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METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR OCTOBER 1945

AEROLOGICAL OBSERVATIONS

TABLE 1.—*Mean free-air barometric pressure in millibars, temperature in degrees centigrade, and relative humidity in percent, obtained by radiosondes during October 1945*

STATIONS AND ELEVATIONS IN METERS ABOVE SEA LEVEL

Altitude (meters) m. s. l.	Albany, N. Y. (93 m.)				Albuquerque, N. Mex. (1,620 m.)				Apalachicola, Fla. (5 m.)				Atlanta, Ga. (300 m.)				Big Spring, Tex. (774 m.)				Bismarck, N. Dak. (505 m.)				Boise, Idaho (868 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	1,004	7.9	81	31	840	15.4	39	31	1,016	20.3	80	31	984	14.1	78	31	930	15.5	73	31	955	6.8	55	31	917	11.9	51
500	31	956	7.6	73					31	960	19.3	69	31	961	16.5	63												
1,000	31	900	5.0	73					31	906	16.2	70	31	906	14.0	64	31	905	16.1	66	31	900	9.7	42	31	903	15.0	44
1,500	31	846	2.6	73					31	854	13.9	62	31	853	11.8	60	31	854	14.5	59	31	847	7.2	41	31	851	14.0	38
2,000	31	795	0.1	68	31	803	14.9	38	31	804	11.8	54	31	804	9.9	48	31	804	13.0	50	31	797	4.7	41	31	801	10.6	40
2,500	31	747	−1.7	62	31	757	11.1	41	31	758	9.5	43	31	757	7.9	39	31	758	10.7	46	31	749	2.2	43	31	754	6.9	42
3,000	31	701	−4.1	57	31	712	7.4	46	31	713	7.2	33	31	712	5.5	36	31	713	7.8	44	31	704	−0.7	46	31	710	3.4	44
4,000	29	617	−9.4	51	31	630	0.1	49	30	631	2.0		31	629	−0.2		30	631	2.1		31	620	−6.7	48	31	626	−3.2	44
5,000	29	541	−15.2	47	31	555	−5.7	43	30	556	−4.2		31	554	−5.7		29	557	−3.9		31	545	−12.8	48	31	551	−9.9	47
6,000	28	473	−21.4		31	488	−11.8		30	489	−10.9		30	487	−12.6		29	489	−10.7		31	477	−19.3	48	31	483	−16.5	45
7,000	28	412	−28.3		31	428	−18.9		30	429	−17.7		30	427	−19.8		29	429	−17.8		30	417	−26.0		31	422	−23.8	
8,000	28	358	−35.0		31	373	−26.2		30	375	−24.6		29	372	−27.1		29	375	−24.6		30	362	−33.5		31	368	−31.5	
9,000	27	310	−40.9		30	324	−33.8		30	326	−31.8		28	323	−34.7		29	326	−31.7		30	313	−41.0		30	318	−39.4	
10,000	26	267	−46.3		30	281	−40.4		28	282	−39.2		25	279	−41.9		27	282	−39.6		29	270	−47.6		30	275	−46.4	
11,000	25	229	−51.3		30	242	−47.0		28	243	−46.7		24	240	−48.1		27	243	−46.8		26	232	−53.2		29	236	−52.5	
12,000	24	196	−54.9		28	207	−53.3		27	208	−53.6		24	206	−53.7		26	209	−53.3		25	198	−56.9		28	202	−56.9	
13,000	24	168	−57.0		22	177	−58.4		25	178	−59.6		23	176	−58.3		26	178	−59.0		17	171	−57.7		23	173	−59.2	
14,000	16	143	−59.1		15	151	−61.9		24	151	−65.0		22	150	−62.3		18	154	−63.1		13	145	−59.7		18	148	−62.1	
15,000	9	122	−61.1		6	129	−67.3		18	128	−68.6		15	127	−65.6		8	131	−68.8		6	125	−60.7		11	126	−63.5	
16,000	6	105	−61.9						10	109	−72.0		10	107	−68.5										5	107	−64.0	

Altitude (meters) m. s. l.	Brownsville, Tex. (6 m.)				Buffalo, N. Y. (221 m.)				Burrwood, La. (2 m.)				Caribou, Maine (191 m.)				Charleston, S. C. (14 m.)				Clovis, N. Mex. (1,305 m.)				Denver, Colo. (1,616 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	1,015	21.7	85	30	989	8.6	74	31	1,017	21.3	82	31	991	4.1	85	30	1,017	15.7	88	31	871	12.5	66	30	840	9.6	60
500	31	959	20.3	77	30	957	8.3	69	31	960	18.9	74	31	954	3.5	80	30	961	17.3	67								
1,000	31	905	17.8	72	30	900	5.6	66	31	906	15.6	69	31	896	1.2	78	30	906	14.5	62								
1,500	31	854	15.6	66	30	846	2.8	65	31	854	14.0	56	31	842	−1.3	74	30	854	12.4	54	31	851	14.5	57				
2,000	31	804	13.8	52	30	795	0.7	67	31	804	12.1	46	31	791	−2.7	66	30	804	10.3	49	31	802	12.4	49	30	802	12.6	44
2,500	31	758	11.7	44	30	747	−1.9	67	31	758	10.0	41	31	742	−4.8	63	30	757	8.3	42	31	756	9.9	43	30	756	9.4	44
3,000	31	714	9.3	38	30	701	−4.3	63	31	713	7.9	34	31	696	−7.1	63	30	712	6.1	37	31	711	6.6	42	30	711	6.0	45
4,000	31	632	3.9		29	617	−9.6	61	31	632	2.3		31	612	−11.3	58	30	630	1.0		31	629	0.6	39	30	628	−1.4	49
5,000	31	558	−2.5		29	542	−15.0	55	30	557	−3.7		31	536	−17.5	59	29	555	−5.2		31	554	−5.2		30	553	−8.6	49
6,000	31	491	−8.6		29	474	−22.1		30	490	−10.0		31	469	−24.2		29	488	−11.8		30	487	−11.8		30	485	−15.4	42
7,000	31	432	−15.1		27	412	−29.3		30	430	−17.4		31	408	−31.1		28	428	−18.9		29	427	−18.9		29	425	−22.6	
8,000	31	377	−22.1		27	358	−35.8		29	376	−24.5		29	353	−38.2		26	373	−26.0		29	373	−26.3		29	370	−30.4	
9,000	31	328	−29.6		27	309	−42.0		29	327	−31.8		28	305	−43.6		25	324	−33.3		29	324	−33.3		29	320	−38.3	
10,000	31	285	−37.3		26	267	−46.9		29	283	−39.1		27	263	−48.9		25	281	−40.0		29	280	−40.6		29	276	−45.7	
11,000	31	246	−44.9		16	229	−49.6		29	244	−46.9		26	226	−52.8		24	242	−46.8		29	241	−47.9		28	238	−51.5	
12,000	31	211	−52.0		12	196	−52.2		29	209	−54.4		24	195	−55.6		22	208	−53.4		29	207	−53.9		27	204	−55.8	
13,000	30	180	−58.7		7	167	−53.4		27	179	−60.6		14	164	−55.4		19	177	−59.1		27	177	−59.4		23	174	−58.9	
14,000	27	154	−65.5						24	152	−66.6		11	140	−56.2		14	151	−63.5		22	151	−64.6		14	148	−62.5	
15,000	18	130	−70.4						14	129	−71.1		7	120	−57.0		7	128	−66.8		9	128	−69.2		7	126	−66.1	
16,000	9	110	−74.5										5	102	−56.9													

