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METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR JUNE 1945

AEROLOGICAL OBSERVATIONS

TABLE 1.—*Mean free-air barometric pressure in millibars, temperature in degrees centigrade, and relative humidities in percent, obtained by radiosondes during June 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.)				Bismark, 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	30	1,003	16.3	83	28	834	25.2	16	30	1,016	25.8	83	30	982	23.2	75	30	922	27.0	40	29	952	15.1	71	29	913	18.5	49
500	30	956	15.8	73					30	960	23.6	73	30	960	24.1	63												
1,000	30	901	13.1	70					30	907	21.4	60	30	906	21.7	60	30	898	26.3	38	29	898	13.4	64	29	899	18.3	42
1,500	30	849	10.2	67					30	855	18.5	55	30	855	18.4	60	30	849	23.8	35	29	846	10.0	69	29	848	14.8	43
2,000	30	799	7.3	67	28	798	23.2	17	30	806	15.3	53	30	806	14.9	58	30	801	20.4	33	29	796	6.7	72	29	798	10.9	47
2,500	30	752	4.4	65	28	753	19.1	19	30	760	12.2	48	30	760	11.4	57	30	756	16.6	35	29	749	3.6	73	29	752	6.8	52
3,000	30	706	1.8	66	28	710	14.8	22	30	716	8.9	47	30	715	8.2	51	30	712	12.8	34	29	704	0.7	71	29	707	2.7	57
4,000	30	624	−3.6	56	28	629	5.7	31	30	634	2.8	45	30	634	2.3	45	30	631	4.9	35	29	621	−4.9	69	29	624	−3.8	55
5,000	30	549	−9.1	51	28	556	−3.2	43	29	560	−2.7	38	28	559	−3.9	43	30	557	−3.0	39	28	546	−11.2	63	28	549	−10.1	49
6,000	28	481	−15.1		28	489	−11.4	53	28	492	−8.3	37	28	491	−9.6	32	29	490	−9.8		27	479	−17.7	59	27	481	−17.1	55
7,000	28	421	−21.8		28	429	−18.3	39	27	432	−14.6		28	432	−16.3		29	430	−16.3		27	418	−25.1	53	26	421	−24.5	57
8,000	28	367	−28.8		28	374	−25.5		27	378	−21.4		28	377	−23.4		29	376	−23.5		27	363	−32.9		26	366	−31.9	
9,000	28	318	−35.7		28	325	−33.1		27	329	−28.7		28	328	−30.8		28	327	−31.0		27	315	−40.5		25	317	−39.2	
10,000	28	275	−42.4		28	282	−40.5		27	286	−36.3		28	284	−38.0		27	284	−38.1		26	271	−47.4		24	274	−46.2	
11,000	28	237	−48.7		28	242	−47.9		26	247	−44.1		28	245	−45.4		27	245	−45.3		26	233	−52.9		24	235	−52.4	
12,000	28	203	−54.3		25	208	−53.7		26	212	−51.5		27	211	−52.5		27	210	−52.2		26	199	−54.0		19	202	−55.5	
13,000	28	173	−58.5		24	177	−58.4		26	181	−58.4		26	180	−58.7		27	180	−58.4		26	170	−54.2		16	172	−57.5	
14,000	26	148	−60.3		21	152	−61.5		24	154	−63.8		21	154	−62.3		25	153	−62.3		24	146	−55.2		13	147	−58.3	
15,000	18	125	−60.0		13	129	−63.2		20	131	−67.0		18	130	−65.7		18	130	−65.2		20	125	−55.2		9	126	−58.4	
16,000	11	107	−60.9		7	110	−65.2		12	111	−69.8		13	111	−67.5		12	111	−68.0		15	107	−55.2		5	108	−57.2	
17,000	7	91	−60.9						5	94	−72.2		8	93	−67.7		7	93	−69.4		10	92	−55.9					
18,000	5	78	−60.8														6	79	−67.8		6	78	−55.3					

Altitude (meters) m. s. l.	Brownsville, Tex. (6 m.)				Buffalo, N. Y. (221 m.)				Caribou, Maine (193 m.)				Charleston, S. C. (14 m.)				Clovis, N. Mex. (1,306 m.)				Denver, Colo. (1,616 m.)				Dodge City, Kans. (787 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	30	1,010	26.9	87	28	989	15.5	82	28	990	12.6	81	29	1,014	23.4	90	22	867	23.2	34	30	836	15.7	60	30	921	18.2	72
500	30	955	23.8	83	28	957	15.5	75	28	954	12.4	74	29	960	23.7	70												
1,000	30	902	22.7	61	28	902	13.0	70	28	899	10.2	74	29	907	21.5	64									30	899	18.6	64
1,500	30	852	20.3	51	28	850	10.6	69	28	846	7.1	76	29	856	18.7	63	22	848	23.4	32					30	848	17.1	57
2,000	30	803	17.7	45	28	800	7.6	66	28	796	4.6	75	29	807	15.5	63	22	800	20.5	32	30	798	14.1	53	29	799	15.1	52
2,500	30	757	14.9	40	28	752	4.8	64	28	749	1.7	73	29	761	12.4	61	22	755	16.9	32	30	752	10.9	54	29	753	12.4	47
3,000	30	713	11.6	38	28	707	2.0	63	28	704	−1.0	69	29	716	9.4	54	22	712	12.9	32	30	708	7.5	56	29	709	9.2	42
4,000	30	632	5.4	31	27	625	−3.1	44	28	620	−6.2	64	28	634	3.6	41	22	631	4.9	35	30	626	1.0	58	29	628	2.5	34
5,000	30	558	−1.2	32	27	550	−9.0	46	27	544	−12.4	52	26	560	−2.4	45	22	557	−3.2	38	30	552	−6.8	65	29	554	−4.8	41
6,000	30	492	−7.5		27	482	−15.1		27	477	−18.4	51	26	493	−8.5	43	22	490	−10.6		29	485	−14.0	70	29	487	−11.9	43
7,000	30	432	−14.1		26	422	−22.0		26	416	−25.2	57	23	433	−15.0		22	430	−17.6		29	425	−21.1	51	28	426	−19.2	
8,000	30	378	−21.3		24	367	−29.1		26	362	−32.4		23	379	−22.5		22	375	−25.1		29	370	−28.5		28	372	−26.5	
9,000	30	329	−28.4		22	319	−35.2		26	314	−39.6		23	330	−29.5		22	326	−32.7		28	321	−36.5		28	323	−34.2	
10,000	30	286	−35.8		21	275	−42.7		24	270	−46.0		23	286	−37.0		22	282	−40.1		26	277	−44.5		27	279	−42.3	
11,000	30	247	−43.3		18	236	−49.5		23	232	−50.6		22	247	−44.9		22	243	−47.4		24	238	−51.4		27	240	−50.0	
12,000	30	212	−50.8		16	203	−54.2		22	198	−53.7		22	212	−52.6		22	209	−54.2		23	204	−56.0		26	206	−55.5	
13,000	30	182	−57.7		12	174	−58.0		19	170	−55.5		22	181	−59.2		22	178	−59.7		20	174	−57.4		25	176	−59.3	
14,000	29	155	−63.6		10	149	−60.5		17	145	−55.7		20	155	−63.6		21	152	−62.2		17	148	−59.1		22	149	−61.1	
15,000	18	132	−68.8		9	126	−59.3		12	123	−54.2		13	130	−66.4		16	129	−64.3		15	127	−60.7		18	127	−62.7	
16,000	9	111	−74.0		8	107	−59.4		8	105	−54.6		7	110	−68.2		9	109	−64.0		9	108	−61.7		10	108	−62.3	
17,000					7	92	−60.7														6	92	−61.6		6	92	−61.1	
18,000					5	78	−58.1																		5	78	−61.3	

