	----	30	2,018	(*)	----	29	2,068	13.4	65	29	1,999	4.4	56	30	2,034	12.8	57	30	2,057	11.9	64
750	30	2,522	4.7	50	----	----	----	----	30	2,570	15.8	61	29	2,616	10.1	65	29	2,527	1.8	49	30	2,583	9.8	54	30	2,599	9.1	60
700	30	3,078	.3	54	----	----	----	----	30	3,151	11.4	66	29	3,181	7.0	61	29	3,076	−1.1	43	30	3,144	6.7	47	30	3,165	6.7	51
650	30	3,669	−3.9	54	----	----	----	----	30	3,769	6.8	72	29	3,792	3.6	59	29	3,665	−4.5	42	30	3,755	3.4	37	30	3,773	3.2	48
600	30	4,294	−7.8	48	----	----	----	----	30	4,421	2.1	77	29	4,433	−.2	58	29	4,289	−8.0	37	30	4,395	−.1	36	30	4,415	−.6	45
550	30	4,968	−12.0	39	----	----	----	----	29	5,118	−2.2	76	29	5,126	−4.1	59	29	4,962	−12.0	37	30	5,089	−4.3	38	30	5,108	−4.3	41
500	30	5,688	−16.9	39	----	----	----	----	29	5,871	−6.0	64	29	5,871	−8.5	53	29	5,683	−16.6	36	30	5,831	−9.0	----	30	5,851	−9.0	40
450	30	6,477	−22.0	----	----	----	----	----	28	6,701	−10.7	56	29	6,688	−13.6	50	29	6,470	−21.9	----	30	6,648	−14.0	----	30	6,666	−14.3	43
400	30	7,327	−28.1	----	----	----	----	----	28	7,587	−16.2	49	29	7,566	−19.7	45	29	7,324	−27.9	----	30	7,524	−20.2	----	30	7,543	−20.3	----
350	30	8,292	−35.2	----	----	----	----	----	26	8,576	−23.4	----	27	8,547	−26.7	----	29	8,270	−34.5	----	30	8,499	−27.6	----	30	8,517	−27.6	----
300	30	9,329	−42.3	----	----	----	----	----	25	9,684	−32.2	----	27	9,639	−35.4	----	28	9,343	−41.1	----	29	9,589	−36.3	----	30	9,607	−35.8	----
250	27	10,544	−49.3	----	----	----	----	----	25	10,944	−42.6	----	26	10,880	−45.6	----	28	10,563	−47.8	----	29	10,827	−46.4	----	30	10,847	−45.3	----
200	21	12,000	−53.4	----	----	----	----	----	23	12,410	−54.9	----	26	12,327	−57.3	----	26	12,009	−53.0	----	25	12,277	−57.5	----	30	12,299	−56.4	----
175	16	12,872	−54.0	----	----	----	----	----	18	13,260	−61.5	----	24	13,159	−63.4	----	26	12,868	−54.1	----	24	13,109	−62.7	----	30	13,136	−61.5	----
150	15	13,859	−55.2	----	----	----	----	----	11	14,207	−68.1	----	23	14,089	−68.6	----	25	13,853	−54.3	----	16	14,087	−66.0	----	30	14,083	−64.8	----
125	12	15,023	−54.9	----	----	----	----	----	----	----	----	----	20	15,180	−71.2	----	22	15,035	−54.7	----	13	15,176	−66.3	----	25	15,190	−66.2	----
100	9	16,463	−57.4	----	----	----	----	----	----	----	----	----	15	16,488	−71.1	----	20	16,461	−54.7	----	8	16,538	−65.8	----	20	16,552	−65.8	----
80	8	17,874	−56.0	----	----	----	----	----	----	----	----	----	7	17,818	−67.9	----	14	17,882	−54.2	----	5	17,900	−62.8	----	13	17,902	−63.3	----
60	5	19,722	−54.9	----	----	----	----	----	----	----	----	----	----	----	----	----	7	19,717	−53.9	----	----	----	----	----	----	----	----	----

[1] Data not yet received.

*Temperature and relative humidity data for this level are not available or are available only for certain days. See note entitled "Change in Summarization of Radiosonde Data," p. 6, in the January 1946 issue of the MONTHLY WEATHER REVIEW.

NOTE.—All observations scheduled between 0300 and 0500, G. C. T. except at Ciudad, Victoria, Mazatlan and Merida, where they are taken near 0200, G. C. T. "Number of observations" refers to those of dynamic height only. (In a few cases temperature or humidity data may be missing for one or more standard pressure surfaces of some observations.) Relative humidity data are not published for standard pressure surfaces having a corresponding mean temperature below −20° C. Relative humidity data beginning with October 1, 1948, were computed, and expressed in these tables, on the basis of vapor pressure over water. Upper air values of relative humidity at levels with temperatures less than 0° C. have formerly been computed and expressed on the basis of the vapor pressure over ice. All relative humidity observations are obtained by electric hygrometer and have been adjusted to compensate for the values occurring below the operating range of the humidity element. For explanation of the adjustment see article entitled "Curve Method for Obtaining Monthly Means of Relative Humidity," p. 241, MONTHLY WEATHER REVIEW, December 1944.

None of the means included in these tables are based on less than 15 observations at the surface or 5 observations at a standard pressure level.