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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

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NOTE: Late reports and corrections will be carried in the June and December issues of this publication. An explanatory page "Description of Charts" will be carried in the January and July issues.

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I certify that this is an official publication of the National Oceanic and Atmospheric Administration, and is compiled from records on file at the National Climatic Center, Asheville, North Carolina 28801.

William H. Haggard

Director, National Climatic Center

CLIMATOLOGICAL DATA

NATIONAL SUMMARY

JANUARY 1973

GENERAL SUMMARY OF WEATHER CONDITIONS

Lucius W. Dye, Climatologist

HIGHLIGHTS:

1. January averaged warmer than normal from the Pacific Northwest to New England; colder than normal elsewhere.

2. The variety of weather included snow, sleet, freezing rain, freezing drizzle, gales in the Far West, blizzards in the Great Plains, and tornadoes in the South.

TEMPERATURE--January temperatures averaged warmer than normal from the Pacific Northwest to New England. Northern Montana averaged more than 8° warmer than normal. In the central and eastern portions of the Nation the Missouri River and the Ohio River seemed to mark the boundary between the positive and negative departures. The western slope of the Central Rocky Mountains was intensely cold, averaging 6° to 12° colder than normal. In general, cold weather persisted over almost the entire Nation during the first half of January. The "January thaw" came in the third week. The last week was cold southwest of a line from Portland, Oreg., to Mobile, Ala., and mild northeast of that line.

PRECIPITATION--Stormy weather persisted over much of the Nation in the first week of January. Variable weather occurred in the second week. It included rain along the Pacific Coast early in the week, snow flurries in the Great Lakes Region, and mixtures of snow, sleet, freezing rain, and freezing drizzle over much of the South at midweek, and more rain in the Pacific Northwest with snow in the higher elevations and light to heavy rainshowers over the Deep South at midmonth. Gales accompanied heavy precipitation in the Far West in the third week of January. At midweek, snow began over the central and southern Rocky Mountains and continued through the rest of the week. Another Pacific storm brought more rain to the western coast. Freezing rain fell in the central Great Plains, and tornadoes and severe thunderstorms occurred from Texas to Arkansas and Mississippi. The last week of January was stormy along the Pacific Coast. Heavy snow fell shortly after midweek from the Pecos River to the Hill Country in Texas. Precipitation spread eastward. Snow fell in the Northeast, blizzards occurred in the Great Plains, and a few tornadoes struck central Florida.

OBSERVED EXTREMES OF TEMPERATURE AND PRECIPITATION -- BY STATES

JANUARY 1973

STATE	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
		°F			°F			In.		In.
Alabama	2 Stations	76	18+	2 Stations	9	13+	Geneva	10.95	Mobile WSO AP	1.96
Alaska	2 Stations	50	28+	Tok	-68	17+	Little Port Walter	17.99	Barrow WSO AP	.07
Arizona	Tucson Univ of Arizona	85	14	Fredonia	-20	6	Fredonia	D 3.44	2 Stations	.00
Arkansas	2 Stations	75	19+	Gravette	- 4	12	Arkansas City	7.77	Subiaco	2.75
California	3 Stations	85	14+	Bodie	-19	5	Strawberry Valley	27.24	5 Stations	.00
Colorado	2 Stations	69	15	3 Stations	-36	11+	Mesa Lakes	3.00	2 Stations	T
Connecticut	Colchester 2 W	65	18	Falls Village	-10	30	Prospect	5.85	Hartford WSO AP	3.28
Delaware	Milford 2 WSW	68	19	Wilmgton Porter Resvr	10	9	Wilmgton Porter Resvr	5.08	Newark University Farm	1.55
Florida	Canal Point USDA	89	6	Fountain 3 SSE	17	30	Chipley 3 E	8.97	Miami Bayfront Park	1.42
Georgia	Folkston 9 SW	82	4	Blairsville Exp Sta	8	14	Morgan 5 NW	13.12	Quitman 2 SW	3.10
Hawaii	Lualualei 804, Oahu	90	23	Mauna Loa Slope Obs, Hawaii	28	30	Paakea 350, Maui	17.32	Mauna Kea Obs 111.2,Hawaii	.00
Idaho	Grangeville 11 SE	60	15	Island Park Dam	-38	4	Deadwood Dam	5.56	Challis	.14
Illinois	2 Stations	66	26+	Stockton	- 6	9	Brookport Dam 52	4.25	Moweaqua	.67
Indiana	4 Stations	66	19+	2 Stations	- 2	11+	Shoals Hiway 50 Bridge	3.04	Auburn 2 SSE	1.11
Iowa	3 Stations	59	25+	Sanborn	-23	9	Ottumwa FAA AP	3.27	Cherokee	.52
Kansas	2 Stations	68	18+	4 Stations	-14	9+	Thayer	5.48	Leoti 2 S	.10
Kentucky	4 Stations	69	19+	Monticello	- 1	12+	Murray	5.77	Mount Sterling	D 1.00
Louisiana	2 Stations	78	18+	Many	13	12	Bienville 3 NE	10.66	2 Stations	2.36
Maine	2 Stations	58	20	Squa Pan Dam	-35	10+	Jonesboro	5.65	Bingham Wyman Dam	1.93
Maryland	2 Stations	69	17+	2 Stations	0	13+	Cambridge 4 W	4.23	Westernport UPRC	1.86
Massachusetts	Chester 2	68	18	Chester 2	-20	31	New Salem	5.58	Secreganset	1.15
Michigan	East Lansing 3 SE	61	18	2 Stations	-32	7	Tahquamenon Falls Park	D 3.53	Saint Charles	.39
Minnesota	Pine River Dam	57	25	Tower 3 S	-46	8	Austin 3 S	3.68	8 Stations	T
Mississippi	2 Stations	76	22+	2 Stations	11	13	Greenwood	12.40	Bay Saint Louis	2.24
Missouri	2 Stations	69	26+	Edgerton	-15	9	Bloomfield	5.71	Conception	1.08
Montana	Geraldine	68	15	2 Stations	-39	9	Troy 18 N	3.93	15 Stations	.00
Nebraska	4 Stations	66	16+	Agate 3 E	-30	9	Roca	2.86	Alma	.10
Nevada	Lathrop Wells 16 SSE	75	14	North Fork 13 N	-26	3	Mount Rose-Sky Tavern	5.68	Mina	.12
New Hampshire	2 Stations	62	18	Colebrook 2 E	-38	9	Mount Washington	11.74	Gilmanton 2 E	2.19
New Jersey	2 Stations	67	19	Newton	- 1	8	Greenwood Lake	6.53	2 Stations	2.87
New Mexico	Jal	73	19+	Eagle Nest	-19	11	Sandia Crest	3.72	Grenville	T
New York	New York Laurel Hill	67	18	Old Forge	-32	9	Hooker 4 N	6.66	Troupsburg 4 NE	.52
North Carolina	Elizabethtown Lock 2	77	22	Transou	- 8	13	Lake Toxaway 2 SW	9.21	Clayton 3 W	1.90
North Dakota	Medora	58	24	Upham 3 N	-35	9+	Forbes 9 NNW	.75	5 Stations	.00
Ohio	Ironton	69	18	Chardon	- 4	8	Clarington Lock 14	3.13	Ottawa NWR	.84
Oklahoma	2 Stations	73	15	Taloga	-11	12	Grove	5.22	Kenton	.49
Oregon	Pilot Rock 1 SE	66	16	Ukiah	-23	9+	Port Orford 5 E	19.93	Alkali Lake	.16
Pennsylvania	Waynesburg 1 E	74	1	3 Stations	- 5	11+	Long Pond 2 W	6.61	Greenville	.38
Puerto Rico & VI	San Sebastian 2 WNW, P.R.	95	26+	Adjuntas Substation, P.R.	48	15	Pico Del Este, P.R.	8.84	2 Stations	.00
Rhode Island	Providence WSO AP	64	1	North Scituate 4 W	- 2	31	Kingston	4.01	Block Island WSO AP	2.30
South Carolina	McClellanville	77	22	Longcreek 1 N	10	30	Caesars Head 1 NE	6.99	Woodruff	2.95
South Dakota	Fort Meade	70	24	2 Stations	-33	9	Wagner	1.43	3 Stations	T
Tennessee	Newport 1 NW	76	1	Mountain City No 2	- 8	13	Bolivar Wtr Wks	6.42	Rogersville 1 NE	1.40
Texas	Encinal 3 NW	90	21	Lipscomb	-10	12	Valley Junction	8.77	Bakersfield	.12
Utah	2 Stations	57	14	Soldier Creek	-41	5	Alta	4.87	Garrison	T
Vermont	Rutland	60	19	2 Stations	-35	10+	Mount Mansfield	8.17	Montpelier FAA AP	1.31
Virginia	Grundy	76	2	2 Stations	- 7	13+	Woolwine 4 S	4.12	Clinchco	.58
Washington	Walla Walla WSO CI	67	15	Mazama	-22	7	Forks 1 E	21.52	Ellensburg	.23
West Virginia	2 Stations	78	1	Canaan Valley	- 9	13	Richwood	D 4.35	Bluefield FAA AP	.84
Wisconsin	Milwaukee N Side	59	26	Drummond 6 W	-41	7	Sturgeon Bay Exp Farm	2.26	Viroqua	.34
Wyoming	2 Stations	65	15	Bondurant 3 NW	-41	5	Bondurant 3 NW	3.00	3 Stations	T

+ And also on an earlier date or dates.

NOTE: Dates in the above table apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See indivdual Climatological Data for times of observations).

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
ALABAMA																																
BIRMINGHAM	189	998.0	1021.0	10.1	- 0.5	4.8	- 3.2	20.6	18	-10.0	13	0	18	- 0.6	70	174	46	43	10	3	T	0	0.5	1	16.1	SE	21	8	3	20	7.0	43
HUNTSVILLE	190	997.6	1021.4	9.5	- 0.6	4.4	- 1.6	20.6	18	- 8.9	13	0	17	- 0.6	73	161	28	41	10	1	5	T	0.5	3	14.3	21	18	9	4	18	6.5	
MOBILE	64	1011.9	1020.1	15.6	5.0	10.3	- 1.4	22.8	3	- 5.6	13	0	7	5.6	77	50	- 68	10	12	2	T	T	1.1	2	15.6	21	21	9	2	20	6.9	
MONTGOMERY	56	1013.2	1020.8	13.6	2.2	7.9	- 1.0	23.3	18	- 6.7	13	0	12	1.7	68	96	- 7	37	13	3	T	0	0.9	34	13.0	W	28	8	6	17	6.5	48
ALASKA																																
ANCHORAGE	35	1001.0	1006.2	-11.9	-20.4	-16.2	- 5.1	3.9	28	-32.8	26+	B 0	31	-18.3	78	18	- 2	6	9	0	206	406	1.2	1	13.9	15	B 28	9	8	14	6.2	55
ANNETTE	34	1003.1	1007.0	3.4	- 2.1	0.7	- 0.7	7.8	22	- 7.8	10+	0	23	- 2.8	77	248	- 40	47	21	0	523	127	1.8	13	17.9	14	22+	7	2	22	7.5	
BARROW	9			-21.9	-28.7	-25.3	1.5	- 3.3	8+	-41.7	30	0	31			2	- 3	1	4	0	18	178			16.5	23	6					
BARTER ISLAND	12	1009.8	1011.9	-20.6	-28.7	-24.6	2.5	0.6	5+	-42.2	23	0	31	-27.8	75	9	- 1	8	4	0	94	305	3.9	25	23.2	27	29					
BETHEL	38	1004.7	1010.7	-15.7	-24.6	-20.2	- 4.4	2.2	7	-43.3	21	0	31	-22.8	77	20	- 9	9	10	0	292	152	0.6	15	18.3	18	28	13	3	15	5.3	
BETTLES	196			-26.5	-36.5	-31.5		- 0.6	8	-53.3	18	0	31			87		36	13	0	1417	1803			13.0	22	29	10	4	17	6.3	
BIG DELTA	386			-22.3	-31.6	-26.9		1.7	29+	-47.8	14	0	31			5			4	0	155											
COLD BAY	29	1003.7	1007.3	- 2.2	- 7.9	- 5.1	- 2.7	10.0	28	-18.9	21	0	30	- 7.2	82	50	- 9	14	15	0	269	178	1.3	6	24.1	16	27+	3	6	22	7.7	
FAIRBANKS	133	995.9	1014.5	-23.6	-32.2	-27.9	- 3.9	0.6	29	-46.1	16	0	31	-32.8	65	11	- 11	5	7	0	361	483	0.3	33	10.3	27	29	6	8	17	7.3	
GULKANA	479			-21.5	-31.0	-26.3		1.1	29	-48.3	17+	0	31			10		3	5	0	119	178			15.6	6	13	4	10	17	6.9	
HOMER	20			- 7.4	-15.1	-11.2		5.6	28	-26.1	25+	0	30			21	- 31	6	11	0	244	229			11.2	14	28	11	6	14	5.5	
JUNEAU	4	1005.8	1006.7	- 3.7	-10.8	- 7.3	- 3.4	4.4	22	-22.2	15	0	31	-10.6	76	111	9	28	19	0	1621	660	1.7	10	14.3	12	22	7	2	22	7.5	33
KING SALMON	15	1006.4	1008.5	-12.1	-21.5	-16.8	- 6.4	5.6	28	-36.1	22	0	30	-21.7	66	16	- 11	6	7	0	76	102	1.7	3	17.4	17	28	16	5	10	4.2	
KODIAK	34			- 2.9	- 7.8	- 5.4	4.9	5.6	7	-18.9	25+	0	27			8	-119	5	5	0	48	25			24.6	32	29	14	4	13	5.1	
KOTZEBUE	3	1009.1	1009.6	-19.6	-26.9	-23.2	- 2.3	1.1	7	-40.0	25+	0	31			45	35	12	11	0	607	889	4.1	12	21.9	11	31+	11	5	15	6.0	
MC GRATH	105	999.3	1013.1	-21.9	-33.9	-27.9	- 5.2	4.4	28+	-51.7	21	0	30			32	T	12	9	0	340	406	0.1	27	8.0	18	28	16	3	12	4.6	
NOME	4	1008.1	1009.0	-16.1	-25.3	-20.7	- 5.4	1.7	7	-39.4	21	0	31			43	17	18	14	0	500	381	2.5	12	17.4	11	31	11	1	19	6.2	54
ST. PAUL ISLAND	7	1006.1	1007.0	- 2.0	- 7.9	- 4.9	- 1.3	3.9	1	-17.8	20	0	29	- 7.2	83	45	- 1	8	24	0	330	178	1.9	8	22.8	20	31	3	11	17	7.7	
SHEMYA	37	998.6	1002.4	0.2	- 3.2	- 1.5	- 1.1	3.9	3	-12.2	7	0	25	- 4.4	79	33	- 31	14	21	0	157	51	0.8	12	29.5	20	2	3	9	19	8.0	
SUMMIT	732	917.0	1013.2	-19.0	-25.8	-22.4		- 3.3	29+	-38.3	15	0	31	-26.1	70	32		17	11	0	754	889	6.6	5	20.6	6	18	12	6	13	5.5	
TALKEETNA	105			-12.9	-25.8	-19.4	- 6.8	0.0	8+	-42.8	25	0	31			44	- 1	18	10	0	1049	991			13.0	2	12	11	7	13	5.5	
UNALAKLEET	5			-18.4	-24.9	-21.7		3.3	7	-42.8	21	0	31			20		7	9	0	203	457			20.6	10	27	14	4	13	5.1	
YAKUTAT	9	1002.4	1003.3	- 2.7	-10.3	- 6.5	- 3.9	4.4	22	-19.4	15	0	30	- 8.9	82	181	- 94	31	20	0	1801	1473	1.9	9	21.9	22	24	4	4	23	8.2	
ARIZONA																																
FLAGSTAFF	135	785.3	1019.7	2.1	-12.3	- 5.1	- 2.4	11.1	12	-24.4	5	0	31	-11.7	63	48	2	19	10	0	533	330	0.7	23	13.4	SW	19	10	7	14	5.6	73
PHOENIX	340	978.0	1017.7	17.5	3.8	10.7	0.8	25.6	14	- 0.6	21	0	2	0.6	54	3	- 15	1	5	0	0	0	0.8	12	16.5Y	NW	19	12	8	11	4.9	85
TUCSON	788	927.2	1016.6	15.6	1.7	8.7	- 1.2	24.4	14	- 3.3	21	0	10	- 2.8	50	2	- 19	1	4	0	T	0	1.1	16	16.1	SE	29	10	11	10	5.4	75
WINSLOW	1492	852.4	1021.2	5.3	- 5.3	0.0	0.6	17.2	30	-10.0	28	0	30	- 6.1	69	6	- 5	2	5	0	53	25	1.0	25	12.5	22	19	8	9	14	6.2	
YUMA	59	1010.8	1018.1	18.6	5.1	11.8	- 0.1	24.4	14	- 1.1	7	0	2	- 2.2	42	1	- 9	1	2	0	0	0	1.7	35	14.8	N	22	15	9	7	3.8	87
ARKANSAS																																
FORT SMITH	136	1003.4	1020.4	7.8	- 2.7	2.6	- 1.8	18.3	18+	-13.3	12	0	22	- 2.2	73	90	23	28	11	3	112	102	0.6	34	13.4	E	21	6	5	20	7.2	41
LITTLE ROCK	78	1010.8	1020.6	8.9	- 0.4	4.3	- 0.5	22.2	18	- 9.4	12	0	21	- 1.7	69	143	11	63	12	3	66	51	0.6	34	16.1	SW	21	5	7	19	7.2	64
CALIFORNIA																																
BAKERSFIELD	145	1002.7	1020.7	13.7	3.9	8.8	0.3	21.7	29	- 2.8	7+	0	4	5.0	80	53	23	22	8	0	T	0	1.2	10	14.3	14	28	8	9	14	6.0	
BISHOP	1252	872.7		6.8	- 7.2	- 0.2	- 2.8	15.0	14	-15.6	5	0	30			77	52	57	5		152	102										
BLUE CANYON	1609			3.7	- 3.1	0.3	- 2.6	13.9	14	-10.0	4+	0	26			492	195	116	19		2029	914			19.2	18	16	7	8	16	6.9	
EUREKA U	13			11.8	5.1	8.5	- 0.1	18.3	13	- 0.6	4	0	2			164	- 6	35	18		0	0			15.2	S	28	3	6	22	8.1	47
FRESNO	100	1008.8	1020.7	12.2	2.4	7.3	- 0.6	18.3	15	- 4.4	7+	0	10	5.0	87	49	- 3	15	11	0	0	0	0.8	10	13.9	NW	19	9	8	14	6.1	59
LONG BEACH	8	1018.0	1019.4	18.0	5.9	11.9	0.2	25.6	28	- 0.6	5	0	1	3.9	61	86	36	38	7	0	0	0	0.4	31	11.2	15	18	13	10	8	4.7	
LOS ANGELES	30	1015.2	1018.7	17.1	8.1	12.6	0.1	25.0	14	2.8	5	0	0	4.4	62	80	13	43	5	0	0	0	0.2	31	20.6Y	N	19	11	11	9	4.8	
LOS ANGELES U	82			19.0	8.1	13.6	0.3	28.9	13	2.8	5	0	0			112	34	70	5		0	0			10.3	NW	19+	13	11	7	4.1	68
MT SHASTA R	1080	892.0	1018.9	4.2	- 4.3	- 0.1	- 0.8	13.3	14	-12.2	7+	0	27	- 4.4	76	181	20	75	14		861	203	0.9	12								
OAKLAND	2	1019.6	1020.0	11.2	5.7	8.4	- 0.4	15.0	14+	0.0	7	0	1	5.6	83	187	90	45	16	0	0	0	1.0	14	13.9	15	18	7	8	16	6.5	
RED BLUFF	104	1006.8	1019.6	10.2	1.4	5.8	- 1.7	16.7	16+	- 5.0	7+	0	11	1.1	78	195	86	39	17	1	122	76	0.8	32	18.8	S	16	10	2	19	6.5	54
SACRAMENTO	5	1019.0	1019.8	10.9	2.8	6.8	- 0.5	15.6	16+	- 3.3	7+	0	13	3.9	82	174	94	41	17	0	0	0	0.7	16	13.9	SE	18+	6	9	16	6.7	53
SANDBERG R	1377	862.5		6.1	- 1.3	2.4	- 2.0	13.9	14	- 6.7	5	0	22	- 5.0	68	98	33	52	7		86	51	1.4	1	21.0	35	19	9	3	19	6.4	
SAN DIEGO	4	1018.0	1019.1	17.7	8.4	13.1	0.3	24.4	13	3.3	5	0	0	3.9	58	43	- 8	12	8	0	0	0	0.9	29	13.4	S	18	12	7	12	5.1	78
SAN FRANCISCO	2	1019.3	1019.9	12.6	5.2	8.9	- 0.3	16.7	12	- 0.6	7	0	2	5.6	81	211	109	60	17	0	0	0	0.6	19	15.6	18	18	8	7	16	6.6	
SAN FRANCISCO U	16			12.6	7.6	10.1	- 0.3	16.7	1	3.9	7	0	0			238	123	71	17		0	0			13.4	SE	16					48
SANTA MARIA	72			14.6	2.4	8.5	1.6	23.3	14	- 5.6	5	0	12			122	50	50	10		0	0						12	7	12	5.4	
STOCKTON	7	1019.0	1020.0	11.3	3.4	7.4	0.3	16.7	12	- 3.9	7+	0	9	3.9	81	160	96	31	16	0	0	0	1.5	16	15.6	15	18	4	7	20	7.4	

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days: Partly cloudy, 4-7	No. of days: Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
COLORADO																																
ALAMOSA	2297	769.7		- 4.1	-25.3	-14.7	- 6.6	2.2	17	-31.1	23+	0	31			4	- 3	2	5		99	127						11	13	7	4.9	
COLORADO SPRINGS	1873	808.3	1019.4	1.5	- 8.8	- 3.7	- 1.8	14.4	30	-22.2	9	0	30	-12.8	52	2	- 6	1	4	0	99	51	2.4	1	18.3	35	27	10	11	10	5.6	
DENVER	1610	834.1	1017.3	4.3	- 9.6	- 2.6	- 0.7	17.2	16+	-21.7	9	0	27	-11.1	55	33	19	23	8	0	307	178	0.7	20	14.3	N	27	11	9	11	5.5	78
GRAND JUNCTION	1476	854.7	1027.4	- 5.6	-17.2	-11.4	- 8.1	2.8	20	-24.4	8+	0	31	-13.9	85	20	4	11	8	0	325	254	0.6	3	8.9	SE	28	11	8	12	6.1	62
PUEBLO	1428	854.0	1018.2	5.3	- 8.1	- 1.4	- 0.3	18.9	30	-20.6	9	0	30	- 8.3	65	3	- 5	1	5	0	97	51	1.7	35	21.9	N	27	9	13	9	5.6	61
CONNECTICUT																																
BRIDGEPORT	2	1016.9	1017.7	3.3	- 5.1	- 0.9	0.1	12.8	1	-13.3	8	0	27	- 7.8	61	121	27	44	8	1	109	102	4.2	29	17.0	33	20	8	10	13	5.9	
HARTFORD	52	1009.8	1016.6	3.8	- 6.8	- 1.4	1.9	17.2	18	-17.2	31+	0	27	- 8.3	62	83	- 8	33	8	1	358	254	2.1	28	15.2	NW	20	8	9	14	5.9	68
DELAWARE																																
WILMINGTON	23	1016.3	1019.2	6.9	- 2.9	2.0	1.2	18.3	1	-10.6	9	0	23	- 5.0	60	97	10	37	7	1	T	T	2.3	30	13.4	31	20	8	8	15	6.7	
DIST. OF COLUMBIA																																
WASHINGTON DULLES	88	1008.1	1020.2	7.0	- 5.2	0.9		18.3	26	-13.3	13+	0	23	- 4.4	71	57		19	8	0	T	0	1.5	30	12.5	31	29	6	7	18	7.1	
WASHINGTON NATIONAL	3	1017.6	1020.0	8.1	- 1.8	3.1	0.4	17.8	1	- 8.3	10	0	22	- 5.0	58	57	- 20	19	8	0	T	T	1.7	31	15.2	NW	29	6	10	15	6.8	54
FLORIDA																																
APALACHICOLA U	4			16.4	9.1	12.8	- 0.1	24.4	4	0.0	30	0	1			123	43	39	14	3	0	0			13.0	NW	28	5	9	17	7.0	74
DAYTONA BEACH	9	1018.6	1020.1	20.3	9.6	14.9	- 0.2	28.9	4	- 0.6	30	0	1	10.0	76	118	69	33	8	1	0	0	1.3	31	9.8	29	29	4	7	20	7.5	
FORT MYERS	5	1019.0	1019.3	24.4	13.4	18.9	1.4	30.0	3+	2.8	14	0	0	14.4	80	80	41	44	9	0	0	0	1.1	4	10.3	30	29+	6	10	15	6.6	
JACKSONVILLE	8	1019.6	1020.5	18.5	6.1	12.3	- 0.9	27.8	4	- 3.3	14	0	5	7.2	77	118	56	52	10	1	0	0	1.1	35	12.1	NW	29	6	7	18	7.0	50
KEY WEST	1	1017.6	1018.3	24.9	19.8	22.4	1.5	27.8	27+	12.8	30+	0	0	17.8	77	63	24	54	8	1	0	0	2.2	7	13.0	NW	29+	7	9	15	6.3	73
LAKELAND U	65			21.4	11.4	16.4	- 0.1	28.3	2	1.1	30	0	0			109	57	42	9		0	0						5	12	14	6.5	63
MIAMI	2	1018.3	1018.7	25.2	17.4	21.3	1.9	29.4	28	5.6	30	0	0	16.1	73	87	35	68	8	1	0	0	0.6	6	11.2	30	28	4	17	10	6.2	
ORLANDO	33	1015.6	1019.9	22.2	11.6	16.9	1.1	28.9	4+	1.7	30	0	0	11.7	76	122	72	35	9	1	0	0	0.9	33	10.3	29	29	4	8	19	7.3	
PENSACOLA	34	1015.9	1020.2	16.1	6.3	11.2	- 0.7	23.3	4	- 3.9	13	0	5	7.2	78	100	- 7	29	12	1	T	0	1.5	2	13.0	23	21	7	5	19	6.8	
TALLAHASSEE	17	1018.0	1020.3	18.1	4.3	11.2	- 1.0	27.2	4	- 7.8	14	0	9	6.7	78	126	39	36	12	1	0	0	0.9	3	10.3	15	21	5	8	18	7.1	
TAMPA	6	1020.0	1020.1	22.2	11.0	16.6	0.4	28.3	3	- 1.1	14	0	2	11.1	75	95	41	29	8	2	0	0	1.0	4	11.2	32	29	6	6	19	7.2	49
WEST PALM BEACH	5	1018.0	1018.7	25.3	15.4	20.4	1.0	30.6	23	3.3	30	0	0	15.0	73	67	4	23	10	1	0	0	0.4	1	14.8	29	29	7	9	15	6.8	
GEORGIA																																
ATHENS	244	990.9	1020.6	11.6	0.8	6.2	- 0.8	21.1	20	- 7.2	30+	0	15	0.6	72	109	- 15	35	12	1	69	76	0.8	29	9.4	7	21	9	5	17	6.4	
ATLANTA	308	982.7	1020.3	10.3	0.1	5.2	- 1.8	19.4	18	- 8.9	13	0	16	- 0.6	71	226	113	99	12	2	25	25	1.0	33	15.2	W	19	9	3	19	6.7	50
AUGUSTA	41	1014.9	1020.4	13.3	1.2	7.3	- 1.4	20.6	20+	- 8.3	14	0	15	0.6	68	132	56	40	11	1	10	T	0.9	31	9.4	29	29+	8	7	16	6.5	
COLUMBUS	117	1006.4		13.5	2.4	8.0	- 0.8	21.1	18	- 6.1	13	0	12	2.8	74	153	50	43	11	2	T	T	1.1	1	10.3	12	21	9	3	19	6.7	
MACON	108	1007.5	1020.8	14.2	2.1	8.1	- 1.4	23.3	18	- 6.7	14	0	13	2.2	72	155	69	77	13	1	T	0	1.0	34	13.0	S	19	8	4	19	6.8	52
ROME	194			9.6	- 1.6	4.0	- 1.6	19.4	18	-11.1	13	0	18			117	- 23	35	9		T	T										
SAVANNAH	14	1019.0	1020.7	15.7	4.1	9.9	- 1.1	22.2	22+	- 5.0	14	0	10	3.9	72	92	21	24	12	0	T	0	0.9	32	11.6	NW	29+	7	7	17	6.8	45
HAWAII																																
HILO	8	1016.3	1017.4	26.8	17.8	22.3	0.8	30.0	6	15.6	15	0	0	17.8	79	88	-213	18	18	1	0	0	0.3	20	7.2	E	5	3	18	10	6.2	52
HONOLULU	2	1016.6	1017.0	27.1	18.3	22.7	0.2	29.4	3	12.8	1	0	0	16.1	69	17	- 78	15	3	0	0	0	2.7	5	14.8	NE	27	13	12	6	4.6	72
KAHULUI	15	1014.2	1016.7	25.7	16.4	21.1	- 1.2	28.9	3	13.3	22+	0	0	17.2	80	54	- 25	23	10	0	0	0	3.4	5	12.1	NE	25	17	8	6	4.0	68
LIHUE	31	1013.2	1018.3	25.5	17.7	21.6	0.0	27.2	25	12.8	1	0	0	17.2	77	26	-114	11	11	0	0	0	2.5	3	12.5	NE	28	7	18	6	5.2	51
IDAHO																																
BOISE	865	917.7	1020.9	3.4	- 4.9	- 0.7	0.9	11.1	15	-11.7	27	0	27	- 5.6	69	29	- 5	11	10	0	185	76	1.2	14	15.2	SE	18	6	4	21	7.7	44
LEWISTON	431			4.2	- 4.0	0.1	0.8	13.9	13	-18.3	8	0	22			18	- 10	8	7		91	51			21.5Y		1	5	4	22	7.7	
POCATELLO	1358	864.2	1023.2	- 1.4	-12.1	- 6.8	- 1.4	10.6	15	-25.6	4	0	27	-12.2	65	26	- 4	5	12	0	328	102	1.0	21	16.1	SW	16	0	7	24	8.5	34
ILLINOIS																																
CAIRO U	96			6.1	- 1.3	2.4	- 0.6	16.1	17	-11.1	10	0	18			85	- 28	41	9		23	25			16.1	SE	21+	8	7	16	6.5	42
CHICAGO O HARE	201	992.9	1018.4	1.8	- 6.1	- 2.1	2.2	13.9	26+	-17.8	10	0	25	- 6.1	75	31	- 15	16	6	0	13	T	2.3	24	15.6	25	1	8	3	20	6.9	
CHICAGO MIDWAY	185	995.6	1019.0	2.1	- 5.8	- 1.8	1.5	13.9	26	-17.8	10	0	25	- 6.7	70	38	- 9	17	9	0	20	T	1.9	23	13.0	SW	3	8	5	18	6.9	47
MOLINE	177	996.6	1019.2	1.4	- 6.9	- 2.7	2.5	13.9	16	-18.9	10+	0	25	- 7.8	71	64	23	24	6	0	10	T	1.8	26	13.9	W	3	6	6	19	7.0	47
PEORIA	199	994.6	1019.7	1.8	- 6.9	- 2.6	0.9	13.9	25	-18.9	10	0	28	- 6.1	78	45	- 3	25	6	0	20	25	1.3	23	13.0	N	28	6	4	21	7.4	47
ROCKFORD	221	990.5	1018.6	0.9	- 7.2	- 3.2	2.4	12.2	25	-18.9	10	0	27	- 7.2	77	42	- 8	24	9	0	10	T	1.7	26	11.2	36	28+	7	4	20	6.9	
SPRINGFIELD	179	997.0	1019.9	3.1	- 5.7	- 1.3	0.7	15.0	17	-17.8	10	0	26	- 5.6	77	33	- 15	19	5	1	15	T	1.5	23	14.8	N	28	8	5	18	6.6	57
INDIANA																																
EVANSVILLE	116	1006.4	1021.1	4.7	- 3.9	0.4	- 0.8	17.2	18	-13.3	12	0	27	- 3.9	75	62	- 39	23	8	0	15	T	0.6	23	14.8	SW	3	7	4	20	7.2	37