Altitude (meters) m. s. l.	Dodge City, Kans. (787 m.)				El Paso, Tex. (1,195 m.)				Ely, Nev. (1,908 m.)				Fort Worth, Tex. (211 m.)				Glasgow, Mont. (648 m.)				Grand Junction, Colo. (1,414 m.)				Great Falls, Mont. (1,128 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	926	12.3	65	31	884	18.0	53	31	811	8.0	61	31	994	17.5	70	31	938	8.5	53	30	860	12.2	58	31	886	11.1	50
500													31	961	17.6	63												
1,000	31	903	14.5	56									31	906	15.1	67	31	900	11.0	43								
1,500	31	852	13.2	49	31	853	17.9	50					31	854	13.6	60	31	847	8.1	44	30	852	13.6	52	31	848	11.4	44
2,000	31	802	10.8	46	31	804	14.5	53	31	802	10.0	54	31	804	11.8	50	31	796	5.0	48	30	802	11.9	47	31	798	8.1	46
2,500	31	755	8.2	42	31	758	11.5	53	31	756	8.2	49	31	758	9.3	48	31	749	2.0	49	30	756	8.5	49	31	751	4.4	49
3,000	31	710	5.4	37	31	713	8.6	48	31	711	4.5	52	31	713	6.8	44	31	703	−1.1	53	30	711	4.7	53	31	706	1.0	50
4,000	31	628	−0.4	33	31	632	2.3	42	31	628	−2.2	56	31	631	1.1	39	30	620	−6.7	52	30	628	−2.7	59	31	622	−5.0	48
5,000	31	553	−6.5	29	31	557	−3.7		31	553	−7.9	48	31	556	−4.4		30	545	−12.4	53	30	553	−9.2	52	31	547	−11.3	51
6,000	31	486	−13.7		31	490	−10.1		31	485	−14.4	43	29	489	−10.8		30	477	−18.9	51	30	485	−15.9	43	30	480	−18.0	47
7,000	31	426	−21.2		31	430	−17.1		31	425	−21.7		29	429	−18.1		29	416	−25.7		30	424	−23.1		30	419	−25.4	
8,000	31	371	−28.7		31	376	−24.3		31	370	−29.3		29	374	−25.2		28	362	−33.1		30	369	−30.6		30	364	−33.2	
9,000	31	322	−36.1		30	327	−31.4		31	321	−37.0		28	326	−32.1		28	312	−40.6		30	320	−38.5		29	315	−41.2	
10,000	30	278	−42.9		30	283	−39.0		31	277	−44.7		26	282	−39.6		27	270	−47.7		27	277	−44.7		29	271	−48.7	
11,000	30	239	−49.2		30	244	−46.9		31	238	−50.1		25	243	−46.9		24	232	−52.8		26	238	−50.2		27	233	−53.6	
12,000	30	205	−54.8		30	209	−54.0		29	204	−54.8		24	209	−53.4		19	199	−55.6		24	203	−55.1		27	199	−57.0	
13,000	26	176	−58.7		26	179	−59.9		23	175	−58.4		21	178	−59.0		17	171	−56.9		17	175	−58.0		22	170	−58.8	
14,000	21	150	−62.4		20	153	−65.1		16	149	−61.5		17	152	−64.7		11	146	−59.6		11	150	−60.9		19	145	−60.2	
15,000	13	128	−65.8		5	130	−69.6		6	128	−65.4		10	129	−69.3		8	124	−61.1		5	127	−64.2		11	124	−62.1	
16,000	7	109	−69.5										5	109	−74.0										5	105	−63.0	

TABLE 1.—*Mean free-air barometric pressure in millibars, temperature in degrees centigrade, and relative humidity in percent, obtained by radiosondes during October 1945*—Continued