Altitude (meters) m. s. l.	El Paso, Tex. (1,195 m.)				Ely, Nev. (1,908 m.)				Glasgow, Mont. (648 m.)				Grand Junction, Colo. (1,414 m.)				Great Falls, Mont. (1,128 m.)				Greensboro, N. C. (273 m.)				Hatteras, N. C. (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	30	877	28.6	18	30	808	14.1	52	28	936	15.4	66	30	854	20.8	34	30	885	13.8	65	30	984	21.0	78	28	1,016	22.8	87
500																					30	959	21.9	67	28	959	21.5	69
1,000									28	898	14.2	61									30	906	19.5	64	28	905	19.1	65
1,500	30	848	27.4	18					28	846	10.2	66	30	846	20.8	32	30	847	12.0	59	30	854	16.2	65	28	854	15.9	68
2,000	30	800	23.4	18	30	800	14.2	47	28	796	6.7	72	30	798	17.8	29	30	797	8.4	61	30	805	12.6	67	28	805	12.8	63
2,500	30	756	19.0	20	30	754	11.1	43	28	749	3.4	75	30	752	13.9	31	30	750	4.7	65	30	758	9.1	64	27	759	10.1	51
3,000	30	712	14.5	23	30	709	7.0	48	28	704	0.1	77	30	708	9.6	36	30	705	1.0	70	30	714	6.3	51	27	714	7.2	52
4,000	30	632	5.8	30	30	627	−0.8	54	28	620	−6.0	72	30	627	0.5	46	30	622	−6.0	77	29	631	0.8	44	27	632	1.3	46
5,000	30	558	−1.9	34	30	552	−7.6	56	28	545	−12.1	67	30	552	−7.2	55	30	546	−12.1	74	29	557	−5.0	40	27	557	−4.8	46
6,000	30	491	−9.2		30	485	−14.3	48	27	478	−18.5	56	30	485	−14.6	59	30	479	−18.5	68	28	490	−11.4	38	27	490	−11.0	43
7,000	30	431	−16.2		30	424	−21.2		26	418	−25.8	60	30	424	−21.4	48	30	418	−26.3		28	429	−18.4		27	430	−17.2	44
8,000	30	377	−23.5		30	370	−28.9		25	363	−33.2	59	29	370	−28.9		30	363	−33.8		28	374	−25.6		27	376	−24.2	
9,000	30	328	−31.0		29	321	−36.5		25	314	−40.8		29	321	−36.8		29	314	−40.9		28	326	−32.7		26	326	−31.8	
10,000	30	284	−38.6		28	277	−44.1		24	271	−47.9		29	277	−44.7		28	271	−47.8		27	282	−40.0		26	283	−39.2	
11,000	29	245	−45.9		26	238	−50.6		21	232	−52.6		25	238	−51.2		27	233	−52.7		25	243	−47.3		26	244	−46.8	
12,000	29	210	−52.5		25	204	−55.3		21	199	−53.9		24	204	−55.9		23	200	−54.4		25	209	−54.5		26	209	−53.5	
13,000	28	180	−58.0		23	174	−57.5		19	170	−53.3		18	174	−58.8		20	171	−55.6		24	178	−60.8		25	178	−59.2	
14,000	24	153	−62.0		21	149	−58.6		16	145	−53.7		13	148	−58.4		17	146	−55.7		20	151	−64.6		25	152	−63.6	
15,000	18	130	−64.1		18	127	−59.7		14	124	−53.5		10	126	−58.4		9	125	−55.4		15	128	−66.7		15	129	−65.8	
16,000	12	110	−66.4		11	108	−60.1		10	106	−54.4		6	107	−59.0		6	107	−56.2		8	108	−67.6		9	110	−66.2	
17,000					6	92	−59.8		6	90	−54.5														7	93	−66.1	
18,000					5	79	−59.6																					

See footnotes at end of tables.