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	Temperature: No. of days Max. 32.2 °C or above	Temperature: No. of days Min. 0 °C or lower	Temperature: Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: No. of days .25 mm. or more	Precipitation: No. of days With thunderstorms	Precipitation: Snow, ice pellets Total	Precipitation: Snow, ice pellets Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers) Speed	Wind: Fastest mile (1.6 kilometers) Direction	Wind: Fastest mile (1.6 kilometers) Date	No. of days (sunrise to sunset) Clear, 0-3	No. of days (sunrise to sunset) Partly cloudy, 4-7	No. of days (sunrise to sunset) Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
INDIANA																																
FORT WAYNE	241	988.5	1019.5	2.6	- 5.7	- 1.6	1.2	15.6	18	-16.1	10	0	27	- 6.1	73	40	- 28	16	7	0	58	25	2.5	25	17.9	NW	4	4	7	20	7.5	49
INDIANAPOLIS	241	989.8	1020.1	3.7	- 5.2	- 0.7	0.9	16.7	18	-15.6	10	0	26	- 6.1	70	58	- 20	21	8	0	10	T	1.4	22	13.4	SW	3	5	7	19	7.6	40
SOUTH BEND	236	989.5	1018.9	2.5	- 4.9	- 1.2	2.4	14.4	18	-16.7	10	0	25	- 5.0	76	42	- 14	17	13	0	140	51	2.7	23	15.6	24	4+	3	6	22	7.9	
IOWA																																
BURLINGTON	211			1.3	- 7.6	- 3.1	1.1	15.0	25	-20.6	9	0	28	- 8.3	72	62	21	26	5	0	10	T	1.5	26	13.0	35	28	7	4	20	6.8	
DES MOINES	286	983.4	1019.6	- 1.6	- 9.5	- 5.6	1.2	10.6	18+	-23.3	9	0	28	- 8.9	77	53	20	24	7	0	389	229	1.1	29	13.4	N	28+	9	3	19	6.5	54
DUBUQUE	322			- 1.6	- 8.9	- 5.3	1.8	10.6	18	-22.2	9+	0	29			42	- 4	15	7		56	25						7	4	20	6.8	
SIOUX CITY	334	978.3	1020.1	- 1.3	-10.4	- 5.8	1.6	10.6	26	-24.4	9	0	28	- 9.4	76	31	11	14	6	0	287	178	0.5	34	15.6	NW	22+	9	6	16	6.3	64
WATERLOO	265	985.8	1019.3	- 2.9	-11.8	- 7.3	0.5	8.9	26+	-27.2	9+	0	30	-11.7	69	29	T	19	7	0	203	127	0.7	29	14.3	32	14	8	6	17	6.4	
KANSAS																																
CONCORDIA	448	964.8	1019.7	2.1	- 7.6	- 2.8	- 0.3	16.1	25	-22.8	9	0	25	- 6.1	80	26	8	11	9	0	180	102	1.0	26	17.0	NW	27	8	10	13	5.9	68
DODGE CITY	787	925.2	1019.1	3.2	- 6.9	- 1.9	- 1.4	16.7	15	-20.0	9	0	27	- 7.8	69	16	1	8	10	0	224	127	1.4	30	20.6	N	27	7	6	18	6.9	51
GOODLAND	1114	887.2	1018.6	2.9	- 8.7	- 2.9	- 0.3	17.2	15	-22.8	9	0	29	- 7.2	77	19	9	13	11	0	297	127	2.2	28	17.9	34	27	9	6	16	6.3	
TOPEKA	267	987.5	1020.6	2.5	- 7.6	- 2.5	- 0.7	17.8	17	-22.8	9	0	26	- 7.2	71	68	42	30	9	0	343	152	0.8	29	16.1	N	28	10	4	17	6.5	49
WICHITA	403	970.2	1019.9	2.2	- 7.3	- 2.6	- 2.6	15.0	17	-21.7	9	0	26	- 6.1	77	69	49	24	10	0	450	152	0.6	32	18.8	N	27	8	4	19	6.8	52
KENTUCKY																																
COVINGTON	265	987.8	1020.4	4.3	- 4.7	- 0.2	0.1	17.2	18	-15.6	12	0	25	- 4.4	74	45	- 45	17	9	0	13	T	1.7	23	13.9	21	18	6	7	18	7.4	
LEXINGTON	294	984.4	1021.0	6.3	- 2.9	1.7	0.3	19.4	18	-12.8	12	0	21	- 3.9	69	39	- 87	20	9	0	25	T	1.6	21	11.2	14	22+	8	3	20	7.2	
LOUISVILLE	145	1002.7	1020.8	5.9	- 2.6	1.7	0.0	17.8	18+	-11.7	12	0	22	- 3.9	69	50	- 54	15	9	0	28	25	1.1	23	14.8	SW	3	6	6	19	7.3	46
LOUISIANA																																
ALEXANDRIA	28	1016.3	1020.6	12.4	1.4	6.9	- 3.3	22.8	18	- 7.8	13	0	13			170	35	39	14	4	61	25	0.9	36	11.2	18	31	9	4	18	6.6	
BATON ROUGE	20	1017.6	1020.2	15.1	4.1	9.6	- 2.0	23.9	18+	- 5.0	13	0	8	5.0	77	102	- 20	33	13	2	15	25	0.8	5	13.4	14	20	8	5	18	6.8	
LAKE CHARLES	3	1019.0	1020.0	14.2	4.4	9.3	- 2.7	23.9	20	- 3.9	13	0	7	6.1	83	105	- 8	25	15	5	102	102	1.4	5	13.9	13	31+	9	4	18	6.6	
NEW ORLEANS	1	1019.0	1020.0	15.6	4.8	10.2	- 2.4	23.9	18	- 6.1	13	0	6	6.1	78	68	- 29	17	14	1	T	T	1.3	2	10.3	12	25	7	6	18	7.1	
SHREVEPORT	77	1010.5	1020.1	12.2	1.9	7.1	- 1.6	24.4	18	- 6.7	12	0	12	0.6	68	144	22	38	14	2	15	25	0.3	1	10.7	31	28	8	3	20	6.9	43
MAINE																																
CARIBOU	190	986.8		- 6.8	-17.9	-12.4	- 0.4	5.0	23	-35.6	10	0	31			66	12	17	12		516	762						9	6	16	6.5	
PORTLAND	13	1011.5	1014.0	0.1	- 9.9	- 4.9	0.7	8.3	1	-24.4	9	0	30	-11.7	61	66	- 45	20	7	0	244	406	2.4	29	16.1	N	20	14	7	10	4.9	66
MARYLAND																																
BALTIMORE	45	1014.2	1020.0	6.9	- 4.1	1.4	- 0.1	18.9	17	-11.1	13	0	24	- 5.6	61	71	- 16	24	7	1	T	0	2.2	29	13.9	NW	29	9	6	16	6.5	61
MASSACHUSETTS																																
BLUE HILL OBS R	192			3.1	- 6.1	- 1.5	1.3	16.7	18	-18.9	8	0	25			98	- 16	45	8		155	76			25.9	NW	20					66
BOSTON	5	1014.2	1015.2	3.9	- 4.6	- 0.3	0.8	16.1	18+	-17.2	8	0	23	- 8.9	56	79	- 21	39	7	1	91	51	4.4	28	15.2	NW	20	11	9	11	5.1	62
WORCESTER	301	977.3	1015.3	1.4	- 8.1	- 3.3	1.2	15.0	18	-20.6	30+	0	26	-10.6	59	103	8	37	9	1	455	356	4.2	28	17.9	30	20	11	8	12	5.5	
MICHIGAN																																
ALPENA	210	989.8	1016.2	- 0.3	-10.1	- 5.2	1.7	11.1	18	-23.3	7	0	29	- 8.3	77	26	- 24	6	11	0	244	254	1.3	26	13.9	SE	3	9	9	13	6.3	51
DETROIT	189			2.2	- 4.7	- 1.3	1.6	13.3	18+	-12.2	10	0	26	- 7.2	66	36	- 16	18	4	0	5		3.0	24	13.0	24	4					
DETROIT METRO.	193	993.2	1018.2	1.9	- 5.5	- 1.8	1.4	14.4	18	-13.9	12	0	27	- 6.1	75	42	- 7	19	11	0	61	25	2.6	24	14.8	SW	4	4	10	17	7.1	50
FLINT	235	988.5	1017.3	1.8	- 5.4	- 1.8	2.4	15.0	18	-12.8	12+	0	27	- 7.2	69	35	- 8	16	6	0	33	T	2.9	25	13.4	26	1	3	8	20	7.7	
GRAND RAPIDS	239	987.8	1017.9	0.8	- 5.9	- 2.6	1.9	13.3	26	-14.4	7	0	28	- 6.1	77	42	- 6	16	15	0	178	102	2.3	23	19.7	SW	4+	3	4	24	8.2	44
HOUGHTON LAKE	350	972.9	1016.8	- 1.1	- 9.9	- 5.5	1.6	11.7	26	-28.3	7	0	29	- 8.3	80	31	- 7	12	9	0	211	203	2.0	26	13.0	27	4	7	8	16	6.6	
LANSING	256	985.1	1017.8	1.3	- 6.3	- 2.5	1.8	15.0	18	-15.0	7	0	28	- 7.2	71	30	- 20	17	13	0	48	25	2.7	24	18.8	SW	4	3	9	19	7.7	43
MARQUETTE U	206			- 1.8	- 9.2	- 5.5	1.4	8.9	25+	-19.4	10	0	30			37	- 11	13	13		376	559			15.2	SW	16	4	7	20	7.6	36
MUSKEGON	191	994.2	1018.2	0.8	- 5.4	- 2.3	1.1	11.1	18	-15.6	7	0	28	- 6.1	76	34	- 19	16	14	0	201	76	2.1	24	13.0	23	10+	1	4	26	8.8	
SAULT STE MARIE	220	987.5	1015.1	- 3.1	-11.2	- 7.1	1.9	7.2	18	-25.0	6	0	28	- 9.4	82	44	- 8	14	13	0	353	584	0.7	26	13.4	E	31	7	4	20	7.4	45
MINNESOTA																																
DULUTH	435	963.1	1017.1	- 6.6	-16.2	-11.3	1.6	8.3	25	-35.0	7	0	31	-13.9	81	17	- 12	10	8	0	234	559	1.4	27	14.3	E	30+	7	8	16	6.4	49
INTERNATIONAL FALLS	359	971.6	1017.1	- 6.2	-18.8	-12.5	3.6	8.9	24	-40.6	7	0	31	-17.2	67	3	- 19	1	4	0	58	305	1.3	24	10.3	31	22	8	6	17	6.9	
MINNEAPOLIS	254	986.5	1018.5	- 3.3	-12.9	- 8.1	2.8	7.8	25	-28.9	6	0	30	-12.8	68	23	6	15	2	0	295	203	0.9	26	13.4	SW	2	11	6	14	5.9	53
ROCHESTER	395	968.8	1019.2	- 4.7	-13.4	- 9.0	1.2	6.1	26+	-29.4	9+	0	30	-11.7	78	27	4	20	5	0	305	254	2.0	26	14.3	20	15+	7	7	17	6.4	
ST CLOUD	313	979.7	1019.0	- 4.8	-16.8	-10.8	1.3	8.3	25	-32.2	6	0	31			13	- 5	7	5		147	279						8	8	15	6.5	

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station (Ø)	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, ice pellets: Total	Snow, ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile (1.6 kilometers): Direction	Fastest mile (1.6 kilometers): Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days (sunrise to sunset): Partly cloudy, 4-7	No. of days (sunrise to sunset): Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
MISSISSIPPI																																
JACKSON	94	1008.5	1020.7	12.8	0.8	6.8	- 2.0	23.3	18+	-10.6	13	0	12	2.8	79	117	- 15	28	12	2	T	T	0.4	3	15.2	SE	31	10	4	17	6.5	45
MERIDIAN	88	1009.5	1020.9	13.4	1.4	7.4	- 1.5	22.2	18+	- 8.3	13	0	11	1.7	71	128	9	43	10	1	T	0	1.2	4	8.0	32	28+	8	4	19	6.9	
MISSOURI																																
COLUMBIA REGIONAL	270	986.8	1020.3	3.2	- 5.6	- 1.2	0.3	16.1	16	-19.4	10+	0	21	- 6.1	73	79	36	22	9	0	173	102	0.8	26	13.9	SW	3	7	7	17	6.9	53
KANSAS CITY	309	981.7	1020.1	1.6	- 6.8	- 2.6	- 1.2	16.1	17	-22.2	9	0	24	- 7.8	67	52	20	22	9	0	277	127	1.0	24	16.1	NW	28	7	9	15	6.4	68
ST JOSEPH	247			1.9	- 8.3	- 3.2	- 0.5	15.0	17	-25.0	9	0	28			53	23		6				0.6	28	13.0	33	28	9	6	16	6.2	
ST LOUIS	163	999.3	1020.2	5.3	- 4.7	0.3	0.4	19.4	17	-17.2	10	0	26	- 3.9	79	36	- 15	11	9	1	56	25	1.2	24	13.9	E	21+	5	11	15	6.8	54
SPRINGFIELD	386	973.2	1020.0	5.8	- 4.5	0.7	- 0.2	18.3	16	-20.6	12	0	22	- 5.0	69	112	62	36	14	2	188	127	0.8	20	15.2	SE	20	7	7	17	6.8	48
MONTANA																																
BILLINGS	1087	890.6	1019.3	- 0.9	- 9.1	- 4.9	- 0.1	12.8	16	-28.3	4	0	25	-12.8	57	33	19	15	9	0	338	178	5.0	24	15.2	SW	1	7	4	20	7.3	42
GLASGOW	696	933.0	1018.5	- 2.8	-12.7	- 7.7	4.6	11.1	24	-28.9	9+	0	30	-12.2	71	T	- 12	T	0	0	T	127	0.4	36	13.9	33	2	10	6	15	5.9	
GREAT FALLS	1116	886.9	1019.0	0.9	- 8.8	- 3.9	1.6	15.6	15	-27.8	8	0	24	-13.3	50	8	- 7	7	5	0	84	76	6.4	22	18.8	SW	1	4	7	20	7.2	48
HAVRE	788	922.5	1017.7	1.9	-11.1	- 4.6	5.5	16.1	15	-28.9	8	0	27	-11.7	61	T	- 12	T	0	0	T	51	3.9	25	14.8	SW	23+	7	4	20	6.8	51
HELENA	1167	881.5	1022.6	- 2.1	-13.8	- 7.9	- 0.5	13.3	15	-31.1	10+	0	30	-14.4	61	6	- 6	4	4	0	81	51	2.2	26	13.9	W	16+	6	5	20	7.5	58
KALISPELL	904	913.0	1021.7	- 1.8	-12.2	- 7.0	- 0.2	8.3	13	-29.4	9+	0	30	-11.7	70	18	- 17	7	9	0	165	178	0.4	23	15.6	2	3	6	3	22	7.6	
MILES CITY	801	922.1	1019.1	- 1.2	-11.9	- 6.5	2.1	11.7	24	-29.4	9	0	29	-11.1	72	4	- 8		1	0	43		1.3	24								
MISSOULA	972	905.9	1022.4	- 1.4	-10.2	- 5.8	1.3	6.7	17	-28.3	10	0	30	- 9.4	79	11	- 12	3	9	0	76	76	0.2	32	11.6	E	3	5	6	20	7.6	45
NEBRASKA																																
GRAND ISLAND	561	950.9	1019.9	- 0.1	- 9.2	- 4.6	0.6	13.3	25	-23.9	9	0	28	-10.0	68	20	4	9	7	0	66	152	1.4	29	15.6	35	27	10	6	15	6.1	
LINCOLN	360	975.6	1020.0	0.6	-10.2	- 4.8	0.6	12.8	25	-24.4	9	0	29	- 9.4	71	28	13	10	7	0	170	127	0.8	31	18.8	N	27	9	4	18	6.7	58
NORFOLK	471			- 0.8	-11.2	- 6.0	1.0	10.0	26	-26.1	9	0	30			28	9	21	5		183	152						10	7	14	6.1	
NORTH PLATTE	846	918.4	1020.4	0.7	-12.4	- 5.8	1.4	15.0	25	-27.2	9	0	31	-10.0	73	10	- 1	9	6	0	97	102	1.5	33	17.0	N	22	10	9	12	5.9	64
OMAHA	298	982.7	1019.9	- 0.2	-10.3	- 5.2	0.2	11.7	17	-25.0	6	0	27	- 8.3	77	37	16	15	7	0	401	178	0.7	33	17.4	NW	27	9	7	15	6.1	60
SCOTTSBLUFF	1206	878.8	1019.9	2.6	-10.8	- 4.1	0.4	18.9	15	-28.3	9	0	29	-11.1	62	15	7	8	6	0	175	76	2.5	32	13.4	32	22	9	7	15	6.1	
VALENTINE	789			1.3	-13.3	- 6.0	0.7	15.6	16	-31.1	9	0	31			18	7	12	3		234	178			16.1	N	27	12	9	10	5.1	67
NEVADA																																
ELKO	1539	844.9	1021.9	- 0.7	-12.7	- 6.7	- 1.4	10.0	13	-25.0	4	0	29	-11.7	69	30	T	12	11	0	267	76	0.2	34	10.3	21	16	8	11	12	6.1	
ELY	1906	807.3	1020.1	2.6	-15.6	- 6.5	- 1.4	15.0	14	-26.7	20	0	30	-12.2	68	34	14	14	8	0	371	127	2.3	20	18.8	SE	18	10	6	15	6.2	68
LAS VEGAS	659	941.8	1020.1	10.3	- 0.5	4.9	- 1.2	17.2	14	- 7.8	6+	0	19	- 6.1	49	12	- 1	6	3	0	8	T	1.4	30	16.5	NW	19	15	7	9	4.3	69
RENO	1342	866.2	1019.8	4.2	- 8.2	- 2.0	- 1.1	15.0	15	-20.0	5	0	30	- 6.7	74	39	9	14	12	0	302	127	0.3	21	16.1	S	16	6	8	17	6.9	59
WINNEMUCCA	1311	869.6	1021.0	3.1	- 9.1	- 3.0	- 0.3	13.9	13	-20.0	8+	0	30	- 5.6	83	34	8	12	13	0	251	102	0.8	18	10.3	SE	18	7	5	19	7.3	48
NEW HAMPSHIRE																																
CONCORD	104	1002.0	1015.2	- 0.2	-12.0	- 6.1	- 0.1	12.2	19	-27.8	31	0	30	-11.1	71	62	- 20	19	8	0	333	406	2.5	30	14.3	NW	29	10	11	10	5.2	67
MT WASHINGTON OBS	1909			- 9.6	-19.3	-14.4	- 0.2	3.9	19	-37.2	31	0	31			298	160	68	20	0	1791	483			68.0Y	NW	7	6	3	22	7.6	34
NEW JERSEY																																
ATLANTIC CITY	20	1016.6	1018.9	7.5	- 2.9	2.3	0.8	17.2	17+	-11.1	13	0	22	- 7.2	51	83	- 8	34	7	1	0	0	2.5	29	13.4	5	27+	7	10	14	6.5	44
ATLANTIC CITY U	3			7.4	0.4	3.9	1.7	17.2	1	- 7.2	9+	0	16			73	- 22	27	7						20.1	NW	29					
NEWARK	2	1016.9	1018.1	6.3	- 2.4	1.9	1.8	18.3	18	-11.1	9+	0	18	- 5.6	59	93	8	31	7	2	18	25	3.0	27	14.8	29	20	10	5	16	6.4	
TRENTON U	17			5.7	- 2.4	1.6	1.0	17.2	19	-11.1	8	0	18			98	19	37	8		5	T			16.1	NW	20	9	8	14	6.0	62
NEW MEXICO																																
ALBUQUERQUE	1619	837.5	1018.9	5.6	- 5.8	- 0.1	- 1.8	12.8	19	-10.0	28	0	31	- 7.2	64	22	11	13	6	0	241	127	1.5	1	22.4	E	1	12	7	12	5.3	64
CLAYTON	1515			6.2	- 6.6	- 0.2	- 0.9	19.4	30	-16.7	9	0	29			11	2	6	7		145	76						9	10	12	5.8	
ROSWELL	1112	889.9		10.3	- 2.5	3.9	- 0.9	21.1	17	-12.2	3	0	21	- 5.0	61	19	8	9	7	0	173	51	0.6	26	21.0	NW	31	11	9	11	5.5	57
NEW YORK																																
ALBANY	84	1006.8	1017.7	2.8	- 8.4	- 2.8	2.4	15.0	18	-22.8	31	0	28	- 7.8	71	55	- 8	24	7	0	284	203	2.5	28	15.6	NW	29	5	12	14	6.6	47
BINGHAMTON	485	954.7	1017.5	0.6	- 7.5	- 3.4	1.1	13.3	1	-20.0	31	0	28	- 8.3	70	41	- 23	13	8	0	173	102	2.9	26	14.8	NW	20	2	10	19	7.9	51
BUFFALO	215	991.5	1018.2	1.2	- 6.2	- 2.4	1.7	14.4	18	-16.7	31	0	27	- 6.7	76	52	- 21	13	14	0	251	127	4.5	26	17.0	W	19+	1	6	24	8.3	41
NEW YORK U	40	1014.6	1017.9	5.6	- 1.8	1.9	1.3	18.9	18	-12.2	9	0	17	- 6.7	57	115	31	39	9	1	46	51	2.5	29	13.4	NW	29					59
NEW YORK KENNEDY	4	1017.3	1018.0	6.1	- 1.0	2.6	2.7	16.1	1	-10.0	9	0	15	- 6.1	56	86	4	33	8	0	20	T	4.2	29	15.6	32	29	8	11	12	6.0	
NEW YORK LA GUARDIA	3	1016.9	1018.1	5.3	- 1.9	1.7	0.8	17.8	18	-11.7	9+	0	17	- 6.7	56	88	4	31	8	2	23	25	3.5	29	15.6	NW	29	9	6	16	6.3	
ROCHESTER	167	997.3	1018.2	2.7	- 6.4	- 1.8	1.9	15.6	18	-18.3	31	0	25	- 6.1	76	33	- 28	15	13	0	226	127	3.9	26	14.8	SW	1	1	11	19	8.1	46
SYRACUSE	125	1002.0	1017.5	2.3	- 6.4	- 2.0	2.4	16.1	18	-21.7	31	0	25	- 6.7	73	47	- 33	21	16	1	302	102	2.7	26	13.4	W	2	1	12	18	8.0	41

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
NORTH CAROLINA																																
ASHEVILLE	652	942.4	1020.4	8.9	- 2.9	3.1	- 0.1	16.7	25+	-15.6	13	0	20	- 2.8	73	108	2	39	13	1	180	152	2.1	33	13.0	33	29	10	9	12	5.9	61
CAPE HATTERAS R	2	1019.6	1020.0	11.8	3.9	7.8	- 0.3	20.0	22+	- 1.7	30+	0	10	3.9	77	101	2	23	13	0	48	51	2.2	34	13.0	26	29+	8	6	17	6.8	41
CHARLOTTE	224	992.2	1020.5	9.7	- 1.3	4.2	- 1.7	20.6	1	-10.6	9	0	19	- 2.2	66	105	15	27	11	0	140	127	0.4	32	10.7	SW	23	11	6	14	6.0	61
GREENSBORO	273	987.8	1020.5	8.2	- 3.7	2.3	- 2.0	18.9	1	-15.0	9	0	23	- 3.3	69	89	3	24	12	0	152	127	0.7	28	11.2	NW	29	7	8	16	6.3	58
RALEIGH	132	1004.1	1020.5	9.9	- 1.9	4.1	- 1.3	21.7	22	-11.1	9	0	21	- 3.3	63	68	- 14	21	10	0	163	152	1.0	29	10.3	24	23+	11	6	14	6.0	55
WILMINGTON	9	1019.0	1020.2	13.6	2.4	8.1	- 0.8	22.8	22	- 5.6	14+	0	14	2.2	71	111	39	58	14	0	48	51	1.0	33	11.2	S	22	9	5	17	6.6	54
NORTH DAKOTA																																
BISMARCK	502	956.0	1019.0	- 3.6	-14.7	- 9.2	3.1	7.8	24	-33.9	7	0	31	-11.7	79	2	- 9	2	2	0	23	102	1.7	30	15.2	NW	22	5	10	16	6.7	70
FARGO	273	984.1	1018.9	- 7.2	-16.9	-12.1	1.7	3.3	25	-35.0	5	0	31	-13.9	82	3	- 10	2	6	0	43	330	1.0	25	17.4	N	22	9	8	14	6.6	60
WILLISTON	579	946.8	1018.6	- 2.8	-14.0	- 8.4	4.8	9.4	24	-33.3	8	0	31	-11.7	78	1	- 13	1	1	0	15	127	1.9	25	13.9	NW	22	8	6	17	6.5	45
OHIO																																
AKRON	368	973.6	1019.5	3.3	- 5.8	- 1.2	0.8	15.0	18	-15.0	30+	0	27	- 6.7	68	42	- 30	16	12	0	99	25	2.6	23	11.2	24	23	4	7	20	7.6	
CINCINNATI ABBE OB.	232			4.8	- 3.2	0.8	- 0.1	17.8	18	-12.8	10	0	23			47	- 46	18	10		T	0			10.3	SW	22					48
CLEVELAND	237	989.2	1019.2	3.1	- 4.9	- 0.9	1.1	15.6	17	-13.3	10	0	26	- 6.7	66	41	- 27	15	15	0	249	127	3.1	22	15.6	SW	4	3	6	22	7.9	41
COLUMBUS	247	989.5	1020.5	4.0	- 4.9	- 0.4	0.7	16.1	18	-13.3	30+	0	26	- 6.1	66	62	- 18	20	8	0	112	76	2.0	22	13.0	N	28+	5	9	17	7.4	39
DAYTON	305	982.7	1020.1	4.3	- 5.1	- 0.4	0.9	18.3	18	-16.7	10	0	26	- 5.6	71	41	- 39	13	10	0	61	51	2.2	21	13.4	SW	3	4	7	20	7.6	52
MANSFIELD	395			3.4	- 5.7	- 1.1	0.7	15.6	26	-15.6	10	0	26	- 5.6	75	46	- 35	14	11	0	81	51	3.5	22	14.3	21	4	4	4	23	7.6	
TOLEDO	204	992.9	1019.0	2.2	- 6.5	- 2.1	1.1	15.6	18	-15.6	10	0	27	- 7.8	66	41	- 18	17	9	0	76	25	2.6	24	15.2	SW	4	5	4	22	7.5	44
YOUNGSTOWN	359	975.3	1019.3	1.8	- 6.9	- 2.6	0.1	15.0	18	-15.0	12+	0	27	- 6.1	77	46	- 35	16	12	0	135	76	2.7	24	12.1	24	4	2	8	21	7.9	
OKLAHOMA																																
OKLAHOMA CITY	392	972.2	1020.1	5.2	- 3.8	0.7	- 2.1	18.9	17	-18.3	12	0	21	- 3.3	76	86	53	27	11	2	211	152	1.0	35	18.8	NW	27	7	4	20	6.9	46
TULSA	198	995.3	1020.5	5.9	- 3.7	1.1	- 1.2	17.2	18	-18.3	12	0	23	- 2.8	77	86	43	29	13	2	109	51	0.2	34	13.9	S	17	9	4	18	6.7	45
OREGON																																
ASTORIA	2	1014.9	1015.6	7.9	1.5	4.7	- 0.1	13.3	15+	- 7.2	7	0	13	- 0.6	72	145	-152	27	22	1	T	0	2.3	14	11.6	24	18+	2	6	23	8.2	
BURNS U	1265			1.4	- 8.6	- 3.6	0.4	8.3	15+	-15.0	27	0	31			35	- 6	9	13		257	152						2	10	19	8.0	
EUGENE	109	1003.1	1016.9	6.7	0.2	3.5	- 0.4	14.4	13	- 5.6	8	0	19	1.1	87	157	- 3	40	17	0	28	25	0.9	19	13.0	19	18	0	1	30	9.5	
MEACHAM	1234	875.4	1019.7	- 1.6	- 7.4	- 4.4	- 1.1	8.9	13	-22.2	8	0	28			55	- 52	9	19		432	279			8.0	9	18	3	4	24	8.4	
MEDFORD	396	969.5	1018.2	7.6	- 1.1	3.3	1.4	17.8	28	- 6.7	8	0	22	0.0	81	50	- 29	15	15	0	69	51	0.1	23	13.0	15	28	0	5	26	9.0	
PENDLETON	452	964.1	1019.5	3.8	- 4.7	- 0.4	- 0.5	16.1	15+	-20.6	9+	0	24	- 7.2	63	13	- 23	4	7	0	56	51	0.8	23	12.5	22	18	4	4	23	8.3	
PORTLAND	6	1016.3	1017.4	7.2	0.5	3.9	0.3	15.0	13	- 5.6	7	0	15	- 1.1	75	94	- 43	30	16	0	10	T	4.1	12	20.6	E	9	2	8	21	8.4	33
SALEM	60	1009.1	1016.7	7.6	- 0.1	3.8	0.2	15.6	13	- 7.2	7	0	18	0.0	77	143	- 27	39	19	0	18	T	1.2	19	11.2	22	18	2	3	26	8.7	
SEXTON SUMMIT R	1169	881.1	1016.6	3.1	- 2.4	0.3	- 0.8	13.9	14	- 7.8	7+	0	24			169	27	39	17		638	203	4.8	17	19.7	19	18	0	4	27	9.0	
PACIFIC AREA																																
GUAM TAGUAC R	110			28.6	19.7	24.2	- 1.5	30.0	12	14.4	29	0	0			53	- 64	27	16	0	0	0			13.0	E	3					59
JOHNSTON	2	1013.9	1014.4	25.9	22.4	24.2	- 0.9	27.2	26	20.6	5+	0	0	19.4	75	21	- 78	6	14	0	0	0	8.0	6	16.1	NE	25	7	19	5	5.4	61
KOROR R	29	1007.1	1010.9	30.9	23.7	27.3	0.5	32.2	19	22.2	29	1	0	22.8	80	54	-244	35	15	0	0	0	4.2	6	8.0	NE	20	1	14	16	7.3	69
KWAJALEIN	2	1009.8	1010.6	29.8	24.7	27.3	0.6	31.1	30	22.2	6	0	0	22.2	75	13	- 78	8	11	0	0	0	7.2	6	13.9	5	5	1	6	24	8.9	
MAJURO	3	1009.8	1010.0	29.1	25.2	27.2	0.4	30.0	30+	23.3	6	0	0	22.2	75	20	-157	6	12	0	0	0	6.5	5	12.5	E	6	0	6	25	9.0	66
PAGO PAGO	4	1006.4	1006.7	30.2	24.9	27.6		32.2	25	21.1	5	1	0	24.4	82	562		222	24	0	0	0	1.4	4	25.5	NE	1	0	10	21	8.3	56
PONAPE R	37	1004.4	1009.6	30.2	24.2	27.2	0.3	31.7	31+	20.6	31+	0	0	22.2	76	84	-197	21	20	0	0	0	4.2	6	9.8	NE	5	0	12	19	8.2	80
TRUK MOEN ISLAND	2	1010.2	1010.4	29.7	25.3	27.6	0.5	30.0	29+	23.9	9+	0	0	22.8	77	35	-179	11	13	0	0	0	5.4	6	11.2	NE	20	0	7	24	8.5	62
WAKE	3	1015.6	1015.8	27.6	21.9	24.7	- 0.5	28.9	29+	20.0	11+	0	0	19.4	76	55	26	21	17	0	0	0	4.9	8	15.2	NE	3	10	17	4	4.7	71
YAP R	13			30.0	22.9	26.5	- 0.4	30.6	29+	20.6	29	0	0			54	-146	13	13	0	0	0			8.9	NE	4	6	18	7	5.5	87
PENNSYLVANIA																																
ALLENTOWN	118	1004.4	1018.9	4.2	- 5.6	- 0.7	0.9	16.7	18	-13.9	13	0	26	- 7.2	62	91	10	28	7	1	48	51	3.0	28	13.9	32	29	9	6	16	6.2	
ERIE	223	991.2	1018.8	2.2	- 4.9	- 1.3	2.3	16.7	18	-12.8	8	0	25	- 6.7	71	44	- 24	10	11	1	201	51	3.2	23	15.6	16	22	2	6	23	8.4	
HARRISBURG	103	1006.4	1019.4	5.7	- 3.8	0.9	1.3	16.7	26+	-11.1	9	0	24	- 7.8	56	82	12	22	7	0	T	T	2.2	29	14.3	N	20	11	6	14	5.7	57
PHILADELPHIA	2	1018.0	1019.0	5.9	- 3.2	1.3	1.2	16.7	19+	-10.6	9	0	23	- 5.0	64	100	15	38	8	1	T	T	2.5	29	16.5	S	22	8	6	17	6.7	58
PITTSBURGH	347	974.6	1019.9	3.3	- 5.9	- 1.3	0.4	15.6	22+	-15.0	12	0	26	- 5.6	74	52	- 24	19	12	0	86	51	2.6	25	12.5	25	4	3	10	18	7.5	40
SCRANTON	283	982.7	1018.2	2.4	- 6.3	- 1.9	0.4	16.1	1	-16.1	9	0	28	- 7.8	65	54	- 4	12	8	0	127	102	2.3	26	17.0	SE	22	5	8	18	7.1	62
WILLIAMSPORT	160	999.7	1019.4	2.8	- 6.6	- 1.9	- 0.1	12.8	1	-16.7	9	0	27	- 7.8	68	69	2	26	8	0	38	25	2.4	29	12.1	31	6	6	8	17	6.9	
RHODE ISLAND																																
BLOCK ISLAND	34			4.2	- 3.1	0.6	0.5	12.8	19	-13.9	8	0	18			58	- 39	32	7		8	0										
PROVIDENCE	16	1013.5	1016.1	4.8	- 5.8	- 0.5	1.1	17.8	1	-15.6	31	0	25	- 7.2	62	78	- 19	26	8	0	51	51	3.0	30	12.5	33	29+	9	9	13	5.5	69

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: 2.5 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Wind: Fastest mile (1.6 kilometers): Speed	Wind: Fastest mile (1.6 kilometers): Direction	Wind: Fastest mile (1.6 kilometers): Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days (sunrise to sunset): Partly cloudy, 4-7	No. of days (sunrise to sunset): Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
SOUTH CAROLINA																																
CHARLESTON	12	1018.6	1020.6	14.6	3.2	8.9	- 1.0	23.9	22	- 6.1	14	0	12	3.3	72	117	52	27	11	0	T	T	1.4	33	16.5Y	S	22	6	10	15	6.7	49
CHARLESTON U	3			13.6	5.7	9.7	- 1.2	22.8	22	- 2.8	9	0	6			127	66	42	11		0	0			16.1	W	28					
COLUMBIA	65	1012.5	1020.7	13.5	0.8	7.2	- 1.1	21.7	20+	- 7.8	14	0	17	0.6	68	133	57	49	11	0	56	51	0.8	31	8.0	30	15+	9	6	16	6.1	54
GRNVLLE-SPRTNBRG	292	984.8	1020.3	10.8	- 0.8	5.1	- 1.4	22.8	1	-10.0	30	0	16	- 1.7	68	110	1	29	13	0	117	102	0.6	31	13.0	N	29	11	8	12	5.6	61
SOUTH DAKOTA																																
ABERDEEN	395	969.9	1019.1	- 2.9	-13.8	- 8.3	3.4	6.7	24	-30.6	5	0	31	-11.7	77	5	- 11	4	4	0	109	178	1.3	31	13.0	36	27+	8	12	11	5.7	
HURON	390	970.2	1019.0	- 2.3	-12.3	- 7.3	3.6	8.3	16	-28.3	9	0	31	-11.7	72	19	7	13	4	0	272	203	0.9	30	15.2	NW	27	9	9	13	6.0	66
RAPID CITY	964	903.8	1018.3	4.1	- 9.9	- 2.9	2.7	20.0	16	-26.1	9	0	28	-12.2	52	3	- 6	1	6	0	51	25	2.5	33	18.8	NW	27+	7	13	11	5.9	75
SIOUX FALLS	432	965.5	1019.3	- 3.0	-12.1	- 7.5	1.8	7.2	25	-28.9	9	0	30	-11.7	70	11	- 5	8	5	0	140	127	1.2	28	14.3	34	27	8	10	13	6.0	
TENNESSEE																																
BRISTOL	459	965.1	1020.7	7.1	- 2.8	2.1	- 1.4	16.7	18	-14.4	13	0	20	- 3.3	70	46	- 48	14	8	0	107	102	0.8	28	14.8	26	19	8	4	19	7.0	
CHATTANOOGA	203	995.9	1021.2	7.4	- 3.0	2.2	- 3.2	16.7	18	-11.7	13	0	21	- 2.8	71	129	- 13	31	10	1	58	51	0.7	32	13.4	S	22	9	6	16	6.6	45
KNOXVILLE	299	985.1	1021.0	7.9	- 1.3	3.3	- 1.9	18.9	18	-11.7	13	0	18	- 2.2	69	82	- 42	23	10	0	229	178	0.9	33	14.3	SW	22+	5	10	16	7.0	48
MEMPHIS	79	1010.5	1021.0	8.2	- 0.8	3.7	- 1.6	19.4	17	- 9.4	12	0	21	- 2.2	67	117	- 37	58	9	2	36	25	0.4	12	11.2	12	21+	7	6	18	7.1	51
NASHVILLE	180	998.6	1021.0	8.4	- 1.8	3.3	- 1.1	20.6	18	-13.3	13	0	19	- 2.8	66	86	- 53	20	8	1	122	127	0.7	25	13.0	SW	22	6	7	18	7.0	45
OAK RIDGE R	276			7.9	- 2.0	3.0	- 1.4	16.7	18	-12.2	13	0	21			107	- 44	26	11		203	152			17.0Y		22	9	5	17	6.8	
TEXAS																																
ABILENE	544	955.0	1019.6	8.3	- 2.2	3.1	- 3.9	22.2	19	-18.3	12	0	21	- 1.7	75	89	67	35	10	1	343	203	0.8	25	17.9	W	21	8	7	16	6.2	53
AMARILLO	1098	890.6	1017.6	6.8	- 5.3	0.8	- 1.8	20.0	30	-16.7	11+	0	24	- 7.2	65	14	- 2	5	6	0	178	127	1.1	29	22.8	NW	27	8	7	16	6.4	52
AUSTIN	182	997.6	1020.0	12.7	2.7	7.7	- 2.5	24.4	20+	- 7.8	12	0	9	1.1	68	87	27	25	14	1	20	25	1.9	35	17.0	NW	28	12	3	16	5.6	49
BROWNSVILLE	6	1018.3	1018.8	17.9	7.1	12.5	- 3.8	27.8	27	- 2.8	29+	0	5	8.3	79	53	18	33	11	0	0	0	1.3	32	15.2	S	31	6	7	18	6.9	44
CORPUS CHRISTI	12	1018.0	1019.4	16.6	5.3	10.9	- 3.2	28.3	18	- 3.9	12	0	7	6.7	80	55	14	13	14	1	5	0	2.0	2	17.0	W	21+	8	7	16	6.7	52
DALLAS	147	1002.4	1020.1	10.8	1.4	6.0	- 1.7	22.8	20+	-10.0	12	0	13	0.6	73	103	44	32	12	2	79	76	0.4	29	18.8	NW	28	9	3	19	6.4	44
DEL RIO	313	982.7	1019.6	15.1	2.3	8.7	- 2.0	24.4	20+	- 6.7	12	0	11	0.6	64	19	- 3	11	10	0	T	T	1.0	2	16.5	30	20	10	7	14	5.6	
EL PASO	1194	883.2	1017.5	12.9	- 0.8	6.1	0.0	22.2	19	- 7.8	29	0	19	- 3.3	60	31	20	13	8	0	135	102	1.3	29	21.5	SW	31	13	5	13	5.4	76
FORT WORTH	164	999.3	1020.3	10.7	1.0	5.8	- 1.7	22.8	20+	-13.3	12	0	12	0.6	73	83	31	33	12	1	58	51	1.2	30	15.6	34	28	10	2	19	6.6	
GALVESTON U	2			13.7	7.6	10.6	- 2.1	21.7	18	- 2.2	12	0	3			81	- 7	29	16		64	51			19.2	W	3					41
HOUSTON INTERCON	29	1016.6	1020.3	14.3	2.8	8.6	- 2.2	25.6	18	- 7.2	12	0	9	5.0	82	127	27	29	15	3	51	51	0.8	36	13.0	33	28	8	4	19	7.1	40
LUBBOCK	992	904.2	1018.2	7.6	- 4.4	1.6	- 2.4	20.0	19	-17.8	11	0	26	- 4.4	73	37	19	15	9	1	239	102	1.2	29	18.3	35	27	10	4	17	6.1	58
MIDLAND	869	917.7	1018.3	9.6	- 2.0	3.8	- 2.8	21.1	17	-11.1	11	0	21	- 2.8	73	24	3	11	11	1	74	25	0.9	32	16.5	26	31	13	3	15	5.5	
PORT ARTHUR	5	1019.3		13.8	3.4	8.6	- 3.4	24.4	18	- 6.7	12	0	9	5.6	86	121	13	26	15	2	76	76	0.9	4	15.2	SE	20	10	5	18	6.6	42
SAN ANGELO	580	951.2	1019.6	11.1	- 1.1	5.0	- 3.3	23.9	20+	-12.8	12	0	20	- 0.6	74	47	23	20	10	1	196	127	0.9	27	14.3	27	20	12	5	14	5.7	
SAN ANTONIO	240	991.5	1020.1	14.9	1.9	8.4	- 2.7	26.7	20	- 7.8	12	0	13	1.7	68	70	26	27	13	1	20	25	1.5	35	15.6	NW	28	12	2	17	5.8	52
VICTORIA	32	1015.6	1019.5	15.4	4.1	9.8	- 3.2	26.7	18	- 6.1	12	0	8	5.0	77	61	2	19	11	1	30	25	1.7	1	21.5Y	S	31	7	5	19	7.0	
WACO	153	1001.7	1020.2	10.6	0.8	5.7	- 3.2	23.9	20	-15.6	12	0	15	1.1	76	88	31	39	13	2	66	76	1.1	30	13.4	33	28	10	6	15	6.3	
WICHITA FALLS	303			8.3	- 2.0	3.2	- 2.8	21.1	19+	-12.8	12	0	20			70	41	26	8	2	79	25			15.6	32	27+	7	11	13	6.2	
UTAH																																
MILFORD	1533	846.9		- 2.9	-16.8	- 9.8	- 5.7	3.3	18+	-30.6	7	0	31			18	4	10	7		241	406			17.0	NE	19	11	5	15	6.1	54
SALT LAKE CITY	1286	873.7	1023.7	- 1.6	-12.2	- 6.9	- 4.2	7.2	16	-25.0	4	0	29	-10.6	75	38	4	16	11	0	531	254	0.7	16	12.5	S	18	6	4	21	7.4	44
WENDOVER	1291	873.0	1023.5	- 1.7	- 8.8	- 5.2	- 2.4	8.9	17	-15.6	7	0	31	- 8.3	82	4	- 4	1	9		81	25						7	9	15	6.5	
VERMONT																																
BURLINGTON	101	1003.1	1016.0	- 1.4	-10.3	- 5.8	2.9	11.1	19	-27.2	31	0	27	-10.6	71	54	5	29	12	0	290	127	1.1	25	14.3	N	20	4	5	22	7.7	46
VIRGINIA																																
LYNCHBURG	279			8.1	- 3.7	2.2	- 0.9	19.4	17	-15.6	9	0	23			77	- 6	26	9		58	51			10.7	W	23	10	7	14	6.1	58
NORFOLK	7	1019.0	1020.1	9.2	0.3	4.7	- 0.4	21.1	19	-11.1	9	0	14	- 2.2	62	65	- 20	20	12	1	231	203	1.4	32	14.8	25	19	9	6	16	6.4	61
RICHMOND	50	1013.5	1020.1	9.5	- 3.3	3.1	- 0.6	22.2	1	-15.0	10	0	22	- 3.3	66	68	- 20	21	11	1	109	102	0.4	30	11.2	NW	29	7	11	13	6.4	57
ROANOKE	350	977.0	1020.2	8.5	- 2.7	2.9	- 0.4	18.9	18+	-13.3	9	0	23	- 6.1	54	66	- 13	19	8	0	61	51	2.3	30	10.7	30	29	8	8	15	6.3	
WALLOPS ISLAND	3			7.0	- 1.2	2.9		20.6	1	- 8.9	10+	0	19			68		35	9		58	51			20.1Y	SSE	22					
WASHINGTON																																
OLYMPIA	59	1008.5	1016.0	6.4	- 1.4	2.5	- 0.9	14.4	14	-13.9	7	0	17	- 1.1	79	144	- 56	45	19	1	74	25	1.7	19	12.5	20	20	4	2	25	8.3	
QUILLAYUTE	55	1006.4	1013.9	6.7	1.0	3.9	0.2	11.7	18	-10.0	7	0	11	0.6	81	439	51	63	23	0	30	25	1.8	13	13.0	SE	15	6	1	24	8.1	20
SEATTLE-TACOMA	122	999.0	1015.8	6.4	1.1	3.7	0.2	13.9	14	- 9.4	6	0	9	- 2.8	64	109	- 37	33	18	0	69	51	1.7	14	14.8	SW	24	4	7	20	7.9	23
SEATTLE	6			7.4	0.9	4.2	- 0.9	14.4	14	- 8.9	8	0	11			117	- 12	22	18		94	102			15.6	19	18					
SPOKANE	718	932.3	1018.7	0.7	- 6.3	- 2.8	0.9	10.6	15	-18.9	7	0	27	- 6.7	75	52	- 10	12	14	0	165	102	1.0	15	14.3	SW	1	8	7	16	6.5	53