Altitude (meters) m. s. l.	Greensboro, N. C. (273 m.)				Hatteras, N. C. (3 m.)				Havana, Cuba[1] (51 m.)				Huntington, W. Va. (172 m.)				International Falls, Minn. (343 m.)				Joliet, Ill. (178 m.)				Lake Charles, La. (5 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	987	11.3	84	15	1,018	20.2	----	----	----	----	----	31	998	9.5	87	31	972	4.2	75	31	996	8.7	79	30	1,017	18.2	88
500	31	960	14.1	68	15	961	17.9	----	----	----	----	----	31	961	13.1	68	31	953	5.1	72	31	958	10.3	64	30	961	18.2	74
1,000	31	905	11.7	65	15	906	14.4	----	----	----	----	----	31	905	10.5	65	31	897	2.9	71	31	901	7.8	65	30	906	15.8	68
1,500	31	852	8.9	63	15	854	11.7	----	----	----	----	----	31	851	7.8	64	31	843	0.6	65	31	848	5.3	61	30	855	13.9	62
2,000	31	802	7.2	50	15	804	10.0	----	----	----	----	----	31	801	5.3	58	31	792	−1.5	60	31	798	3.4	54	30	805	12.2	53
2,500	31	755	5.0	47	15	758	8.4	----	----	----	----	----	31	754	3.1	57	31	744	−3.6	54	31	750	1.8	47	30	758	10.4	46
3,000	31	710	2.8	39	15	712	5.7	----	----	----	----	----	31	708	1.2	51	31	698	−6.3	57	31	704	−0.8	47	30	714	8.1	44
4,000	31	627	−2.4	33	15	630	0.8	----	----	----	----	----	31	625	−3.4	45	31	613	−11.9	51	31	621	−6.2	44	30	632	2.2	43
5,000	31	552	−8.4	----	15	555	−5.4	----	----	----	----	----	31	550	−9.3	47	31	537	−17.3	48	31	546	−11.5	45	28	557	−3.6	----
6,000	31	484	−15.2	----	15	488	−12.1	----	----	----	----	----	31	483	−15.7	50	31	470	−23.8	----	31	479	−17.8	46	28	490	−10.1	----
7,000	31	424	−22.7	----	15	428	−19.3	----	----	----	----	----	31	422	−22.8	----	31	409	−30.5	----	31	418	−24.7	----	28	430	−17.0	----
8,000	31	368	−30.4	----	14	373	−26.5	----	----	----	----	----	31	367	−30.1	----	31	354	−37.2	----	30	364	−31.8	----	28	376	−24.1	----
9,000	30	319	−37.6	----	10	325	−32.8	----	----	----	----	----	31	318	−37.3	----	30	306	−43.3	----	29	315	−38.8	----	28	327	−31.3	----
10,000	30	276	−44.8	----	6	281	−39.6	----	----	----	----	----	30	275	−44.7	----	30	263	−48.1	----	29	272	−45.9	----	28	284	−38.6	----
11,000	29	237	−51.3	----	----	----	----	----	----	----	----	----	30	236	−51.1	----	29	226	−51.4	----	29	233	−51.9	----	28	244	−46.0	----
12,000	29	203	−56.4	----	----	----	----	----	----	----	----	----	27	202	−55.7	----	28	194	−53.4	----	29	199	−56.0	----	28	210	−53.1	----
13,000	25	173	−60.5	----	----	----	----	----	----	----	----	----	22	172	−59.4	----	20	166	−54.6	----	22	170	−57.3	----	25	179	−59.3	----
14,000	22	147	−63.5	----	----	----	----	----	----	----	----	----	17	146	−62.0	----	16	142	−55.5	----	19	144	−59.4	----	23	153	−65.1	----
15,000	13	125	−66.1	----	----	----	----	----	----	----	----	----	10	124	−63.9	----	10	121	−55.5	----	14	123	−60.7	----	13	129	−69.7	----
16,000	9	106	−67.6	----	----	----	----	----	----	----	----	----	6	105	−63.7	----	7	103	−56.4	----	10	104	−60.3	----	----	----	----	----
17,000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	6	88	−60.7	----	----	----	----	----