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

Altitude (meters) m. s. l.	Havana, Cuba (51 m.)				Huntington, W. Va. (172 m.)				International Falls, Minn. (343 m.)				Jackson, Miss. (97 m.)				Joliet, Ill. (178 m.)				Lake Charles, La. (5 m.)				Little Rock, Ark. (79 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	----	----	----	----	28	996	18.7	89	30	972	13.7	72	30	1,002	24.3	81	30	992	16.6	80	30	1,013	25.4	87	29	1,003	24.0	80
500	----	----	----	----	28	959	20.3	77	30	955	13.7	66	30	957	24.4	70	30	956	17.0	73	30	958	23.1	78	29	956	23.2	71
1,000	----	----	----	----	28	904	17.5	74	30	900	10.9	64	30	904	21.3	71	30	901	14.6	70	30	905	20.6	70	29	903	20.1	70
1,500	----	----	----	----	28	853	14.2	74	30	847	7.5	66	30	854	18.0	68	30	849	11.5	71	30	854	18.2	61	29	852	16.9	71
2,000	----	----	----	----	28	803	11.5	71	30	796	3.9	70	30	805	15.5	56	30	799	9.0	64	30	805	15.4	56	29	803	14.4	57
2,500	----	----	----	----	28	757	9.3	57	30	749	0.9	71	30	759	12.7	51	30	753	7.2	50	30	759	12.6	49	29	757	12.3	48
3,000	----	----	----	----	28	712	6.7	51	30	703	−1.8	66	30	715	9.5	50	30	708	4.7	49	30	714	9.8	44	29	713	9.1	49
4,000	----	----	----	----	28	630	1.1	48	30	620	−6.8	60	30	633	3.5	42	30	626	−0.7	40	30	633	4.1	34	29	631	2.6	46
5,000	----	----	----	----	28	556	−4.7	43	30	545	−12.7	57	29	558	−3.1	44	30	551	−7.0	40	30	559	−2.4	----	28	557	−4.2	47
6,000	----	----	----	----	27	488	−11.0	42	30	477	−19.1	52	29	491	−9.5	----	30	484	−13.3	----	30	492	−8.8	----	28	490	−11.0	48
7,000	----	----	----	----	27	428	−17.9	46	30	416	−25.8	----	29	432	−15.8	----	30	424	−20.1	----	30	432	−15.6	----	28	430	−17.3	38
8,000	----	----	----	----	27	374	−25.1	----	30	362	−32.9	----	28	377	−23.2	----	30	370	−27.7	----	30	378	−22.6	----	27	375	−24.2	----
9,000	----	----	----	----	27	325	−32.2	----	30	313	−40.3	----	28	328	−30.6	----	30	321	−35.0	----	30	329	−29.7	----	27	326	−32.0	----
10,000	----	----	----	----	26	282	−39.9	----	30	270	−46.9	----	28	285	−38.2	----	30	277	−42.6	----	30	285	−37.2	----	27	282	−39.5	----
11,000	----	----	----	----	26	243	−47.8	----	29	232	−52.4	----	27	246	−45.6	----	30	238	−50.0	----	30	246	−45.0	----	27	243	−46.9	----
12,000	----	----	----	----	26	208	−54.9	----	28	198	−54.1	----	26	211	−52.9	----	30	204	−55.2	----	30	211	−52.6	----	26	209	−54.0	----
13,000	----	----	----	----	25	178	−59.8	----	25	169	−54.0	----	26	180	−59.0	----	28	174	−58.3	----	28	180	−59.1	----	26	178	−59.4	----
14,000	----	----	----	----	23	151	−63.3	----	24	145	−54.1	----	22	154	−62.8	----	23	149	−59.8	----	24	154	−63.8	----	25	152	−63.2	----
15,000	----	----	----	----	17	128	−63.5	----	22	124	−54.7	----	16	131	−66.0	----	16	127	−60.0	----	20	130	−67.6	----	18	129	−65.8	----
16,000	----	----	----	----	11	110	−62.9	----	14	107	−55.2	----	10	110	−68.8	----	10	108	−61.3	----	7	111	−70.0	----	9	109	−66.0	----
17,000	----	----	----	----	8	93	−62.8	----	10	92	−55.6	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
18,000	----	----	----	----	6	80	−60.2	----	6	78	−55.7	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Altitude (meters) m. s. l.	Louisville, Ky. (165 m.)				Mazatlan, Mexico (80 m.)				Medford, Oreg. (409 m.)				Merida, Mexico (27 m.)				Miami, Fla. (4 m.)				Nashville, Tenn. (180 m.)				North Platte, Nebr. (849 m.)			
Surface	30	996	19.9	81	29	1,002	27.0	74	30	967	22.6	38	30	1,008	29.4	64	30	1,017	25.6	82	30	994	22.7	74	30	915	15.2	78
500	30	958	20.0	71	29	956	24.9	58	30	958	21.9	36	30	956	26.4	63	30	962	23.5	79	30	958	22.3	66	----	----	----	----
1,000	30	904	17.2	70	29	903	24.7	44	30	903	18.0	38	30	903	23.1	65	30	908	21.0	70	30	905	19.3	66	30	899	15.4	71
1,500	30	852	14.0	70	29	852	22.4	48	30	852	13.8	46	30	853	19.6	67	30	857	18.3	67	30	854	16.6	61	30	848	12.7	68
2,000	30	803	12.2	53	29	804	19.8	44	30	802	9.8	51	30	804	16.4	66	30	808	15.6	63	30	804	13.8	51	30	798	10.4	69
2,500	30	756	9.7	48	29	759	17.2	39	30	755	6.5	52	30	758	13.4	61	30	762	12.8	58	30	758	11.2	43	30	752	7.7	68
3,000	30	711	7.1	47	29	715	14.2	35	30	710	3.5	51	29	714	10.7	54	30	717	9.8	58	30	713	8.1	43	30	707	5.1	63
4,000	30	630	1.2	46	28	635	7.4	38	30	627	−1.9	43	29	633	5.0	44	30	635	3.8	56	30	632	2.0	44	30	625	−1.2	56
5,000	29	555	−5.3	49	27	561	0.0	40	30	552	−7.7	42	29	559	−0.7	40	29	561	−1.8	49	29	557	−4.3	47	30	550	−7.8	55
6,000	29	488	−11.6	45	27	494	−6.7	----	24	485	−14.1	42	29	493	−6.4	42	29	494	−7.5	51	29	490	−10.5	46	29	483	−14.1	51
7,000	29	428	−18.4	----	25	435	−12.5	----	23	425	−21.6	41	28	433	−12.7	----	29	434	−13.8	48	29	430	−17.1	----	29	423	−21.2	51
8,000	29	373	−25.5	----	25	381	−20.0	----	22	371	−28.5	----	28	380	−19.1	----	29	380	−20.6	49	28	375	−24.1	----	29	369	−28.9	----
9,000	29	324	−32.9	----	23	332	−27.4	----	21	322	−36.4	----	27	331	−26.8	----	28	331	−27.9	----	27	327	−31.5	----	28	320	−36.5	----
10,000	29	281	−40.3	----	23	288	−35.2	----	21	278	−44.4	----	25	288	−34.6	----	28	287	−35.4	----	26	283	−39.0	----	28	276	−44.0	----
11,000	27	242	−47.9	----	21	249	−42.8	----	20	239	−52.0	----	24	248	−42.0	----	28	248	−43.3	----	26	244	−46.5	----	27	237	−50.9	----
12,000	26	207	−54.7	----	21	214	−51.0	----	18	204	−57.6	----	24	214	−49.6	----	27	213	−51.4	----	25	209	−53.8	----	27	203	−55.1	----
13,000	23	177	−57.0	----	17	183	−58.2	----	16	174	−59.5	----	19	183	−57.0	----	26	182	−58.7	----	22	179	−59.2	----	24	174	−56.6	----
14,000	20	151	−59.2	----	7	157	−64.2	----	15	148	−58.6	----	11	156	−64.0	----	23	155	−64.6	----	20	152	−62.5	----	18	148	−57.8	----
15,000	17	128	−63.2	----	----	----	----	----	12	127	−58.7	----	----	----	----	----	14	132	−68.7	----	15	130	−65.2	----	15	126	−58.6	----
16,000	8	109	−63.0	----	----	----	----	----	6	109	−57.5	----	----	----	----	----	8	112	−71.7	----	8	110	−67.3	----	10	108	−60.1	----
17,000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	7	91	−61.5	----
18,000	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	5	78	−60.4	----