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

JANUARY 1973

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Ice pellets: Total	Snow, Ice pellets: Maximum depth on ground	Wind: Resultant speed	Wind: Resultant direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
WASHINGTON																																
STAMPEDE PASS R	1206	876.1		-3.7	-7.6	-5.7	-0.9	6.1	14	-18.3	7	0	30			202	-103	60	22		1110	1600						4	4	23	7.7	
WALLA WALLA U	289			4.7	-3.2	0.8	0.1	19.4	15	-17.8	8	0	19			25	-23	9	12		130	76			13.9	S	18	4	5	22	8.0	45
YAKIMA	321	980.0	1020.0	2.2	-7.1	-2.4	0.1	8.9	1	-17.8	8+	0	31	-6.1	77	30	0	12	7	0	221	102	1.4	30	11.2	30	1	5	3	23	7.7	
WEST INDIES																																
SAN JUAN P.R.	4	1015.2	1017.6	29.0	23.1	26.1	2.5	30.6	24+	21.7	12+	0	0	20.0	71	58	-62	16	16	0	0	0	3.1	10	11.2	NE	27	8	19	4	4.8	49
WEST VIRGINIA																																
BECKLEY	763	928.9	1020.6	4.5	-5.3	-0.4	1.3	17.8	18	-16.1	10	0	24	-6.1	68	44	-48	14	12	0	140	76	1.8	24	17.9	13	21	6	6	19	7.1	
CHARLESTON	286	985.4	1020.7	6.9	-4.3	1.3	1.3	19.4	22+	-15.0	9	0	23	-6.1	62	39	-71	10	12	1	86	25	1.3	25	11.2	23	22	7	5	19	7.2	
ELKINS	594	947.2		5.6	-7.5	-0.9	1.2	18.9	22	-17.8	9	0	26			52	-40	18	13		117	25						4	7	20	7.5	
HUNTINGTON	252	989.8	1021.1	6.2	-3.8	1.2	1.3	20.0	18	-15.0	12	0	22	-5.0	65	38	-55	15	11	0	66	25	1.3	23	10.3	24	23+	5	5	21	7.6	
PARKERSBURG U	187			5.3	-4.2	0.6	0.8	17.2	22+	-12.2	30+	0	25			56	-28	17	9		81	51			13.0	W	22					50
WISCONSIN																																
GREEN BAY	208	990.9	1017.4	-1.9	-10.1	-6.0	2.4	8.9	18	-25.0	6	0	29	-10.0	73	47	18	18	8	0	173	152	2.3	25	13.4	W	1	10	6	15	6.3	53
LA CROSSE	198	993.9	1019.5	-2.1	-11.2	-6.6	2.0	11.1	26	-30.0	6	0	30	-10.6	77	22	-9		5	0	185		0.5	23								
MADISON	262	985.4	1018.1	-0.4	-9.1	-4.8	3.3	11.7	26+	-22.2	6	0	28	-8.3	77	39	4	19	10	0	48	25	1.8	25	13.0	N	28	8	3	20	6.7	49
MILWAUKEE	205	991.9	1017.9	-0.4	-7.7	-4.1	2.3	11.1	26+	-20.0	6+	0	27	-8.3	74	28	-18	13	7	0	5	T	3.0	26	15.2	NW	28	8	4	19	6.8	53
WYOMING																																
CASPER	1627	835.8	1020.4	-2.2	-12.0	-7.1	2.3	10.0	15	-31.1	9	0	28	-12.2	66	16	2	8	9	0	244	102	5.7	22	17.9	21	16	5	7	19	7.0	
CHEYENNE	1867	808.7	1018.6	0.9	-10.1	-4.6	0.9	13.9	15	-25.0	9+	0	28	-13.3	54	6	-7	3	7	0	117	51	4.0	30	20.6	NW	27	9	9	13	5.9	57
LANDER	1696	827.6	1024.2	-6.7	-18.4	-12.6	5.5	7.2	14	-32.2	5	0	31	-17.2	71	23	11	12	7	0	653	508	0.6	22	7.6	N	3	8	6	17	6.5	57
SHERIDAN	1208	877.8	1020.4	0.3	-13.3	-6.5	0.6	14.4	15	-33.3	8	0	30			9	-7	6	7	0	198	178	1.6	29	12.1	NW	21+	8	6	17	6.5	62

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day - data may include precipitation with a measurable amount from the last day of the previous month or the first day of the following month.

Wind directions under resultant direction are in tens of degrees.

Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed when the direction is in tens of degrees. These stations are not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

B Number of days maximum 21.1°C. or above for Alaskan Stations.
Y Peak Gust.
\+ And also on an earlier date or dates.
Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

HEATING DEGREE DAYS

(Base 65°F.)

JANUARY 1973

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
ALABAMA			
BIRMINGHAM	749	1913	1609
HUNTSVILLE	767	2077	1922
MOBILE	442	1067	1099
MONTGOMERY	575	1417	1468
ALASKA			
ANCHORAGE	1925	6930	6429
ANNETTE	981	4072	3930
BARROW	2436	10241	11028
BARTER ISLAND	2397	10399	10796
BETHEL	2149	7351	7570
BETTLES	2783	9503	
BIG DELTA	2528	8482	
COLD BAY	1295	5511	5389
FAIRBANKS	2582	8574	8794
GULKANA	2490	8947	
HOMER	1645	6156	
JUNEAU	1423	5450	5140
KING SALMON	1962	6728	6552
KODIAK	1309	5347	5772
KOTZEBUE	2324	8249	8846
MC GRATH	2585	8442	8680
NOME	2180	7548	7918
ST. PAUL ISLAND	1292	6057	6006
SHEMYA	1098	5319	5300
SUMMIT	2276	8652	
TALKEETNA	2103	7405	6925
UNALAKLEET	2234	7523	
YAKUTAT	1381	5510	5124
ARIZONA			
FLAGSTAFF	1297	4607	3982
PHOENIX	422	1060	1145
TUCSON	533	1476	1133
WINSLOW	1014	2905	3024
YUMA	355	859	830
ARKANSAS			
FORT SMITH	873	2599	2074
LITTLE ROCK	777	2193	2073
CALIFORNIA			
BAKERSFIELD	521	1599	1367
BISHOP	1028	2992	2537
BLUE CANYON	1001	3503	2761
EUREKA U	542	2539	2573
FRESNO	610	1897	1561
LONG BEACH	352	886	871
LOS ANGELES	314	715	906
LOS ANGELES U	266	607	708
MT SHASTA R	1022	3668	3169
OAKLAND	547	1700	1592
RED BLUFF	693	2076	1531
SACRAMENTO	636	1957	1647
SANDBERG R	885	2876	2181
SAN DIEGO	286	688	745
SAN FRANCISCO	521	1796	1638
SAN FRANCISCO U	455	1807	1648
SANTA MARIA	542	1772	1554
STOCKTON	602	1863	1658
COLORADO			
ALAMOSA	1839	5898	5043
COLORADO SPRINGS	1221	4238	3607
DENVER	1162	3922	3546
GRAND JUNCTION	1651	4152	3451
PUEBLO	1093	3790	3201
CONNECTICUT			
BRIDGEPORT	1066	3147	3053
HARTFORD	1097	3524	3516
DIST.OF COLUMBIA			
WASHINGTON DULLES	964	2895	
WASHINGTON NATIONAL	843	2326	2474
DELAWARE			
WILMINGTON	902	2580	2816
FLORIDA			
APALACHICOLA U	310	725	935
DAYTONA BEACH	226	427	534
FORT MYERS	94	201	279
JACKSONVILLE	351	734	798
KEY WEST	16	24	68
LAKELAND U	172	378	416
MIAMI	41	74	139
ORLANDO	160	319	490
PENSACOLA	390	945	967
TALLAHASSEE	409	925	961
TAMPA	166	361	433
WEST PALM BEACH	56	98	158
GEORGIA			
ATHENS	669	1677	1806
ATLANTA	725	1840	1824
AUGUSTA	613	1460	1512
COLUMBUS	572	1293	1515
MACON	562	1264	1375
ROME	794	2019	2070
SAVANNAH	462	987	1167
IDAHO			
BOISE	1056	3692	3469
LEWISTON	1007	3436	3278
POCATELLO	1394	4546	4055
ILLINOIS			
CAIRO U	882	2587	2360
CHICAGO MIDWAY	1118	3734	3482
CHICAGO O HARE	1135	3830	3748
MOLINE	1170	3867	3712
PEORIA	1161	3863	3509
ROCKFORD	1193	4029	3920
SPRINGFIELD	1089	3512	3217
INDIANA			
EVANSVILLE	997	3026	2743
FORT WAYNE	1102	3600	3588
INDIANAPOLIS	1059	3284	3293
SOUTH BEND	1080	3635	3612
IOWA			
BURLINGTON	1190	3878	3577
DES MOINES	1326	4345	3937
DUBUQUE	1311	4511	4262
SIOUX CITY	1342	4268	4028
WATERLOO	1428	4662	4262
KANSAS			
CONCORDIA	1171	3711	3224
DODGE CITY	1122	3538	2940
GOODLAND	1177	4135	3517
TOPEKA	1158	3480	3101
WICHITA	1159	3399	2808
KENTUCKY			
COVINGTON	1025	3082	3053
LEXINGTON	920	2668	2750
LOUISVILLE	927	2662	2731
LOUISIANA			
ALEXANDRIA	633	1621	1231
BATON ROUGE	479	1088	1025
LAKE CHARLES	498	1251	951
NEW ORLEANS	447	1082	896
SHREVEPORT	621	1735	1373
MAINE			
CARIBOU	1711	5960	5480
PORTLAND	1292	4326	4129
MARYLAND			
BALTIMORE	935	2718	2738
MASSACHUSETTS			
BLUE HILL OBS R	1101	3620	3464
BOSTON	1033	3154	3059
WORCESTER	1200	4099	3854
MICHIGAN			
ALPENA	1306	4670	4610
DETROIT	1085	3519	3454
DETROIT METRO	1115	3737	3620
FLINT	1116	3856	3806
GRAND RAPIDS	1162	3986	3885
HOUGHTON LAKE	1324	4710	4574
LANSING	1158	4129	3835
MARQUETTE U	1323	4878	4522
MUSKEGON	1147	3828	3619
SAULT STE MARIE	1414	5115	4903
MINNESOTA			
DULUTH	1654	6135	5599
INTERNATIONAL FALLS	1720	6120	6126
MINNEAPOLIS	1474	5067	4846
ROCHESTER	1525	5197	4755
ST CLOUD	1624	5586	5116
MISSISSIPPI			
JACKSON	634	1575	1398
MERIDIAN	602	1521	1481
MISSOURI			
COLUMBIA REGIONAL	1080	3374	3072
KANSAS CITY	1160	3459	3068
ST JOSEPH	1194	3649	3270
ST LOUIS	997	3165	2900
SPRINGFIELD	981	3052	2718
MONTANA			
BILLINGS	1296	4744	4022
GLASGOW	1452	5347	5237
GREAT FALLS	1240	4685	4321
HAVRE	1273	5039	4998
HELENA	1465	5464	4690
KALISPELL	1410	5157	4785
MILES CITY	1379	4918	4460
MISSOULA	1343	4903	4804
NEBRASKA			
GRAND ISLAND	1273	4181	3815
LINCOLN	1281	4099	3736
NORFOLK	1353	4416	4036
NORTH PLATTE	1343	4644	3891
OMAHA	1307	4102	3670
SCOTTSBLUFF	1249	4361	3892
VALENTINE	1356	4724	4253
NEVADA			
ELKO	1386	4725	4264
ELY	1379	4803	4328
LAS VEGAS	744	2032	1770
RENO	1127	3945	3724
WINNEMUCCA	1184	4196	3919
NEW HAMPSHIRE			
CONCORD	1357	4675	4158
MT WASHINGTON OBS	1830	7819	7709
NEW JERSEY			
ATLANTIC CITY	885	2639	2655
ATLANTIC CITY U	796	2360	2502
NEWARK	906	2659	2856
TRENTON U	925	2750	2810
NEW MEXICO			
ALBUQUERQUE	1020	2946	2681
CLAYTON	1025	3470	2966
ROSWELL	800	2474	2106
NEW YORK			
ALBANY	1168	3969	3879
BINGHAMTON	1210	4172	4030
BUFFALO	1152	3802	3826
NEW YORK U	907	2712	2691
NEW YORK KENNEDY	876	2499	2810
NEW YORK LA GUARDIA	920	2816	2638
ROCHESTER	1118	3590	3687
SYRACUSE	1128	3711	3749
NORTH CAROLINA			
ASHEVILLE	846	2344	2670
CAPE HATTERAS R	578	1231	1452
CHARLOTTE	780	2032	1950
GREENSBORO	889	2417	2300
RALEIGH	790	2117	2078
WILMINGTON	567	1346	1432
NORTH DAKOTA			
BISMARCK	1528	5466	5115
FARGO	1688	5696	5323
WILLISTON	1488	5651	5329
OHIO			
AKRON	1082	3337	3420
CINCINNATI ABBE OB	969	2943	2805
CLEVELAND	1067	3395	3397
COLUMBUS	1041	3247	3278
DAYTON	1038	3303	3232
MANSFIELD	1078	3393	3283
TOLEDO	1135	3759	3669
YOUNGSTOWN	1157	3795	3601
OKLAHOMA			
OKLAHOMA CITY	975	2803	2311
TULSA	954	2754	2378
OREGON			
ASTORIA	755	2873	2854
BURNS U	1211	4463	4000
EUGENE	825	2982	2670
MEACHAM	1268	4853	4294
MEDFORD	835	3041	2917
PENDLETON	1036	3465	3073
PORTLAND	799	2676	2659
SALEM	803	3043	2662
SEXTON SUMMIT R	999	3734	3274
PENNSYLVANIA			
ALLENTOWN	1055	3321	3297
ERIE	1090	3678	3733
HARRISBURG	964	2936	3046
PHILADELPHIA	940	2750	2950
PITTSBURGH	1087	3309	3397
SCRANTON	1124	3741	3607
WILLIAMSPORT	1125	3564	3407
RHODE ISLAND			
BLOCK ISLAND	984	2898	2917
PROVIDENCE	1044	3261	3277
SOUTH CAROLINA			
CHARLESTON	520	1123	1299
CHARLESTON U	475	1010	1112
COLUMBIA	618	1489	1576
GRNVLLE-SPRTNBRG	734	1922	1878
SOUTH DAKOTA			
ABERDEEN	1484	5073	4941
HURON	1428	4811	4768
RAPID CITY	1181	4586	4082
SIOUX FALLS	1440	4876	4551
TENNESSEE			
BRISTOL	898	2408	2516
CHATTANOOGA	890	2394	2049
KNOXVILLE	828	2232	2147
MEMPHIS	809	2342	2022
NASHVILLE	830	2223	2193
OAK RIDGE R	848	2277	2312
TEXAS			
ABILENE	844	2271	1693
AMARILLO	972	3129	2467
AUSTIN	586	1520	1112
BROWNSVILLE	339	700	420
CORPUS CHRISTI	415	906	631
DALLAS	682	1861	1508
DEL RIO	531	1264	1081
EL PASO	679	1812	1831
FORT WORTH	690	1879	1539
GALVESTON U	424	961	758
HOUSTON INTERCON	540	1322	1075
LUBBOCK	928	2676	2249
MIDLAND	804	2192	1711
PORT ARTHUR	532	1319	942
SAN ANGELO	738	1853	1489
SAN ANTONIO	551	1371	1026
VICTORIA	476	1130	770
WACO	696	1853	1305
WICHITA FALLS	839	2382	1810
UTAH			
MILFORD	1570	4599	3802
SALT LAKE CITY	1400	3925	3603
WENDOVER	1308	3927	3511
VERMONT			
BURLINGTON	1344	4637	4592
VIRGINIA			
LYNCHBURG	893	2489	2485
NORFOLK	752	1845	1980
RICHMOND	843	2246	2344
ROANOKE	852	2497	2488
WALLOPS ISLAND	855	2199	
WASHINGTON			
OLYMPIA	874	3453	2982
QUILLAYUTE	800	3431	3158
SEATTLE-TACOMA	807	3006	2882
SEATTLE	783	2829	2515
SPOKANE	1171	4076	3887
STAMPEDE PASS R	1334	5357	5131
WALLA WALLA U	972	3205	2907
YAKIMA	1153	3830	3636
WEST VIRGINIA			
BECKLEY	1036	3143	3131
CHARLESTON	945	2698	2653
ELKINS	1068	3229	3298
HUNTINGTON	950	2824	2641
PARKERSBURG U	981	2799	2777
WISCONSIN			
GREEN BAY	1350	4591	4487
LA CROSSE	1389	4611	4388
MADISON	1279	4520	4446
MILWAUKEE	1242	4221	4239
WYOMING			
CASPER	1415	4902	4139
CHEYENNE	1275	4696	4056
LANDER	1720	5442	4520
SHERIDAN	1380	4883	4317

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

COOLING DEGREE DAYS

(Base 65°F.)

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
ALABAMA			
BIRMINGHAM	0	0	
HUNTSVILLE	0	0	
MOBILE	0	0	
MONTGOMERY	0	0	
ALASKA			
ANCHORAGE	0	0	
ANNETTE	0	0	
BARROW	0	0	
BARTER ISLAND	0	0	
BETHEL	0	0	
BETTLES	0	0	
BIG DELTA	0	0	
COLD BAY	0	0	
FAIRBANKS	0	0	
GULKANA	0	0	
HOMER	0	0	
JUNEAU	0	0	
KING SALMON	0	0	
KODIAK	0	0	
KOTZEBUE	0	0	
MC GRATH	0	0	
NOME	0	0	
ST. PAUL ISLAND	0	0	
SHEMYA	0	0	
SUMMIT	0	0	
TALKEETNA	0	0	
UNALAKLEET	0	0	
YAKUTAT	0	0	
ARIZONA			
FLAGSTAFF	0	0	
PHOENIX	0	0	
TUCSON	0	0	
WINSLOW	0	0	
YUMA	0	0	
ARKANSAS			
FORT SMITH	0	0	
LITTLE ROCK	0	0	
CALIFORNIA			
BAKERSFIELD	0	0	
BISHOP	0	0	
BLUE CANYON	0	0	
EUREKA U	0	0	
FRESNO	0	0	
LONG BEACH	0	0	
LOS ANGELES	1	1	
LOS ANGELES U	9	9	
MT SHASTA R	0	0	
OAKLAND	0	0	
RED BLUFF	0	0	
SACRAMENTO	0	0	
SANDBERG R	0	0	
SAN DIEGO	0	0	
SAN FRANCISCO	0	0	
SAN FRANCISCO U	0	0	
SANTA MARIA	0	0	
STOCKTON	0	0	
COLORADO			
ALAMOSA	0	0	
COLORADO SPRINGS	0	0	
DENVER	0	0	
GRAND JUNCTION	0	0	
PUEBLO	0	0	
CONNECTICUT			
BRIDGEPORT	0	0	
HARTFORD	0	0	
DELAWARE			
WILMINGTON	0	0	
DIST.OF COLUMBIA			
WASHINGTON DULLES	0	0	
WASHINGTON NATIONAL	0	0	
FLORIDA			
APALACHICOLA U	7	7	
DAYTONA BEACH	45	45	
FORT MYERS	131	131	
JACKSONVILLE	23	23	
KEY WEST	249	249	
LAKELAND U	70	70	
MIAMI	212	212	
ORLANDO	88	88	
PENSACOLA	0	0	
TALLAHASSEE	15	15	
TAMPA	75	75	
WEST PALM BEACH	177	177	
GEORGIA			
ATHENS	0	0	
ATLANTA	0	0	
AUGUSTA	0	0	
COLUMBUS	0	0	
MACON	0	0	
ROME	0	0	
SAVANNAH	0	0	

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
HAWAII			
HILO	233	233	
HONOLULU	252	252	
KAHULUI	160	160	
LIHUE	191	191	
IDAHO			
BOISE	0	0	
LEWISTON	0	0	
POCATELLO	0	0	
ILLINOIS			
CAIRO U	0	0	
CHICAGO O HARE	0	0	
CHICAGO MIDWAY	0	0	
MOLINE	0	0	
PEORIA	0	0	
ROCKFORD	0	0	
SPRINGFIELD	0	0	
INDIANA			
EVANSVILLE	0	0	
FORT WAYNE	0	0	
INDIANAPOLIS	0	0	
SOUTH BEND	0	0	
IOWA			
BURLINGTON	0	0	
DES MOINES	0	0	
DUBUQUE	0	0	
SIOUX CITY	0	0	
WATERLOO	0	0	
KANSAS			
CONCORDIA	0	0	
DODGE CITY	0	0	
GOODLAND	0	0	
TOPEKA	0	0	
WICHITA	0	0	
KENTUCKY			
COVINGTON	0	0	
LEXINGTON	0	0	
LOUISVILLE	0	0	
LOUISIANA			
ALEXANDRIA	0	0	
BATON ROUGE	0	0	
LAKE CHARLES	0	0	
NEW ORLEANS	0	0	
SHREVEPORT	0	0	
MAINE			
CARIBOU	0	0	
PORTLAND	0	0	
MARYLAND			
BALTIMORE	0	0	
MASSACHUSETTS			
BLUE HILL OBS R	0	0	
BOSTON	0	0	
WORCESTER	0	0	
MICHIGAN			
ALPENA	0	0	
DETROIT	0	0	
DETROIT METRO.	0	0	
FLINT	0	0	
GRAND RAPIDS	0	0	
HOUGHTON LAKE	0	0	
LANSING	0	0	
MARQUETTE U	0	0	
MUSKEGON	0	0	
SAULT STE MARIE	0	0	
MINNESOTA			
DULUTH	0	0	
INTERNATIONAL FALLS	0	0	
MINNEAPOLIS	0	0	
ROCHESTER	0	0	
ST CLOUD	0	0	
MISSISSIPPI			
JACKSON	1	1	
MERIDIAN	0	0	
MISSOURI			
COLUMBIA REGIONAL	0	0	
KANSAS CITY	0	0	
ST JOSEPH	0	0	
ST LOUIS	0	0	
SPRINGFIELD	0	0	
MONTANA			
BILLINGS	0	0	
GLASGOW	0	0	
GREAT FALLS	0	0	
HAVRE	0	0	
HELENA	0	0	
KALISPELL	0	0	
MILES CITY	0	0	
MISSOULA	0	0	

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
NEBRASKA			
GRAND ISLAND	0	0	
LINCOLN	0	0	
NORFOLK	0	0	
NORTH PLATTE	0	0	
OMAHA	0	0	
SCOTTSBLUFF	0	0	
VALENTINE	0	0	
NEVADA			
ELKO	0	0	
ELY	0	0	
LAS VEGAS	0	0	
RENO	0	0	
WINNEMUCCA	0	0	
NEW HAMPSHIRE			
CONCORD	0	0	
MT WASHINGTON OBS	0	0	
NEW JERSEY			
ATLANTIC CITY	0	0	
ATLANTIC CITY U	0	0	
NEWARK	0	0	
TRENTON U	0	0	
NEW MEXICO			
ALBUQUERQUE	0	0	
CLAYTON	0	0	
ROSWELL	0	0	
NEW YORK			
ALBANY	0	0	
BINGHAMTON	0	0	
BUFFALO	0	0	
NEW YORK U	0	0	
NEW YORK KENNEDY	0	0	
NEW YORK LA GUARDIA	0	0	
ROCHESTER	0	0	
SYRACUSE	0	0	
NORTH CAROLINA			
ASHEVILLE	0	0	
CAPE HATTERAS R	0	0	
CHARLOTTE	0	0	
GREENSBORO	0	0	
RALEIGH	0	0	
WILMINGTON	1	1	
NORTH DAKOTA			
BISMARCK	0	0	
FARGO	0	0	
WILLISTON	0	0	
OHIO			
AKRON	0	0	
CINCINNATI ABBE OB.	0	0	
CLEVELAND	0	0	
COLUMBUS	0	0	
DAYTON	0	0	
MANSFIELD	0	0	
TOLEDO	0	0	
YOUNGSTOWN	0	0	
OKLAHOMA			
OKLAHOMA CITY	0	0	
TULSA	0	0	
OREGON			
ASTORIA	0	0	
BURNS U	0	0	
EUGENE	0	0	
MEACHAM	0	0	
MEDFORD	0	0	
PENDLETON	0	0	
PORTLAND	0	0	
SALEM	0	0	
SEXTON SUMMIT R	0	0	
PACIFIC AREA			
GUAM TAGUAC R	331	331	
JOHNSTON	330	330	
KOROR R	506	506	
KWAJALEIN	509	509	
MAJURO	498	498	
PAGO PAGO	525	525	
PONAPE R	504	504	
TRUK MOEN ISLAND	520	520	
WAKE	367	367	
YAP R	461	461	
PENNSYLVANIA			
ALLENTOWN	0	0	
ERIE	0	0	
HARRISBURG	0	0	
PHILADELPHIA	0	0	
PITTSBURGH	0	0	
SCRANTON	0	0	
WILLIAMSPORT	0	0	
RHODE ISLAND			
BLOCK ISLAND	0	0	
PROVIDENCE	0	0	

State and station	Current season: This month	Current season: Period January through this month	Normals January through this month
SOUTH CAROLINA			
CHARLESTON	1	1	
CHARLESTON	0	0	
COLUMBIA	0	0	
GRNVLLE-SPRTNBRG	0	0	
SOUTH DAKOTA			
ABERDEEN	0	0	
HURON	0	0	
RAPID CITY	0	0	
SIOUX FALLS	0	0	
TENNESSEE			
BRISTOL	0	0	
CHATTANOOGA	0	0	
KNOXVILLE	0	0	
MEMPHIS	0	0	
NASHVILLE	0	0	
OAK RIDGE R	0	0	
TEXAS			
ABILENE	0	0	
AMARILLO	0	0	
AUSTIN	1	1	
BROWNSVILLE	19	19	
CORPUS CHRISTI	13	13	
DALLAS	0	0	
DEL RIO	0	0	
EL PASO	0	0	
FORT WORTH	1	1	
GALVESTON U	1	1	
HOUSTON INTERCON	1	1	
LUBBOCK	0	0	
MIDLAND	0	0	
PORT ARTHUR	0	0	
SAN ANGELO	0	0	
SAN ANTONIO	8	8	
VICTORIA	3	3	
WACO	0	0	
WICHITA FALLS	0	0	
UTAH			
MILFORD	0	0	
SALT LAKE CITY	0	0	
WENDOVER	0	0	
VERMONT			
BURLINGTON	0	0	
VIRGINIA			
LYNCHBURG	0	0	
NORFOLK	0	0	
RICHMOND	0	0	
ROANOKE	0	0	
WALLOPS ISLAND	0	0	
WASHINGTON			
OLYMPIA	0	0	
QUILLAYUTE	0	0	
SEATTLE-TACOMA	0	0	
SEATTLE	0	0	
SPOKANE	0	0	
STAMPEDE PASS R	0	0	
WALLA WALLA U	0	0	
YAKIMA	0	0	
WEST INDIES			
SAN JUAN P.R.	438	438	
WEST VIRGINIA			
BECKLEY	0	0	
CHARLESTON	0	0	
ELKINS	0	0	
HUNTINGTON	0	0	
PARKERSBURG U	0	0	
WISCONSIN			
GREEN BAY	0	0	
LA CROSSE	0	0	
MADISON	0	0	
MILWAUKEE	0	0	
WYOMING			
CASPER	0	0	
CHEYENNE	0	0	
LANDER	0	0	
SHERIDAN	0	0	

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

JANUARY 1973

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				‡ HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				Ø ALL OTHER			
								† DAMAGE				† DAMAGE				† DAMAGE				† DAMAGE				† DAMAGE				† DAMAGE	
	NUMBER	DAYS	DEATHS	INJURIES	† DAMAGE	DEATHS	INJURIES	PROP-ERTY	CROPS	DEATHS	INJURIES	PROP-ERTY	CROPS	DEATHS	INJURIES	PROP-ERTY	CROPS	DEATHS	INJURIES	PROP-ERTY	CROPS	DEATHS	INJURIES	PROP-ERTY	CROPS	DEATHS	INJURIES	PROP-ERTY	CROPS
Alabama	1	1			4						2	3										1	?	°7	C				
Alaska																													
Arizona*																								4	5				
Arkansas	1	1			2							5														1	1	7	6
California																													
Colorado*												4								4				4					
Connecticut																													
Delaware*																													
Florida	8	4		32	6							4				4						2	?	7					
Georgia																													
Hawaii*																													
Idaho																				3								5	
Illinois	1	1			?																							6	
Indiana*																				6				6					
Iowa																													
Kansas																		1		4				5					
Kentucky*											4	4								6	5			6	6				
Louisiana	3	2	1	6	5						1	4								4									
Maine																													
Maryland*																													
Massachusetts											2	5								4								4	
Michigan																										3		4	
Minnesota*																													
Mississippi	2	1		8	5							?	2										1	6	?			?	
Missouri	2	1		2	5			4				5												7					
Montana*																													
Nebraska												?	?					1	?	?	?		?	?	?				
Nevada																										1			
New Hampshire												4								4									
New Jersey*																													
New Mexico																								°5	C				
New York												4																	
North Carolina												5						1	2	6	5			5	4				
North Dakota*																													
Ohio*																													
Oklahoma	1	1		4	5							4												7	?	3		5	
Oregon												5	3											5				°5	C
Pacific Area																													
Pennsylvania*																													
Puerto Rico*																													
Rhode Island*																													
South Carolina																				6	7								
South Dakota*												5				4				5				3				5	
Tennessee																				6	8								
Texas	14	3		4	6					1	5	4																	
Utah*																				4				4					
Vermont																													
U.S. Virgin Is.*																				4									
Virginia																													
Washington												6																	
West Virginia*																													
Wisconsin*																													
Wyoming*																													

° Includes crop damage.
C Crop damage.
* No occurrence of storms or unusual weather phenomena reported.
‡ Includes heavy sleet storm.
# Freezing drizzle and freezing rain, commonly known as glaze.
Ø For breakdown of "All Others," and for detailed listing of other storms, see the Environmental Data Service, NOAA, monthly publication STORM DATA.
† Storm damages are placed in categories varying from 1 to 9 as follows:
1 Less than $50
2 $50 to $500
3 $500 to $5,000
4 $5,000 to $50,000
5 $50,000 to $500,000
6 $500,000 to $5 Million
7 $5 Million to $50 Million
8 $50 Million to $500 Million
9 $500 Million to $5 Billion.