Altitude (meters) m. s. l.	Lander, Wyo. (1,632 m.)				Las Vegas, Nev. (574 m.)				Little Rock, Ark. (79 m.)				Louisville, Ky. (165 m.)				Mazatlan, Mexico (79 m.)				Medford, Oreg. (409 m.)				Merida, Mexico (27 m.)			
Surface	31	838	8.1	62	31	948	20.6	37	31	1,010	14.6	84	31	999	11.7	74	31	1,003	26.7	78	31	968	15.0	64	29	1,011	25.6	79
500	----	----	----	----	----	----	----	----	31	961	15.6	66	31	960	13.4	59	31	957	24.6	69	31	959	16.0	60	29	958	22.9	77
1,000	----	----	----	----	31	903	21.2	32	31	906	13.3	62	31	904	10.6	60	31	904	22.4	65	31	903	15.3	54	29	904	19.9	75
1,500	----	----	----	----	31	852	17.7	34	31	853	11.9	54	31	851	8.1	60	31	853	19.9	59	31	852	12.5	54	29	853	16.8	75
2,000	31	802	10.8	46	31	803	13.7	39	31	804	10.0	51	31	801	6.1	51	31	804	17.5	48	31	802	9.5	54	29	804	14.2	70
2,500	31	754	7.7	46	31	757	9.7	44	31	757	7.8	48	31	753	4.2	48	31	759	14.6	47	31	755	6.8	49	29	758	12.0	59
3,000	31	710	4.2	47	31	712	5.8	53	31	712	5.4	44	31	708	1.9	46	31	714	11.2	48	31	710	3.9	48	29	714	10.0	51
4,000	31	627	−2.7	49	31	629	−1.0	48	30	629	−0.4	42	30	625	−3.2	46	30	633	4.7	51	31	627	−1.9	48	29	632	4.1	50
5,000	31	552	−9.4	46	31	554	−7.1	36	30	554	−6.1	38	28	550	−9.0	41	28	559	−1.8	45	31	552	−7.8	46	29	558	−2.1	46
6,000	31	484	−16.5	47	31	487	−13.7	----	30	487	−12.8	----	27	483	−15.9	----	28	492	−7.5	39	30	485	−14.3	36	28	492	−8.3	----
7,000	31	423	−24.0	----	31	426	−21.1	----	30	426	−19.8	----	27	422	−23.1	----	26	433	−13.9	----	30	424	−21.2	----	28	432	−14.7	----
8,000	31	368	−32.1	----	30	372	−28.4	----	30	372	−27.2	----	27	367	−30.5	----	26	378	−20.9	----	30	370	−29.2	----	27	378	−21.5	----
9,000	31	318	−40.2	----	29	323	−35.3	----	29	323	−34.5	----	25	318	−37.8	----	25	330	−28.5	----	29	320	−37.4	----	27	329	−28.6	----
10,000	31	274	−47.7	----	29	279	−42.3	----	29	280	−41.5	----	25	274	−44.8	----	24	286	−36.3	----	29	277	−44.7	----	27	286	−36.1	----
11,000	30	235	−53.3	----	29	240	−48.1	----	26	241	−48.3	----	22	236	−51.2	----	24	247	−44.3	----	27	238	−50.9	----	26	247	−44.2	----
12,000	27	201	−56.4	----	28	206	−53.4	----	24	207	−53.7	----	18	202	−55.6	----	24	212	−52.3	----	25	204	−55.4	----	26	212	−52.1	----
13,000	20	173	−59.0	----	26	176	−57.9	----	24	176	−58.5	----	14	172	−58.6	----	21	181	−59.9	----	25	174	−58.8	----	24	181	−59.7	----
14,000	10	147	−60.4	----	23	150	−61.2	----	19	150	−62.8	----	9	146	−60.7	----	19	154	−66.7	----	18	149	−60.8	----	22	154	−66.3	----
15,000	6	126	−62.9	----	21	127	−65.0	----	12	127	−67.2	----	----	----	----	----	15	131	−72.5	----	11	128	−63.3	----	15	131	−71.2	----
16,000	----	----	----	----	15	109	−67.7	----	6	109	−70.4	----	----	----	----	----	6	110	−76.5	----	----	----	----	----	5	111	−76.8	----
17,000	----	----	----	----	5	92	−67.3	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Altitude (meters) m. s. l.	Miami, Fla. (4 m.)				Nashville, Tenn. (180 m.)				North Platte, Nebr. (849 m.)				Oakland, Calif. (2 m.)				Ogden, Utah (1,355 m.)				Oklahoma City, Okla. (391 m.)				Omaha, Nebr. (308 m.)			
Surface	31	1,015	23.7	89	31	997	13.9	74	31	919	10.0	65	31	1,014	16.5	75	31	867	11.7	53	31	972	14.9	77	24	981	12.9	67
500	31	959	22.2	82	31	960	15.1	64	----	----	----	----	31	958	16.3	60	----	----	----	----	31	960	15.5	72	24	959	13.6	59
1,000	31	905	19.6	72	31	905	12.4	62	31	902	12.9	54	31	902	15.7	47	----	----	----	----	31	905	14.3	65	24	904	11.7	56
1,500	31	854	16.8	76	31	853	10.0	58	31	850	11.7	50	31	850	13.4	41	31	852	14.1	44	31	853	12.7	55	24	850	9.8	55
2,000	31	805	14.3	71	31	803	8.2	50	31	800	8.9	50	31	801	10.4	40	31	803	11.4	43	31	803	11.0	45	24	801	8.4	51
2,500	31	759	12.0	67	31	756	6.2	49	31	754	6.3	45	31	754	7.3	42	31	756	8.0	44	31	756	8.8	39	24	754	6.3	48
3,000	31	714	9.5	61	31	710	3.5	52	31	708	3.8	41	31	709	3.7	44	31	711	3.7	51	31	711	6.3	37	24	709	3.7	46
4,000	31	633	4.2	53	31	627	−1.7	48	31	626	−2.4	45	31	626	−2.4	42	31	628	−2.9	50	31	629	0.9	--	24	626	−1.9	45
5,000	31	559	−1.3	44	31	552	−7.6	41	31	551	−8.9	44	31	551	−8.8	38	31	552	−9.3	54	31	555	−5.4	----	24	551	−8.4	39
6,000	30	493	−7.0	42	31	485	−14.4	----	31	483	−15.8	46	31	484	−15.4	35	31	485	−16.0	45	31	488	−12.3	----	24	484	−15.1	----
7,000	30	433	−13.5	47	31	424	−21.8	----	31	423	−23.0	----	30	423	−23.0	----	31	424	−23.4	----	31	427	−19.7	----	24	424	−22.5	----
8,000	29	379	−20.3	----	31	370	−29.3	----	31	368	−31.0	----	30	369	−30.5	----	31	369	−31.3	----	31	372	−27.4	----	24	369	−30.3	----
9,000	29	330	−27.7	----	31	321	−36.6	----	31	319	−38.8	----	30	319	−37.3	----	31	319	−39.2	----	29	323	−34.8	----	24	320	−38.2	----
10,000	29	287	−35.2	----	31	277	−43.7	----	30	275	−45.7	----	30	276	−43.4	----	31	276	46.3	----	29	280	−41.4	----	24	276	−45.3	----
11,000	24	248	−43.3	----	31	238	−50.4	----	30	236	−51.3	----	30	238	−48.9	----	30	236	−51.8	----	28	241	−48.0	----	24	237	−51.1	----
12,000	22	213	−51.4	----	31	204	−55.7	----	26	202	−55.9	----	27	203	−52.9	----	29	203	−55.8	----	27	207	−54.0	----	24	203	−55.6	----
13,000	20	182	−58.8	----	27	174	−60.0	----	21	173	−59.0	----	21	175	−55.0	----	24	173	−58.5	----	25	176	−59.2	----	21	173	−57.9	----
14,000	17	155	−65.5	----	16	148	−63.4	----	10	148	−61.0	----	17	149	−58.8	----	22	148	−61.6	----	18	150	−63.4	----	10	148	−60.4	----
15,000	8	132	−70.1	----	10	125	−66.6	----	5	126	−62.8	----	8	128	−61.4	----	12	126	−64.2	----	14	128	−67.2	----	5	125	−62.6	----
16,000	----	----	----	----	7	107	−68.4	----	----	----	----	----	----	----	----	----	9	108	−66.3	----	5	107	−69.5	----	----	----	----	----

See footnotes at end of table.