Altitude (meters) m. s. l.	Oakland, Calif. (2 m.)				Ogden, Utah (1,355 m.)				Oklahoma City, Okla. (391 m.)				Omaha, Nebr. (308 m.)				Phoenix, Ariz. (339 m.)				Pittsburgh, Pa. (382 m.)				Portland, Maine (20 m.)			
Surface	30	1,013	17.7	66	30	863	15.6	56	30	965	21.8	80	29	976	18.8	72	30	967	29.3	19	30	971	18.9	73	30	1,011	13.9	87
500	30	956	16.8	57	----	----	----	----	30	953	22.2	75	29	955	18.1	68	30	950	30.9	14	30	958	18.9	71	30	956	15.6	70
1,000	30	901	18.3	38	----	----	----	----	30	900	20.5	66	29	901	14.9	69	30	898	28.1	14	30	903	16.4	68	30	901	12.9	68
1,500	30	849	16.3	31	30	848	15.9	48	29	850	18.2	63	29	848	12.1	73	30	848	24.0	15	30	851	13.0	68	30	848	9.7	68
2,000	30	801	13.3	28	30	799	12.5	46	29	801	15.3	58	29	799	10.3	64	30	800	19.7	19	30	802	9.7	69	30	798	6.5	71
2,500	30	755	10.3	30	30	753	8.5	50	29	756	12.2	52	29	753	8.1	53	30	755	15.3	20	30	755	7.0	62	30	751	3.9	65
3,000	30	710	7.1	32	30	708	4.3	55	29	711	9.4	46	29	708	5.4	49	30	711	11.1	21	30	710	4.2	58	30	706	1.2	66
4,000	30	628	0.6	30	30	625	−2.9	60	27	630	2.9	45	28	625	−0.5	43	29	630	4.0	21	30	628	−1.1	56	30	623	−4.2	64
5,000	30	553	−6.3	29	30	550	−9.9	56	25	556	−4.6	43	28	551	−6.9	42	29	556	−2.9	----	30	553	−6.8	52	30	548	−9.8	63
6,000	30	486	−13.0	37	30	483	−16.6	45	25	489	−11.0	----	28	484	−13.4	39	28	490	−9.8	----	30	486	−12.5	43	30	481	−16.0	63
7,000	29	426	−20.1	----	30	422	−23.6	----	24	429	−18.0	----	28	424	−20.5	----	28	430	−17.0	----	29	425	−19.3	47	29	420	−22.9	56
8,000	29	371	−27.3	----	30	367	−31.0	----	23	374	−25.4	----	27	370	−27.8	----	27	375	−24.7	----	29	371	−26.1	----	29	366	−29.9	----
9,000	29	322	−35.2	----	30	318	−38.7	----	23	325	−33.0	----	27	321	−35.3	----	27	326	−32.5	----	29	322	−33.4	----	29	317	−37.4	----
10,000	28	279	−42.2	----	28	274	−46.5	----	23	282	−40.4	----	27	278	−42.6	----	26	282	−40.1	----	27	279	−40.7	----	29	274	−44.5	----
11,000	28	240	−48.8	----	28	235	−52.3	----	22	243	−48.1	----	27	239	−49.1	----	25	243	−47.0	----	27	240	−47.8	----	29	235	−50.3	----
12,000	28	206	−54.3	----	27	201	−56.1	----	20	208	−55.5	----	27	205	−54.3	----	24	209	−53.2	----	26	206	−54.0	----	28	202	−55.0	----
13,000	28	176	−57.4	----	27	172	−57.6	----	16	177	−60.8	----	26	175	−57.4	----	21	178	−58.3	----	25	176	−58.1	----	27	172	−58.4	----
14,000	27	150	−59.4	----	22	147	−58.1	----	11	150	−63.2	----	24	149	−59.1	----	19	152	−60.9	----	22	150	−60.8	----	25	147	−59.3	----
15,000	20	127	−59.8	----	13	125	−56.6	----	10	127	−64.6	----	22	127	−59.9	----	14	130	−62.9	----	17	127	−61.6	----	16	125	−58.6	----
16,000	16	108	−59.5	----	10	107	−58.3	----	6	109	−64.2	----	18	108	−60.3	----	8	110	−65.1	----	10	108	−61.3	----	9	106	−58.0	----
17,000	12	92	−59.8	----	5	91	−57.4	----	----	----	----	----	12	93	−60.5	----	6	93	−65.0	----	5	91	−60.9	----	----	----	----	----
18,000	----	----	----	----	----	----	----	----	----	----	----	----	5	78	−57.9	----	----	----	----	----	----	----	----	----	----	----	----	----

See footnotes at end of tables.