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS

JANUARY 1973

Elmer R. Nelson, Office of Hydrology

The most damaging floods in the nation during January occurred in the central Coastal Basins in California. Heavy flooding occurred along the lower Russian River in the Guerneville area. The heaviest damage occurred in portions of Marin County where water backed up into low-lying areas due to heavy runoff and high tides. Damage estimates range up to $10 million.

Date (January)	Flood Event	Lives Lost	Preliminary estimate of damage (thousands of dollars)
	Lake Michigan and Huron		
Dec. 30-4	Heavy snowmelt and excessive rains during the last week in December caused flooding and rises on some rivers in south-central and lower Michigan. Flood damage was confined to rural and low-lying land areas. Farm fields and crops were damaged. Rural and low-lying roads were damaged. Numerous basements of homes and buildings in low areas were flooded.	0	$20
	Lake Erie		
4	The high water on Lake Erie and the upper Niagara River caused some shore flooding. A section of Lake Shore Road, south of Hamburg, N.Y., was under water for a short period. The Niagara River flooded the scenic Niagara Parkway, between Fort Erie and Niagara Falls, Ontario, up to a depth of 1 foot. The Robert Moses Parkway near Niagara Falls, N.Y., was flooded at the North Grand Island bridge by the rising Niagara River.	0	NA
	Lake Michigan		
1-8	Rapid snowmelt and rain over New Year's weekend caused flooding on the Grand River at Ionia and Grand Rapids, Mich. This is the earliest flooding of the Grand River since records began in 1904 and 1905.	0	NA
	ATLANTIC SLOPE DRAINAGE		
29-30	Rain on the 27th-28th caused minor flooding on some small streams in New Jersey. The Millstone River at Blackwells Mills and Assunpink Creek at Trenton, N.J., crested nearly 3 feet above flood stage.	0	Minor
Dec. 17-1/	The Lumber River at Lumberton, N.C., continued above flood stage all month. A secondary crest on the 24th-25th was 2.2 feet above flood stage. The losses at Lumberton were due to persistent flooding.	0	4
	EAST GULF OF MEXICO DRAINAGE		
1-31	Heavy widespread rains on Dec. 31 brought higher stages and increased flows to Alabama and northwest Florida rivers during early January. Higher water levels and saturated soils were sustained through the first week of January by recurring periods of rainfall. Toward the close of the first week more rain brought rivers into flood	0	80

Date (January)	Flood Event	Lives Lost	Preliminary estimate of damage (thousands of dollars)
	EAST GULF OF MEXICO DRAINAGE-Cont'd. across western Alabama and northwest Florida. Moderate lowland flooding resulted on the Black Warrior River at Warrior Lock and Dam, Ala., on the 8th-13th. Moderate to severe lowland flooding accompanied the high water on the Tombigbee River as crests passed downstream. The total damages along the Tombigbee River were estimated at $735,000.		
Dec. 15-1/	Widespread lowland flooding occurred on farm and timber lands adjacent to the Pearl River in Mississippi and Louisiana. A crest of 30.4 feet was reached at Jackson, Miss., on the 12th. Levees contained most of the water, but there was some flooding in low areas of the city. Some residences in Byram, Miss., south of Jackson could only be reached by boat, but no one had to be evacuated.	0	$138
	MISSISSIPPI SYSTEM		
	Upper Mississippi Basin		
17-22	Much above normal temperatures on the 13th-31st caused snowmelt rises and minor flooding on the Whitewater River in Minnesota and the upper Iowa River in Iowa. Ice jams on the Root River caused 1.5 to 3.5 feet of flooding at Houston and Hokah, Minn.	0	Minor
Dec. 31-Feb. 4	Much of the overflow of streams in Iowa, Illinois, and Wisconsin that began in late December froze and remained intact until Jan. 13. A warming trend at that time caused fluctuations in the river levels to above flood stage due to ice action. Precipitation at the same time caused rapid rises and some local flash flooding.	0	NA
11-16	A combination of ice jams and precipitation caused a rapid rise and flooding on the Fox River, a tributary of the Illinois. In the Elgin, Ill., area, flooding of the Richardson subdivision caused 20 families to be evacuated from their homes. Urban damage occurred in Montgomery and Algonquin Counties in the Chicago, Ill., area.	0	NA
	Missouri Basin		
17-21	Unseasonably warm temperatures in northern Nebraska during the week of the 14th-20th caused a breakup of ice on rivers and streams and diminished the ice on reservoirs from 100 percent to 20 percent to 50 percent coverage. Several ice jams caused higher stages and minor flooding on the lower reaches of Turkey Creek in the Wilber, Neb., area.	0	Minor
11-20	Widespread flooding occurred along streams in	0	Minor

Date (January)	Flood Event	Lives Lost	Preliminary estimate of damage (thousands of dollars)
	MISSISSIPPI SYSTEM-Cont'd.		
	Missouri Basin - Continued		
	the northwestern quadrant of Missouri. The longest period of flooding was on the Missouri River at Rulo, Nebr., which was above flood stage between the 11th and 18th. Damage was minimal as the flooding was more local due to ice jams.		
	Ohio Basin		
2-12	Flooding in the Wabash Basin in Indiana was a continuation of the overflow that began in the upper Wabash during the latter part of December. All flooding was lowland agricultural. Due to the very late harvest, some crops remained in the fields and were a total loss.	0	$39
Dec. 11-29	Flooding along the mainstem of the lower Ohio River was a continuation of the flooding that began during mid-December. Damage, as in December, was mainly agricultural.	0	1,791
	White Basin		
Oct. 29-1/	The Cache River continued above flood stage at Patterson, Ark., for the third consecutive month. The Black River at Black Rock, Ark., was above flood stage most of January with the higher crest 19.5 feet (flood stage 14 feet) occurring on the 23d. The White River at St. Charles, Ark., was above flood stage the first 2 days and the last 3 days of the month. Efforts to complete harvesting of crops in areas that have flooded several times since harvesting began were further delayed.	0	Light
	Arkansas Basin		
3-5	Minor flooding occurred on Bird Creek in Oklahoma due to 1.5 inches of rain on the 3d. The runoff was heavy, as soil moisture was above normal.	0	Minor
21-Feb. 3	Two to 3 inches of rain on the 18th, 21st, and 22d produced up to 3.5 feet of overflow on streams in the basin. Streams remained above flood level from a few hours on the Spring River to 12 days on the Arkansas River at Van Buren, Ark.	0	Minor
	Red Basin		
24-1/	One to 3.5 inches of rain on the 20th and 21st, caused nearly 5 feet of overflow on the Ouachita River at Camden, Ark. Efforts to complete harvesting of crops in areas that have been flooded several times since harvesting began were further delayed.	0	Light

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

JANUARY 1973

Date (January)	Flood Event	Lives Lost	Preliminary estimate of damage (thousands of dollars)
	MISSISSIPPI SYSTEM		
	Lower Mississippi		
Dec. 16-1/	Widespread lowland flooding occurred on farm and timber lands adjacent to the Tallahatchie, Yazoo, and Big Black Rivers in Mississippi. The crests averaged about 9.5 feet above flood stage.	0	NA
21	Heavy rains (4.5 inches) in a short period of time on the 21st caused a breach in the levee on Big Sand Creek at Greenwood, Miss. A large section of the northeast portion of the city was inundated. Sixty-five families were evacuated.		
1-31	High water in the Mississippi River caused lowland flooding in the Long Lake area just north of Vicksburg, Miss. Some roads were inundated. Boats were used to get to some residences, no one was evacuated, although this condition prevailed most of the month. Three feet of overflow along the Mississippi River at Caruthersville, Mo., between Dec. 16 and Jan. 11 caused heavy crop damage.	0	NA
	PACIFIC SLOPE DRAINAGE		
	Central Coastal Basins		
11-13 16-17 18-19	Heavy flooding occurred along the lower Russian River in the Guerneville, Calif., area. Rainfall averaged 12 inches over the lower basin on the 8th-12th and over 11 inches on the 15th-18th. The Russian River was above flood stage at Summerhome for 93 hours and at Guerneville bridge for 70 hours. Damage was confined mostly to summer cabins. The heaviest damage occurred in parts of Marin County where water backed up into the low-lying areas due to heavy runoff and very high tides. Considerable damage also occurred in Santa Clara and San Mateo Counties, with the greatest amount reported along Colma Creek in northern San Mateo County. Estimates of damage range up to $10 million.	0	$5,000
	Columbia Basin		
10	Ice jammed the Lemhi River just above its confluence with the main Salmon River, flooding some homes in Salmon, Idaho. Water rose to 1.5 feet in the affected homes. One chicken ranch lost some 425 laying hens and the production of some 1,000 others of his laying brood.	0	NA
14	Ice jams caused flooding on Willow and Sand Creeks northeast of Idaho Falls, Idaho. Some basements along North Boulevard and Beacon Streets were flooded.	0	Minor

GENERAL SUMMARY OF NATIONAL FLOOD EVENTS-Continued

JANUARY 1973

Date (January)	Flood Event	Lives Lost	Preliminary estimate of damage (thousands of dollars)
	PACIFIC SLOPE DRAINAGE-Cont'd.		
	Columbia Basin - Cont'd.		
5-13	An ice jam caused the Portneuf River to overflow at Pocatello, Idaho. The river level rose over 2 feet above flood stage.	0	NA
16-17	Locally heavy rains on the 15th-17th caused the Weiser River to overflow near Weiser, Idaho.	0	NA
15-18	Near record high tides caused inundation of lowlands in numerous Oregon coastal estuaries. A high tide of 11.9 feet was reported at Astoria, Oreg., on the 16th which was 0.2 foot below the highest observed tide of 12.1 feet recorded on Dec. 17, 1933. The peak streamflows on rivers and creeks draining into these estuaries had passed by the time these tides were having their full effect.	0	$34
14-19	Heavy precipitation caused the Pudding River at Aurora, Oreg., to rise slightly over 1 foot above flood stage on the 15th.	0	2

1/ Flooding continued at the end of the month.
N.A. Not available.

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

River and station	Flood stage	Above flood stages -dates From—	Above flood stages -dates To—	Crest * Stage	Crest * Date
	Ft.			Ft.	
ST LAWRENCE DRAINAGE					
Lake Michigan					
Red Cedar:					
Williamston, Mich.	7	Dec 31	4	8.9	Dec 31
East Lansing, Mich.	7	Dec 31	3	8.1	1
Lake Huron					
Shawassee:					
Owosso, Mich.	7	Dec 30	1	8.3	Dec 31
Flint:					
Flint, Mich.	11	Dec 31	1	13.0	Dec 31
Cass:					
Vassar, Mich.	14	1	3	15.3	1
Saginaw, Mich.	19	2	4	19.3	3
Lake Erie					
St. Joseph:					
Montpelier, Ohio	10	Dec 31	7	11.5	2
Tiffin:					
Stryker, Ohio	11	1	6	11.5	4
ATLANTIC SLOPE DRAINAGE					
Millstone:					
Blackwells Mills, N.J.	7	29	30	9.9	29
Raritan:					
Manville, N.J.	12	29	29	12.2	29
Bound Brook, N.J.	8	29	29	9.15	29
Assunpink Creek:					
Nottingham Way, N.J.	5	29	29	7.7	29
Trenton, N.J.	M	29	29	6.1	29
Neshaminy Creek:					
Langhorne, Pa.	9	29	29	9.05	29
Roanoke:					
Williamston, N.C.	10	Dec 1	Mar 4	11.3 11.2	Dec 22 Feb 11-26
Neuse:					
Smithfield, N.C.	13	30	31	13.2	31
Goldsboro, N.C.	14	Dec 19	2	20.2	Dec 24-25
Kinston, N.C.	14	Dec 23	4	17.4	Dec 28-29
Cape Fear:					
William O. Huske,L&D, N.C.	42	30	31	43.5	31
Lock No 2, Elizabethtown, N.C.	20	30	31	21.9	31
Lumber:					
Lumberton, N.C.	9	Dec 17	1/	12.3 11.2	Dec 23 24
Little Pee Dee:					
Galivants Ferry, S.C.	9	20	Mar 25	11.4 11.7 10.0	Feb 11 Feb 18 Mar 11
Pee Dee:					
Peedee, S.C.	19	Dec 17 8 25	3 12 Feb 24	22.8 19.3 26.4	Dec 27 10 Feb 8
Broad:					
Blair, S.C.	14	23 28	23 29	14.9 15.0	23 28
Edisto:					
Givhans Ferry State Pk,S.C.	10	11	18	10.4	13
Savannah:					
Wade Plantation, Ga.	15	Dec 27	10	#15.9	1
Clyo, Ga.	11	Dec 27	27	#14.4	7
Ogeechee:					
Eden, Ga.	9	22	23	# 9.4	22-23
ATLANTIC SLOPE DRAINAGE-Cont'd.					
Ocmulgee:					
Macon, Ga.	18	9	10	#19.4	9-10
EAST GULF OF MEXICO DRAINAGE					
Choctawhatchee:					
Caryville, Fla.	12	4	6	#12.6	5
Alabama:					
Millers Ferry L&D, Ala.	66	10	12	#68.1	11
Black Warrior:					
Bankhead L&D, Ala.	14	1 4 6 22	2 4 9 22	#14.6 #14.6 #17.1 #14.1	1,2 4 7 22
Warrior L&D, Ala.	30	8	13	#34.8	11
Tombigbee:					
Amory, Miss.	20	4	11	23.8	8
Columbus, Miss.	29	8	14	32.4	10
Gainesville, Ala.	36	9	18	#44.0	14
Demopolis L&D, Ala.	48	9	17	#54.6	13
Coffeeville L&D, Ala.	43	9	31	#49.5	16
Pearl:					
Edinburg, Miss.	20	8	15	22.5	11
Carthage, Miss.	17	5	17	20.6	9
Ofahoma, Miss.	14	4	14	16.6	8
Jackson, Miss.	18	Dec 15 24	21 29	29.2 30.4 22.6	Dec 22 12 26
Monticello, Miss.	19	Dec 21	21	24.1 21.7	Dec 23 Jan 11
Bogalusa, La.	15	Dec 18	1/	19.7 19.3	Dec 26 Feb 19
Pearl River, La.	12	Dec 23	29	15.1	Dec 26
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Whitewater:					
Beaver, Minn.	5	17	20	6.55	18
Root:					
Houston, Minn.	15	18	20	16.4	19
Hokah, Minn.	47	18	22	50.3	19
Upper Iowa:					
Dorchester (nr), Iowa	14	18	19	14.9	18
Grant:					
Burton, Wis.	17	17	17	19.3	17
Turkey:					
Garber, Iowa	17	18	18	E23.5	18
Maquoketa:					
Maquoketa, Iowa	13	19	20	14.2	19
Wapsipinicon:					
DeWitt, Iowa	10	6 11 20	6 11 24	10.15 10.05 10.2	6 11 24
Pecatonica:					
Darlington, Wis.	11	19	19	11.9	19
Martintown, Wis.	11	Dec 30	8	15.3	4
Freeport, Ill.	13	Dec 31 24	7 24	14.2 13.1	1 24
Shirland, Ill.	12	1 23	9 23	14.2 12.0	4 23
Green:					
Geneseo, Ill.	8	Dec 30 4	1 4	11.3 8.8	Dec 30 4
Rock:					
Joslin, Ill.	12	Dec 31 22	9 31	14.85 13.0	2 29

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

River and station	Flood stage	Above flood stages -dates From-	Above flood stages -dates To-	Crest* Stage	Crest* Date
	Ft.			Ft.	
MISSISSIPPI SYSTEM-Continued					
Upper Mississippi Basin-Cont'd.					
Rock:					
Moline, Ill	12	1	13	13.2	6-7
Pope Creek:					
Keithsburg, Ill.	17	3 19	5 19	22.7 23.8	4 19
Black Hawk Creek:					
Hudson, Iowa	12	Dec 30	9	15.05	Jan 1
Iowa:					
Marshalltown, Iowa	13	Dec 30 17	5 21	17.1 15.3	Dec 31 19
Wapello, Iowa	10	1	Feb 4	15.0	21
North Skunk:					
Sigourney, Iowa	16	18 20	20 21	16.4 17.0	19 21
Skunk:					
Oskaloosa, Iowa	15	16	30	19.1	19,22
Brighton, Iowa	14	6 19	8 25	14.55 15.45	7 23
Augusta, Iowa	15	16	21	#17.8	17
Racoon:					
Jefferson, Iowa	10	1 18	1 22	10.3 11.9	1 21
Des Moines:					
Eddyville, Iowa	14	5	19	17.6	17
Illinois:					
Morris, Ill.	13	Dec 31	6	20.3	1
LaSalle, Ill.	20	Dec 31	14	27.0	1
Peoria, Ill.	14	Dec 31	Feb 13	18.0 14.5	10 Feb 8
Beardstown, Ill.	14	Dec 31	Feb 13	19.4 14.8	8 Feb 2
Meredosia, Ill.	32	2	30	35.9	9
Mississippi:					
Keithsburg, Ill.	12	Dec 31 11	7 18	13.8 12.9	2 15-18
Burlington, Iowa	15	5 20	6 27	15.0 16.6	5-6 24
Missouri Basin					
Tarkio:					
Fairfax, Mo.	17	17	17	18.3	17
Platte:					
Agency, Mo.	20	1	1	21.0	1
Turkey Creek:					
Wilber, (nr) Nebr.	11	17	21	12.3	19
Grand:					
Chillicothe, Mo.	24	Dec 30	1	26.6	Dec 31
Sumner, Mo.	26	Dec 30	3	30.9	Dec 31
Chariton:					
Prairie Hill, (nr) Mo.	15	19	19	15.4	19
Missouri:					
Rulo, Nebr.	17	11	18	22.2	17
St. Joseph, Mo.	17	17	18	19.9	18
Waverly, Mo.	18	1 18	2 20	18.8 19.1	1 19
Boonville, Mo.	21	19	20	22.05	19
Ohio Basin					
Vermillion:					
Danville, Ill.	18	Dec 30	1	19.5	1
Embarrass:					
Ste. Marie, Ill.	18	1	7	19.2	2

River and station	Flood stage	Above flood stages -dates From-	Above flood stages -dates To-	Crest* Stage	Crest* Date
	Ft.			Ft.	
MISSISSIPPI SYSTEM-Continued					
Ohio Basin - Continued					
Embarrass:					
Lawrenceville, Ill.	11	Dec 31 23	10 24	16.9 11.0	6 24
White:					
Elliston, Ind.	18	4	7	18.55	6
Newberry, Ind.	18	6	8	18.3	7
Edwardsport, Ind.	15	4	8	16.3	7
Little Wabash:					
Wilcox, Ill.	16	Dec 31 19	8 25	21.1 18.0	4 23
Wabash:					
LaFayette, Ind.	11	Dec 29	6	18.4	1
Covington, Ind.	16	Dec 30	7	22.5	2
Montezuma, Ind.	14	Dec 29	9	23.7	2
Terre Haute, Ind.	14	Dec 30	9	20.0	4
Hutsonville, Ind.	20	2	10	22.9	6
Riverton, Ind.	18	3	11	20.4	6
Vincennes, Ind.	16	3	12	30.15	7
New Harmony, Ind.	15	7	12	15.7	10
French Broad:					
Rosman, N.C.	8	21	22	9.5	22
Tennessee:					
Paducah, Ky.	320	Dec 10	12	332.7	Dec 18
Ohio:					
Shawneetown, Ill.	33	Dec 11	3	44.9	Dec 20
Dam No 50, Fords Ferry, Ky	34	Dec 11	4	48.1	Dec 20
Dam No 51, Golconda, Ill.	40	Dec 14	29	45.7	Dec 20
Paducah, Ky.	39	Dec 14	1	43.9	Dec 21
Dam No 52, Brookport, Ill	37	Dec 12	10	45.7	Dec 20
Dam No. 53, Grand Chain, Ill.	42	Dec 12	11	50.0	Dec 22
Cairo, Ill.	40	Dec 13 25	12 29	47.0 41.0	Dec 24 27
White Basin					
Black:					
Pocahontas, Ark.	17	24	Feb 2	18.65	28
Black Rock, Ark.	14	Dec 31 21	11 Feb 17	17.0 19.5 18.0	4 23 9
Cache:					
Patterson, Ark.	7	Oct 29	1/	10.0 9.4 8.2 9.4 9.2 9.4	Nov 9 Dec 16 7 24 Feb 10 Mar 17,28
White:					
Clarendon, Ark.	26	25	Mar 8	27.0 28.5	30 Feb 16
St. Charles, Ark.	25	Dec 12 29	2 1/	25.7 26.7	Dec 21 Feb 19
Arkansas Basin					
Little Caney:					
Copan, Okla.	21	21	24	22.2	23
Bird Creek:					
Avant, Okla.	16	3	3	16.0	3
Sperry, Okla.	21	4	5	24.3	4
Owasso, Okla.	24.5	4	5	26.3	5
Spring:					
Quapaw, Okla.	20	22	22	20.1	22
Neosho:					
Commerce, Okla.	15	21	25	18.5	23,24

FLOOD STAGE DATA

(All dates in January unless otherwise specified)

JANUARY 1973

River and station	Flood stage	Above flood stages -dates From—	Above flood stages -dates To—	Crest* Stage	Crest* Date
MISSISSIPPI SYSTEM-Continued	Ft.			Ft.	
Arkansas Basin-Continued					
Illinois:					
Tahlequah, Okla.	11	22	24	12.3	23
Fourche La Fave:					
Houston, Ark.	25	22	25	27.4	23
Arkansas:					
Van Buren, Ark.	22	22	Feb 3	23.0	29
Red Basin					
Sulphur:					
Hagansport, Tex.	44	26	30	46.6	26
Naples, Tex.	22	31	Feb 19	24.9	Feb 2-3
Little Missouri:					
Boughton, Ark.	20	23	23	20.2	23
Ouachita:					
Camden, Ark.	26	24	Feb 5	30.8	26
Lower Mississippi Basin					
St. Francis:					
Fisk, Mo.	20	2	31	24.45	8
St. Francis, Ark.	18	4	Feb 12	21.05	22
				19.0	9
Tallahatchie:					
Swan Lake, Miss.	26	Dec 16	6	27.1	Dec 22
		7	Feb 3	28.0	9
Yazoo:					
Yazoo City, Miss.	29	7	17	32.8	9
		21	28	29.6	22
Big Black:					
West, Miss.	12	Dec 31	17	21.4	8
Bovina, Miss.	28	7	27	37.7	14
Mississippi:					
New Madrid, Mo.	34	2	8	34.3	6
Caruthersville, Mo.	32	Dec 16	11	34.9	Dec 24
Atchafalaya Basin					
Atchafalaya:					
Morgan City, La.	7	Dec 20	1/	8.6	21
				8.4	Feb 20
WEST GULF OF MEXICO DRAINAGE					
Calcasieu:					
Hineston, La.	12	4	18	14.8	10
		22	Feb 20	15.1	24
				16.65	3-4
Sabine:					
Deweyville, Tex.	14	9	22	14.3	14
		30	Feb 21	14.5	Feb 5
Navasota:					
Easterly 7 NE, Tex.	14	27	30	16.3	28
Bryan 17 Ne, Tex.	12	7	12	12.6	8
		26	Feb. 4	13.7	30

River and station	Flood stage	Above flood stages -dates From—	Above flood stages -dates To—	Crest* Stage	Crest* Date
PACIFIC SLOPE DRAINAGE	Ft.			Ft.	
Sacramento Basin					
Yolo Bypass:					
Lisbon, Calif.	W19	19	28	19.6	20
Sacramento:					
Ord Ferry, Calif.	W110.5	12	13	112.5	12
		16	21	114.6	17
				115.6	19
Moulton Weir, Calif.	W 76.8	12	14	E 79.0	12
				E 79.9	17
				E 80.6	20
Colusa Weir, Calif.	W 61.8	10	28	E 66.1	12
				E 66.8	17
				67.0	20
		31	1	M	
Colusa Bridge, Calif.	W 63	12	14	64.3	13
		17	25	65.1	18
				65.5	20
Tisdale Weir, Calif.	W 45.5	10	Mar 16	E 49.2	13
				E 49.4	18
				E 49.6	20
				E 48.4	Feb 8
Fremont Weir, Calif.	W 33.5	12	Feb 1	E 36.8	20
Sacramento (I/ST),Calif.	W 25	18	21	26.7	19
Rio Vista, Calif.	9	15	30	9.7	16
				9.2	16
				9.8	18
San Francisco Bay Basin					
Salinas:					
Bradley, Calif.	11	18	18	11.3	18
Napa:					
St. Helena, Calif.	11	16	16	14.9	16
Central Coastal Basins					
Russian:					
Summerhome (Guerneville,nr),Calif.	32	11	13	40.4	12
		16	17	M	
		18	19	M	
Guerneville Bridge,Calif.	32	12	13	NA	
		16	17	M	
		18	19	M	
Columbia Basin					
Portneuf:					
Pocatello, Idaho	8	5	13	10.1	8
Weiser:					
Weiser 10 ENE, Idaho	8	16	17	9.2	17
Pudding:					
Aurora, Oreg.	20	14	19	21.2	15

* Provisional
\# Highest Stage observed
1/ Continued at end of month
E Estimated
M Missing
W Warning Stage

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb.)	ALBANY, N. Y. 1007 MB						ALBUQUERQUE, N. MEX. 838 MB						AMARILLO, TEXAS 891 MB						* ANCHORAGE, ALASKA 1002 MB						* ANNETTE, ALASKA 1003 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind M.p.s.
SURFACE	31	86	-4.5	-8.8	29	2.3	31	1,619	-3.7	-7.4	04	2.1	31	1,095	-2.8	-8.0	29	2.3	30	45	-14.3	-17.9	02	1.8	31	37	.4	-2.9	13	1.5
1000	26	162	-5.8	-10.7	29	2.9													16	169	-10.0	-15.0	04	1.9	17	165	-1.0	-6.5	04	2.3
950	31	544	-5.2	-9.2	28	6.2													30	455	-12.4	-17.9	03	2.6	31	474	-1.0	-5.6	13	2.4
900	31	967	-6.6	-12.1	29	9.5													30	869	-12.6	-18.4	03	2.1	31	904	-3.3	-8.0	16	3.7
850	31	1,414	-7.1	-15.2	29	12.2							31	1,467	.9	-10.4	29	4.9	30	1,305	-13.3	-19.8	09	1.0	31	1,354	-5.6	-10.2	18	5.5
800	31	1,886	-8.2	-17.3	29	13.8	31	1,984	-1.6	-9.5	35	.7	31	1,955	.4	-11.8	29	5.5	30	1,765	-14.5	-21.3	18	.9	31	1,828	-8.1	-13.5	19	5.0
750	31	2,386	-9.8	-19.2	29	15.2	31	2,497	-3.2	-12.2	28	3.5	31	2,471	-.7	-14.7	28	6.0	30	2,253	-16.5	-23.5	20	2.7	31	2,327	-10.8	-16.6	20	5.0
700	31	2,917	-11.7	-23.5	28	16.8	31	3,040	-5.9	-15.9	28	6.3	31	3,020	-2.8	-18.4	27	7.2	30	2,769	-19.5	-26.1	20	3.4	31	2,854	-13.7	-19.5	22	4.3
650	31	3,482	-14.5	-26.6	28	18.7	31	3,618	-8.3	-19.7	28	8.2	31	3,604	-6.2	-19.9	26	9.1	30	3,316	-22.7	-29.3	22	4.3	31	3,414	-16.8	-24.3	23	5.6
600	31	4,085	-17.1	-29.6	28	20.4	31	4,236	-11.5	-24.1	27	9.5	31	4,226	-9.8	-24.9	26	10.4	30	3,900	-25.8	-33.2	23	5.9	31	4,012	-20.0	-27.6	24	6.8
550	31	4,734	-20.7	-33.6	28	22.9	31	4,898	-15.7	-28.5	27	11.0	31	4,892	-14.4	-28.6	26	12.2	30	4,526	-29.4	-36.9	24	8.3	31	4,652	-23.9	-32.1	26	6.0
500	31	5,432	-25.1	-36.4	27	24.4	31	5,610	-20.8	-33.1	27	12.1	31	5,606	-20.1	-32.9	27	12.7	30	5,200	-33.9	-38.0	24	9.1	31	5,341	-28.7	-35.5	26	7.5
450	31	6,190	-30.2	-40.1	27	25.1	31	6,380	-26.3	-37.7	26	13.0	31	6,379	-25.9	-37.1	27	13.0	30	5,932	-38.4	-40.5	24	10.5	31	6,088	-33.4	-40.1	28	8.1
400	31	7,018	-35.8	-44.5	27	28.0	31	7,221	-32.7	-43.8	26	13.9	31	7,221	-32.2	-42.6	26	15.7	30	6,734	-43.0	-45.7	24	12.3	31	6,906	-39.1	-45.3	27	7.1
350	31	7,996	-42.1	-47.7	27	27.8	31	8,150	-39.7	-49.0	26	14.9	31	8,153	-38.9	-46.4	26	19.6	30	7,628	-47.1		25	14.6	30	7,813	-45.7		27	6.9
300	31	8,962	-48.7		27	26.4	31	9,187	-46.1		27	16.3	31	9,191	-46.2		26	22.0	29	8,624	-50.7		25	15.3	29	8,815	-52.0		25	9.6
250	31	10,148	-53.1		27	29.1	31	10,384	-51.4		27	20.3	31	10,389	-51.2		26	27.2	29	9,808	-52.0		25	15.2	29	9,988	-54.2		27	6.0
200	31	11,581	-54.0		27	29.7	31	11,829	-52.3		27	26.2	31	11,831	-53.0		26	32.0	29	11,257	-50.2		25	17.4	29	11,430	-50.5		28	8.3
175	31	12,442	-52.5		27	29.2	30	12,689	-53.2		27	25.8	31	12,691	-53.4		26	31.2	29	12,133	-48.2		25	17.3	29	12,304	-49.1		28	11.0
150	31	13,436	-53.7		27	26.5	30	13,680	-54.6		27	23.2	31	13,680	-55.5		26	31.6	29	13,151	-47.3		26	18.6	28	13,313	-48.8		28	13.1
125	31	14,605	-55.3		27	25.4	30	14,840	-57.4		27	21.0	31	14,835	-58.3		27	24.5	29	14,359	-46.8		26	20.1	28	14,510	-49.1		29	13.9
100	31	16,018	-58.4		27	24.4	29	16,240	-60.9		27	18.3	30	16,227	-61.2		27	20.3	29	15,840	-46.5		26	18.6	27	15,969	-50.1		29	15.5
80	31	17,419	-59.3		27	20.8	28	17,624	-62.4		27	12.1	30	17,606	-62.7		27	14.7	29	17,319	-47.4		26	17.5	26	17,426	-50.7		29	15.3
70	31	18,255	-59.7		28	18.6	28	18,448	-62.5		28	9.3	29	18,430	-62.9		28	11.9	29	18,201	-47.7		26	18.0	26	18,297	-50.6		30	13.5
60	31	19,219	-60.0		28	18.0	28	19,399	-62.6		28	6.2	28	19,383	-62.9		27	7.2	28	19,223	-47.9		27	17.7	25	19,306	-50.8		30	13.9
50	31	20,357	-60.4		29	16.2	28	20,526	-61.6		31	2.9	27	20,510	-61.6		29	3.6	26	20,428	-47.4		27	17.2	25	20,494	-51.2		30	13.7
40	29	21,743	-62.0		30	16.3	26	21,914	-59.8		02	2.6	25	21,898	-60.1		33	2.2	24	21,908	-46.9		28	17.8	22	21,951	-50.9		31	13.7
30	25	23,537	-60.4		31	16.7	22	23,718	-58.4		03	5.7	25	23,698	-59.2		04	5.7	24	23,813	-47.1		28	16.1	20	23,809	-50.6		32	15.1
25	24	24,671	-60.9		32	15.4	19	24,866	-58.1		05	7.0	25	24,842	-58.6		05	6.6	21	25,024	-47.1		29	17.1	20	24,998	-50.6		33	16.0
20	23	26,061	-61.3		32	15.1	14	26,266	-56.5		06	6.1	22	26,256	-57.0		05	7.7	16	26,529	-45.7		30	13.1	16	26,461	-50.4		33	15.3
15	22	27,857	-57.9		31	16.7	11	28,083	-55.1		03	6.9	20	28,088	-55.2		04	8.3	12	28,492	-44.1		31	14.9	12	28,296	-50.3			
10	17	30,491	-54.6		33	13.5							11	30,705	-52.9										6	30,971	-47.8			

Standard pressure surface (mb.)	ATHENS, GEORGIA 991 MB						BARTER IS., ALASKA 1010 MB						BETHEL, ALASKA 1006 MB						* BISMARCK, N. DAK. 956 MB						BOISE, IDAHO 918 MB					
SURFACE	31	246	2.6	-1.4	32	.9	31	15	-24.6	-26.4	25	3.6	31	39	-21.2	-23.1	06	.5	31	503	-11.3	-13.6	30	1.7	31	871	-2.2	-6.5	14	1.4
1000							24	127	+21.2	-24.8	26	5.2	21	127	-17.1	-20.4	02	1.3												
950	31	586	4.2	-3.5	30	2.3	31	469	-20.4	-24.3	26	8.9	31	474	-14.8	-19.0	10	1.1	20	591	-12.9	-16.0	30	2.8						
900	31	1,026	4.2	-5.4	27	4.9	31	869	-20.2	-23.6	27	7.9	31	883	-15.4	-20.6	13	.7	31	970	-5.4	-12.4	30	7.3	31	1,028	-2.2	-7.1	13	1.7
850	31	1,492	4.7	-9.6	26	7.4	31	1,293	+20.8	-24.1	27	7.8	31	1,314	-16.7	-23.1	25	1.4	31	1,420	-4.4	-15.0	31	8.4	31	1,482	-3.0	-9.0	15	2.1
800	31	1,986	4.2	-12.7	26	9.8	31	1,740	-21.8	-24.3	27	7.7	31	1,769	-17.6	-24.9	27	2.8	31	1,897	-5.3	-15.9	31	9.2	31	1,960	-4.8	-11.4	22	2.3
750	31	2,510	2.2	-12.6	26	12.7	31	2,214	+23.2	-26.8	27	7.7	31	2,251	-19.1	-27.0	26	3.9	31	2,402	-7.0	-18.5	30	10.0	31	2,466	-6.9	-14.4	26	4.4
700	31	3,064	-.5	-15.9	26	16.2	31	2,717	-25.5	-29.8	27	7.4	31	2,762	-21.1	-29.2	26	5.4	31	2,936	-10.5	-20.5	30	10.6	31	3,002	-9.4	-17.8	27	6.7
650	31	3,653	-4.2	-18.2	26	18.2	31	3,252	-28.1	-32.9	27	8.6	31	3,307	-23.9	-32.0	26	6.2	31	3,504	-13.4	-24.5	30	11.4	31	3,572	-12.5	-20.9	27	8.4
600	31	4,280	-7.7	-22.4	26	20.6	31	3,823	-31.1	-34.1	27	9.5	31	3,887	-27.4	-35.2	26	7.3	31	4,109	-16.9	-27.9	30	12.7	31	4,179	-16.2	-23.2	28	10.0
550	31	4,951	-11.8	-24.7	26	23.1	31	4,435	-34.6	-36.3	27	9.4	31	4,509	-31.0	-37.1	27	9.4	31	4,756	-21.2	-31.3	30	13.8	31	4,828	-20.5	-26.9	28	11.5
500	31	5,675	-16.7	-29.3	26	26.0	31	5,096	-38.5	-38.2	26	10.3	31	5,179	-35.2	-35.0	27	11.3	31	5,453	-26.3	-34.6	29	15.2	31	5,527	-25.2	-32.8	27	12.9
450	31	6,458	-22.2	-35.0	26	30.3	31	5,813	-42.9	-39.9	26	11.4	31	5,907	-39.6	-38.9	27	12.8	31	6,207	-31.7	-38.2	29	17.1	31	6,284	-30.5	-37.8	27	14.2
400	31	7,313	-28.5	-39.6	26	33.1	31	6,600	-47.7		26	13.1	31	6,704	-44.6	-42.7	26	14.3	31	7,029	-37.8	-43.0	29	18.9	31	7,111	-36.4	-41.4	27	15.9
350	31	8,259	-35.3	-42.7	26	38.6	31	7,475	+52.0		26	14.9	31	7,592	-49.0		26	16.2	31	7,940	-44.3	-46.8	28	19.9	31	8,027	-42.8	-47.0	27	16.8
300	31	9,314	-42.7	-46.8	26	42.6	31	8,462	-55.4		26	15.0	31	8,593	-52.4		25	17.8	31	8,955	-51.1		28	21.1	31	9,049	-49.7		28	18.3
250	31	10,526	-49.6		27	48.8	30	9,631	-56.1		26	17.3	31	9,767	-53.4		25	20.2	31	10,126	-55.9		28	23.3	31	10,227	-54.9		28	20.4
200	31	11,967	-55.1		27	51.0	30	11,056	-54.0		26	17.5	30	11,220	-50.1		25	20.3	31	11,543	-55.4		28	21.7	31	11,649	-55.9		28	19.5
175	31	12,816	-57.0		27	50.1	30	11,915	-53.1		26	18.5	30	12,096	-48.6		24	20.9	31	12,400	-53.1		28	20.6	31	12,504	-53.2		28	18.0
150	31	13,786	-59.9		27	44.0	29	12,903	-51.8		26	18.9	30	13,113	-47.2		25	21.1	31	13,395	-52.9		28	20.6	31	13,499	-53.1		28	15.3
125	31	14,917	-63.0		27	37.9	29	14,088	-51.2		27	21.6	30	14,323	-46.4		25	20.7	30	14,572	-53.1		28	20.0	31	14,672	-54.0		28	16.2
100	30	16,276	-65.4		27	27.4	29	15,339	-50.9		27	23.9	30	15,806	-46.5		25	21.1	30	16,006	-54.9		29	18.4	31	16,099	-55.3		29	12.6
80	28	17,627	-66.5		27	19.4	29	16,992	+50.5		27	28.7	30	17,257	-46.4		25	21.1	30	17,429	-55.7		29	16.3	30	17,516	-56.4		30	9.9
70	28	18,437	-65.6		27	16.4	29	17,864	-50.5		27	30.0	30	18,175	-46.3		25	20.3	29	18,277	-56.3		29	16.5	29	18,361	-57.0		30	8.9
60	27	19,372	-64.9		28	11.8	29	18,870	-50.4		27	32.3	29	19,198	-46.1		25	18.6	28	19,260	-56.6		30	15.2	27	19,332	-57.6		30	7.5
50	27	20,488	-63.6		29	7.0	29	20,080	-50.1		28	33.8	29	20,409	-46.5		25	17.8	28	20,416	-57.0		30	13.6	27	20,485	-57.0		32	5.9
40	25	21,864	-62.3		30	6.1	29	21,519	-49.7		28	33.3	27	21,892	-46.7		25	17.4	27	21,836	-57.0		31	14.5	25	21,895	-56.9		35	5.7
30	24	23,648	-61.1		34	4.8	28	23,381	-50.5		28	34.4	26	23,803	-46.4		26	16.1	25	23,657	-57.2		32	14.9	23	23,735	-56.2		36	6.3
25	24	24,783	-59.9		34	6.2	28	24,570	-50.5		28	29.7	22	25,019	-45.5		26	14.6	25	24,809	-57.7		33	16.1	23	24,894	-56.4		01	7.9
20	23	26,180	-58.1		35	6.5	25	26,042	-49.7		28	30.6	16	26,518	-44.8		23	12.2	23	26,226	-57.8		34	14.8	21	26,317	-56.2		02	9.9
15	23	28,000	-56.1		32	7.0	23	27,951	-48.9		28	35.0	11	28,489	-43.3				18	28,122	-56.2		35	16.1	18	28,189	-54.4		04	10.8
10	20	30,598	-52.4		31	10.2	14	30,808	-45.1										8	30,871	-53.1									
7	5	32,913	-50.0																5	33,234	-49.4									