TABLE 1.—*Mean free-air barometric pressure in millibars, temperature in degrees centigrade, and relative humidity in percent, obtained by radiosondes during October 1945—Continued*

Altitude (meters) m. s. l.	Phoenix, Ariz. (339 m.)				Pittsburgh, Pa. (382 m.)				Portland, Maine (20 m.)				Rapid City, S. Dak. (981 m.)				St. Louis, Mo. (171 m.)				St. Paul, Minn. (205 m.)				San Antonio, Tex. (240 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	973	22.0	53	25	972	10.0	76	30	1,012	6.3	86	31	904	9.0	53	31	998	12.7	71	31	989	8.2	68	31	989	18.4	78
500	31	955	25.2	40	25	959	10.3	72	30	955	8.2	70					31	959	12.7	62	31	957	8.4	60	31	960	19.0	70
1,000	31	902	22.8	37	25	902	8.1	69	30	899	5.8	67	31	902	9.8	50	31	904	9.9	62	31	900	6.3	56	31	906	16.6	72
1,500	31	852	19.1	41	25	849	5.4	63	30	845	3.3	66	31	850	10.9	42	31	851	7.7	54	31	846	4.1	53	31	854	14.4	71
2,000	31	803	15.0	45	25	798	3.0	64	30	794	1.0	66	31	800	7.5	48	31	800	6.7	44	31	796	1.8	52	31	805	12.9	58
2,500	31	757	10.9	48	25	751	0.5	61	29	747	−0.9	61	31	753	4.6	50	31	753	4.7	45	31	748	−0.5	50	31	758	10.7	52
3,000	31	712	7.2	43	25	705	−1.6	58	29	701	−3.5	58	31	708	1.7	46	31	708	2.0	44	31	702	−2.9	48	31	714	8.4	43
4,000	31	630	0.9	40	25	621	−6.2	54	29	617	−8.7	54	31	624	−4.0	43	30	625	−3.4	42	31	618	−8.0	53	31	632	2.7	37
5,000	29	556	−5.1		25	546	−11.1	49	29	542	−14.7	50	31	549	−10.3	47	30	550	−9.3	37	30	543	−14.1	53	31	558	−3.2	36
6,000	29	488	−12.1		25	479	−17.5	57	28	474	−20.6	51	31	481	−17.0	47	30	482	−16.2		30	475	−20.5	52	31	491	−9.7	37
7,000	28	428	−19.3		24	418	−25.1		28	414	−27.6		30	421	−24.6		29	422	−23.5		30	415	−27.2		31	431	−16.5	40
8,000	28	374	−26.6		24	363	−32.3		27	359	−33.5		30	365	−32.2		29	367	−31.3		29	360	−34.5		31	376	−23.5	
9,000	28	324	−33.7		24	314	−38.8		26	311	−39.4		29	316	−40.1		29	318	−38.7		29	312	−41.6		31	327	−30.8	
10,000	28	281	−40.7		24	271	−44.7		25	268	−45.1		28	272	−47.9		27	274	−45.5		29	268	−47.8		31	284	−38.3	
11,000	27	242	−47.4		22	234	−49.6		25	231	−50.7		27	234	−53.8		27	236	−51.5		29	230	−53.0		30	245	−46.0	
12,000	26	207	−53.7		20	200	−53.3		23	197	−54.0		25	200	−56.5		26	201	−56.4		28	197	−55.9		29	210	−53.3	
13,000	22	178	−58.7		18	171	−57.4		18	169	−56.8		21	171	−58.2		19	172	−59.6		22	168	−56.7		28	179	−59.8	
14,000	16	152	−62.5		9	146	−60.1		14	144	−58.6		15	146	−60.8						18	143	−57.3		25	152	−65.5	
15,000	10	129	−66.1						5	122	−59.0		8	124	−62.8						12	122	−60.3		17	129	−70.7	
16,000	5	109	−67.9																		9	104	−60.6		11	110	−75.2	
17,000																					7	87	−60.1					

Altitude (meters) m. s. l.	San Juan, P. R. (15 m.)				Santa Maria, Calif. (71 m.)				Sault Ste. Marie, Mich. (221 m.)				Spokane, Wash. (598 m.)				Swan Island, W. I.[1] (10 m.)				Tacubaya, Mexico (2,306 m.)				Tampa, Fla. (3 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	1,012	25.3	87	31	1,007	14.4	82	29	988	5.4	83	31	946	10.7	74					29	774	15.0	63	31	1,016	22.6	83
500	31	959	22.3	83	31	958	15.3	68	29	955	4.9	78													31	960	20.6	75
1,000	31	905	19.3	78	31	903	15.8	55	29	898	2.5	76	31	902	11.7	60									31	906	17.6	73
1,500	31	854	16.6	72	31	851	13.5	50	29	844	0.5	69	31	850	8.6	59									31	854	15.2	67
2,000	30	805	13.8	70	31	801	10.3	48	29	792	−1.9	65	31	800	5.3	60									31	805	12.6	60
2,500	30	758	11.2	63	31	755	7.3	42	29	744	−4.2	60	31	752	2.3	57					29	758	13.9	63	31	758	10.3	51
3,000	30	714	8.7	57	31	710	4.5	39	29	698	−6.7	56	31	706	−0.4	56					29	713	10.3	66	31	714	7.9	44
4,000	30	632	3.1	57	31	627	−1.6	34	29	613	−12.2	51	30	622	−6.4	50					29	632	3.3	75	31	632	2.3	40
5,000	30	558	−2.7	52	31	553	−7.5		29	538	−17.8	48	29	546	−12.8	54					29	558	−2.1	63	31	557	−3.6	
6,000	30	491	−8.7	47	31	485	−14.2		29	470	−24.1		29	479	−19.2	48					29	491	−7.4	49	31	490	−10.2	
7,000	29	431	−15.0	43	31	424	−21.7		29	409	−30.7		29	418	−26.2						28	432	−13.4		30	430	−17.0	
8,000	28	377	−22.1		30	370	−28.8		29	354	−37.8		29	363	−33.4						28	378	−20.4		30	376	−23.7	
9,000	28	328	−29.6		30	320	−35.4		29	305	−43.7		29	314	−41.2						28	329	−28.0		30	327	−30.9	
10,000	28	285	−37.4		30	277	−41.3		29	263	−48.0		28	270	−48.4						28	286	−35.5		29	283	−38.5	
11,000	27	246	−45.5		29	239	−46.9		29	226	−51.4		26	232	−53.7						28	247	−43.2		29	244	−46.5	
12,000	27	211	−53.6		28	205	−52.3		25	193	−53.4		24	199	−56.5						25	212	−51.1		29	209	−54.1	
13,000	24	180	−61.2		25	176	−56.4		24	165	−54.4		19	169	−57.8						23	182	−58.8		22	179	−61.0	
14,000	20	153	−67.9		22	150	−60.5		17	141	−55.4		11	145	−59.5						16	154	−65.8		17	152	−67.3	
15,000	9	129	−73.6		18	128	−64.4		15	121	−56.9		6	125	−61.8						5	131	−70.6		11	128	−72.3	
16,000					12	109	−66.8		8	102	−56.7														6	108	−74.1	
17,000					10	92	−68.2																					