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

Altitude (meters) m. s. l.	Rapid City, S. Dak. (981 m.)				St. Louis, Mo. (171 m.)				St. Paul, Minn. (225 m.)				San Antonio, Tex. (240 m.)				San Juan, P. R. (15 m.)				Santa Maria, Calif. (71 m.)				Sault Ste. Marie, Mich. (221 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	30	901	12.8	82	30	993	20.5	78	30	986	16.2	72	30	983	26.9	72	30	1,015	26.1	84	30	1,005	13.8	84	30	988	11.1	80
500					30	956	19.3	75	30	955	15.7	64	30	954	25.5	72	30	961	22.5	81	30	956	13.6	79	30	956	13.6	63
1,000	30	899	12.8	81	30	902	16.6	74	30	900	12.4	65	30	901	22.2	73	30	907	19.2	78	30	901	17.2	47	30	901	11.7	61
1,500	30	847	11.5	69	30	850	14.3	70	30	848	9.3	67	30	851	20.0	66	30	856	16.9	65	30	850	16.8	38	30	848	8.5	64
2,000	30	797	8.4	69	30	801	12.5	58	30	798	5.7	68	30	802	17.5	51	30	806	15.3	51	30	800	13.8	37	30	798	5.7	59
2,500	30	751	5.4	71	30	755	9.9	53	30	750	3.5	56	30	757	15.2	33	30	760	12.7	43	30	754	10.7	34	30	751	3.1	62
3,000	30	706	2.4	70	30	710	7.1	50	30	705	1.4	51	30	713	12.4	25	30	716	9.7	37	30	710	7.8	29	30	705	0.6	58
4,000	30	623	−3.9	68	30	629	1.3	46	30	622	−3.8	46	30	632	6.2	25	30	634	4.1	33	29	628	1.0	31	29	623	−4.8	51
5,000	30	548	−10.1	65	30	554	−5.3	52	29	548	−9.8	47	29	559	−1.4	30	30	560	−1.7	31	29	554	−5.7		28	547	−10.7	48
6,000	30	481	−16.7	64	30	487	−12.6	49	29	480	−16.1	45	29	492	−8.1		30	493	−7.5	32	28	487	−12.2		27	480	−17.0	
7,000	30	420	−23.9	58	29	427	−18.6		29	420	−23.4		28	432	−14.7		30	434	−14.1	38	28	427	−19.4		27	419	−24.2	
8,000	30	366	−31.6	63	28	372	−26.0		28	366	−30.7		28	378	−22.1		29	379	−21.1	47	28	372	−27.2		27	365	−31.4	
9,000	29	317	−39.2		27	323	−33.8		28	317	−38.1		28	329	−29.8		29	330	−28.6		28	322	−35.0		27	316	−38.7	
10,000	28	274	−46.8		27	280	−41.4		26	273	−45.4		27	285	−37.1		28	287	−35.8		28	279	−42.4		27	273	−45.5	
11,000	27	235	−52.2		27	241	−48.5		26	235	−51.2		27	246	−44.4		28	248	−43.7		28	240	−49.3		26	234	−51.0	
12,000	26	201	−55.2		26	206	−54.5		26	201	−55.4		27	212	−51.5		27	213	−51.6		28	205	−54.9		26	201	−54.0	
13,000	24	171	−55.5		22	177	−59.3		26	171	−56.3		27	181	−57.8		26	182	−59.3		28	175	−58.5		26	172	−55.7	
14,000	20	147	−56.6		15	151	−62.3		22	147	−57.0		23	154	−62.2		23	155	−66.8		27	150	−60.7		26	147	−55.9	
15,000	15	125	−57.0		11	128	−62.3		19	125	−57.1		18	131	−66.3		19	131	−72.2		26	127	−62.8		21	125	−56.3	
16,000	10	107	−57.1		7	109	−62.2		13	106	−56.8		17	111	−69.3		10	110	−74.8		19	108	−63.6		17	107	−56.3	
17,000	5	92	−57.7						6	91	−56.6		7	93	−69.8						13	92	−63.5		12	91	−56.0	
18,000									6	77	−56.4										5	77	−62.0		10	78	−56.0	
19,000									6	66	−56.0														8	67	−56.1	
20,000																									6	57	−54.8	
21,000																									6	49	−53.8	
22,000																									5	42	−53.3	