Standard pressure surface (mb.)	BOOTHVILLE, LA. 1019 MB						* BROWNSVILLE, TEXAS 1018 MB						BUFFALO, N. Y. 992 MB						CAPE HATTERAS, N. C. 1020 MB						* CARIBOU, MAINE 987 MB					
SURFACE	31	1	9.6	7.8	01	1.6	31	7	9.5	6.7	33	1.8	30	218	-4.0	-7.3	25	4.0	31	4	7.2	3.4	33	2.1	31	191	-13.6	-17.4	29	2.9
1000	31	160	11.7	7.0	01	1.4	31	153	11.5	7.4	33	1.1							31	163	7.7	1.4	32	3.6						
950	31	589	10.8	4.9	23	1.2	31	583	11.8	6.1	16	1.7	30	557	-4.9	-8.2	25	7.6	31	583	5.8	-1.5	31	4.5	31	483	-10.9	-14.4	29	7.1
900	31	1,040	10.4	.9	24	4.6	31	1,036	11.2	3.0	18	3.7	30	981	-6.1	-11.2	26	10.2	31	1,027	4.4	-4.8	28	5.1	31	898	-11.5	-15.1	30	10.3
850	31	1,515	9.3	-2.6	25	7.2	31	1,514	11.1	.0	20	5.6	30	1,428	-7.2	-12.9	27	11.2	31	1,492	3.9	-8.5	27	8.1	31	1,396	-12.0	-17.4	30	10.7
800	31	2,017	7.9	-6.4	25	9.1	31	2,019	9.8	-4.0	21	6.5	30	1,899	-8.8	-15.5	27	12.3	31	1,984	2.6	-10.6	27	10.8	31	1,800	-12.0	-17.4	29	11.1
750	31	2,547	5.4	-8.5	25	10.7	31	2,553	7.6	-7.9	22	6.7	30	2,398	-10.5	-19.6	28	13.2	31	2,504	.7	-13.5	27	13.9	31	2,294	-13.3	-18.9	29	12.8
700	31	3,108	2.6	-12.9	25	13.0	31	3,119	4.7	-13.5	24	7.7	30	2,927	-12.4	-22.5	28	14.8	31	3,055	-2.0	-15.9	27	17.4	31	2,817	-15.5	-22.2	29	14.3
650	31	3,705	-.2	-17.6	25	15.2	31	3,719	1.8	-17.7	25	10.4	30	3,491	-14.7	-24.6	28	16.7	31	3,642	-5.1	-17.4	27	18.7	31	3,374	-17.9	-24.2	28	15.6
600	31	4,341	-3.7	-21.8	25	17.3	31	4,360	-2.2	-22.3	25	13.5	30	4,093	-17.7	-27.9	28	18.5	31	4,266	-8.7	-21.0	27	21.1	31	3,969	-21.3	-27.8	28	16.6
550	31	5,023	-8.3	-26.3	25	20.0	31	5,045	-6.6	-25.9	25	17.2	30	4,740	-21.3	-31.4	28	21.3	31	4,936	-12.5	-25.3	27	23.8	31	4,607	-24.8	-32.1	28	18.4
500	31	5,755	-13.7	-29.0	25	22.8	31	5,783	-11.5	-31.4	25	20.6	30	5,437	-25.7	-35.4	28	24.2	31	5,657	-17.4	-29.8	27	26.9	31	5,295	-28.9	-35.6	28	20.1
450	31	6,547	-19.2	-33.4	25	26.2	31	6,582	-16.7	-34.9	25	24.3	30	6,193	-30.8	-38.9	28	26.5	31	6,439	-22.4	-33.6	27	30.3	31	6,041	-33.8	-39.0	28	21.8
400	31	7,413	-25.0	-38.7	25	31.1	31	7,457	-22.6	-37.1	25	29.8	30	7,019	-36.6	-43.4	28	27.7	31	7,294	-28.3	-38.0	27	34.5	31	6,858	-39.1	-43.7	27	23.5
350	31	8,374	-31.4	-42.1	25	36.2	31	8,426	-29.5	-39.7	25	35.0	30	7,935	-42.9	-46.3	28	27.0	31	8,241	-35.2	-42.1	27	38.1	31	7,764	-44.9		27	25.8
300	31	9,446	-39.1	-45.4	25	41.6	31	9,506	-37.5	-46.4	29	39.6	30	8,958	-48.6		27	30.5	31	9,296	-42.8	-45.3	27	43.8	31	8,779	-50.0		27	27.9
250	31	10,676	-44.5		26	44.8	31	10,743	-45.5		26	45.0	30	10,146	-52.6		27	31.7	31	10,505	-50.5		27	50.0	31	9,961	-53.5		27	29.9
200	31	12,132	-54.0		26	47.2	31	12,210	-54.1		26	44.8	30	11,581	-53.3		27	30.3	31	11,942	-55.2		27	51.1	31	11,392	-54.1		27	31.9
175	31	12,983	-57.5		26	45.0	31	13,050	-58.9		26	44.4	30	12,443	-52.4		27	30.9	31	12,792	-56.5		27	48.1	30	12,249	-52.7		27	32.0
150	31	13,947	-61.3		26	40.1	30	14,006	-63.6		26	39.8	30	13,439	-53.3		27	27.5	31	13,766	-58.4		27	43.4	28	13,232	-52.4		27	31.2
125	30	15,074	-65.7		26	34.5	30	15,113	-68.2		26	33.3	30	14,608	-55.5		27	25.4	29	14,910	-60.8		27	36.5	28	14,406	-54.0		27	32.4
100	29	16,417	-69.8		26	26.6	27	16,441	-72.9		26	23.9	30	16,022	-58.2		28	21.8	29	16,285	-64.2		27	28.8	28	15,821	-56.5		27	29.7
80	29	17,740	-70.9		27	18.5	25	17,745	-73.6		26	13.0	29	17,424	-59.3		28	20.7	29	17,647	-65.0		27	21.9	28	17,243	-57.9		27	28.6
70	28	18,532	-69.0		27	14.3	25	18,529	-72.1		26	10.3	27	18,251	-60.2		28	18.7	26	18,463	-64.6		27	18.1	28	18,083	-58.8		27	28.6
60	26	19,452	-67.5		27	8.6	25	19,443	-69.6		26	7.2	25	19,228	-60.2		28	17.3	24	19,410	-63.6		28	13.3	27	19,057	-59.5		27	29.3
50	25	20,559	-64.9		27	4.3	25	20,538	-66.9		27	4.3	25	20,364	-60.3		29	15.0	24	20,533	-62.4		28	8.6	27	20,196	-60.3		28	29.5
40	23	21,933	-62.4		34	2.6	23	21,901	-63.4		29	1.4	23	21,764	-60.6		30	13.0	24	21,913	-61.5		29	6.4	26	21,581	-60.9		28	29.2
30	23	23,718	-60.3		04	4.9	23	23,678	-61.0		05	4.4	20	23,583	-60.2		32	12.2	21	23,710	-59.9		33	6.1	23	23,381	-60.1		28	27.7
25	22	24,857	-58.9		05	5.8	23	24,817	-59.2		06	5.1	19	24,722	-60.5		32	12.7	20	24,657	-58.3		34	6.4	21	24,566	-61.0		28	27.2
20	21	26,263	-56.5		06	4.8	23	26,225	-56.5		06	3.6	15	26,104	-60.2				18	26,274	-57.3		33	8.4	20	25,909	-61.7		28	30.1
15	16	28,099	-54.3		06	6.1	21	28,064	-53.5		04	2.5	12	27,882	-59.0				15	28,099	-55.2		31	10.9	20	27,689	-61.5		28	34.9
10	7	30,688	-52.0				18	30,701	-48.6		26	6.1	5	30,286	-57.3				5	30,701	-52.5				18	30,231	-54.2		28	40.4
7							11	33,093	-44.7																10	32,661	-47.2			
5							5	35,344	-38.7																					

* See reference note at end of table

RAWINSONDE DATA

Average monthly values

JANUARY 1973

Standard pressure surface (mb)	CHARLESTON, S. C. 1018 MB						CHATHAM, MASS. 1013 MB						CHIHUAHUA, MEXICO 857 MB						* COLD BAY, ALASKA 1005 MB						DAYTON, OHIO 984 MB					
	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	13	5.8	2.5	34	1.0	31	16	-.8	-5.2	28	3.3	31	1,428	2.3	-5.7	29	.4	26	30	-5.4	-8.0	05	2.8	31	299	-2.8	-6.7	22	1.9
1000	31	161	8.2	2.4	33	1.6	28	135	-1.2	-7.2	29	5.9							17	108	-2.8	-6.5	08	3.2						
950	31	386	8.2	-.9	28	2.2	31	526	-2.0	-7.9	29	8.1							26	472	-7.3	-10.0	05	3.7	31	572	-2.8	-8.1	24	5.8
900	31	1,032	7.8	-3.4	29	4.8	31	955	-3.4	-11.6	29	7.6							26	891	-9.8	-13.1	01	2.0	31	1,001	-2.8	-11.0	25	7.5
850	31	1,503	7.3	-5.1	25	8.0	31	1,407	-4.4	-15.7	28	9.1	28	1,502	4.2	-5.2	24	.7	26	1,331	-11.8	-17.5	31	2.3	31	1,453	-3.8	-13.6	26	8.2
800	31	2,001	6.1	-8.2	26	10.2	31	1,884	-5.6	-18.4	28	11.5	31	1,988	5.6	-6.6	24	4.0	26	1,795	-13.0	-20.5	31	3.2	31	1,932	-4.2	-15.8	27	9.4
750	31	2,528	3.9	-9.4	26	12.5	31	2,388	-7.5	-20.3	28	14.0	31	2,514	3.3	-10.1	24	5.8	26	2,285	-14.4	-24.3	30	4.2	31	2,439	-5.6	-18.0	27	11.3
700	31	3,086	.8	-11.2	26	14.6	31	2,923	-10.1	-23.0	28	16.7	31	3,070	.8	-15.0	26	8.0	26	2,805	-17.0	-27.0	28	4.6	31	2,978	-7.6	-19.6	27	13.5
650	31	3,678	-2.6	-15.1	27	16.2	31	3,491	-12.8	-25.4	27	18.8	31	3,663	-2.1	-17.9	26	10.2	26	3,359	-19.6	-29.8	27	4.9	31	3,553	-10.2	-21.9	27	16.2
600	31	4,308	-6.2	-19.1	27	19.7	31	4,098	-15.7	-28.0	27	20.0	31	4,294	-6.1	-21.9	26	12.8	26	3,950	-23.2	-32.5	26	5.7	31	4,166	-13.7	-25.2	27	18.8
550	31	4,984	-10.4	-22.9	27	22.5	31	4,749	-19.8	-31.2	27	22.3	31	4,969	-10.8	-26.4	26	15.3	26	4,582	-27.1	-36.3	26	7.9	31	4,822	-17.7	-28.8	27	20.5
500	31	5,711	-15.4	-27.0	27	25.2	31	5,450	-24.6	-35.8	27	24.8	31	5,695	-15.9	-30.5	26	19.5	26	5,263	-31.4	-37.5	25	8.8	31	5,529	-22.3	-32.6	27	23.0
450	31	6,499	-20.7	-31.3	27	27.9	31	6,210	-29.4	-40.5	27	28.4	31	6,480	-21.6	-34.9	26	22.2	26	6,002	-36.1	-41.0	25	9.2	31	6,295	-27.7	-37.9	27	24.8
400	31	7,360	-27.0	-36.9	26	31.4	31	7,041	-35.3	-44.9	27	31.6	31	7,337	-27.3	-40.1	26	23.6	26	6,811	-41.3	-44.3	26	11.3	31	7,131	-33.6	-42.8	27	28.2
350	31	8,312	-33.7	-41.2	26	34.8	31	7,962	-41.4	-46.4	27	35.9	31	8,289	-33.5	-45.4	26	27.0	26	7,710	-46.4		25	13.1	31	8,058	-40.1	-44.2	26	31.1
300	31	9,373	-41.4	-45.7	26	41.9	31	8,991	-47.9		27	40.8	31	9,352	-40.8	-45.7	26	28.9	26	8,719	-51.9		25	13.0	31	9,093	-46.6		26	36.4
250	31	10,589	-49.3		27	47.2	31	10,180	-52.6		27	43.1	31	10,577	-46.3		26	33.6	26	9,894	-53.8		24	15.7	31	10,288	-51.7		27	40.0
200	31	12,030	-55.0		27	49.4	31	11,615	-53.7		27	39.5	31	12,042	-51.8				25	11,351	-48.9		24	14.6	31	11,728	-53.7		27	38.9
175	31	12,879	-57.2		27	48.7	30	12,470	-53.4		27	38.2	30	12,896	-55.0		27	38.4	25	12,230	-47.9		24	14.8	31	12,586	-53.9		27	37.1
150	30	13,839	-59.9		27	42.8	30	13,460	-54.5		27	36.3	29	13,869	-59.0		27	33.4	23	13,242	-47.0		23	14.9	30	13,580	-55.0		27	36.6
125	30	14,967	-64.0		27	36.9	29	14,618	-55.7		27	33.9	25	14,995	-63.4				21	14,439	-46.5		23	13.2	28	14,733	-57.2		27	29.9
100	29	16,324	-67.0		27	26.9	26	16,021	-59.1		27	30.2	23	16,353	-67.4				21	15,921	-46.6		23	12.6	27	16,135	-60.0		27	25.9
80	28	17,666	-67.6		27	19.4	23	17,422	-60.9		27	28.5	22	17,692	-67.9				21	17,401	-47.0		24	11.3	26	17,519	-61.2		27	21.0
70	27	18,471	-66.5		27	19.2	23	18,251	-61.5		27	26.3	22	18,495	-67.8				21	18,286	-47.4		25	10.0	25	18,347	-61.7		27	17.8
60	26	19,404	-66.0		28	10.2	22	19,200	-61.6		28	23.7	21	19,425	-66.8				20	19,293	-47.8		25	9.4	25	19,302	-61.8		27	15.9
50	25	20,318	-63.5		28	7.2	21	20,326	-61.2		28	22.9	19	20,527	-65.2				20	20,496	-47.7		25	7.6	24	20,436	-61.4		29	13.9
40	24	21,899	-61.9		30	5.3	20	21,723	-60.9		28	20.5	18	21,897	-62.5				18	21,968	-47.0		28	6.7	24	21,821	-61.4		29	11.2
30	23	23,677	-60.1		34	4.9	19	23,511	-60.7		28	21.2	18	23,683	-60.4				16	23,873	-47.1		26	5.6	20	23,598	-60.8		30	10.2
25	22	24,814	-59.2		34	5.0	19	24,646	-60.7		28	20.9	16	24,824	-59.3				16	25,081	-46.7		28	4.2	19	24,738	-60.2		30	11.7
20	22	26,220	-56.9		35	5.3	18	26,021	-59.9		28	22.7	15	26,230	-56.7				15	26,559	-45.8		28	4.3	18	26,137	-58.8		30	10.4
15	20	28,056	-55.0		33	5.3	17	27,822	-58.2		28	27.2	13	28,075	-54.0				13	28,466	-45.8		29	5.1	13	27,966	-57.0			
10	16	30,701	-49.3				16	30,427	-51.8		27	29.6	9	30,731	-48.1				9	31,171	-44.4				5	30,477	-50.8			
7							10	32,816	-43.9										7	33,533	-43.7									

Standard pressure surface (mb)	DEL RIO, TEXAS 983 MB						DENVER, COLO. 835 MB						DODGE CITY, KANS. 925 MB						EL PASO, TEXAS 882 MB						ELY, NEV. 807 MB					
	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	314	4.6	.6	04	1.4	31	1,611	-5.5	-12.9	22	1.3	31	791	-4.9	-8.8	28	1.3	31	1,193	1.1	-4.8	29	1.4	31	1,908	-11.0	-14.9	20	3.3
1000																														
950	31	390	6.5	-.2	08	.7																								
900	31	1,034	5.9	-3.2	26	1.9							31	1,004	-1.4	-8.4	28	2.2												
850	31	1,501	5.5	-6.3	26	3.5							31	1,462	.1	-11.6	29	3.9	31	1,496	4.0	-7.5	28	2.8						
800	31	1,998	5.5	-8.7	26	4.9	31	1,952	-2.6	-15.1	29	2.7	31	1,947	-.6	-12.3	29	4.7	31	1,987	2.3	-10.2	27	4.6	28	1,990	-6.5	-11.1	20	2.5
750	31	2,524	3.9	-10.6	26	6.9	31	2,463	-3.9	-17.3	32	3.8	31	2,461	-2.7	-15.3	29	6.5	31	2,506	.1	-13.4	26	6.2	31	2,487	-4.2	-13.1	23	.6
700	31	3,082	.8	-14.9	26	9.7	31	3,006	-5.8	-19.1	31	4.6	31	3,007	-4.4	-17.9	28	7.6	31	3,056	-2.6	-17.6	26	8.1	31	3,027	-7.2	-15.8	30	3.5
650	31	3,673	-2.7	-18.3	26	11.6	31	3,583	-9.4	-21.6	31	7.4	31	3,587	-7.4	-20.6	27	9.0	31	3,641	-5.8	-21.1	26	9.6	31	3,602	-9.8	-18.3	29	5.7
600	31	4,303	-6.8	-21.9	25	13.9	31	4,197	-13.2	-24.6	30	9.9	31	4,207	-11.1	-24.9	28	9.8	31	4,263	-9.7	-25.0	26	11.8	31	4,216	-13.3	-21.1	29	6.5
550	31	4,977	-11.3	-25.7	25	16.1	31	4,854	-17.4	-29.2	30	10.2	31	4,869	-15.5	-28.8	28	11.0	31	4,929	-14.3	-28.7	26	13.2	31	4,873	-17.6	-26.0	29	7.8
500	31	5,700	-16.4	-31.6	25	19.0	31	5,562	-22.2	-34.3	29	10.7	31	5,581	-20.6	-33.4	28	12.9	31	5,644	-19.7	-33.4	26	15.0	31	5,580	-22.4	-30.9	28	9.1
450	31	6,485	-21.5	-34.1	26	23.0	31	6,328	-27.9	-40.3	28	12.0	31	6,352	-26.4	-37.4	27	14.9	31	6,418	-25.4	-36.8	26	17.1	31	6,345	-28.0	-36.5	27	10.2
400	31	7,344	-26.9	-39.0	25	30.0	31	7,163	-34.4	-44.0	26	12.4	31	7,192	-32.9	-43.3	26	16.9	31	7,263	-30.7	-44.1	26	19.9	31	7,180	-34.5	-42.7	28	12.3
350	31	8,297	-33.3	-44.1	25	34.5	31	8,085	-41.5	-49.8	27	13.7	31	8,121	-39.8	-47.3	26	18.3	31	8,202	-37.1	-48.6	26	24.5	31	8,102	-41.5	-46.4	28	14.0
300	31	9,362	-40.2	-47.1	25	39.1	31	9,112	-48.7		27	16.1	31	9,156	-46.7		26	19.7	31	9,251	-43.4		26	32.5	31	9,129	-48.7		28	15.6
250	31	10,588	-46.3		26	45.0	31	10,294	-54.6		27	19.2	31	10,348	-52.5		26	24.1	31	10,461	-49.2		26	39.5	31	10,313	-53.8		29	17.9
200	31	12,052	-52.2		26	47.4	31	11,717	-55.5		27	19.3	31	11,784	-53.8		26	27.7	31	11,917	-51.5		26	40.9	30	11,739	-53.9		29	17.6
175	31	12,910	-55.6		26	44.7	31	12,571	-54.5		27	19.9	31	12,642	-53.7		26	25.3	31	12,780	-53.7		27	37.0	30	12,594	-53.9		28	18.2
150	30	13,882	-59.3		26	38.5	31	13,560	-54.0		27	20.0	31	13,633	-54.3		26	25.9	31	13,765	-56.6		27	33.1	30	13,587	-53.4		28	18.1
125	30	15,012	-63.7		27	33.6	31	14,726	-55.2		27	17.2	31	14,797	-56.2		26	22.6	30	14,906	-60.4		27	30.5	30	14,756	-55.3		28	16.4
100	30	16,366	-67.7		26	24.7	31	16,144	-57.3		27	15.3	31	16,207	-58.8		27	19.4	29	16,287	-63.9		27	21.6	28	16,174	-57.7		28	13.3
80	29	17,702	-69.2		26	16.5	31	17,548	-59.0		28	12.8	31	17,602	-60.5		27	13.3	28	17,645	-65.3		27	14.6	26	17,581	-58.5		28	9.7
70	29	18,502	-68.3		27	12.2	31	18,384	-59.7		28	9.7	30	18,432	-60.8		28	11.0	27	18,461	-65.3		28	8.8	25	18,420	-59.5		29	7.8
60	29	19,430	-67.3		27	6.6	29	19,346	-59.6		29	6.7	28	19,390	-60.0		28	9.0	27	19,400	-65.0		28	5.5	25	19,385	-59.4		31	5.5
50	29	20,534	-65.5		28	4.2	28	20,488	-58.3		30	5.8	27	20,534	-59.9		30	4.4	26	20,515	-63.7		31	2.2	23	20,534	-58.6		35	3.0
40	28	21,900	-62.9		32	1.4	26	21,896	-58.7		33	3.4	25	21,925	-59.5		32	4.2	26	21,892	-61.4		35	1.6	22	21,939	-57.3		02	4.2
30	26	23,685	-60.0		03	2.4	23	23,715	-57.2		02	5.8	23	23,729	-58.5		36	5.7	25	23,689	-59.0		05	5.0	19	23,765	-57.2		05	6.4
25	26	24,826	-58.8		03	4.0	22	24,873	-56.9		04	8.8	23	24,877	-58.2		03	6.8	25	24,835	-58.3		05	7.5	19	24,919	-56.8		04	7.0
20	24	26,230	-56.9		04	3.9	22	26,291	-55.7		04	9.2	19	26,289	-56.7		03	7.2	23	26,248	-56.4		06	6.5	18	26,339	-55.8		09	8.8
15	23	28,057	-55.1		36	3.6	21	28,125	-55.0		03	10.1	12	28,166	-54.3		04	9.0	16	28,095	-54.0		05	6.2	18	28,172	-55.4		04	9.9
10	12	30,688	-51.6				12	30,737	-53.7		02	12.1	5	30,793	-51.9				5	30,696	-49.8				12	30,772	-54.4			

Standard pressure surface (mb)	EMPALME, MEXICO 1015 MB						* FAIRBANKS, ALASKA 997 MB						FLINT, MICH. 988 MB						FORT WORTH, TEXAS 998 MB						GLASGOW, MONT. 934 MB					
	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	12	10.6	4.2	33	1.7	31	135	-28.4	-24.5	32	.5	31	236	-2.8	-7.0	25	2.8	31	180	2.1	-2.7	30	1.2	31	696	-9.3	-13.7	31	.9
1000	31	136	14.8	.5	33	2.7	13	206	-21.8	-19.8	09	.6							18	214	-.8	-6.3	34	3.1						
950	31	570	14.5	-2.3	34	3.8	31	487	-21.9	-24.8	13	2.1	31	544	-4.5	-8.8	25	5.8	31	580	3.1	-3.6	27	1.6						
900	31	1,025	12.1	-5.1	31	1.9	31	886	-20.3	-24.5	19	1.8	31	969	-5.8	-11.0	26	8.6	31	1,019	3.6	-5.8	26	3.2	31	980	-5.1	-11.3	29	6.2
850	31	1,502	9.8	-9.2	28	2.3	31	1,310	-20.0	-25.2	22	2.5	31	1,417	-6.3	-15.3	27	9.9	31	1,482	3.2	-7.4	26	4.9	31	1,431	-4.2	-13.8	30	10.4
800	31	2,003	8.0	-13.1	28	3.5	31	1,760	-19.4	-24.4	24	2.9	31	1,890	-7.6	-17.4	27	11.2	31	1,974	3.1	-8.9	26	6.6	31	1,908	-5.8	-15.7	30	10.1
750	31	2,532	5.1	-16.6	28	4.9	31	2,239	-20.4	-25.5	23	3.9	31	2,391	-9.2	-19.5	27	12.3	31	2,496	1.4	-11.3	26	8.4	31	2,411	-8.3	-17.2	30	10.7
700	31	3,092	2.0	-19.4	28	7.7	31	2,748	-22.9	-27.3	24	4.4	31	2,923	-11.3	-22.9	28	14.4	31	3,048	-1.2	-15.6	26	10.4	31	2,944	-11.3	-20.0	29	11.1
650	31	3,686	-1.3	-22.8	28	9.4	31	3,288	-25.6	-29.8	24	5.3	31	3,489	-14.1	-25.3	28	15.6	31	3,636	-4.2	-18.7	25	12.1	31	3,509	-14.6	-24.1	29	11.7
600	31	4,318	-5.7	-26.0	28	10.7	31	3,865	-28.9	-33.8	24	6.6	31	4,092	-17.4	-29.0	28	16.5	31	4,263	-8.1	-21.4	25	15.1	31	4,111	-18.2	-27.5	29	12.3
550	31	4,994	-10.6	-30.1	27	13.7	31	4,482	-32.9	-35.7	23	7.6	31	4,739	-21.4	-33.0	28	19.0	31	4,923	-12.8	-24.5	26	17.6	31	4,785	-22.5	-30.6	29	12.9
500	31	5,721	-15.2	-32.8	27	16.7	31	5,147	-37.1	-35.9	24	9.2	31	5,436	-25.6	-36.8	28	21.6	31	5,652	-18.0	-29.6	29	19.4	31	5,448	-27.4	-34.3	29	14.5
450	31	6,509	-20.5	-37.5	27	19.8	31	5,870	-41.3	-39.6	24	10.7	31	6,192	-30.8	-41.8	28	23.4	31	6,432	-23.2	-35.4	25	21.7	31	6,199	-32.6	-38.4	29	15.5
400	31	7,370	-26.7	-42.4	27	23.3	31	6,662	-45.5	-45.0	24	13.5	31	7,018	-38.8	-46.1	28	26.4	31	7,284	-29.5	-41.4	28	23.8	31	7,019	-38.5	-42.5	29	16.2
350	31	8,325	-33.1	-46.7	26	25.5	31	7,548	-49.5		25	14.8	31	7,933	-43.1		27	28.4	31	8,227	-35.9	-44.3	25	28.6	31	7,927	-44.6	-44.2	29	16.5
300	31	9,388	-40.7	-45.5	26	29.0	31	8,547	-52.5		25	16.6	31	8,954	-49.2		27	33.2	31	9,279	-43.0	-45.4	25	34.4	31	8,942	-51.0		29	17.2
250	31	10,615	-46.2		26	37.2	31	9,722	-53.7		25	18.0	31	10,139	-52.7		27	35.3	31	10,494	-48.2		25	40.6	31	10,114	-56.4		28	19.8
200	31	12,082	-51.3		26	38.8	30	11,157	-51.9		26	18.5	31	11,576	-53.5		27	34.1	30	11,946	-52.6		26	44.4	31	11,528	-54.8		28	19.6
175	31	12,943	-54.8		26	38.5	30	12,025	-50.5		26	19.4	31	12,437	-52.8		27	32.3	29	12,804	-54.8		26	42.5	30	12,386	-52.9		28	18.4
150	31	13,919	-59.0		26	34.8	30	13,034	-49.1		26	20.2	31	13,430	-53.6		27	30.3	29	13,784	-57.2		26	37.6	28	13,389	-51.9		29	17.3
125	31	15,053	-63.0		26	29.6	27	14,241	-48.2		26	22.6	31	14,597	-55.7		27	29.7	28	14,924	-60.4		26	33.5	26	14,563	-52.7		29	16.6
100	30	16,412	-66.9		26	22.2	28	15,717	-48.2		27	24.2	31	16,011	-57.9		28	26.5	28	16,303	-63.9		26	25.5	25	15,997	-54.4		29	16.4
80	29	17,753	-68.4		26	16.6	27	17,182	-47.8		26	24.8	30	17,403	-59.5		28	23.8	25	17,660	-64.9		27	16.7	24	17,428	-55.0		30	15.9
70	25	18,559	-66.9		27	12.8	26	18,071	-48.0		27	25.0	29	18,230	-60.4		28	22.4	25	18,474	-65.4		27	11.6	22	18,278	-55.4		31	14.6
60	25	19,492	-66.2		28	6.6	25	19,085	-47.7		27	23.7	29	19,189	-60.8		28	21.3	22	19,404	-64.9		27	9.2	22	19,261	-55.8		31	14.5
50	24	20,604	-64.4		30	3.0	23	20,297	-48.0		27	22.3	27	20,321	-61.8		28	20.1	21	20,525	-62.7		28	5.9	21	20,427	-55.6		31	14.2
40	24	21,975	-62.1		02	1.4	20	21,789	-48.1		27	22.1	24	21,700	-61.4		29	19.4	19	21,901	-60.9		31	4.0	21	21,848	-56.0		32	14.6
30	24	23,767	-59.3		05	3.4	20	23,687	-48.0		28	22.9	23	23,481	-61.6		30	20.2	17	23,700	-59.2		35	4.3	19	23,676	-56.8		33	14.5
25	24	24,913	-57.9		05	4.1	19	24,899	-47.6		29	22.8	20	24,632	-61.0		30	19.9	17	24,844	-58.4		36	4.6	17	24,859	-55.9		34	15.1
20	23	26,327	-55.2		06	3.0	12	26,378	-47.4		29	19.4	20	26,021	-60.4		31	20.6	15	26,249	-56.9		36	4.2	15	26,314	-54.1		35	12.5
15	14	28,180	-53.0		34	2.8	9	28,404	-44.0				17	27,818	-59.9		31	22.8	13	28,071	-54.6		34	3.6	10	28,159	-54.7		35	16.9
10	5	30,811	-50.3				7	31,107	-44.2				19	30,382	-54.8															
7							5	33,557	-45.0																					

See reference note at end of table

RAWINSONDE DATA

Average monthly values

JANUARY 1973

GRAND JUNCTION, COLO. 855 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	1,472	-13.8	-15.1	12	1.1
850	20	1,553	-11.9	-14.1	12	1.8
800	30	1,985	-7.1	-11.3	14	1.3
750	30	2,489	-6.6	-12.8	17	1.6
700	30	3,027	-8.1	-16.5	26	2.7
650	30	3,600	-10.6	-19.9	28	4.2
600	30	4,212	-13.8	-22.7	27	5.8
550	30	4,868	-17.9	-28.1	27	7.6
500	30	5,574	-22.9	-32.8	27	9.2
450	29	6,340	-28.1	-38.0	27	9.8
400	29	7,176	-34.1	-43.4	28	11.0
350	29	8,100	-41.1	-46.5	28	11.8
300	29	9,128	-48.7		28	14.3
250	29	10,311	-54.4		28	17.5
200	29	11,737	-54.3		27	19.8
175	29	12,595	-53.3		27	18.2
150	29	13,590	-53.1		27	18.7
125	28	14,756	-55.1		27	17.0
100	28	16,172	-57.9		27	15.6
80	28	17,573	-59.1		27	12.6
70	28	18,411	-59.4		28	9.3
60	28	19,376	-59.4		29	6.9
50	28	20,519	-58.8		30	4.1
40	25	21,919	-57.9		35	4.1
30	25	23,734	-57.7		02	5.9
25	25	24,886	-57.0		03	7.4
20	25	26,300	-56.5		04	9.0
15	16	28,144	-54.9			

* GREAT FALLS, MONT. 887 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	1,118	-5.6	-14.2	22	6.5
850	31	1,449	-3.7	-13.5	24	9.1
800	31	1,926	-6.2	-15.5	26	8.9
750	31	2,428	-8.9	-17.1	27	9.2
700	31	2,960	-11.4	-20.6	28	10.8
650	31	3,525	-14.4	-24.0	28	12.1
600	31	4,128	-17.6	-27.4	28	11.9
550	31	4,774	-22.1	-30.5	28	12.2
500	31	5,469	-26.8	-34.6	28	12.4
450	31	6,221	-31.9	-37.3	28	13.8
400	31	7,043	-37.7	-41.3	28	14.6
350	31	7,954	-44.1		28	16.5
300	31	8,971	-50.8		28	17.6
250	31	10,144	-55.7		29	19.0
200	31	11,563	-55.3		28	19.3
175	30	12,419	-52.8		28	18.1
150	27	13,409	-51.1		28	16.9
125	27	14,593	-51.9		28	14.7
100	27	16,036	-52.5		28	12.3
80	26	17,468	-55.0		29	12.0
70	25	18,319	-54.3		30	11.5
60	24	19,309	-54.2		30	11.0
50	24	20,476	-55.0		31	10.5
40	24	21,901	-55.3		33	9.5
30	22	23,731	-55.9		34	12.2
25	21	24,900	-55.4		34	13.5
20	20	26,317	-56.3		35	14.3
15	16	28,193	-55.9		36	15.0
10	11	30,746	-56.7		36	23.5
7	7	33,056	-54.0			