STATIONS AND ELEVATIONS IN METERS ABOVE SEA LEVEL

Altitude (meters) m. s. l.	Tatoosh Island, Wash. (31 m.)				Toledo, Ohio (191 m.)				Washington, D. C. (25 m.)				Altitude (meters) m. s. l.	Tatoosh Island, Wash. (31 m.)				Toledo, Ohio (191 m.)				Washington, D. C. (25 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity		Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	1,014	10.0	90	31	994	9.3	78	31	1,015	12.8	77	7,000	28	419	−24.9		29	416	−26.4		31	420	−24.1	
500	31	959	11.3	71	31	958	10.1	68	31	959	12.4	63	8,000	27	364	−32.4		29	362	−33.8		31	365	−31.8	
1,000	31	903	9.1	67	31	901	7.5	65	31	904	9.3	64	9,000	25	316	−39.6		29	313	−40.4		31	316	−39.2	
1,500	31	850	7.0	59	31	848	5.0	60	31	851	6.7	60	10,000	24	273	−46.9		29	270	−46.5		30	273	−46.0	
2,000	31	799	4.7	56	31	797	2.7	64	31	800	4.1	55	11,000	17	237	−50.4		26	232	−51.9		30	234	−52.1	
2,500	31	752	2.1	51	31	750	0.4	57	31	752	2.1	45	12,000	15	202	−55.5		23	198	−55.8		30	200	−56.4	
3,000	31	706	−0.6	52	31	704	−1.7	55	31	707	−0.3	45	13,000	12	173	−57.5		20	169	−57.3		25	171	−59.8	
4,000	30	622	−6.3	50	29	620	−7.4	52	31	623	−4.7	40	14,000	11	148	−59.3		15	144	−58.8		21	146	−62.2	
5,000	30	547	−11.9	52	29	545	−13.2	51	31	548	−10.2	36	15,000	11	126	−16.7		11	122	−60.7		13	124	−64.1	
6,000	28	480	−18.0	52	29	477	−19.7	53	31	481	−17.1	36	16,000									7	104	−63.6	

[1] Data not yet received.

NOTE.—All observations scheduled between 10 p. m. and midnight, E. S. T. (0300 and 0500, G. C. T.), except at Mazatlan and Merida, where they are taken near 9 p. m. E. S. T. (0200, G. C. T.)

"Number of observations" refers to pressure only. (In a few cases temperature or humidity data may be missing for one or more levels of some observations). Relative humidity data are not published for levels having a corresponding mean temperature below −20° C.

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 surface or 5 standard level observations.

Raob data for Havana, Cuba, will appear in a later issue.

TABLE 2.—*Free-air resultant winds based on pilot balloon observations made near 5 p. m. E. S. T. (2200 G. C. T.), during October 1945. Directions given in degrees from north (N=360°, E=90°, S=180°, W=270°). Velocities in meters per second*