Altitude (meters) m. s. l.	Spokane, Wash. (598 m.)				Swan Island, W. I.[1] (10 m.)				Tacubaya, Mexico (2,306 m.)				Tampa, Fla. (3 m.)				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	Number of observations	Pressure	Temperature	Relative humidity
Surface	30	943	18.8	53					30	774	17.7	62	30	1,016	25.8	82	30	1,016	11.5	87	30	992	17.0	82	30	1,012	21.5	75
500													30	961	23.5	76	30	961	9.4	77	30	957	17.0	72	30	959	20.0	65
1,000	30	900	16.2	44									30	908	21.0	70	30	904	7.5	70	30	902	14.5	71	30	904	17.3	63
1,500	30	848	12.1	47									30	856	18.1	67	30	850	5.6	63	30	850	11.5	74	30	852	14.1	64
2,000	30	798	7.8	53									30	807	14.9	63	30	800	3.8	49	30	800	8.6	68	30	803	10.7	61
2,500	30	751	3.6	57					30	756	16.3	61	30	761	12.0	56	30	752	1.2	41	30	754	5.9	64	30	756	7.6	62
3,000	30	706	−0.2	58					30	713	12.6	64	30	716	9.0	52	30	707	−1.5	36	30	708	3.7	56	30	711	4.8	54
4,000	30	622	−6.6	61					30	632	5.2	71	29	634	2.9	49	30	622	−7.3	41	30	626	−1.4	54	30	629	−0.6	51
5,000	30	547	−12.8	54					30	558	−1.4	79	28	560	−2.8	42	30	547	−13.4	48	29	552	−7.3	53	29	554	−6.3	53
6,000	29	479	−18.9	46					29	492	−7.2	66	27	493	−8.4	42	30	479	−19.8	52	29	484	−13.5	51	28	487	−12.2	52
7,000	29	419	−25.7	52					28	432	−12.5	63	27	433	−14.8		30	418	−26.3		29	424	−20.0		28	427	−18.6	
8,000	29	364	−33.0						28	378	−19.0		25	378	−21.9		29	363	−33.3		29	370	−27.0		28	373	−25.7	
9,000	29	315	−40.2						26	330	−26.2		23	329	−29.0		28	314	−40.2		29	321	−34.4		28	324	−33.1	
10,000	25	272	−46.5						24	287	−33.6		23	286	−36.6		27	271	−46.7		28	278	−41.5		25	281	−40.6	
11,000	24	234	−52.6						23	248	−41.5		21	246	−44.9		26	233	−51.5		27	240	−48.4		24	242	−47.8	
12,000	23	200	−55.3						18	214	−49.3		20	212	−52.6		25	199	−54.3		26	206	−54.0		24	207	−54.6	
13,000	19	170	−56.0						11	183	−57.4		17	181	−60.1		24	170	−54.3		25	176	−58.2		22	177	−60.4	
14,000	16	146	−55.6										15	154	−65.6		24	145	−53.8		21	150	−59.8		20	150	−64.0	
15,000	12	125	−56.3										7	130	−70.8		18	124	−54.2		18	128	−60.8		10	128	−66.4	
16,000	9	108	−56.7										5	110	−73.9		15	106	−54.5		10	109	−61.6		7	109	−65.1	
17,000																	13	91	−54.2									
18,000																	7	78	−53.5									
19,000																	5	67	−53.4									

[1] Data not 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.

Data for Havana, Cuba, and the current data for Swan Island, West Indies, 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 June 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.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	158	5.3	30	232	4.6	30	257	2.8	29	289	1.8
500							30	257	3.2			
1,000	30	170	6.4				30	255	3.3			
1,500	30	179	6.3				30	260	4.1	29	307	2.4
2,000	30	197	7.1	30	230	5.0	27	266	5.0	27	301	3.5
2,500	29	207	6.5	30	225	4.7	25	272	5.9	25	290	5.2
3,000	25	220	6.7	30	224	5.5	20	265	6.0	20	279	7.6
4,000	24	229	6.3	30	246	6.6	10	271	7.1	17	275	10.9
5,000	23	260	6.7	29	256	9.8				10	261	12.0
6,000	17	268	8.5	26	262	12.9						
8,000	15	263	11.7	21	263	14.4						
10,000	10	260	15.0	18	265	19.3						
12,000				16	263	24.9						

Altitude (meters) m. s. l.	Bismarck, N. Dak. (512 m.)			Boise, Idaho (868 m.)			Brownsville, Tex. (7 m.)			Buffalo, N. Y. (220 m.)			Burlington, Vt. (132 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	222	1.6	30	317	4.4	30	133	7.6	29	254	2.7	30	291	1.4
500							30	144	9.3	29	254	4.2	30	295	1.4
1,000	29	250	3.0	30	310	4.7	27	153	7.9	29	253	4.9	30	281	3.3
1,500	26	251	2.8	30	312	5.1	21	158	6.5	27	271	5.7	29	292	5.1
2,000	24	264	3.4	30	306	5.3	20	163	4.7	24	269	6.4	23	300	6.7
2,500	20	261	5.1	29	303	5.0	19	162	4.0	21	280	8.2	20	305	8.1
3,000	16	270	6.4	26	298	5.4	18	166	2.4	20	272	8.8	16	305	10.5
4,000	13	273	9.5	22	282	7.4	18	149	1.1	16	285	10.8	12	309	14.0
5,000				19	279	8.6	17	202	1.0	13	283	12.9			
6,000				17	290	8.8	15	293	1.1	11	288	16.3			
8,000							10	294	5.6						
10,000															
12,000															

Altitude (meters) m. s. l.	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
Surface	29	195	1.7	30	191	1.1	29	72	2.0	29	233	3.7
500	29	197	4.1	30	233	2.4						
1,000	29	227	3.8	30	241	4.2						
1,500	28	252	3.1	28	246	6.4				29	224	3.2
2,000	27	269	4.9	24	249	7.8	29	65	2.4	29	231	3.5
2,500	26	272	6.3	21	251	9.0	29	78	1.4	29	229	4.1
3,000	26	277	6.9	18	264	10.0	28	230	1.0	29	235	6.0
4,000	23	273	6.3	11	272	9.4	25	263	6.0	28	243	8.9
5,000	16	262	5.6				22	264	10.3	25	250	9.1
6,000	11	247	2.4				18	266	12.0	20	253	10.3
8,000							13	272	15.9	12	259	13.4
10,000												
12,000												

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.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	316	1.7	29	292	1.7	28	229	2.1	26	278	2.1
500							28	246	2.8			
1,000							28	250	3.5	26	277	3.1
1,500				29	298	2.8	27	248	3.9	26	280	3.6
2,000	30	321	1.7	29	286	4.2	25	260	5.3	24	285	4.5
2,500	30	289	2.4	29	259	5.6	22	266	5.6	17	281	7.2
3,000	30	273	3.0	29	243	6.9	20	267	6.9	13	281	8.0
4,000	26	273	4.3	28	236	8.4	16	271	11.5			
5,000	21	285	8.7	21	250	8.6	13	276	2.2			
6,000	20	292	12.7	13	250	12.9	11	262	11.6			
8,000	16	282	18.3									
10,000	13	290	18.2									
12,000												