GREEN BAY, WIS. 990 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	210	-7.4	-10.2	26	2.4
1000	5	246	-17.2	-19.7		
950	31	533	-7.2	-10.2	28	5.6
900	31	955	-6.6	-12.0	28	6.7
850	31	1,402	-6.3	-15.2	29	6.9
800	31	1,876	-7.4	-16.3	29	8.2
750	31	2,377	-9.3	-19.1	29	9.7
700	31	2,909	-11.7	-21.6	29	11.2
650	31	3,474	-14.7	-24.3	29	13.2
600	31	4,077	-17.6	-28.1	29	14.1
550	31	4,723	-21.8	-31.0	29	15.8
500	31	5,418	-26.4	-35.4	29	17.7
450	31	6,172	-31.2	-39.6	29	19.1
400	31	6,997	-37.0	-45.0	29	21.7
350	31	7,911	-43.5	-47.2	29	24.1
300	31	8,930	-50.1		29	26.7
250	31	10,110	-53.9		28	28.2
200	30	11,536	-53.9		28	26.3
175	30	12,396	-52.7		28	26.6
150	30	13,392	-53.2		28	26.5
125	30	14,563	-54.6		28	24.7
100	29	15,992	-57.0		28	22.4
80	27	17,402	-57.6		28	21.3
70	27	18,245	-58.2		29	19.8
60	27	19,215	-58.7		29	18.1
50	25	20,363	-59.2		30	15.9
40	25	21,759	-59.6		30	17.1
30	21	23,556	-59.6		31	16.7
25	20	24,715	-59.2		32	15.4
20	16	26,164	-58.9		33	17.2
15	12	28,023	-57.7		34	18.6
10	8	30,670	-55.5			

GREENSBORO, N. C. 987 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	275	-.8	-3.9	30	.4
950	31	582	2.5	-6.4	30	2.8
900	31	1,019	2.2	-9.5	27	4.2
850	31	1,481	2.0	-12.7	26	6.8
800	31	1,970	1.3	-15.1	26	9.7
750	31	2,488	-.2	-16.1	27	13.1
700	31	3,037	-2.7	-19.1	27	16.0
650	31	3,622	-5.7	-21.3	27	18.6
600	31	4,245	-9.2	-24.6	27	20.9
550	31	4,913	-13.6	-27.5	27	23.9
500	31	5,630	-18.7	-30.1	27	26.5
450	31	6,407	-24.1	-33.5	27	30.1
400	31	7,236	-30.3	-39.7	27	33.7
350	31	8,196	-36.6	-42.8	27	37.0
300	31	9,245	-44.1	-43.8	27	40.0
250	31	10,447	-51.7		27	45.1
200	31	11,881	-55.2		27	44.9
175	31	12,732	-56.4		27	38.5
150	31	13,707	-58.3		27	34.9
125	31	14,848	-60.8		27	27.0
100	29	16,223	-63.9		27	22.1
80	28	17,583	-64.5		28	17.3
70	28	18,400	-64.3		28	13.5
60	25	19,349	-63.2		28	10.1
50	24	20,471	-62.2		29	10.6
40	23	21,852	-61.9		29	9.0
30	23	23,639	-60.9		33	7.7
25	23	24,775	-60.1		33	7.1
20	20	26,167	-58.2		31	10.4
15	19	27,986	-55.8		30	11.5
10	11	30,614	-51.5			
7	6	32,943	-47.0			

GUADALUPE IS., MEXICO 1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	23	14.1	9.4	34	5.2
1000	31	163	12.1	7.1	34	4.0
950	31	591	9.4	2.9	33	3.5
900	30	1,038	7.6	-3.5	34	3.5
850	30	1,507	6.7	-12.4	32	3.6
800	30	2,004	5.9	-16.4	31	4.0
750	30	2,530	4.1	-18.7	31	5.4
700	30	3,088	1.3	-20.4	29	5.7
650	29	3,680	-2.2	-22.8	28	7.0
600	29	4,312	-5.9	-26.8	28	7.5
550	29	4,987	-10.7	-30.6	27	9.5
500	29	5,712	-16.0	-34.8	27	11.3
450	29	6,497	-21.9	-38.6	27	12.4
400	29	7,352	-28.7	-43.1	26	13.7
350	29	8,298	-35.6	-47.3		
300	29	9,350	-42.9	-49.0		
250	29	10,562	-49.3			
200	29	12,013	-52.9			
175	29	12,870	-55.4			
150	28	13,843	-58.9			
125	27	14,977	-62.4			
100	26	16,342	-66.6			
80	26	17,687	-67.6			
70	25	18,492	-66.8			
60	25	19,426	-65.7			
50	24	20,540	-64.7			
40	23	21,912	-62.0			
30	22	73,711	-59.2			
25	22	24,857	-57.9			
20	21	26,275	-55.8			
15	18	28,115	-53.9			
10	10	30,720	-49.7			

* GUAM, MARIANA IS. 1001 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	111	23.0	20.6	08	2.7
1000	22	122	23.6	20.9	08	3.7
950	31	565	21.6	18.8	08	8.1
900	31	1,033	18.6	13.8	08	7.6
850	31	1,522	16.0	9.4	09	6.7
800	31	2,036	13.9	1.7	09	6.5
750	31	2,579	13.0	-7.8	10	4.8
700	31	3,156	11.5	-15.1	09	3.1
650	31	3,771	8.6	-18.1	10	2.9
600	31	4,427	4.8	-21.6	11	3.7
550	31	5,131	.8	-25.5	08	3.6
500	31	5,889	-3.5	-28.8	09	3.9
450	31	6,715	-8.1	-32.4	08	3.5
400	31	7,619	-14.4	-37.3	06	3.3
350	31	8,619	-21.5	-42.8	04	2.5
300	31	9,734	-30.0	-49.4	01	1.6
250	31	11,005	-40.2	-56.1	01	1.0
200	31	12,488	-52.2		04	.2
175	31	13,339	-59.1		10	.8
150	31	14,288	-66.9		13	2.1
125	31	15,368	-74.8		13	3.1
100	30	16,639	-82.3		12	5.8
80	27	17,883	-81.5		10	8.1
70	27	18,640	-77.4		09	8.2
60	27	19,537	-72.5		09	9.4
50	26	20,619	-67.9		10	11.8
40	25	21,972	-64.0		09	10.3
30	25	23,763	-58.2		09	5.0
25	23	24,923	-54.4		23	.3
20	22	26,362	-50.5		29	4.4
15	20	28,244	-48.9		29	6.7
10	15	30,941	-44.6		27	9.7
7	5	33,387	-41.4			

HILO, HAWAII 1016 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	10	19.7	16.9	26	1.1
1000	31	149	20.5	17.4	26	.3
950	31	591	17.4	15.5	09	2.4
900	31	1,051	14.3	12.9	08	3.0
850	31	1,533	11.6	8.4	10	1.9
800	31	2,039	10.2	-.5	09	1.5
750	31	2,576	9.5	-10.7	10	1.3
700	31	3,146	8.2	-15.9	07	1.0
650	31	3,754	5.2	-18.5	29	.5
600	31	4,403	1.6	-22.4	28	1.9
550	31	5,098	-2.8	-25.5	27	3.4
500	31	5,846	-7.4	-29.5	28	6.0
450	31	6,658	-12.6	-33.6	27	7.8
400	31	7,547	-18.9	-38.0	27	11.3
350	31	8,532	-25.1	-43.2	27	15.3
300	31	9,631	-32.9	-49.7	28	18.8
250	31	10,892	-41.1	-55.0	28	22.7
200	31	12,373	-51.8		28	22.5
175	31	13,227	-57.8		28	21.4
150	31	14,184	-64.6		28	20.8
125	31	15,279	-71.9		28	18.7
100	30	16,573	-77.2		29	11.1
80	30	17,844	-78.6		27	3.2
70	29	18,609	-75.6		31	1.4
60	28	19,511	-71.0		05	2.2
50	27	20,601	-67.3		07	2.7
40	27	21,960	-63.1		08	2.5
30	27	23,746	-59.6		07	4.3
25	27	24,892	-57.5		08	4.8
20	26	26,309	-54.4		07	4.3
15	24	28,163	-51.1		27	2.5
10	17	30,821	-46.8		25	6.6
7	7	33,239	-43.8			

HUNTINGTON W. VA. 991 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	246	-1.9	-6.6	21	.9
950	31	581	-.9	-6.9	25	4.1
900	31	1,012	-2.3	-10.1	25	6.2
850	31	1,465	-2.9	-12.3	26	7.5
800	31	1,945	-3.3	-14.5	27	9.9
750	31	2,456	-4.2	-17.3	27	12.8
700	31	2,998	-6.1	-19.0	27	15.1
650	31	3,575	-8.6	-20.9	27	17.0
600	31	4,192	-11.8	-23.8	27	19.7
550	31	4,853	-15.7	-26.8	27	22.4
500	31	5,566	-20.6	-30.9	27	25.2
450	31	6,337	-25.8	-35.6	27	28.5
400	31	7,180	-31.8	-41.6	27	31.0
350	31	8,115	-38.0	-45.1	26	35.9
300	31	9,158	-45.1	-44.7	26	41.0
250	31	10,358	-51.0		26	43.3
200	31	11,799	-53.9		27	41.2
175	31	12,656	-54.2		27	37.0
150	30	13,642	-54.9		27	34.0
125	29	14,809	-58.0		27	29.1
100	29	16,206	-60.7		27	24.7
80	25	17,571	-62.1		27	19.8
70	23	18,385	-62.0		28	15.7
60	21	19,349	-62.0		28	13.6
50	20	20,476	-61.5		29	13.2
40	17	21,856	-60.6		30	10.7
30	14	23,652	-59.9		31	13.2
25	13	24,797	-59.4		31	14.6
20	13	26,196	-59.1		31	15.2
15	8	27,955	-58.4			

* INTERNATIONAL FALLS, MINN. 972 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	359	-14.2	-18.4	24	1.7
950	31	527	-12.0	-13.9	27	3.4
900	31	944	-8.8	-14.6	29	5.5
850	31	1,388	-8.0	-16.8	30	5.9
800	31	1,858	-9.2	-17.9	30	7.1
750	31	2,356	-10.9	-19.3	30	8.8
700	31	2,884	-13.3	-21.6	30	10.2
650	31	3,445	-16.0	-23.1	30	11.1
600	31	4,045	-19.3	-26.6	30	12.1
550	31	4,687	-23.0	-30.2	30	13.8
500	31	5,379	-27.5	-33.7	30	14.6
450	31	6,129	-32.9	-37.7	29	16.6
400	31	6,947	-38.9	-43.0	29	18.3
350	31	7,854	-45.3	-44.0	29	19.1
300	31	8,864	-52.1		29	21.8
250	31	10,032	-56.6		29	22.8
200	31	11,448	-55.6		28	22.6
175	30	12,303	-52.8		28	21.9
150	30	13,298	-52.7		28	21.6
125	30	14,473	-53.6		29	21.6
100	29	15,906	-55.1		29	21.4
80	28	17,322	-56.1		29	21.6
70	28	18,170	-56.5		29	20.9
60	27	19,142	-57.3		29	20.5
50	27	20,293	-57.9		30	19.6
40	27	21,697	-58.8		30	20.9
30	26	23,513	-59.6		31	20.9
25	25	24,664	-59.7		31	20.4
20	25	26,058	-60.3		32	20.5
15	21	27,911	-59.7		31	21.1
10	17	30,418	-59.5		32	23.6
7	12	32,679	-57.6		31	30.7
5	8	34,880	-52.0			

JACKSON, MISS. 1008 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	100	3.9	2.2	04	.6
1000	27	181	4.5	.7	02	1.1
950	31	584	5.1	-.9	24	1.7
900	31	1,026	5.6	-2.9	24	4.5
850	30	1,493	5.8	-5.7	25	7.5
800	30	1,989	4.7	-7.5	25	10.6
750	30	2,514	3.0	-10.8	26	12.3
700	30	3,070	.3	-13.6	26	13.9
650	30	3,661	-2.8	-17.1	26	15.2
600	30	4,291	-6.7	-20.5	25	17.4
550	30	4,964	-11.4	-23.5	26	19.0
500	30	5,688	-16.3	-27.3	25	23.1
450	30	6,473	-21.7	-32.3	25	26.3
400	30	7,330	-27.9	-37.9	25	29.6
350	30	8,279	-34.6	-42.6	25	32.9
300	30	9,337	-41.9	-44.8	26	37.7
250	30	10,553	-48.8		26	45.5
200	30	12,001	-53.8		26	47.5
175	29	12,858	-56.6		26	45.1
150	29	13,828	-59.9		26	40.4
125	28	14,964	-63.5		26	34.3
100	26	16,323	-67.1		27	25.6
80	26	17,668	-67.6		26	17.3
70	25	18,473	-67.0		27	12.3
60	23	19,408	-65.7		27	8.1
50	22	20,525	-63.5		27	4.6
40	21	21,901	-62.3		32	2.4
30	19	23,692	-60.2		36	3.6
25	17	24,828	-59.1		03	5.0
20	14	26,216	-57.6		04	5.1
15	9	28,012	-57.1			
10	5	30,634	-51.7			

JOHN F. KENNEDY INT. AP NY 1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	5	.3	-7.2	30	4.3
1000	29	154	.0	-6.7	29	5.2
950	31	552	-1.3	-7.9	30	7.5
900	31	982	-2.7	-10.8	29	7.0
850	31	1,434	-3.3	-14.9	29	8.9
800	31	1,913	-4.7	-17.5	29	11.0
750	31	2,419	-6.9	-19.6	28	12.7
700	31	2,955	-9.0	-22.6	28	15.4
650	31	3,526	-11.4	-25.8	28	17.4
600	31	4,136	-14.4	-28.9	28	20.3
550	31	4,791	-18.3	-31.9	28	22.6
500	31	5,497	-22.8	-35.5	28	24.9
450	31	6,262	-28.0	-38.7	28	28.3
400	31	7,097	-34.1	-43.8	28	30.5
350	31	8,023	-39.9	-46.1	27	30.8
300	31	9,058	-46.6		27	34.2
250	31	10,253	-52.2		27	36.7
200	31	11,689	-54.2		27	35.6
175	31	12,547	-53.7		27	32.0
150	31	13,538	-54.3		27	28.9
125	28	14,715	-56.2		27	27.0
100	28	16,123	-59.0		27	23.0
80	26	17,516	-60.4		28	18.8
70	24	18,358	-60.8		28	16.9
60	23	19,318	-61.2		28	14.7
50	22	20,449	-60.9		28	10.8
40	22	21,837	-60.6		30	10.3
30	19	23,647	-60.1		31	8.9
25	18	24,781	-59.5		31	8.7
20	17	26,162	-60.2		32	9.8
15	11	27,959	-58.9			

JOHNSTON IS., PACIFIC AREA 1014 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	3	23.8	19.4	07	7.4
1000	30	128	22.5	18.2	07	8.3
950	30	572	18.6	16.7	07	9.2
900	30	1,035	15.5	12.9	08	8.7
850	30	1,519	13.0	8.1	09	7.4
800	30	2,028	12.6	-2.5	10	5.8
750	30	2,569	11.6	-10.3	09	4.1
700	30	3,143	9.3	-14.6	10	2.3
650	30	3,753	6.1	-17.5	11	1.4
600	30	4,404	2.7	-20.4	10	1.0
550	30	5,102	-1.4	-24.3	13	1.3
500	30	5,855	-5.6	-27.8	27	.3
450	30	6,674	-10.1	-32.5	29	3.3
400	30	7,573	-15.6	-36.8	28	6.0
350	30	8,571	-22.0	-42.1	26	9.7
300	30	9,683	-30.4	-49.1	26	12.0
250	30	10,952	-40.5	-56.0	27	12.8
200	30	12,434	-52.2		27	13.9
175	30	13,286	-58.8		27	14.1
150	30	14,237	-66.0		27	13.0
125	29	15,322	-74.0		28	9.2
100	27	16,598	-81.2		28	4.5
80	25	17,839	-81.3		09	1.4
70	24	18,596	-78.1		09	3.7
60	22	19,491	-72.5		10	5.2
50	21	20,579	-66.9		09	5.4
40	21	21,936	-63.6		09	5.3
30	20	23,723	-59.2		06	4.0
25	20	24,873	-56.7		05	3.6
20	19	26,300	-53.3		35	1.2
15	19	28,170	-49.9		26	4.9
10	13	30,849	-45.8		25	10.6

KEY WEST, FLA. 1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	3	20.8	18.2	07	2.1
1000	31	147	20.6	17.7	09	2.7
950	31	590	18.0	14.9	12	3.0
900	31	1,052	15.2	10.8	16	2.5
850	31	1,535	13.0	4.6	19	2.5
800	31	2,044	11.0	-.1	22	3.6
750	31	2,581	9.3	-6.1	23	4.4
700	31	3,150	6.9	-11.7	23	5.2
650	31	3,756	3.9	-17.5	24	6.8
600	31	4,403	.9	-21.7	25	8.5
550	31	5,096	-3.5	-25.0	26	11.1
500	31	5,842	-8.4	-28.7	26	13.5
450	31	6,651	-14.1	-33.3	26	16.6
400	31	7,534	-20.1	-38.1	26	20.2
350	31	8,513	-27.3	-42.4	26	23.2
300	31	9,601	-35.3	-48.8	27	27.1
250	31	10,847	-44.8		27	31.3
200	29	12,305	-55.7		28	34.5
175	29	13,146	-60.4		28	28.8
150	29	14,097	-64.6		27	26.7
125	29	15,198	-69.3		27	21.7
100	28	16,518	-74.2		27	16.4
80	27	17,815	-75.5		28	9.8
70	27	18,592	-73.8		28	6.3
60	27	19,499	-70.9		28	4.4
50	27	20,590	-66.9		27	3.8
40	26	21,950	-63.6		30	4.4
30	26	23,728	-60.5		34	3.3
25	25	24,808	-57.9		35	2.0
20	25	26,282	-55.6		30	3.3
15	22	28,134	-51.3		30	4.4
10	16	30,814	-44.2		26	13.9
7	7	33,226	-42.1			

+ KOROR, CAROLINE IS. 1009 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	30	27.1	23.2	06	4.3
1000	31	105	26.1	22.8	07	5.3
950	31	557	22.7	20.4	07	8.2
900	31	1,027	19.5	16.7	07	8.7
850	31	1,518	16.8	11.9	08	7.5
800	31	2,034	15.5	4.7	08	5.9
750	31	2,580	13.1	-2.0	08	4.9
700	31	3,157	10.5	-7.3	09	4.9
650	31	3,771	7.7	-13.4	09	5.5
600	31	4,426	4.0	-16.2	08	4.9
550	31	5,128	-.1	-17.8	10	4.6
500	31	5,884	-5.0	-22.7	11	6.5
450	31	6,706	-8.6	-29.6	10	9.7
400	31	7,610	-14.0	-34.3	09	10.4
350	31	8,613	-20.8	-40.1	09	9.1
300	31	9,730	-29.4	-46.3	08	7.4
250	31	11,004	-39.9	-54.9	08	5.7
200	31	12,489	-52.3		09	6.1
175	31	13,339	-59.2		10	6.3
150	31	14,287	-66.9		10	8.2
125	31	15,368	-74.8		10	10.0
100	31	16,638	-82.4		10	12.5
80	30	17,884	-80.9		09	10.5
70	30	18,645	-77.0		09	10.7
60	30	19,541	-72.4		09	14.2
50	30	20,626	-67.3		09	18.4
40	29	21,994	-60.0		09	14.4
30	29	23,811	-54.8		09	3.1
25	29	24,986	-51.8		26	3.1
20	27	26,438	-50.0		27	10.2
15	26	28,330	-48.2		27	12.8
10	24	31,014	-45.7		27	18.7
7	7	33,388	-41.8			

KWAJALEIN, MARSHALL IS. 1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	4	26.0	21.9	07	7.3
1000	31	100	25.3	21.5	07	8.5
950	31	550	21.6	19.7	07	10.8
900	31	1,018	18.3	15.9	08	11.2
850	31	1,507	16.0	10.6	08	9.8
800	31	2,022	15.4	-.7	07	7.9
750	31	2,568	14.0	-6.8	07	6.3
700	31	3,147	10.9	-8.3	08	5.8
650	31	3,760	7.2	-12.4	09	5.5
600	31	4,415	4.0	-17.5	08	5.2
550	31	5,117	.0	-20.5	08	5.2
500	31	5,874	-4.1	-26.9	07	6.0
450	31	6,698	-8.8	-29.7	08	6.8
400	31	7,601	-14.3	-34.3	08	6.3
350	31	8,601	-20.8	-40.7	07	4.8
300	31	9,722	-29.4	-47.0	05	2.6
250	31	10,995	-40.0	-55.1	13	2.0
200	30	12,479	-52.3	-65.3	13	4.3
175	30	13,329	-59.4	-71.6	13	4.6
150	29	14,277	-67.2		12	6.5
125	29	15,353	-75.8		10	8.4
100	22	16,620	-83.0		09	10.4
80	19	17,857	-83.5		09	11.8
70	17	18,608	-79.6		09	10.2
60	13	19,493	-73.7		09	14.5
50	13	20,572	-68.3		09	14.7
40	12	21,931	-63.3		08	13.0
30	11	23,726	-56.5		10	3.4
25	10	24,892	-53.6		24	3.3
20	9	26,335	-51.5			
15	8	28,232	-46.9			
10	6	30,916	-47.0			

See reference note at end of table

RAWINSONDE DATA

Average monthly values

JANUARY 1973

Standard pressure surface (mb.)	LAKE CHARLES, LA. 1019 MB						LANDER, WYO. 828 MB						* LIHUE KAUAI, HAWAII 1014 MB						LITTLE ROCK, ARK. 1011 MB						MCGRATH, ALASKA 1000 MB					
	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	5	6.3	4.6	03	2.0	31	1,697	-14.8	-18.6	23	.4	31	36	19.8	16.5	03	1.6	31	79	1.2	-2.6	34	.7	27	103	-29.8	-21.8	15	.3
1000	30	166	7.5	3.6	03	2.0							31	158	20.4	16.0	05	3.0	29	175	2.4	-3.9	33	.9	14	173	-23.2	-24.3	14	.8
950	31	584	7.5	.9	26	1.1							31	600	17.2	14.1	06	4.6	31	578	2.4	-4.1	26	1.3	27	474	-21.4	-24.6	09	.9
900	31	1,030	8.5	-2.5	24	4.1							31	1,060	14.1	10.5	06	3.2	31	1,015	2.3	-5.4	25	2.9	27	875	-20.0	-25.2	15	1.2
850	31	1,503	7.6	-3.4	24	7.0							31	1,541	11.4	5.2	08	2.3	31	1,478	2.4	-7.3	26	5.2	27	1,299	-20.0	-23.1	15	.3
800	31	2,001	6.2	-5.5	25	8.9	31	1,958	-7.9	-14.7	29	.1	31	2,047	10.9	-6.3	10	1.0	31	1,967	1.8	-10.6	26	7.2	27	1,748	-20.4	-26.4	32	.7
750	31	2,529	4.2	-9.9	25	10.5	31	2,463	-6.3	-16.7	29	2.4	31	2,585	10.8	-13.7	31	.7	31	2,487	.3	-12.4	26	10.3	27	2,225	-21.6	-29.1	28	1.9
700	31	3,088	1.2	-12.9	25	11.9	31	3,000	-8.4	-18.6	30	5.4	31	3,157	8.3	-17.1	27	2.4	31	3,038	-1.5	-15.6	26	12.7	27	2,732	-23.4	-32.0	26	2.8
650	31	3,681	-1.7	-18.4	25	14.5	31	3,572	-12.0	-21.0	29	7.6	31	3,765	4.8	-19.5	27	3.9	31	3,625	-4.6	-18.2	26	14.4	27	3,272	-26.0	-34.1	27	4.4
600	31	4,314	-5.9	-21.4	25	16.6	31	4,180	-15.7	-24.1	29	9.9	31	4,413	1.2	-22.0	26	5.2	31	4,251	-8.7	-22.0	26	15.8	27	3,847	-29.3	-36.3	26	5.9
550	31	4,989	-10.5	-26.9	25	19.1	31	4,831	-19.6	-28.4	28	11.7	31	5,107	-3.2	-24.9	26	6.8	31	4,920	-13.0	-26.1	26	17.3	27	4,464	-33.0	-38.5	26	7.7
500	31	5,716	-15.1	-31.7	25	22.9	31	5,533	-24.3	-34.0	28	13.0	31	5,853	-8.2	-29.5	27	9.0	31	5,638	-18.6	-30.5	26	18.6	27	5,128	-37.4	-35.1	26	8.9
450	31	6,505	-20.4	-34.0	25	26.0	31	6,293	-29.5	-38.1	28	15.3	31	6,663	-13.5	-33.5	27	11.5	31	6,415	-24.1	-35.9	26	22.0	27	5,850	-41.3	-38.2	25	10.2
400	31	7,366	-26.5	-38.8	25	29.8	31	7,123	-35.6	-43.4	28	16.6	31	7,549	-19.2	-38.8	27	14.3	31	7,266	-30.0	-40.8	26	25.3	27	6,642	-45.3	-43.1	26	11.8
350	31	8,321	-33.2	-44.3	25	33.8	31	8,041	-42.5	-48.0	28	17.6	31	8,532	-25.9	-44.2	28	17.7	31	8,205	-36.6	-44.4	26	28.7	27	7,529	-48.7		25	13.3
300	31	9,385	-40.1	-45.8	25	39.8	31	9,063	-50.0		28	18.3	31	9,628	-33.4	-49.5	28	21.8	31	9,254	-43.9	-46.2	25	33.0	27	8,535	-50.7		25	14.4
250	31	10,609	-47.2		25	46.1	31	10,237	-55.9		28	19.0	31	10,886	-42.0	-55.8	28	24.9	31	10,459	-50.6		25	39.5	27	9,719	-51.9		25	16.4
200	31	12,064	-53.4		26	48.7	31	11,656	-55.8		28	19.8	31	12,364	-51.9		28	27.0	31	11,902	-53.7		26	42.5	27	11,168	-50.6		25	17.8
175	31	12,918	-56.5		26	44.0	31	12,510	-54.1		28	17.9	31	13,219	-57.6		28	25.6	30	12,752	-54.8		26	42.0	27	12,043	-48.6		25	19.1
150	30	13,892	-60.3		26	39.8	31	13,502	-53.1		28	18.9	31	14,177	-64.1		28	24.2	30	13,734	-56.7		26	35.8	27	13,061	-47.1		25	19.2
125	30	15,018	-64.5		26	35.2	30	14,677	-54.3		28	17.3	31	15,275	-71.3		28	21.3	30	14,881	-59.8		26	30.3	27	14,270	-46.7		26	20.2
100	29	16,372	-68.1		26	25.7	30	16,101	-56.5		28	14.4	29	16,574	-76.7		28	13.1	28	16,265	-62.6		26	21.9	27	15,751	-46.1		26	21.0
80	27	17,702	-68.6		26	17.1	28	17,516	-56.6		28	11.6	29	17,853	-77.3		28	6.3	27	17,630	-64.2		27	16.0	27	17,237	-45.9		26	21.0
70	25	18,501	-67.8		27	13.2	27	18,361	-57.0		29	9.2	29	18,623	-75.2		28	1.9	26	18,448	-64.4		27	12.5	27	18,126	-46.2		26	21.6
60	24	19,433	-66.5		27	6.7	27	19,336	-57.6		30	7.5	28	19,526	-71.1		05	1.7	25	19,390	-64.0		28	7.8	27	19,151	-46.1		26	20.6
50	24	20,543	-64.0		26	6.0	26	20,491	-57.2		31	6.6	27	20,612	-67.0		06	2.6	25	20,512	-62.2		28	4.8	27	20,363	-46.3		26	18.9
40	22	21,919	-62.0		32	2.0	24	21,906	-57.0		34	5.7	26	21,972	-62.9		07	3.9	22	21,892	-61.0		31	4.1	26	21,842	-47.2		27	19.7
30	19	23,710	-60.4		05	4.7	19	23,744	-57.1		36	7.0	26	23,758	-59.4		08	6.3	20	23,682	-59.7		34	4.2	26	23,749	-46.7		27	19.0
25	16	24,857	-59.1		05	5.5	17	24,898	-56.8		01	8.0	25	24,910	-57.0		08	7.4	17	24,837	-58.9		36	3.8	23	24,963	-46.4		27	18.4
20	14	26,269	-56.5		05	6.8	13	26,357	-55.1		03	9.9	25	26,332	-54.3		09	7.0	16	26,249	-58.2		03	4.9	22	26,454	-45.7		28	17.2
15	13	28,104	-54.5		06	8.1	8	28,226	-53.8				19	28,193	-51.6		07	4.1	9	28,131	-54.7				20	28,392	-44.6		28	15.1
10	5	30,789	-48.1										15	30,865	-46.2		21	4.2							9	31,206	-44.6			

Standard pressure surface (mb.)	+ MAJURO, MARSHALL IS. 1011 MB						* MEDFORD, OREG. 971 MB						MERIDA, MEXICO 1015 MB						MIAMI, FLA. 1018 MB						MIDLAND, TEXAS 918 MB					
	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	3	28.1	22.4	06	6.5	31	401	1.3	-1.1	01	.4	31	11	18.7	17.8	07	.6	31	4	18.4	15.3	36	.8	31	874	-.3	-3.1	31	.6
1000	31	99	26.3	20.2	06	8.1							31	140	21.5	18.3	10	2.8	31	156	19.1	16.9	05	1.1						
950	31	550	22.4	19.3	06	10.6	31	571	2.2	-1.0	11	.4	31	585	19.6	15.0	12	4.1	31	597	17.1	14.4	12	1.7						
900	31	1,019	19.3	16.0	07	10.3	31	1,008	1.8	-3.8	15	3.6	31	1,050	17.0	11.3	12	3.8	31	1,058	14.6	10.9	19	1.8	31	1,027	2.4	-5.8	28	1.9
850	31	1,509	16.7	11.4	08	8.5	31	1,468	.4	-7.5	20	4.4	31	1,536	13.7	8.2	14	3.0	31	1,540	12.0	5.6	23	2.9	31	1,490	2.2	-9.9	29	4.5
800	31	2,026	16.0	2.3	08	5.9	31	1,953	-2.2	-10.0	22	6.5	31	2,045	11.5	2.0	17	2.9	31	2,048	11.1	1.2	24	4.2	31	1,981	3.1	-11.4	28	6.2
750	31	2,573	14.7	-4.5	08	5.3	31	2,463	-4.9	-13.6	23	8.1	31	2,583	9.7	-2.5	17	2.9	31	2,585	8.9	-4.4	24	5.4	31	2,503	1.4	-14.4	28	8.4
700	31	3,153	11.6	-6.3	08	5.2	31	3,003	-7.4	-16.2	24	9.5	31	3,156	9.3	-13.1	19	2.4	31	3,154	6.6	-8.6	25	6.4	31	3,056	-1.4	-16.8	27	9.8
650	31	3,769	8.1	-8.2	08	5.4	31	3,577	-10.4	-19.4	25	9.8	30	3,767	6.6	-16.7	23	2.0	31	3,759	3.7	-13.8	25	7.9	31	3,643	-4.7	-20.7	26	11.4
600	31	4,425	4.3	-12.8	08	4.8	31	4,190	-14.2	-24.4	26	10.9	30	4,419	2.8	-20.5	24	3.9	31	4,404	-.2	-17.8	25	9.6	31	4,268	-8.8	-24.7	26	13.1
550	31	5,129	.9	-17.4	07	4.2	31	4,844	-18.4	-26.9	26	12.4	30	5,118	-1.4	-24.8	23	6.1	31	5,094	-4.5	-21.9	26	11.6	31	4,936	-13.5	-27.9	26	15.9
500	31	5,888	-3.6	-21.6	09	3.2	31	5,549	-23.1	-31.1	27	13.8	30	5,869	-6.7	-28.6	23	8.7	31	5,838	-9.5	-26.4	26	14.4	31	5,653	-18.8	-32.3	25	17.4
450	31	6,714	-7.7	-27.1	09	3.6	31	6,313	-27.9	-37.5	27	15.2	30	6,684	-11.5	-32.3	23	10.9	31	6,644	-14.7	-30.8	27	18.1	31	6,430	-24.1	-37.3	26	20.4
400	31	7,621	-12.9	-32.1	09	3.4	31	7,148	-34.3	-43.3	28	16.2	30	7,576	-17.9	-36.3	24	13.9	31	7,525	-20.9	-35.0	26	20.8	31	7,279	-30.4	-42.2	25	22.9
350	31	8,629	-19.7	-38.1	08	3.8	31	8,073	-40.9	-46.6	28	19.0	30	8,564	-24.8	-41.0	26	17.7	31	8,500	-28.2	-39.5	26	23.6	31	8,218	-36.9	-46.5	25	27.3
300	31	9,751	-28.4	-44.6	09	1.9	31	9,100	-48.8		28	20.7	30	9,604	-33.3	-47.9	26	20.3	31	9,584	-36.3	-45.1	27	27.8	31	9,268	-43.2	-47.1	26	31.1
250	31	11,030	-38.9	-52.1	13	2.7	31	10,279	-55.5		28	21.2	30	10,920	-42.7		27	21.8	31	10,825	-45.5		27	31.3	31	10,480	-48.3		26	39.2
200	31	12,521	-51.4		14	4.8	30	11,697	-55.4		28	19.9	30	12,388	-54.2		27	23.6	31	12,280	-55.3		28	34.0	30	11,937	-51.8		26	41.0
175	31	13,375	-58.2		13	5.5	30	12,535	-52.6		28	18.4	30	13,234	-59.4		27	17.6	31	13,123	-59.8		28	31.7	30	12,798	-54.0		27	39.4
150	31	14,328	-66.1		11	6.0	30	13,552	-52.5		28	17.3	30	14,186	-65.0		27	17.4	31	14,077	-63.9		28	28.0	30	13,781	-57.3		27	34.7
125	31	15,411	-74.3		09	8.3	30	14,726	-54.2		28	15.4	29	15,286	-70.2		27	14.7	31	15,182	-68.7		27	25.0	29	14,921	-60.4		27	31.6
100	30	16,665	-81.6		08	10.2	30	16,152	-55.7		28	12.6	29	16,596	-75.0		26	10.4	31	16,503	-73.6		27	21.2	29	16,300	-64.0		27	21.7
80	29	17,931	-81.1		09	9.9	29	17,569	-57.0		29	7.6	29	17,882	-76.7		27	5.7	31	17,800	-74.6		27	14.3	28	17,657	-65.7		27	15.7
70	29	18,688	-77.5		09	11.8	29	18,415	-56.8		30	6.2	29	18,656	-74.2		31	2.0	30	18,588	-72.4		27	10.3	27	18,468	-65.7		27	12.0
60	29	19,584	-72.2		09	15.4	29	19,393	-56.9		31	4.8	29	19,564	-70.1		04	2.2	30	19,492	-69.9		27	7.4	26	19,405	-65.7		28	7.1
50	29	20,670	-66.9		09	18.2	28	20,547	-56.7		34	3.8	27	20,661	-66.4		04	3.3	30	20,586	-66.4		27	7.2	26	20,517	-64.0		29	3.9
40	28	22,048	-59.5		09	12.4	27	21,963	-56.3		03	4.2	26	22,022	-64.2		07	3.8	30	21,949	-63.5		28	6.5	26	21,891	-61.9		01	2.1
30	28	23,869	-54.8		13	1.1	25	23,796	-55.1		05	6.5	26	23,799	-60.3		07	5.0	30	23,729	-60.1		31	4.6	26	23,683	-59.2		03	3.7
25	28	25,043	-52.3		27	5.2	25	24,961	-55.1		06	8.2	25	24,940	-58.1		04	4.8	27	24,872	-58.3		31	2.4	23	24,828	-58.8		05	5.9
20	28	26,493	-49.8		27	9.9	23	26,393	-53.6		05	11.1	24	26,359	-54.9		01	4.4	25	26,284	-56.0		29	4.3	22	26,231	-57.8		05	6.2
15	27	28,388	-47.6		27	15.0	20	28,260	-53.5		05	12.9	23	28,217	-50.6		03	8.6	25	28,134	-51.3		29	4.7	19	28,067	-55.3		05	4.7
10	23	31,080	-43.0		27	18.0	15	30,865	-52.7		07	16.8	8	30,900	-44.7				18	30,834	-43.8		26	23.4	5	30,674	-51.5			
7	10	33,505	-39.6				5	33,309	-44.6																					
5							5	35,581	-41.4																					