Altitude (meters) m. s. l.	Abilene, Tex. (538 m.)			Albuquerque N. Mex. (1,630 m.)			Atlanta, Ga. (299 m.)			Billings, Mont. (1,095 m.)			Bismarck, N. Dak. (512 m.)			Boise, Idaho (868 m.)			Brownsville, Tex. (7 m.)			Buffalo, N. Y. (220 m.)			Burlington, Vt. (132 m.)			Charleston, S. C. (16 m.)			Cincinnati, Ohio (152 m.)			Denver Colo. (1,627 m.)			El Paso, Tex. (1,196 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	158	1.1	31	225	1.0	29	342	1.7	31	254	1.7	31	282	4.3	31	302	2.2	31	87	2.4	30	254	4.8	30	227	1.9	30	36	0.9	31	268	2.1	31	29	1.5	26	142	1.4
500	---	---	---	---	---	---	29	332	1.9	---	---	---	---	---	---	---	---	---	31	91	3.5	30	251	7.2	30	231	5.5	30	44	1.8	31	264	4.1	---	---	---	---	---	---
1,000	30	189	2.0	---	---	---	26	324	1.5	---	---	---	31	291	5.6	31	297	2.4	28	109	2.7	28	250	9.6	29	255	6.7	30	20	0.8	28	251	5.7	---	---	---	---	---	---
1,500	28	221	2.8	---	---	---	25	311	2.2	31	261	3.6	31	293	6.6	31	270	2.0	26	167	1.3	24	262	11.4	24	261	10.5	26	308	2.0	26	268	7.0	---	---	---	26	172	1.4
2,000	23	239	3.7	31	247	1.3	25	304	3.1	31	271	5.1	30	296	10.4	29	256	2.4	22	253	1.3	21	273	12.2	19	260	11.9	25	286	4.2	21	283	9.4	31	35	1.1	26	182	1.2
2,500	21	255	4.1	31	270	2.1	23	312	3.1	30	271	8.5	28	299	12.2	29	253	3.1	23	284	1.4	14	272	12.6	17	266	15.1	23	287	5.3	18	284	11.1	29	204	0.3	24	217	2.6
3,000	21	269	5.1	30	261	2.5	22	297	5.0	30	270	9.5	26	296	13.9	29	253	3.8	22	340	1.3	10	284	13.0	14	263	17.8	22	281	6.0	16	289	14.7	29	274	2.0	23	240	3.5
4,000	21	279	7.2	29	276	6.1	18	288	5.5	27	282	12.3	23	297	16.0	27	267	5.0	23	340	2.5	---	---	---	10	269	22.2	20	270	9.2	11	297	12.3	28	285	6.1	20	266	7.3
5,000	18	281	7.9	28	272	8.6	14	276	6.6	25	274	12.6	23	294	17.8	25	272	5.1	23	332	2.4	---	---	---	---	---	---	17	276	10.4	---	---	---	26	286	8.8	14	267	10.5
6,000	17	285	9.2	27	273	11.1	---	---	---	21	274	13.4	20	294	20.4	25	273	4.8	21	308	3.1	---	---	---	---	---	---	15	271	11.1	---	---	---	25	284	10.5	---	---	---
8,000	16	282	10.9	22	266	15.9	---	---	---	13	278	8.9	11	304	19.8	19	300	4.2	16	306	6.7	---	---	---	---	---	---	13	265	18.6	---	---	---	21	291	11.9	---	---	---
10,000	12	299	17.0	14	262	16.5	---	---	---	13	293	8.6	---	---	---	14	278	4.1	15	316	9.3	---	---	---	---	---	---	---	---	---	---	---	---	18	285	13.3	---	---	---
12,000	10	308	19.2	10	255	21.0	---	---	---	10	286	13.5	---	---	---	---	---	---	10	286	9.7	---	---	---	---	---	---	---	---	---	---	---	---	11	284	19.3	---	---	---

Altitude (meters) m. s. l.	Ely, Nev. (1,910 m.)			Grand Junction, Colo. (1,413 m.)			Greensboro, N. C. (271 m.)			Havre, Mont. (767 m.)			Jacksonville, Fla. (16 m.)			Joliet, Ill. (178 m.)			Las Vegas, Nev. (573 m.)			Little Rock, Ark. (88 m.)			Medford, Oreg. (410 m.)			Miami, Fla. (12 m.)			Mobile, Ala. (66 m.)			Nashville, Tenn. (194 m.)			New York, N. Y. (15 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	31	238	0.6	31	330	2.9	29	241	0.9	30	267	1.5	31	54	3.0	26	258	2.7	31	55	1.2	29	189	0.4	30	322	0.5	31	92	1.5	30	44	1.8	30	291	0.9	29	253	2.4
500	---	---	---	---	---	---	29	245	2.0	---	---	---	30	55	3.5	26	267	4.4	---	---	---	29	238	1.1	30	318	0.6	31	81	2.4	30	29	1.8	30	274	1.5	29	251	5.1
1,000	---	---	---	---	---	---	29	250	3.4	30	269	3.3	28	40	2.2	26	270	6.3	31	92	1.7	29	255	1.8	30	62	0.3	31	68	2.0	29	10	2.8	29	249	2.1	27	267	8.0
1,500	---	---	---	31	328	2.9	29	272	4.8	30	265	5.2	27	360	1.3	23	278	9.7	31	146	0.9	29	265	3.2	30	194	1.0	31	63	1.1	26	24	3.3	26	267	3.3	26	282	10.2
2,000	31	224	0.8	31	308	2.7	27	295	6.8	29	264	6.6	24	343	2.2	21	286	11.2	31	202	1.6	26	274	4.1	29	180	2.0	30	299	0.3	25	29	3.2	25	278	4.1	20	284	11.0
2,500	31	206	1.8	31	280	2.5	27	296	7.9	25	271	9.1	23	339	2.3	17	289	13.6	31	214	2.4	25	279	3.8	24	171	1.5	27	186	0.4	21	354	2.1	23	286	5.1	15	280	11.9
3,000	31	202	2.5	31	258	3.2	27	295	8.9	22	277	10.4	22	309	2.7	15	296	14.1	28	223	3.1	24	283	4.8	22	102	0.2	26	169	0.7	21	313	2.1	23	285	6.3	13	276	13.6
4,000	27	240	3.3	27	245	5.5	25	291	11.2	16	282	11.6	22	273	3.1	---	---	---	27	233	3.8	21	300	6.6	20	90	1.0	20	255	3.8	15	289	3.1	22	300	9.2	---	---	---
5,000	21	243	4.8	25	267	5.5	24	288	13.7	11	279	13.6	20	285	4.5	---	---	---	24	245	5.6	21	292	9.7	17	80	0.7	13	255	7.6	11	276	5.5	18	297	10.4	---	---	---
6,000	19	255	3.5	21	281	7.9	24	289	13.7	---	---	---	17	268	7.2	---	---	---	22	247	6.0	19	305	12.2	14	100	0.5	11	260	6.4	10	287	6.6	17	301	12.5	---	---	---
8,000	16	240	6.0	10	254	5.2	17	287	12.0	---	---	---	15	264	10.9	---	---	---	21	251	11.5	14	296	13.3	---	---	---	---	---	---	---	---	---	15	303	14.3	---	---	---
10,000	13	320	5.0	---	---	---	13	273	14.7	---	---	---	11	292	12.8	---	---	---	15	274	13.4	11	299	20.0	---	---	---	---	---	---	---	---	---	12	315	12.9	---	---	---
12,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	10	265	17.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Altitude (meters) m. s. l.	Oakland, Calif. (8 m.)			Oklahoma City, Okla. (396 m.)			Omaha, Nebr. (306 m.)			Phoenix, Ariz. (338 m.)			Rapid City, S. Dak. (982 m.)			St. Louis, Mo. (181 m.)			St. Paul, Minn. (225 m.)			San Antonio, Tex. (240 m.)			San Diego, Calif. (15 m.)			Sault St. Marie, Mich. (225 m.)			Seattle, Wash. (116 m.)			Spokane, Wash. (603 m.)			Washington, D. C. (24 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	29	283	3.3	29	195	3.0	31	213	2.3	31	181	0.6	31	343	4.5	31	247	1.1	31	237	2.8	29	118	1.3	30	283	4.2	29	281	3.4	27	248	1.9	30	223	1.4	28	255	2.4
500	27	284	1.9	29	193	3.1	31	209	3.0	31	173	0.8	---	---	---	31	232	2.1	31	270	3.4	29	114	1.3	30	297	3.1	29	278	4.3	27	235	1.8	---	---	---	28	261	4.7
1,000	25	143	0.2	28	200	3.2	31	239	4.1	31	155	1.4	31	343	4.6	30	245	3.3	30	266	5.0	29	118	1.4	24	225	0.8	27	277	6.2	22	247	2.1	30	223	3.4	26	267	6.6
1,500	24	152	1.1	26	223	4.2	28	269	5.5	31	134	0.9	31	323	5.3	29	268	5.7	28	276	6.6	28	183	1.1	22	162	2.0	18	272	7.4	19	242	2.2	30	239	4.4	26	279	8.0
2,000	23	185	0.5	25	241	5.3	27	276	7.6	30	169	1.2	31	301	5.6	28	278	8.0	26	287	9.2	25	248	2.1	22	166	2.6	16	280	8.5	18	237	3.8	27	250	5.3	25	288	9.9
2,500	23	179	1.2	25	256	6.5	26	291	10.0	30	188	1.5	30	293	6.9	27	284	11.3	26	288	10.7	22	276	2.8	20	187	3.1	13	282	11.7	15	246	4.0	24	256	6.9	24	293	10.7
3,000	23	173	2.4	25	263	7.1	25	296	10.8	30	207	2.2	27	293	9.4	26	281	11.8	24	289	12.9	21	281	4.3	20	211	3.9	12	283	14.7	11	290	2.4	19	268	6.2	24	291	12.0
4,000	20	221	3.1	23	284	7.6	24	301	14.4	29	232	4.4	21	290	11.4	21	287	15.7	23	288	16.3	19	271	5.3	16	231	7.1	10	291	18.2	10	291	4.4	17	271	7.0	23	288	13.5
5,000	18	220	4.3	21	294	8.5	19	288	16.8	25	245	7.0	20	295	12.4	19	291	15.3	19	290	16.8	15	269	6.8	16	244	10.1	---	---	---	---	---	---	17	290	7.3	22	292	14.5
6,000	16	222	4.3	21	293	9.3	16	285	15.4	21	247	11.0	20	290	12.4	16	290	15.5	17	293	17.4	12	277	6.5	14	260	11.6	---	---	---	---	---	---	17	285	9.1	18	285	14.6
8,000	10	276	7.1	14	290	10.8	---	---	---	16	252	14.8	16	305	11.4	13	289	16.4	13	300	18.7	---	---	---	---	---	---	---	---	---	---	---	---	11	305	10.5	11	284	11.2
10,000	---	---	---	---	---	---	---	---	---	13	254	20.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12,000	---	---	---	---	---	---	---	---	---	10	266	26.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 3.—*Maximum free-air wind velocities (m. p. s.) for different sections of the United States based on pilot balloon observations during October 1945*