Altitude (meters) m. s. l.	Jacksonville, Fla. (16 m.)			Joliet, Ill. (178 m.)			Las Vegas, Nev. (573 m.)			Little Rock, Ark. (88 m.)			Medford, Oreg. (410 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	29	120	3.2	30	223	2.0	30	192	0.9	30	179	2.3	30	314	2.6
500	29	151	3.1	30	235	2.3				30	182	3.9	30	318	2.9
1,000	28	186	2.0	27	214	3.2	30	177	1.6	29	203	3.9	30	325	3.1
1,500	28	240	2.4	24	220	4.9	30	195	2.0	27	217	5.5	30	323	2.6
2,000	28	258	3.3	21	240	6.5	30	212	2.8	18	248	5.9	29	328	1.8
2,500	25	270	4.0	16	254	5.8	30	232	3.2	17	254	6.7	26	325	1.7
3,000	23	271	4.0	12	251	8.2	30	250	3.5	15	253	8.2	25	331	2.9
4,000	18	243	2.6				30	262	4.8	12	257	10.5	24	327	5.0
5,000	13	268	2.6				27	269	7.4	10	257	8.9	22	319	9.4
6,000	13	281	2.0				27	272	9.6				20	312	10.5
8,000							21	287	13.4				14	306	11.5
10,000							18	285	18.6						
12,000							12	287	23.7						

Altitude (meters) m. s. l.	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
Surface	30	135	4.2	28	208	2.7	30	248	1.7	30	196	7.3
500	30	151	5.2	28	204	3.4	30	232	3.0	29	261	2.6
1,000	30	153	3.6	25	217	2.6	29	239	4.5	28	276	4.8
1,500	29	146	2.1	20	270	1.2	29	238	6.1	27	284	6.4
2,000	26	132	1.2	15	290	1.4	28	254	7.5	23	290	8.9
2,500	25	136	1.7	12	320	1.0	27	253	8.5	21	294	10.0
3,000	25	148	1.6	11	283	0.8	24	245	8.5	14	308	6.5
4,000	21	188	2.1				20	243	10.1			
5,000	18	119	1.1				14	251	9.2			
6,000	16	148	1.4				11	255	7.8			
8,000	13	172	1.1									
10,000												
12,000												

Altitude (meters) m. s. l.	Oakland, Calif. (8 m.)			Oklahoma City, Okla. (396 m.)			Omaha, Nebr. (306 m.)			Phoenix, Ariz. (338 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	30	274	5.5	28	168	4.4	29	276	1.2	30	261	1.3
500	30	289	4.5	28	173	4.9	29	257	1.2	30	265	2.3
1,000	29	317	2.7	28	180	5.8	27	277	1.3	30	259	2.9
1,500	29	333	3.0	26	204	7.6	21	223	3.3	30	240	3.3
2,000	29	336	3.1	24	226	8.6	20	246	4.7	30	228	3.9
2,500	28	344	3.2	22	232	8.6	20	251	6.1	30	218	4.6
3,000	28	340	3.2	17	249	8.0	17	254	7.4	30	223	5.3
4,000	27	320	4.9	14	268	10.4	14	253	10.4	30	240	6.8
5,000	25	311	6.1	11	258	15.9	12	240	12.0	30	243	8.2
6,000	24	307	6.9	10	262	17.6	10	252	10.5	29	255	11.2
8,000	22	308	11.1							25	261	13.8
10,000	17	313	12.8							18	279	19.1
12,000	12	284	12.7									

Altitude (meters) m. s. l.	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.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface	27	347	0.6	29	146	1.2	29	241	1.5	30	144	3.4	29	248	4.2
500				29	186	2.1	29	216	0.8	30	147	4.8	29	255	2.7
1,000	27	349	0.7	27	214	4.6	28	225	2.7	30	153	4.6	23	200	0.7
1,500	27	303	1.0	24	225	6.4	26	252	3.9	29	164	4.0	20	259	0.9
2,000	22	217	2.0	20	247	7.7	24	241	4.6	25	179	4.4	19	279	1.3
2,500	17	278	5.1	17	258	8.6	16	280	4.3	22	193	4.4	18	288	1.5
3,000	12	270	8.2	13	253	8.7	14	273	6.0	17	201	3.5	18	293	1.5
4,000							12	278	9.0	14	282	1.4	14	304	3.6
5,000										10	320	1.6	13	295	6.4
6,000													12	291	9.6
8,000													10	270	16.3
10,000															
12,000															

Altitude (meters) m. s. l.	Saulte Ste. 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
Surface	29	288	2.7	30	258	1.9	28	228	2.8	30	239	2.2
500	29	292	3.2	30	257	1.7				30	234	3.3
1,000	28	287	2.7	29	262	2.2	28	243	3.9	30	244	4.2
1,500	24	290	2.3	27	258	1.5	28	244	4.2	29	268	5.4
2,000	24	286	2.2	19	263	1.3	28	253	4.1	28	277	7.6
2,500	22	282	3.6	17	279	2.6	25	259	4.4	28	278	9.2
3,000	21	276	5.2	14	294	3.7	14	255	5.4	24	276	11.1
4,000	18	278	8.2	14	288	6.6	12	259	7.8	20	284	13.5
5,000	15	286	9.8	11	284	8.8				17	295	10.2
6,000	14	288	11.7							16	292	10.9
8,000	11	286	17.5									
10,000												
12,000												

TABLE 3.—*Maximum free-air wind velocities (m. p. s.) for different sections of the United States based on pilot balloon observations during June 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]	34.6	NW.	2,265	1	Boston, Mass.	44.8	NW.	5,000	1	Boston, Mass.	72.0	WNW.	6,850	1	Boston, Mass.
East-Central [2]	38.8	SW.	2,161	18	Greensboro, N. C.	47.0	WSW.	3,829	3	Raleigh, N. C.	57.6	W.	14,769	23	Raleigh, N. C.
Southeast [3]	31.0	W.	1,242	3	Spartanburg, S. C.	32.9	SW.	2,862	6	Spartanburg, S. C.	36.0	SW.	11,552	20	Spartanburg, S. C.
North-Central [4]	34.1	W.	1,928	29	Huron, S. Dak.	34.8	WSW.	3,912	14	Marquette, Mich.	53.5	N.	11,583	20	Fargo, N. Dak.
Central [5]	49.2	SSW.	1,790	27	Dodge City, Kans.	40.0	SW.	2,761	26	Omaha, Nebr.	52.5	W.	10,118	26	Goodland, Kans.
South-Central [6]	44.1	SSW.	1,746	1	Oklahoma City, Okla.	32.0	WSW.	3,413	1	Memphis, Tenn.	44.0	SW.	9,681	1	Oklahoma City, Okla.
Northwest [7]	36.6	WNW.	1,701	26	Ellensburg, Wash.	42.3	W.	4,306	12	Butte, Mont.	66.0	W.	9,536	11	Ellensburg, Wash.
West-Central [8]	31.6	W.	2,500	27	Rock Springs, Wyo.	52.0	N.	4,023	27	Grand Junction, Colo.	64.4	W.	7,935	14	Ely, Nev.
Southwest [9]	29.3	NNW.	2,200	13	Sandberg, Calif.	40.7	WSW.	3,564	8	Winslow, Ariz.	60.0	SW.	14,455	27	Tucson, Ariz.