Standard pressure surface (mb.)	MONTERREY, MEXICO 966 MB						MONETT, MO. 967 MB						MONTGOMERY, ALA. 1014 MB						NASHVILLE, TENN. 999 MB						* NOME, ALASKA 1009 MB					
	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	423	6.3	3.6	35	1.3	30	438	-2.5	-5.4	19	.5	31	57	4.4	1.1	01	1.3	31	180	-.2	-4.1	05	.1	31	5	-20.8	-23.4	14	2.3
1000													31	167	5.7	.4	01	1.4	16	213	-3.8	-8.5	03	1.4	25	102	-17.2	-20.0	15	3.2
950	30	590	7.9	3.2	34	2.3	28	587	-1.9	-7.3	25	1.0	31	587	5.5	-.8	28	1.2	31	586	.2	-5.3	25	2.3	31	459	-17.8	-20.1	19	3.7
900	30	1,037	8.3	1.0	32	2.0	30	1,006	-.8	-8.0	24	4.0	31	1,031	6.5	-3.7	25	4.8	31	1,017	.2	-8.9	26	4.8	31	864	-17.3	-21.7	21	3.4
850	30	1,509	8.6	-2.6	22	1.8	30	1,463	-.4	-8.9	26	5.7	31	1,500	6.2	-5.8	26	8.2	31	1,476	.1	-11.7	27	6.7	31	1,292	-18.6	-22.3	23	3.1
800	30	2,012	8.9	-7.8	24	3.5	30	1,948	-.9	-11.1	27	6.3	31	1,996	4.7	-8.7	26	10.6	31	1,961	-.4	-13.6	27	8.8	31	1,743	-20.2	-25.8	24	3.8
750	30	2,544	6.8	-12.0	23	6.2	30	2,463	-1.7	-14.2	27	7.2	31	2,520	2.5	-12.5	26	12.2	31	2,476	-1.5	-15.3	27	11.4	31	2,219	-22.1	-27.7	25	4.5
700	30	3,107	4.4	-15.1	25	8.5	30	3,010	-4.0	-17.2	27	9.0	31	3,075	-.4	-14.1	26	14.2	31	3,024	-3.9	-16.5	27	13.7	31	2,725	-24.3	-30.9	25	6.5
650	30	3,707	1.1	-17.9	25	10.6	30	3,592	-6.7	-20.4	27	11.8	31	3,665	-3.3	-17.3	26	16.4	31	3,605	-6.9	-19.4	26	17.0	31	3,262	-26.8	-33.1	25	8.2
600	30	4,345	-3.2	-22.3	25	13.6	30	4,213	-10.5	-23.8	27	13.5	31	4,294	-6.7	-22.1	26	18.6	31	4,227	-10.2	-23.0	26	20.3	31	3,836	-30.1	-35.9	26	8.8
550	30	5,028	-7.3	-26.2	25	16.9	30	4,877	-14.7	-28.1	26	15.9	31	4,967	-11.1	-27.1	26	22.0	31	4,892	-14.4	-27.3	26	22.6	31	4,451	-33.9	-38.6	26	9.9
500	30	5,765	-11.7	-30.0	25	20.0	30	5,591	-19.8	-31.2	26	17.6	31	5,693	-15.7	-30.9	26	24.5	31	5,608	-19.3	-31.4	26	25.3	31	5,113	-38.0	-38.0	26	11.7
450	30	6,565	-16.5	-34.3	25	21.7	30	6,365	-25.2	-35.9	26	19.2	31	6,479	-21.4	-34.9	26	27.1	31	6,383	-24.7	-35.9	26	27.9	31	5,832	-42.5	-41.2	26	12.9
400	30	7,440	-22.7	-37.3	26	24.4	30	7,210	-31.5	-40.8	26	22.1	31	7,336	-27.6	-39.8	26	31.5	31	7,230	-30.5	-40.8	26	31.5	31	6,619	-47.2	-40.7	27	14.7
350	30	8,409	-29.9	-41.6	26	28.6	30	8,144	-38.3	-44.0	26	25.2	31	8,287	-34.2	-43.0	26	35.6	31	8,169	-37.2	-43.6	26	35.4	31	7,497	-51.8		27	15.1
300	30	9,487	-37.6	-48.0	26	32.8	30	9,183	-46.1		26	27.9	31	9,346	-41.5	-46.7	26	40.7	31	9,215	-44.5	-42.6	26	39.4	31	8,486	-54.7		26	15.7
250	30	10,724	-45.2		26	41.3	30	10,377	-52.7		25	32.7	31	10,563	-49.1		26	47.1	31	10,418	-51.2		26	43.5	31	9,650	-54.8		26	16.0
200	30	12,186	-54.2		27	42.0	29	11,806	-54.2		26	38.3	30	12,003	-54.9		26	50.5	31	11,855	-54.6		26	46.2	31	11,087	-51.4		25	16.6
175	30	13,034	-58.3		27	40.1	29	12,662	-54.6		26	34.8	30	12,852	-57.2		26	47.9	31	12,709	-55.2		27	43.5	31	11,958	-49.7		25	17.7
150	30	13,994	-63.0		27	35.9	29	13,646	-55.8		26	30.5	28	13,813	-60.1		27	41.9	31	13,689	-57.4		26	38.7	30	12,963	-48.6		25	19.3
125	29	15,104	-67.6		27	32.1	29	14,801	-58.2		26	26.6	26	14,941	-64.1		26	35.9	31	14,834	-60.0		26	33.4	30	14,167	-47.2		25	18.8
100	29	16,432	-71.9		27	22.7	29	16,197	-61.1		27	20.6	26	16,297	-66.8		27	28.2	31	16,217	-63.0		27	26.1	30	15,646	-46.5		24	20.8
80	29	17,741	-72.9		27	15.8	28	17,572	-63.0		27	15.2	26	17,642	-67.9		27	19.1	30	17,579	-64.1		27	19.0	30	17,130	-45.9		25	23.0
70	29	18,527	-71.7		27	12.8	28	18,395	-62.5		27	13.1	25	18,449	-67.1		27	13.7	30	18,397	-64.3		27	15.7	30	18,019	-45.9		24	23.2
60	29	19,441	-70.0		27	8.8	28	19,347	-62.3		28	9.0	24	19,378	-65.8		27	9.8	30	19,341	-63.7		28	12.2	30	19,044	-46.4		24	23.5
50	29	20,533	-67.6		27	6.3	27	20,477	-61.2		29	5.8	23	20,494	-63.5		28	6.0	30	20,463	-62.6		29	9.3	28	20,261	-46.3		25	22.2
40	28	21,887	-64.6		27	2.3	26	21,871	-60.7		32	4.4	23	21,870	-62.0		31	3.6	29	21,842	-61.9		30	7.8	28	21,744	-45.8		25	21.5
30	28	23,659	-61.6		01	1.0	25	23,661	-60.3		36	5.4	21	23,654	-60.6		34	4.4	29	23,629	-60.6		32	6.6	26	23,603	-45.1		24	19.2
25	28	24,794	-59.7		06	2.2	21	24,784	-59.6		01	6.6	20	24,789	-59.0		36	4.5	27	24,758	-59.9		32	8.7	22	24,874	-44.6		25	19.4
20	28	26,196	-57.9		06	3.2	20	26,186	-58.8		36	6.4	20	26,196	-57.3		01	4.6	27	26,157	-58.3		31	8.9	18	26,388	-43.7		25	14.2
15	28	28,025	-54.4		08	2.1	19	27,997	-57.9		33	8.7	17	28,018	-55.4		31	5.1	24	27,984	-56.7		31	9.9	14	28,286	-45.3			
10	12	30,618	-52.4				11	30,582	-53.2				9	30,643	-50.5				19	30,582	-52.4		28	19.5	8	31,001	-44.6			

See reference note at end of table

RAWINSONDE DATA

Average monthly values

NORTH PLATTE, NEBR. — 918 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	847	-9.3	-11.9	33	1.7
1000						
950						
900	31	1,000	-4.9	-10.1	32	4.1
850	31	1,453	-1.9	-13.4	32	6.4
800	31	1,935	-2.8	-15.4	32	6.3
750	31	2,445	-4.8	-16.3	31	6.7
700	31	2,985	-7.1	-17.2	30	7.4
650	31	3,560	-9.8	-21.2	30	9.0
600	31	4,173	-13.6	-25.1	29	10.1
550	31	4,830	-17.7	-29.1	29	11.6
500	31	5,537	-22.3	-34.6	28	13.9
450	31	6,303	-27.7	-39.9	28	14.9
400	31	7,139	-34.3	-45.1	28	15.5
350	30	8,062	-41.5	-52.3	27	16.5
300	30	9,087	-49.2		27	17.5
250	30	10,266	-55.0		27	21.4
200	30	11,688	-55.1		27	21.9
175	30	12,544	-53.6		27	22.5
150	30	13,536	-53.9		27	21.9
125	30	14,704	-55.1		27	20.5
100	30	16,124	-56.8		27	17.1
80	30	17,531	-58.5		28	13.7
70	30	18,370	-58.8		28	12.1
60	30	19,338	-58.7		29	10.9
50	30	20,483	-58.4		30	8.8
40	30	21,887	-58.5		32	7.5
30	29	23,703	-58.4		34	7.7
25	27	24,851	-58.2		35	8.5
20	26	26,257	-57.7		34	9.5
15	19	28,095	-57.0		02	10.5
10	5	30,927	-50.3			
7						

OAKLAND, CALIF. — 1019 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	6	7.3	4.3	13	1.8
1000	31	159	8.3	3.3	14	1.9
950	31	582	6.7	.9	19	2.2
900	31	1,025	4.5	-3.0	21	2.7
850	31	1,490	2.9	-8.3	23	5.0
800	31	1,979	1.2	-12.6	26	5.3
750	31	2,496	-1.4	-15.2	27	6.1
700	31	3,043	-4.1	-16.8	28	8.3
650	30	3,627	-7.4	-21.5	28	9.8
600	30	4,245	-11.4	-26.5	28	11.5
550	30	4,907	-15.8	-28.2	29	12.2
500	30	5,619	-20.6	-32.6	29	14.3
450	30	6,390	-26.3	-36.7	29	15.8
400	30	7,231	-32.6	-42.6	28	17.6
350	30	8,160	-39.8	-49.2	29	20.0
300	30	9,194	-47.8		29	23.8
250	30	10,378	-54.7		29	23.0
200	29	11,799	-56.2		28	24.4
175	29	12,653	-53.9		28	23.8
150	28	13,642	-54.7		28	22.7
125	27	14,809	-56.5		28	19.2
100	26	16,215	-58.8		29	13.6
80	24	17,609	-60.1		29	10.0
70	23	18,446	-59.8		30	6.8
60	22	19,412	-60.0		31	4.0
50	22	20,553	-59.3		01	2.9
40	21	21,958	-58.1		05	4.8
30	21	23,776	-56.6		07	9.0
25	19	24,939	-56.7		07	9.7
20	18	26,355	-56.0		07	11.6
15	10	28,183	-54.0			
10	7	30,849	-51.1			
7						

OMAHA, NEBR. — 970 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	403	-7.8	-10.3	30	.7
1000						
950	30	566	-5.3	-10.1	30	2.4
900	31	987	-2.7	-11.4	29	4.7
850	31	1,442	-2.2	-13.3	28	5.7
800	31	1,922	-3.2	-14.6	29	7.2
750	31	2,432	-5.1	-16.7	30	8.2
700	31	2,971	-7.2	-18.5	29	9.4
650	31	3,546	-10.0	-21.0	29	11.8
600	31	4,160	-13.4	-24.4	28	13.4
550	31	4,817	-17.2	-28.7	28	15.8
500	31	5,525	-21.9	-33.6	28	18.4
450	31	6,292	-27.4	-36.8	28	20.9
400	31	7,129	-33.8	-42.1	27	23.8
350	31	8,054	-40.9	-47.7	27	26.5
300	31	9,081	-49.2		27	27.6
250	31	10,258	-55.2		28	24.8
200	31	11,683	-54.4		27	28.0
175	30	12,540	-53.9		27	23.4
150	27	13,542	-53.7		27	24.1
125	27	14,709	-55.4		27	21.4
100	27	16,124	-58.0		27	19.9
80	27	17,527	-59.0		28	15.9
70	25	18,360	-59.2		28	14.3
60	25	19,325	-59.8		29	11.7
50	25	20,465	-59.7		29	8.2
40	24	21,863	-59.3		31	7.1
30	22	23,679	-59.1		34	7.9
25	18	24,834	-58.3		01	9.7
20	15	26,273	-57.4		36	10.6
15	8	28,147	-55.4			
10						
7						

+ PAGO PAGO, AMERICAN SAMOA — 1006 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	3	29.1	23.9	04	2.1
1000	28	69	27.6	23.8	06	1.9
950	30	516	24.1	21.4	03	2.6
900	30	989	20.9	17.9	36	3.3
850	30	1,482	18.2	14.3	35	3.5
800	30	2,001	16.0	10.7	35	3.0
750	30	2,549	13.7	7.2	34	2.7
700	30	3,128	10.3	3.9	34	2.3
650	30	3,743	7.4	-.9	31	2.0
600	30	4,399	4.0	-5.2	31	1.6
550	30	5,102	.4	-10.1	30	2.1
500	30	5,862	-3.5	-16.3	28	1.6
450	30	6,688	-8.1	-20.3	29	2.7
400	30	7,593	-13.7	-26.4	29	3.4
350	30	8,599	-20.1	-33.7	29	5.1
300	30	9,720	-28.4	-40.4	30	7.0
250	30	11,001	-38.5	-49.9	30	9.5
200	30	12,495	-50.7		31	10.7
175	30	13,352	-57.9		30	9.4
150	29	14,301	-66.0		30	7.7
125	28	15,383	-74.4		30	6.2
100	28	16,656	-81.4		34	.4
80	25	17,908	-79.8		08	7.1
70	28	18,673	-75.7		09	10.5
60	28	19,575	-70.8		09	14.8
50	28	20,672	-65.1		09	19.3
40	28	22,044	-61.3		09	21.9
30	28	23,850	-56.7		09	21.2
25	26	25,012	-54.3		09	21.5
20	24	26,453	-50.3		09	19.2
15	23	28,344	-47.1		09	18.8
10	20	31,055	-42.9		09	22.7
7	6	33,477	-40.3			

* PEORIA, ILL. — 995 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	200	-5.2	-7.8	24	1.0
1000	9	238	-13.0	-17.3		
950	31	561	-4.1	-9.2	27	4.3
900	31	989	-3.0	-10.7	28	6.1
850	31	1,442	-3.1	-13.0	28	7.2
800	31	1,921	-4.0	-15.8	28	8.0
750	31	2,429	-5.7	-18.5	28	9.4
700	31	2,967	-7.9	-20.8	28	10.9
650	31	3,541	-10.6	-24.4	28	12.8
600	31	4,152	-14.1	-27.4	28	14.4
550	31	4,808	-18.2	-30.8	28	17.1
500	31	5,513	-22.7	-34.7	28	19.9
450	31	6,278	-27.9	-39.4	28	21.9
400	31	7,114	-34.0	-44.0	28	23.5
350	31	8,038	-41.0	-46.1	28	25.8
300	31	9,067	-47.8		27	29.7
250	31	10,254	-53.7		27	35.3
200	31	11,684	-54.5		27	36.0
175	30	12,540	-53.8		27	34.5
150	30	13,530	-54.1		27	31.9
125	30	14,694	-56.3		27	27.9
100	29	16,103	-58.9		27	23.3
80	27	17,506	-60.0		27	18.4
70	25	18,330	-60.4		28	16.9
60	25	19,289	-61.0		28	15.2
50	25	20,424	-60.6		30	12.8
40	22	21,828	-59.7		30	10.5
30	19	23,638	-59.6		32	9.3
25	18	24,773	-59.2		33	10.9
20	14	26,225	-57.5		36	10.2
15	13	28,051	-56.2		35	11.4
10	9	30,641	-53.7			
7	5	33,015	-51.5			

* PITTSBURGH, PA. — 976 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	359	-3.4	-7.5	24	3.3
1000						
950	30	572	-3.6	-8.0	25	5.4
900	30	998	-4.8	-11.0	26	7.7
850	30	1,447	-6.2	-14.5	27	9.0
800	30	1,921	-6.8	-16.8	27	10.7
750	30	2,423	-8.0	-19.6	28	12.9
700	30	2,958	-9.5	-21.6	28	15.0
650	30	3,529	-11.7	-22.9	28	17.2
600	30	4,139	-14.5	-26.4	28	19.4
550	30	4,793	-18.5	-29.8	28	21.6
500	30	5,497	-23.3	-33.3	27	24.3
450	30	6,260	-28.5	-37.6	27	27.6
400	30	7,094	-34.3	-42.6	27	31.0
350	30	8,018	-41.0	-46.6	27	34.7
300	30	9,048	-47.4		27	39.6
250	30	10,240	-51.9		27	43.0
200	30	11,677	-53.8		28	37.4
175	30	12,534	-54.0		27	36.0
150	29	13,523	-54.8		27	35.2
125	27	14,682	-56.7		27	31.0
100	27	16,088	-59.5		28	26.0
80	25	17,486	-61.0		28	21.6
70	22	18,315	-60.6		28	18.3
60	19	19,297	-60.7		29	15.0
50	16	20,448	-60.2		29	13.0
40	16	21,843	-59.5		30	11.2
30	13	23,640	-59.1		32	12.4
25	12	24,787	-58.6		32	10.9
20	11	26,167	-58.7		32	14.8
15	11	27,977	-57.9		32	18.3
10	10	30,571	-52.8			
7	8	32,936	-46.8			
5						

+ PONAPE, CAROLINE IS. — 1006 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	39	27.8	22.6	06	3.9
1000	31	90	26.6	21.5	06	4.8
950	31	542	22.8	20.0	07	9.3
900	31	1,012	19.4	17.0	07	9.9
850	31	1,503	16.7	11.9	07	9.1
800	31	2,019	15.5	4.6	08	6.8
750	31	2,565	13.8	-2.1	08	5.0
700	31	3,144	10.8	-7.1	09	5.2
650	31	3,758	8.1	-11.5	08	5.9
600	31	4,415	4.6	-15.6	08	6.0
550	31	5,117	.3	-19.9	08	6.0
500	31	5,875	-4.1	-23.6	08	5.5
450	31	6,698	-8.7	-29.0	09	6.7
400	31	7,602	-13.8	-34.6	09	6.9
350	31	8,607	-20.4	-39.8	09	7.2
300	31	9,726	-28.9	-46.6	11	5.9
250	31	11,004	-39.0	-54.0	11	5.5
200	31	12,495	-51.1		12	6.7
175	31	13,350	-57.9		11	7.3
150	30	14,305	-65.8		10	8.6
125	30	15,391	-73.9		09	9.5
100	30	16,665	-81.9		08	11.1
80	30	17,905	-83.8		09	12.8
70	30	18,658	-77.7		09	14.1
60	29	19,555	-71.7		09	15.6
50	29	20,644	-67.0		09	17.3
40	28	22,007	-61.2		09	14.1
30	27	23,819	-56.1		07	3.2
25	27	24,988	-52.6		28	2.1
20	27	26,438	-50.0		27	7.6
15	25	28,326	-47.7		27	13.5
10	18	31,028	-44.5		26	17.6
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PORTLAND, MAINE — 1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	20	-7.1	-13.0	29	2.0
1000	28	126	-5.7	-12.9	29	3.6
950	31	514	-4.7	-12.1	29	6.0
900	31	939	-5.9	-14.3	30	7.3
850	31	1,385	-7.3	-16.2	30	9.3
800	31	1,857	-8.2	-19.3	29	12.0
750	31	2,357	-9.5	-21.9	29	14.0
700	31	2,888	-11.7	-24.5	28	16.2
650	31	3,453	-14.7	-27.8	28	17.6
600	31	4,055	-18.2	-30.4	28	18.4
550	31	4,700	-22.2	-33.7	27	21.2
500	31	5,394	-26.7	-38.2	27	23.9
450	31	6,147	-31.5	-41.4	27	27.0
400	31	6,971	-37.1	-44.3	28	28.4
350	31	7,885	-43.0	-48.3	27	29.7
300	31	8,907	-49.4		27	32.3
250	31	10,093	-52.8		27	34.1
200	30	11,534	-53.3		26	31.5
175	29	12,398	-52.6		26	30.2
150	29	13,394	-53.1		27	29.2
125	29	14,564	-54.9		27	29.4
100	28	15,978	-57.6		27	23.6
80	28	17,380	-59.3		27	22.3
70	26	18,203	-59.8		28	21.2
60	25	19,159	-60.8		28	19.8
50	24	20,301	-60.5		28	20.3
40	24	21,690	-60.8		29	17.4
30	23	23,477	-60.8		29	18.1
25	22	24,612	-60.9		30	17.8
20	20	26,001	-60.0		30	18.1
15	16	27,805	-59.6		29	20.0
10	13	30,366	-52.8			
7	6	32,692	-48.4			
5						

* QUILLAYUTE, WASH. — 1008 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	58	3.3	-.1	13	1.8
1000	25	145	2.9	-1.9	12	2.8
950	31	533	1.9	-2.2	17	5.5
900	31	968	-.3	-4.6	20	8.0
850	31	1,423	-2.9	-7.8	21	9.5
800	31	1,902	-4.8	-11.2	21	10.2
750	31	2,407	-7.4	-13.8	22	9.9
700	31	2,942	-10.5	-16.8	23	9.7
650	31	3,509	-13.6	-21.0	24	10.0
600	31	4,114	-17.1	-24.1	25	10.7
550	31	4,761	-21.3	-28.4	25	12.0
500	31	5,458	-25.7	-34.2	26	14.6
450	30	6,211	-30.9	-38.5	26	15.7
400	30	7,037	-36.7	-42.2	26	17.2
350	30	7,952	-43.0		27	17.7
300	30	8,973	-50.0		28	19.1
250	30	10,151	-54.6		28	19.5
200	29	11,576	-51.8		28	17.8
175	29	12,445	-50.3		29	16.7
150	28	13,455	-50.4		29	15.5
125	27	14,643	-51.3		29	13.1
100	26	16,088	-52.6		30	10.9
80	26	17,526	-53.8		30	9.5
70	24	18,383	-53.8		31	7.8
60	24	19,374	-53.7		32	6.8
50	23	20,542	-54.1		33	6.4
40	20	21,975	-54.1		35	6.3
30	20	23,819	-54.1		36	7.2
25	17	24,985	-54.0		01	7.6
20	15	26,425	-53.4		02	10.4
15	13	28,281	-53.0		01	11.9
10	13	30,892	-53.2		01	15.6
7	10	33,136	-54.4			
5	7	35,286	-52.7			

RAPID CITY, S. DAK. — 904 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	966	-5.5	-13.7	32	3.3
1000						
950						
900	20	1,036	-7.5	-15.1	32	3.1
850	31	1,450	-2.8	-13.7	31	6.6
800	31	1,929	-4.4	-14.8	32	8.0
750	31	2,436	-6.5	-16.3	31	8.4
700	31	2,972	-9.2	-18.2	31	8.3
650	31	3,543	-12.2	-21.9	30	9.0
600	31	4,151	-15.7	-25.0	30	9.8
550	31	4,801	-19.8	-29.6	29	11.2
500	31	5,502	-24.5	-35.2	28	13.2
450	30	6,255	-30.1	-40.2	28	14.4
400	30	7,083	-36.3	-43.8	28	15.7
350	30	7,999	-43.2	-46.3	28	18.4
300	30	9,018	-50.5		27	19.9
250	30	10,192	-55.7		28	19.9
200	30	11,606	-55.9		28	20.4
175	29	12,466	-53.9		27	19.2
150	29	13,457	-54.0		27	19.2
125	29	14,629	-54.1		27	18.5
100	29	16,056	-55.6		28	16.2
80	27	17,470	-57.2		29	13.8
70	27	18,315	-56.9		29	11.9
60	27	19,290	-57.5		29	10.9
50	25	20,446	-57.5		30	10.4
40	25	21,856	-57.4		32	9.4
30	24	23,668	-57.5		33	11.7
25	22	24,823	-57.8		34	12.2
20	15	26,284	-56.9		34	12.9
15	12	28,159	-54.4			
10						
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ST CLOUD, MINN. — 980 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	316	-13.2	-15.9	31	.8
1000						
950	31	552	-9.4	-12.4	30	3.0
900	31	973	-6.4	-14.0	29	4.9
850	31	1,421	-5.4	-16.5	29	6.4
800	31	1,896	-6.5	-18.2	29	7.8
750	31	2,399	-8.3	-19.9	29	9.0
700	31	2,932	-10.9	-21.7	29	10.0
650	31	3,498	-13.6	-23.0	29	11.4
600	31	4,103	-17.1	-27.0	29	12.3
550	31	4,751	-21.2	-30.8	29	14.1
500	31	5,448	-25.6	-35.0	29	15.4
450	31	6,204	-31.1	-38.8	29	17.0
400	31	7,028	-37.2	-41.9	29	18.3
350	31	7,941	-43.8	-45.7	28	20.0
300	31	8,957	-51.2		29	23.1
250	31	10,128	-55.9		28	24.4
200	31	11,547	-55.3		28	21.9
175	31	12,402	-53.6		28	22.7
150	31	13,396	-53.2		28	20.9
125	31	14,568	-54.3		28	20.8
100	31	15,993	-56.2		28	19.4
80	30	17,404	-57.4		29	17.9
70	30	18,247	-57.7		29	15.7
60	28	19,227	-58.1		29	15.0
50	28	20,376	-58.2		30	15.3
40	25	21,784	-58.9		31	13.5
30	23	23,600	-58.5		32	12.1
25	20	24,768	-58.8		32	13.0
20	16	26,201	-58.9		34	12.8
15	11	28,096	-56.4			
10						
7						

* ST PAUL IS., ALASKA — 1006 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	10	-4.7	-7.4	10	1.3
1000	26	91	-5.6	-9.4	05	2.8
950	31	460	-7.4	-9.3	17	1.2
900	31	879	-10.5	-12.4	20	1.8
850	31	1,317	-12.3	-18.4	22	2.4
800	31	1,779	-14.5	-21.0	24	3.3
750	31	2,266	-16.6	-24.9	25	4.5
700	31	2,782	-18.9	-28.6	24	5.3
650	31	3,331	-21.8	-31.4	24	5.7
600	31	3,917	-25.3	-35.2	24	6.9
550	31	4,543	-29.3	-38.0	24	7.1
500	31	5,218	-33.8	-39.9	24	8.9
450	31	5,949	-38.5	-42.0	24	9.9
400	31	6,750	-43.7	-44.2	23	11.3
350	31	7,640	-48.6		23	12.5
300	30	8,635	-53.1		23	14.5
250	30	9,806	-53.6		23	16.5
200	30	11,255	-49.2		23	16.1
175	29	12,134	-47.3		24	15.5
150	29	13,157	-46.2		24	15.1
125	28	14,358	-45.7		24	15.2
100	27	15,848	-44.8		23	15.0
80	27	17,340	-45.1		23	14.5
70	27	18,232	-45.1		23	13.8
60	26	19,268	-45.7		23	12.1
50	26	20,482	-45.8		23	11.2
40	25	21,972	-45.2		24	8.6
30	25	23,892	-44.9		23	7.3
25	25	25,111	-44.6		23	6.0
20	24	26,598	-44.6		25	5.3
15	23	28,529	-43.8		27	4.6
10	17	31,300	-42.0		30	3.4
7	5	33,739	-40.4			

SALEM, ILL. — 999 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	174	-2.3	-5.4	27	1.0
1000	14	217	-7.2	-10.2	31	1.8
950	31	568	-1.6	-7.2	27	4.3
900	31	1,000	-1.1	-10.6	27	5.8
850	31	1,455	-1.6	-12.8	27	6.2
800	31	1,937	-2.5	-14.2	28	7.6
750	31	2,448	-3.8	-16.3	28	9.4
700	31	2,991	-6.1	-19.3	27	11.1
650	31	3,567	-9.0	-21.5	27	13.1
600	31	4,184	-12.2	-25.0	28	15.4
550	31	4,844	-16.2	-29.4	27	18.0
500	31	5,554	-21.0	-34.5	27	20.8
450	31	6,324	-26.7	-39.0	27	23.4
400	31	7,164	-32.8	-42.9	27	24.8
350	31	8,094	-39.1	-42.3	27	27.1
300	31	9,132	-46.2		26	29.2
250	31	10,326	-52.2		26	31.9
200	31	11,760	-54.5		26	32.6
175	31	12,615	-54.7		27	25.8
150	31	13,601	-55.6		27	22.8
125	31	14,736	-57.9		27	19.8
100	31	16,157	-60.1		27	16.3
80	31	17,542	-61.7		27	13.1
70	31	18,368	-62.0		28	11.1
60	31	19,322	-61.9		29	8.0
50	31	20,451	-61.5		30	6.2
40	31	21,835	-61.0		32	5.4
30	31	23,626	-60.4		36	6.6
25	30	24,757	-60.2		36	7.4
20	29	26,158	-60.2		36	10.0
15	22	27,939	-58.9		36	12.0
10	11	30,525	-55.3			
7						

SALEM, OREG. — 1010 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	61	2.9	-.3	19	1.4
1000	28	153	2.4	-.8	19	1.6
950	31	554	2.6	-2.3	20	4.4
900	31	991	1.5	-5.6	20	6.1
850	31	1,450	-.8	-8.2	22	7.7
800	31	1,932	-3.1	-10.9	23	8.5
750	31	2,441	-5.9	-14.4	23	9.3
700	31	2,978	-9.0	-18.3	24	10.3
650	31	3,548	-12.2	-22.3	25	10.6
600	31	4,157	-15.5	-25.0	26	11.7
550	31	4,808	-19.6	-28.6	26	13.5
500	31	5,510	-24.2	-31.8	27	14.6
450	31	6,270	-29.5	-37.6	27	16.1
400	31	7,101	-35.4	-42.3	28	19.0
350	31	8,021	-42.0	-43.6	28	21.7
300	31	9,045	-49.4		28	23.7
250	31	10,223	-54.7		28	22.5
200	31	11,647	-54.8		28	20.5
175	31	12,507	-51.8		28	18.3
150	31	13,509	-51.5		28	16.2
125	31	14,688	-53.1		28	14.5
100	31	16,122	-54.7		28	13.0
80	29	17,557	-55.1		29	8.6
70	29	18,410	-55.0		30	6.2
60	29	19,394	-55.5		31	4.8
50	28	20,555	-55.1		33	4.8
40	27	21,978	-55.3		36	3.8
30	26	23,820	-54.4		02	5.3
25	26	24,989	-54.4		03	6.5
20	24	26,411	-54.4		02	9.3
15	15	28,296	-53.2		04	10.9
10						
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SALT LAKE CITY, UTAH — 874 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point +	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	1,288	-8.8	-12.1	16	1.5
1000						
950						
900						
850	31	1,502	-5.5	-9.0	18	2.5
800	31	1,980	-4.9	-11.3	19	3.5
750	31	2,486	-6.6	-13.7	22	3.2
700	31	3,023	-9.1	-16.3	27	4.6
650	31	3,593	-11.7	-19.5	27	6.4
600	31	4,203	-15.1	-23.6	28	8.5
550	31	4,856	-18.8	-27.2	28	10.2
500	31	5,560	-23.4	-31.9	28	11.4
450	31	6,323	-28.8	-38.0	28	12.6
400	31	7,155	-35.0	-43.8	28	13.8
350	31	8,075	-42.2	-48.1	28	15.1
300	31	9,098	-49.7		28	16.4
250	31	10,275	-54.6		28	19.2
200	31	11,698	-55.5		28	18.2
175	31	12,553	-53.7		28	18.8
150	31	13,545	-53.5		28	18.7
125	31	14,714	-54.9		27	16.7
100	30	16,138	-56.7		28	14.5
80	29	17,549	-58.6		28	10.5
70	29	18,389	-58.2		29	8.2
60	29	19,358	-58.8		30	6.0
50	29	20,503	-58.4		32	4.5
40	29	21,911	-57.7		36	3.6
30	27	23,733	-56.7		02	6.2
25	25	24,889	-55.9		05	8.4
20	23	26,315	-55.6		04	9.5
15	17	28,158	-55.7		03	10.7
10	8	30,757	-53.3			
7						

See reference note at end of table

RAWINSONDE DATA

Average monthly values

JANUARY 1973

SAN DIEGO, CALIF. 1004 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	124	8.1	3.9	01	.9
1000	28	160	10.4	2.6	01	1.2
950	31	582	10.1	-.6	32	1.0
900	31	1,030	7.7	-4.4	31	1.7
850	31	1,499	5.8	-9.2	31	2.9
800	31	1,993	3.4	-12.6	31	4.6
750	31	2,514	.8	-16.8	30	6.4
700	31	3,066	-1.5	-19.9	30	8.7
650	31	3,652	-4.8	-23.4	30	10.8
600	31	4,277	-8.7	-27.0	30	12.7
550	31	4,945	-13.2	-30.6	30	14.2
500	31	5,664	-18.4	-35.1	30	16.1
450	31	6,442	-23.9	-39.5	29	18.4
400	31	7,291	-30.3	-44.1	29	20.2
350	31	8,229	-37.7	-48.5	29	22.2
300	31	9,271	-45,7		29	25.0
250	31	10,467	-52.5		28	28.3
200	31	11,903	-53.5		27	33.8
175	31	12,760	-54.5		27	32.4
150	31	13,743	-56.3		27	31.4
125	31	14,892	-59.6		27	25.5
100	31	16,275	-63.2		27	19.1
80	30	17,646	-63.8		27	11.7
70	30	18,465	-63.9		27	8.3
60	29	19,410	-63.4		29	4.4
50	28	20,534	-62.3		33	2.1
40	27	21,920	-60.4		04	4.1
30	27	23,721	-58.3		07	7.9
25	27	24,872	-57.0		07	8.9
20	24	26,286	-55.4		07	10.0
15	21	28,119	-53.9		07	9.9
10	9	30,728	-51.9			

SAN JUAN, P. R. 1017 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	6	23.2	19.4	12	1.8
1000	31	151	23.1	19.6	09	4.5
950	31	597	20.0	17.2	10	6.6
900	31	1,062	17.0	13.7	10	6.7
850	31	1,548	14.1	8.4	10	6.7
800	31	2,059	12.3	2.5	10	5.5
750	31	2,599	10.9	-5.7	10	5.4
700	31	3,172	8.8	-10.9	10	4.9
650	31	3,781	6.0	-16.1	11	4.4
600	31	4,432	2.6	-20.1	10	4.2
550	31	5,131	-1.2	-24.5	08	3.1
500	31	5,883	-6.4	-27.7	03	2.5
450	31	6,698	-11.7	-32.0	36	4.0
400	31	7,590	-18.2	-36.9	34	6.1
350	31	8,575	-25.8	-42.5	33	8.5
300	31	9,670	-34.6	-49.5	33	12.8
250	31	10,918	-44.2		32	15.5
200	31	12,380	-54.4		31	16.3
175	31	13,226	-59.3		30	15.4
150	31	14,179	-65.0		30	14.2
125	31	15,275	-70.9		29	11.7
100	31	16,576	-76.9		30	8.2
80	31	17,853	-78.0		32	2.9
70	31	18,622	-74.6		35	1.6
60	31	19,531	-69.3		04	2.1
50	30	20,630	-65.7		09	3.6
40	30	21,996	-62.8		07	5.1
30	28	23,781	-58.9		05	3.1
25	28	24,933	-56.2		02	1.7
20	26	26,362	-52.3		27	4.0
15	22	28,246	-47.9		27	11.9
10	7	30,908	-43.7			