Section	Surface to 2,500 meters (m. s. l.)					Above 2,500 to 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)				
	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m.s.l.	Date	Station
Northeast [1]	44.8	SW.	992	31	Toledo, Ohio	45.8	NNW.	4,636	16	Philipsburg, Pa	70.8	SW.	8,757	9	Portland, Maine.
East-Central [2]	39.8	WNW.	2,492	27	Elkins, W. Va	54.0	WNW.	4,699	26	Lynchburg, Va	74.4	W.	13,434	11	Richmond, Va.
Southeast [3]	28.0	WSW.	2,471	23	Charleston, S. C	26.0	SW.	4,687	16	Miami, Fla	45.0	W.	9,301	10	Charleston, S. C.
North-Central [4]	38.3	WSW.	1,387	30	Milwaukee, Wis	44.0	W.	4,782	20	Alpena, Mich	72.4	NW.	6,907	11	International Falls, Minn.
Central [5]	41.0	WSW.	2,485	27	Kansas City, Mo	46.5	NW.	4,436	8	Omaha, Nebr	61.0	W.	9,843	2	Goodland, Kans.
South-Central [6]	36.5	NNE.	818	22	Tulsa, Okla	29.2	WNW.	4,027	14	Dallas, Tex	65.1	W.	11,781	23	Big Spring, Tex.
Northwest [7]	41.0	W.	2,297	19	Havre, Mont	45.4	W.	3,586	25	Butte, Mont	72.8	WNW.	8,295	21	Glasgow, Mont.
West-Central [8]	39.6	WNW.	2,489	25	Cheyenne, Wyo	38.5	NW.	5,000	18	Sheridan, Wyo	68.4	WSW.	15,902	3	Denver, Colo.
Southwest [9]	37.9	SW.	2,500	29	Santa Maria, Calif	38.0	SW.	2,503	29	Santa Maria, Calif	62.0	WSW.	13,542	1	Raton, N. Mex.

[1] Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, and northern Ohio.
[2] Delaware, Maryland, Virginia, West Virginia, southern Ohio, Kentucky, eastern Tennessee, and North Carolina.
[3] South Carolina, Georgia, Florida, and Alabama.
[4] Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.
[5] Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.
[6] Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western Tennessee.
[7] Montana, Idaho, Washington, and Oregon.
[8] Wyoming, Colorado, Utah, northern Nevada, and northern California.
[9] Southern California, southern Nevada, Arizona, New Mexico, and extreme west Texas.