[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.

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LATE REPORTS FOR SWAN ISLAND, WEST INDIES

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

STATIONS AND ELEVATIONS IN METERS ABOVE SEA LEVEL

Altitude (meters) m. s. l.	March 1945				May 1945			
	Swan Island, West Indies (10 m.)				Swan Island, West Indies (10 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	1,015	24.9	79	31	1,012	26.0	82
500	31	960	21.3	81	31	958	22.2	82
1,000	31	906	18.5	70	31	904	19.7	68
1,500	31	854	15.4	67	31	852	16.9	62
2,000	31	805	13.1	53	31	803	14.2	57
2,500	31	759	11.3	39	31	757	11.6	47
3,000	31	714	9.8	21	31	712	9.0	46
4,000	31	633	5.0	------	31	632	3.8	39
5,000	31	559	−1.2	------	29	557	−2.2	42
6,000	31	492	−7.6	------	29	491	−8.2	42
7,000	31	433	−14.7	------	29	431	−14.6	43
8,000	31	378	−21.6	------	28	377	−21.3	------
9,000	31	329	−28.9	------	28	329	−28.6	------
10,000	31	286	−36.2	------	28	285	−36.4	------
11,000	31	247	−43.6	------	28	246	−44.8	------
12,000	31	213	−50.9	------	28	211	−53.1	------
13,000	31	182	−57.5	------	28	180	−61.1	------
14,000	29	155	−63.2	------	26	153	−68.2	------
15,000	28	131	−68.2	------	14	129	−72.2	------
16,000	18	111	−72.7	------	5	109	−75.7	------
17,000	7	94	−75.1	------	------	------	------	------

REVISED DATA FOR ELY, NEV.

Raob data for Ely, Nev., for the months of March and April 1945, published in the Monthly Weather Review, were affected in the upper levels by a drift in the calibration of the radiosonde recorder. These data have accordingly been recomputed, and the revised data are shown in the following tables.

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

STATIONS AND ELEVATIONS IN METERS ABOVE SEA LEVEL

Altitude (meters) m. s. l.	March 1945 (1,908 m.)				April 1945 (1,908 m.)			
	Number of observations	Pressure	Temperature	Relative humidity	Number of observations	Pressure	Temperature	Relative humidity
Surface	31	804	−2.5	79	30	807	4.2	62
500	------	------	------	------	------	------	------	------
1,000	------	------	------	------	------	------	------	------
1,500	------	------	------	------	------	------	------	------
2,000	31	796	−1.3	72	30	798	4.4	55
2,500	31	747	−3.2	64	30	751	1.2	51
3,000	31	701	−6.9	70	30	705	−2.8	58
4,000	31	616	−12.8	59	30	620	−10.5	64
5,000	31	539	−19.4	------	30	544	−17.1	------
6,000	31	471	−27.1	------	30	475	−23.6	------
7,000	31	408	−34.8	------	30	414	−30.9	------
8,000	30	353	−41.3	------	29	358	−37.4	------
9,000	29	304	−47.6	------	27	310	−43.5	------
10,000	27	262	−52.2	------	25	267	−50.3	------
11,000	23	225	−55.3	------	24	229	−55.4	------
12,000	22	192	−56.7	------	21	195	−59.5	------
13,000	18	164	−55.9	------	17	166	−59.9	------
14,000	13	140	−55.8	------	12	141	−58.4	------
15,000	6	120	−56.3	------	6	121	−59.1	------
16,000	5	102	−58.2	------	------	------	------	------

RIVER STAGES AND FLOODS

By BENNETT SWENSON

Precipitation during June was above normal from the Appalachians westward to the Rockies except in the Southwest and the extreme North-Central States. Rainfall was excessive in the central Mississippi Valley and in the Utah-Wyoming-Colorado area, with monthly totals ranging from twice to four times the normal. It was particularly dry in the Western and Southwestern States, notably in southern New Mexico and Arizona, where the precipitation was less than 20 percent of normal. Rainfall was somewhat below normal in some Middle Atlantic and South Atlantic States, as well as in portions of the Northeast and the Lake Region.

Floods occurred over a wide area from eastern Texas northward and northeastward to the middle Missouri and the upper Mississippi River basins and to lower Michigan. A number of flash floods in widely separated areas was reported.

St. Lawrence drainage.—Early in June a two-day rainfall, totalling 4 inches in a belt from Bay City to Ludington, Mich., caused flooding in the Muskegon, Pere Marquette, and Tittabawassee Rivers. New record-high stages were observed at some points. The Tittabawassee River crested at Midland, Mich., at 21.8 feet on June 3. The highest stage of record, 23.4 feet, occurred in March 1916 at that point.

The St. Marys River at Decatur, Ind., exceeded flood stage from June 18 to 22, with a maximum stage of 16.8 feet on the 21st.

Atlantic Slope drainage.—Excessive local rains on June 18 in western Connecticut caused considerable flood damage on small tributaries of the Housatonic River near Cornwall Bridge, Conn. Another intense local storm on June 25–26 caused serious flood damage in small streams in the vicinity of Rutland, Vt.

East Gulf of Mexico drainage.—The Pearl River rose slightly above flood stage for short periods at Jackson, Miss., and Pearl River, La., during the month. The