* SAULT STE MARIE, MICH. 987 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	221	-7.6	-10.0	26	.8
1000						
950	31	515	-7.8	-9.8	26	3.1
900	31	936	-7.7	-11.5	28	5.3
850	31	1,380	-8.3	-13.5	28	7.2
800	31	1,850	-9.6	-15.5	28	9.6
750	31	2,347	-11.4	-18.3	28	11.2
700	31	2,874	-13.8	-20.7	29	13.3
650	31	3,435	-16.1	-23.6	29	13.8
600	31	4,034	-19.5	-27.1	29	14.7
550	31	4,676	-23.4	-31.5	28	15.8
500	31	5,367	-28.0	-35.4	28	17.3
450	31	6,116	-33.1	-37.7	28	18.3
400	31	6,934	-38.9	-41.4	28	19.6
350	31	7,842	-44.6	-42.8	28	22.8
300	31	8,858	-50.1		28	25.9
250	31	10,039	-53.6		28	28.1
200	31	11,473	-53.2		28	29.7
175	30	12,334	-52.7		28	28.6
150	30	13,331	-52.6		28	29.0
125	29	14,492	-53.9		28	27.9
100	29	15,918	-56.0		28	26.0
80	28	17,324	-57.7		28	25.7
70	28	18,166	-58.3		28	24.6
60	28	19,135	-59.0		29	24.0
50	28	20,278	-59.2		29	24.3
40	26	21,683	-60.0		29	24.0
30	26	23,475	-60.7		30	23.1
25	24	24,629	-60.5		30	21.7
20	21	26,037	-59.5		30	19.7
15	19	27,799	-59.6		30	21.1
10	17	30,395	-57.1		30	22.4
7	14	32,708	-52.1		29	26.1
5	8	34,982	-50.4			
4	6	36,381	-51.0			

* SHEMYA, ALASKA 998 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	30	38	-1.5	-4.8	05	.7
1000	12	93	-1.7	-6.9	02	.6
950	30	429	-4.6	-7.5	09	2.2
900	30	852	-8.3	-9.4	12	2.1
850	30	1,293	-11.6	-13.6	15	1.6
800	30	1,755	-14.6	-18.1	20	1.9
750	30	2,241	-17.7	-23.3	23	3.6
700	30	2,755	-20.7	-27.1	23	4.8
650	30	3,299	-24.1	-30.4	23	6.2
600	30	3,879	-27.5	-35.0	23	6.7
550	30	4,500	-31.5	-38.7	23	7.3
500	30	5,168	-35.9	-40.2	23	8.7
450	30	5,894	-40.4	-41.2	23	10.4
400	30	6,688	-45.4	-42.0	23	12.3
350	30	7,572	-50.1		24	14.3
300	30	8,567	-53.9		24	13.2
250	30	9,738	-53.2		24	14.7
200	30	11,189	-49.3		25	16.0
175	30	12,067	-48.0		24	16.5
150	30	13,085	-47.4		24	16.5
125	30	14,294	-46.4		24	15.9
100	30	15,780	-45.4		24	15.3
80	28	17,270	-45.4		24	13.7
70	28	18,160	-46.0		24	13.7
60	26	19,180	-46.2		24	13.6
50	25	20,401	-46.2		23	11.1
40	25	21,884	-46.4		23	7.8
30	23	23,790	-45.6		21	6.2
25	22	25,007	-45.3		20	4.7
20	22	26,497	-45.4		17	4.8
15	18	26,437	-43.7		15	5.3
10	14	31,169	-42.6		13	6.2
7	10	33,645	-41.0			

* SHREVEPORT, LA. 1011 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	79	3.5	.2	30	.9
1000	28	178	4.5	.0	33	1.0
950	31	581	4.3	-2.0	27	2.1
900	31	1,021	4.1	-5.0	25	4.0
850	31	1,487	4.9	-6.7	25	7.1
800	31	1,982	4.2	-9.0	25	9.4
750	31	2,505	2.3	-13.9	26	11.0
700	31	3,060	-.5	-16.9	26	12.7
650	31	3,649	-3.7	-19.0	26	13.8
600	31	4,277	-7.5	-23.0	26	15.6
550	31	4,948	-12.0	-26.6	25	17.8
500	31	5,670	-17.2	-30.7	25	20.9
450	31	6,452	-22.8	-36.6	25	23.8
400	31	7,305	-28.7	-40.7	25	28.0
350	31	8,251	-35.3	-42.9	25	31.4
300	31	9,305	-42.6	-46.9	26	36.6
250	31	10,518	-48.9		26	43.2
200	31	11,968	-53.4		26	47.3
175	30	12,816	-55.8		26	41.9
150	29	13,784	-58.4		26	36.4
125	28	14,919	-61.7		27	34.2
100	28	16,288	-65.3		27	27.4
80	26	17,643	-67.0		27	18.7
70	25	18,454	-66.3		26	13.5
60	24	19,392	-65.9		27	10.9
50	24	20,504	-63.9		29	3.7
40	23	21,885	-61.8		28	4.2
30	20	23,669	-60.6		04	4.7
25	19	24,811	-59.1		05	5.7
20	19	26,214	-57.7		05	6.4
15	14	28,034	-55.8		05	5.8
10	12	30,627	-51.7		33	4.8
7	9	32,966	-47.7			

SPOKANE, WASH. 933 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	720	-4.2	-7.4	12	1.1
1000						
950						
900	31	1,002	-2.9	-7.4	18	2.9
850	31	1,455	-3.9	-11.3	22	4.7
800	31	1,932	-6.1	-14.8	23	5.6
750	31	2,435	-8.5	-16.7	24	6.9
700	31	2,967	-11.3	-19.2	25	7.9
650	31	3,533	-14.2	-22.9	26	9.0
600	31	4,136	-18.0	-26.3	26	10.2
550	31	4,781	-22.0	-30.1	26	10.6
500	31	5,476	-26.8	-34.4	26	12.6
450	31	6,229	-31.8	-38.0	27	13.7
400	31	7,052	-37.2	-41.7	27	16.0
350	31	7,965	-43.4	-43.1	27	17.6
300	31	8,985	-49.6		27	19.6
250	31	10,166	-53.9		28	20.9
200	31	11,595	-53.8		28	18.7
175	31	12,457	-51.6		28	16.7
150	31	13,460	-51.0		28	15.3
125	31	14,644	-52.1		28	13.0
100	29	16,083	-53.3		29	13.0
80	29	17,519	-53.4		29	11.0
70	29	18,379	-53.6		30	8.7
60	29	19,367	-54.8		31	8.9
50	29	20,534	-54.2		32	8.0
40	28	21,963	-54.1		33	6.6
30	26	23,825	-53.7		35	8.2
25	25	25,002	-53.9		36	9.1
20	20	26,439	-53.3		01	10.0
15	13	28,295	-52.8		04	10.5

* SWAN ISLAND, W. I. 1013 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	10	24.9	21.3	08	2.9
1000	31	119	24.4	20.8	07	3.7
950	31	568	21.1	18.5	08	5.0
900	31	1,035	17.8	15.0	09	4.8
850	31	1,522	14.4	10.9	10	4.2
800	31	2,033	11.7	6.8	11	3.9
750	31	2,572	9.7	.8	11	4.4
700	31	3,144	8.9	-7.0	12	4.1
650	31	3,756	7.4	-11.1	12	3.4
600	31	4,412	4.4	-15.3	13	2.3
550	31	5,114	.1	-18.9	16	2.5
500	31	5,870	-5.3	-24.3	19	2.5
450	31	6,689	-10.6	-28.8	22	3.2
400	31	7,584	-17.1	-34.6	24	5.4
350	31	8,573	-24.6	-40.4	25	7.9
300	31	9,673	-33.1	-47.4	27	11.8
250	31	10,928	-43.3		28	13.5
200	31	12,393	-54.5		27	16.6
175	31	13,236	-60.5		27	17.8
150	31	14,183	-66.3		27	16.1
125	31	15,271	-72.6		27	13.0
100	30	16,562	-78.8		28	7.9
80	29	17,828	-79.3		30	1.8
70	29	18,591	-76.4		09	.7
60	27	19,485	-71.8		09	2.4
50	27	20,574	-66.8		08	3.2
40	26	21,932	-64.2		08	3.7
30	26	23,712	-59.6		04	2.2
25	25	24,857	-57.2		32	2.1
20	23	26,287	-53.4		29	5.2
15	22	28,161	-49.2		27	10.9
10	9	30,804	-45.1			

TAMPA, FLA. 1019 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	8	12.7	10.9	07	1.2
1000	31	164	14.4	9.8	08	1.8
950	31	598	13.9	8.3	16	1.5
900	31	1,054	13.1	4.5	22	3.0
850	31	1,534	11.2	1.1	24	4.6
800	31	2,038	9.1	-3.0	25	6.1
750	31	2,572	7.4	-8.0	25	8.2
700	31	3,137	4.7	-11.1	25	10.4
650	31	3,738	1.5	-14.4	26	11.6
600	31	4,378	-1.9	-19.5	26	14.2
550	31	5,064	-6.3	-24.5	26	17.5
500	31	5,803	-11.3	-27.8	26	19.4
450	31	6,603	-16.8	-31.9	26	22.6
400	31	7,477	-23.0	-37.2	26	25.7
350	31	8,444	-29.7	-41.7	26	28.7
300	31	9,523	-38.0	-45.7	26	33.3
250	31	10,756	-46.5		27	37.2
200	31	12,205	-55.5		27	39.6
175	31	13,049	-59.6		27	38.6
150	31	14,005	-63.3		28	30.6
125	31	15,114	-67.6		27	28.0
100	30	16,447	-71.5		27	18.9
80	30	17,757	-73.1		27	13.6
70	29	18,542	-71.0		27	9.8
60	29	19,459	-69.2		27	7.6
50	29	20,557	-66.1		27	5.7
40	29	21,920	-63.1		30	3.8
30	27	23,700	-60.4		34	3.4
25	27	24,841	-58.6		36	3.3
20	26	26,252	-56.5		35	2.8
15	26	28,088	-53.5		30	5.8
10	20	30,737	-47.2		27	8.2

TOPEKA, KANS. 987 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	268	-4.8	-8.4	29	.8
1000						
950	31	571	-2.8	-7.7	27	2.3
900	31	1,001	-1.3	-10.0	27	4.3
850	31	1,458	-.8	-11.3	28	5.7
800	31	1,941	-2.0	-12.0	28	6.6
750	31	2,453	-3.7	-13.7	28	7.5
700	30	2,997	-6.0	-16.5	29	9.5
650	30	3,574	-8.9	-19.3	28	11.2
600	30	4,190	-12.3	-22.9	28	12.7
550	30	4,850	-16.5	-27.5	27	14.7
500	30	5,560	-21.2	-31.4	27	16.9
450	30	6,329	-26.8	-36.1	27	18.1
400	30	7,168	-33.1	-42.4	27	20.4
350	30	8,097	-40.2	-45.2	26	22.9
300	30	9,127	-48.2		26	24.3
250	30	10,312	-53.7		26	26.7
200	30	11,742	-54.6		27	27.5
175	30	12,597	-54.2		27	24.7
150	30	13,586	-54.6		27	23.5
125	30	14,748	-56.7		27	20.2
100	30	16,156	-58.8		28	17.1
80	30	17,551	-60.2		28	13.3
70	30	18,384	-60.5		28	10.7
60	30	19,345	-60.5		29	8.6
50	30	20,482	-59.6		30	7.6
40	30	21,877	-59.8		32	6.8
30	27	23,683	-59.1		35	6.6
25	26	24,822	-58.7		36	6.8
20	26	26,226	-58.0		01	8.3
15	22	28,076	-56.4		01	9.6
10	9	30,694	-55.9			

* TRUK, CAROLINE IS. 1012 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	2	28.1	23.2	05	5.8
1000	31	107	26.9	22.2	06	7.2
950	31	559	23.1	20.1	07	9.3
900	31	1,029	19.8	16.3	07	9.8
850	31	1,521	17.1	9.8	07	8.6
800	31	2,038	15.9	3.9	07	7.2
750	31	2,585	14.0	-1.4	08	6.5
700	31	3,164	11.1	-6.9	08	5.7
650	31	3,779	8.1	-12.4	09	6.3
600	31	4,435	4.3	-15.6	10	6.3
550	31	5,137	.1	-21.6	10	6.7
500	31	5,894	-4.4	-25.5	09	7.3
450	31	6,716	-8.9	-30.7	09	8.4
400	31	7,620	-13.6	-34.5	08	7.9
350	31	8,625	-20.4	-40.5	08	7.1
300	31	9,745	-28.9	-47.4	08	5.5
250	31	11,022	-39.1	-54.3	10	5.3
200	31	12,512	-51.3		11	6.4
175	31	13,367	-58.2		11	7.4
150	31	14,319	-66.0		10	8.5
125	31	15,404	-74.1		09	9.1
100	31	16,678	-81.9		09	11.6
80	31	17,921	-81.8		09	12.7
70	30	18,681	-76.1		09	12.1
60	30	19,582	-71.4		09	14.7
50	29	20,672	-67.0		09	18.0
40	29	22,042	-60.5		09	15.1
30	27	23,858	-54.7		08	3.6
25	27	25,033	-51.9		26	2.6
20	27	26,485	-50.0		27	8.3
15	25	28,379	-47.5		26	13.5
10	24	31,083	-43.6		26	18.6
7	15	33,488	-41.0			

* TUCSON, ARIZ. 926 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	789	4.0	-3.3	14	2.5
1000						
950						
900	31	1,020	7.7	-4.7	15	2.3
850	31	1,490	5.8	-7.5	20	2.1
800	31	1,983	2.9	-11.0	23	2.7
750	31	2,504	.5	-14.8	26	3.6
700	31	3,054	-2.2	-18.3	27	5.7
650	31	3,639	-5.6	-21.5	28	7.9
600	31	4,263	-9.4	-25.2	28	10.1
550	31	4,929	-14.1	-29.1	27	11.6
500	31	5,645	-19.6	-33.4	27	13.3
450	31	6,419	-25.2	-38.6	27	14.8
400	30	7,263	-31.5	-44.4	27	17.4
350	30	8,198	-38.1	-49.0	27	20.4
300	30	9,242	-44.1		27	27.5
250	29	10,456	-49.7		27	32.7
200	28	11,902	-52.0		27	36.6
175	28	12,764	-53.6		27	37.4
150	28	13,749	-56.2		27	33.7
125	26	14,896	-59.3		27	26.1
100	26	16,280	-63.0		27	18.6
80	24	17,644	-64.9		27	13.7
70	24	18,460	-64.2		27	8.9
60	24	19,403	-64.3		29	6.2
50	23	20,526	-62.9		34	1.8
40	22	21,903	-60.9		05	3.1
30	20	23,701	-59.0		06	7.0
25	19	24,848	-57.8		07	9.0
20	18	26,262	-56.2		07	10.1
15	14	28,091	-54.6		06	5.9
10	7	30,730	-52.3			

* VANDENBERG AFB, CALIF. 1008 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	100	6.8	4.2	10	.9
1000	30	168	8.4	4.0	06	.9
950	31	591	8.4	.0	35	1.6
900	31	1,037	6.7	-3.9	30	2.1
850	31	1,505	4.5	-7.2	29	3.7
800	31	1,997	2.6	-10.4	29	5.6
750	31	2,516	.2	-14.5	30	7.8
700	31	3,067	-2.4	-18.0	30	9.3
650	31	3,651	-5.7	-21.0	30	11.2
600	31	4,274	-9.7	-24.3	29	12.4
550	31	4,941	-13.8	-28.2	29	13.8
500	31	5,658	-19.0	-34.6	29	14.8
450	31	6,433	-24.8	-38.6	28	16.5
400	31	7,278	-31.6	-43.5	28	18.2
350	31	8,212	-38.8	-46.8	28	20.5
300	31	9,249	-46.8		29	22.7
250	31	10,437	-54.2		28	25.9
200	31	11,861	-55.0		28	28.4
175	31	12,716	-54.2		28	27.6
150	31	13,703	-55.5		28	27.0
125	31	14,859	-58.3		28	21.7
100	31	16,251	-61.4		28	16.2
80	30	17,632	-62.1		29	11.1
70	30	18,457	-62.2		29	7.9
60	29	19,409	-62.1		30	4.3
50	29	20,537	-61.5		35	3.4
40	28	21,926	-59.6		06	4.6
30	28	23,731	-58.3		07	7.6
25	28	24,882	-57.2		07	9.6
20	27	26,297	-56.0		07	11.2
15	22	28,144	-53.7		07	11.7
10	20	30,765	-51.2		07	11.8
7	12	33,133	-48.5			

VICTORIA, TEXAS 1015 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	33	5.7	3.2	36	2.5
1000	30	162	8.0	4.8	01	2.9
950	31	581	7.6	1.0	01	.7
900	31	1,027	8.2	-1.1	22	2.7
850	31	1,500	8.3	-3.3	23	5.2
800	31	2,000	6.9	-4.9	24	7.6
750	31	2,530	5.3	-9.2	25	9.1
700	31	3,090	2.4	-13.3	25	11.4
650	31	3,685	-1.0	-16.1	25	13.2
600	31	4,319	-5.3	-20.3	25	15.1
550	31	4,996	-9.9	-26.4	25	17.2
500	31	5,724	-14.5	-32.5	25	22.0
450	31	6,515	-19.5	-35.7	25	26.8
400	31	7,380	-25.6	-39.9	25	31.3
350	31	8,338	-32.4	-43.6	25	35.4
300	31	9,405	-39.7	-45.9	25	42.6
250	31	10,634	-46.3		26	49.0
200	31	12,093	-53.0		26	51.7
175	31	12,947	-56.7		26	46.8
150	30	13,915	-60.5		26	39.2
125	29	15,042	-65.6		27	32.5
100	29	16,386	-69.2		27	23.2
80	28	17,712	-70.2		26	17.2
70	26	18,506	-69.1		26	13.5
60	26	19,430	-68.0		27	7.8
50	25	20,532	-65.5		28	4.3
40	25	21,897	-63.2		30	1.6
30	25	23,678	-60.8		06	4.2
25	24	24,815	-59.7		04	5.2
20	20	26,212	-57.4		04	3.9
15	17	28,034	-54.8		09	3.4
10	9	30,669	-50.4			

* WAKE IS., PACIFIC AREA 1016 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	5	24.5	20.6	08	4.7
1000	31	144	23.4	19.0	08	5.6
950	31	591	19.7	17.3	08	5.8
900	31	1,055	16.5	13.5	09	5.3
850	31	1,540	13.5	10.2	09	4.8
800	31	2,050	12.0	.9	08	3.5
750	31	2,589	11.0	-8.4	09	1.9
700	31	3,162	8.7	-13.8	11	.2
650	31	3,773	6.8	-18.0	30	1.8
600	31	4,425	3.2	-20.9	30	3.0
550	31	5,125	-.6	-24.3	29	4.5
500	31	5,880	-5.0	-27.6	28	5.8
450	31	6,700	-9.9	-32.1	28	7.6
400	31	7,598	-15.8	-36.8	28	9.8
350	31	8,594	-22.6	-42.2	29	11.7
300	31	9,704	-30.8	-49.0	28	12.9
250	31	10,974	-40.1	-55.7	28	14.6
200	30	12,456	-51.7		28	13.9
175	30	13,310	-58.2		27	14.0
150	29	14,261	-65.5		27	14.0
125	29	15,349	-73.0		27	12.1
100	27	16,631	-80.0		27	6.7
80	24	17,890	-81.2		27	1.6
70	24	18,648	-77.3		13	2.7
60	23	19,543	-72.4		11	3.5
50	23	20,630	-67.5		09	4.3
40	22	21,985	-63.2		09	3.8
30	21	23,776	-58.3		06	3.2
25	20	24,934	-55.7		05	5.7
20	18	26,363	-52.9		07	3.3
15	18	28,234	-49.7		28	1.4
10	15	30,922	-45.2		27	4.6
7	6	33,289	-42.5			

* WALLOPS IS., VA. NASA 1019 MB

Standard pressure surface (mb.)	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	4	1.1	-3.6	30	1.6
1000	30	162	2.5	-6.0	32	3.2
950	31	570	1.6	-8.3	30	5.6
900	31	1,005	.4	-10.9	29	6.5
850	31	1,462	-.7	-14.0	28	8.1
800	31	1,945	-2.1	-14.4	27	10.1
750	31	2,457	-3.1	-17.9	27	13.7
700	31	3,001	-5.4	-19.5	27	16.3
650	31	3,579	-8.4	-23.1	27	19.0
600	31	4,197	-11.6	-26.8	27	22.0
550	31	4,859	-15.6	-30.4	27	24.4
500	31	5,571	-20.7	-34.9	27	27.2
450	31	6,342	-25.9	-36.8	27	31.1
400	31	7,184	-32.0	-41.4	27	34.4
350	31	8,119	-38.0	-44.6	27	36.5
300	30	9,158	-45.4		26	34.1
250	30	10,354	-52.6		27	33.9
200	30	11,784	-55.6		27	38.1
175	29	12,639	-55.8		27	35.2
150	28	13,622	-56.9		27	31.3
125	27	14,770	-59.0		27	24.8
100	26	16,161	-61.5		27	22.2
80	25	17,544	-63.1		27	17.0
70	25	18,366	-63.1		28	14.0
60	25	19,315	-62.5		28	12.2
50	25	20,441	-62.0		29	10.0
40	24	21,823	-61.4		31	9.2
30	23	23,618	-60.3		32	8.9
25	23	24,756	-59.6		33	8.0
20	23	26,157	-58.3		33	7.6
15	22	27,969	-56.8		33	8.8
10	18	30,580	-51.7		31	12.3
7	14	32,905	-47.3		28	20.7

See reference note at end of table

RAWINSONDE DATA

Average monthly values

JANUARY 1973

Standard pressure surface (mb.)	WASHINGTON DULLES INT. AP 1009 MB						WAYCROSS, GA. 1014 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	85	-2.9	-7.2	32	1.8	31	44	6.7	4.6	35	.7
1000	28	170	-.3	-8.0	32	2.4	31	100	9.2	3.7	34	.9
950	31	569	-.2	-8.8	30	6.2	31	586	9.5	1.9	25	2.4
900	31	1,001	-1.3	-10.9	30	6.7	31	1,035	9.4	-3.0	24	5.5
850	31	1,455	-2.8	-13.2	29	7.2	31	1,509	8.5	-4.3	25	7.1
800	31	1,935	-3.5	-14.6	28	9.3	31	2,009	7.1	-5.9	25	8.6
750	31	2,445	-4.6	-18.5	27	12.3	31	2,538	4.6	-7.5	26	10.7
700	31	2,986	-6.4	-20.2	27	14.8	31	3,097	1.9	-10.8	26	12.8
650	31	3,563	-9.1	-23.0	27	17.6	31	3,691	-1.2	-17.6	26	15.3
600	31	4,178	-12.5	-25.4	27	20.6	31	4,325	-4.8	-21.7	26	18.2
550	31	4,839	-16.3	-28.5	27	23.7	31	5,003	-9.3	-23.7	26	21.0
500	31	5,569	-21.0	-32.8	27	26.4	31	5,734	-14.1	-29.2	26	24.0
450	31	6,319	-26.5	-36.6	27	30.0	31	6,525	-19.6	-33.7	26	27.2
400	31	7,160	-32.5	-41.2	27	34.0	31	7,389	-25.6	-38.7	26	30.9
350	31	8,091	-39.0	-44.9	27	38.8	31	8,348	-32.3	-42.2	26	34.5
300	30	9,122	-46.0		27	42.9	31	9,414	-40.3	-45.0	26	40.2
250	30	10,317	-52.2		27	45.5	31	10,635	-48.4		26	46.9
200	30	11,750	-55.0		27	45.8	31	12,082	-54.6		27	49.2
175	30	12,603	-54.9		27	43.1	31	12,930	-57.8		27	46.3
150	30	13,588	-55.4		27	38.6	31	13,894	-61.4		27	41.2
125	30	14,744	-58.1		27	33.9	30	15,017	-65.1		27	36.0
100	30	16,141	-60.5		27	28.2	28	16,361	-68.0		27	28.8
80	28	17,526	-61.8		27	22.4	26	17,689	-68.7		27	19.7
70	28	18,354	-62.2		28	19.7	25	18,490	-67.6		27	15.2
60	27	19,312	-62.1		28	17.5	25	19,420	-66.8		27	9.8
50	27	20,441	-61.9		28	15.9	25	20,530	-63.7		27	7.2
40	27	21,825	-60.5		29	13.3	23	21,911	-62.3		29	5.3
30	27	23,616	-60.1		30	12.5	23	23,699	-60.1		33	4.7
25	25	24,761	-59.6		30	11.7	23	24,839	-58.9		35	4.8
20	24	26,154	-58.7		29	12.0	23	26,247	-56.7		34	3.7
15	22	27,970	-56.5		28	15.0	22	28,076	-54.5		32	4.6
10	17	30,536	-52.2		26	30.3	17	30,698	-47.8		28	18.6
7							8	33,049	-44.7			

Standard pressure surface (mb.)	WINNEMUCCA, NEV. 871 MB						WINSLOW, ARIZ. 852 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	1,312	-5.6	-7.1	18	.5	30	1,487	-3.6	-7.1	25	.7
1000												
950												
900												
850	31	1,507	-2.3	-6.8	17	1.7	17	1,550	-4.2	-7.4	28	.3
800	31	1,969	-3.1	-9.6	22	3.0	30	1,986	-2.5	-8.9	25	2.5
750	31	2,498	-5.2	-12.2	25	4.8	30	2,498	-2.9	-12.7	24	5.3
700	31	3,038	-7.6	-16.3	27	8.2	30	3,044	-4.6	-15.9	26	8.1
650	31	3,611	-10.8	-19.7	27	7.2	30	3,624	-7.3	-18.3	27	7.3
600	31	4,222	-14.4	-23.0	27	8.7	30	4,244	-11.1	-22.9	27	9.0
550	31	4,876	-18.8	-27.6	27	10.1	30	4,906	-15.6	-27.6	27	10.2
500	31	5,580	-23.7	-32.3	27	11.7	29	5,623	-20.5	-32.7	27	12.3
450	31	6,341	-29.0	-37.5	28	13.4	29	6,394	-26.4	-37.7	27	13.0
400	31	7,173	-35.2	-42.1	28	13.8	29	7,234	-32.9	-43.3	27	15.3
350	31	8,093	-41.8	-45.6	28	16.3	29	8,164	-39.4	-46.9	27	19.3
300	31	9,120	-48.7		28	18.8	29	9,201	-46.3		27	21.1
250	31	10,301	-54.5		28	19.9	29	10,396	-52.2		27	25.9
200	29	11,723	-55.5		28	17.3	29	11,837	-52.9		27	30.3
175	29	12,578	-53.1		28	17.0	28	12,695	-53.5		27	28.5
150	28	13,574	-52.5		28	17.7	28	13,685	-54.5		27	26.9
125	27	14,749	-54.3		28	14.4	27	14,846	-57.5		27	22.6
100	25	16,176	-56.7		28	11.6	27	16,242	-60.9		27	17.6
80	25	17,587	-57.9		28	9.9	26	17,624	-62.4		27	12.8
70	25	18,428	-58.0		29	7.6	25	18,446	-62.4		28	8.6
60	24	19,404	-57.9		31	4.9	23	19,394	-62.3		28	5.3
50	23	20,552	-57.7		34	2.9	22	20,528	-61.4		32	2.9
40	23	21,965	-56.7		03	3.1	22	21,918	-59.5		03	3.6
30	22	23,792	-55.9		05	6.0	20	23,728	-57.9		03	6.4
25	21	24,953	-55.4		05	6.1	17	24,901	-56.8		06	8.2
20	19	26,375	-54.8		04	9.3	16	26,318	-56.4		07	9.4
15	14	28,231	-53.9		04	10.4	10	28,163	-53.3			
10	5	30,886	-51.4									
7												

Standard pressure surface (mb.)	YAKUTAT, ALASKA 1003 MB						YAP, CAROLINE IS. 1011 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	12	-6.7	-9.8	12	1.3	31	14	27.5	22.7	07	4.2
1000	16	162	-2.0	-5.6	09	1.9	31	108	25.8	21.8	07	5.5
950	31	436	-3.5	-7.7	15	2.3	31	559	22.1	19.7	07	8.4
900	31	862	-5.5	-10.3	18	2.6	31	1,028	19.2	14.7	07	8.4
850	31	1,309	-8.3	-12.7	19	3.9	31	1,518	16.2	10.4	07	7.6
800	31	1,777	-10.9	-16.1	20	5.2	31	2,033	14.8	3.4	08	5.7
750	31	2,271	-13.7	-18.5	20	5.9	31	2,577	13.0	-2.9	09	4.4
700	31	2,792	-16.5	-22.4	21	6.4	31	3,154	10.5	-8.8	10	3.9
650	31	3,346	-19.7	-25.9	22	7.0	31	3,768	7.9	-13.1	09	4.9
600	31	3,937	-23.0	-29.2	22	8.4	31	4,424	4.5	-17.1	09	4.4
550	31	4,569	-27.0	-33.3	22	10.3	31	5,127	.3	-19.8	11	5.2
500	31	5,250	-31.5	-35.9	23	12.0	31	5,884	-4.3	-23.7	10	8.0
450	31	5,988	-36.4	-38.8	24	14.1	30	6,708	-8.2	-28.2	10	9.1
400	31	6,796	-41.7	-42.6	24	16.5	30	7,613	-14.0	-33.7	09	9.2
350	31	7,694	-46.8		24	17.1	30	8,616	-21.0	-39.7	08	7.8
300	31	8,702	-51.2		25	16.0	30	9,732	-29.7	-46.0	06	5.5
250	31	9,884	-52.6		26	16.2	30	11,006	-39.8	-53.8	07	4.5
200	31	11,328	-51.1		27	15.6	30	12,491	-52.1		08	4.5
175	30	12,201	-49.4		26	16.9	31	13,342	-59.0		09	5.0
150	29	13,213	-48.5		26	17.9	30	14,292	-66.6		09	6.5
125	29	14,420	-47.9		27	18.4	30	15,374	-74.3		10	8.8
100	29	15,891	-48.7		27	17.5	29	16,647	-81.9		10	9.9
80	28	17,349	-49.1		27	19.0	29	17,891	-82.3		09	10.3
70	28	18,227	-48.3		28	18.8	28	18,647	-77.5		09	10.1
60	28	19,242	-48.6		28	17.3	28	19,544	-72.1		09	12.8
50	28	20,439	-49.3		28	16.8	27	20,631	-67.4		09	15.6
40	28	21,902	-49.3		29	18.9	26	21,996	-61.1		09	15.2
30	27	23,788	-49.1		30	17.5	26	23,808	-55.9		10	7.0
25	24	24,989	-49.0		31	17.0	26	24,978	-52.9		14	.7
20	22	26,406	-49.2		31	17.2	24	26,425	-50.7		27	4.8
15	16	28,377	-48.0		32	17.5	23	28,308	-48.8		26	10.9
10	5	31,066	-47.6				18	30,994	-44.8		26	15.6
7							9	33,401	-42.7			

Standard pressure surface (mb.)	YUCCA FLAT, NEV. 883 MB					
	No. of observations	Dynamic height	Temperature	Dew Point †	Resultant Wind Direction	Resultant Wind Speed M.p.s.
SURFACE	31	1,198	-4.5	-7.8	33	1.6
1000						
950						
900						
850	31	1,499	.2	-9.0	36	2.3
800	31	1,984	-1.5	-11.9	35	.7
750	31	2,497	-2.8	-13.9	28	1.8
700	31	3,042	-4.5	-16.8	28	3.6
650	31	3,622	-7.8	-19.4	28	5.0
600	31	4,241	-11.7	-22.9	29	7.5
550	31	4,901	-16.3	-27.1	29	9.4
500	31	5,611	-21.5	-32.2	29	10.5
450	30	6,383	-26.9	-36.8	29	11.5
400	30	7,222	-33.3	-42.2	29	14.1
350	30	8,150	-40.1	-46.3	29	16.1
300	30	9,183	-47.3		29	18.1
250	30	10,371	-53.4		29	20.9
200	30	11,801	-54.3		28	22.8
175	29	12,557	-52.9		28	23.1
150	29	13,649	-54.3		28	21.8
125	29	14,813	-56.4		28	19.6
100	29	16,219	-59.2		28	15.0
80	29	17,614	-59.9		28	9.6
70	29	18,447	-60.8		29	7.6
60	29	19,406	-60.6		30	4.9
50	28	20,545	-59.7		35	3.1
40	28	21,945	-58.5		05	3.6
30	27	23,701	-57.4		05	6.7
25	25	24,915	-56.6		06	7.9
20	20	26,349	-55.1		06	10.9
15	10	28,205	-53.4			
10						
7						

Note: All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Dew Point averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon.

The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Dew Point data are not published for standard pressure surfaces for which less than 5 observations are available. Dew Point data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from carbon hygristors.

These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature and dew point in degrees Celsius, and resultant winds in tens of degrees and meters per second.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

\+ Observations for these stations are scheduled at 0000 G.C.T.

† Dew Point temperatures are based on a minimum of 5 observations. Therefore, due to the lesser number of Dew Point observations at the higher levels comparison with dry-bulb temperatures should be made with care. Dew Point temperatures replaced Relative Humidity January 1967.

SOLAR RADIATION INTENSITIES

Tabulated in langleys per minute on a surface normal to the direction of the sun. JANUARY 1973

ALBUQUERQUE, N. MEX.

Date	Sun's zenith distance: A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
	Air mass: 4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
Jan.									
3	0.90	----	----	----	----	1.21	1.04	0.93	0.82
4	----	----	1.01	----	----	----	1.10	----	----
5	----	1.11	----	----	----	----	----	----	----
7	----	(.85)	----	----	----	----	----	1.01	----
8	(.94)	1.07	(1.09)	1.15	1.35	1.33	----	----	----
10	----	----	----	----	----	----	1.09	.94	----
11	----	----	1.18	1.38	1.39	1.39	----	----	----
12	----	----	----	----	----	1.35	----	----	----
13	1.02	1.11	1.23	1.36	1.40	1.37	1.20	1.08	.99
14	1.06	1.15	1.25	1.39	1.41	1.37	1.23	1.10	1.00
15	1.07	(1.12)	1.26	----	----	----	----	----	----
16	.93	1.06	1.20	1.35	1.37	1.35	(1.14)	(1.01)	----
18	1.07	1.15	1.26	1.37	1.40	1.37	1.24	1.12	1.04
19	----	----	----	(1.34)	----	(1.32)	----	----	----
20	----	(1.02)	(1.16)	----	----	----	----	----	----
21	1.02	1.12	1.23	1.33	1.38	1.34	(1.12)	----	----
23	.93	1.04	1.12	1.31	1.38	1.32	1.20	1.10	1.01
24	1.05	1.13	1.20	1.34	1.39	1.35	1.13	1.08	.96
25	1.02	1.14	1.24	1.39	1.43	1.40	1.22	1.10	1.02
26	----	1.11	----	----	----	----	----	----	----
27	.88	1.00	1.10	1.28	(1.35)	1.28	1.14	1.01	.91
28	1.01	1.13	1.24	1.39	1.43	1.40	1.24	1.13	1.01
31	----	----	----	----	(1.30)	(1.25)	----	----	----
Averages	1.00	1.10	1.19	1.34	1.39	1.35	1.17	1.05	0.97

TUCSON, ARIZ.

Date	Sun's zenith distance: A.M. 78.7°	75.7°	70.7°	60.0°	*	P.M. 60.0°	70.7°	75.7°	78.7°
	Air mass: 4.56	3.65	2.74	1.83	*	1.83	2.74	3.65	4.56
Jan.									
1	----	----	1.08	----	----	----	----	1.04	0.94
2	----	----	----	----	1.31	1.28	1.14	1.03	.93
3	0.96	1.06	----	1.34	1.39	1.34	1.21	----	1.01
4	1.05	1.15	1.26	----	----	1.34	1.26	----	----
7	----	----	----	1.27	1.31	----	----	----	----
9	----	----	----	----	----	----	1.20	1.07	.97
10	----	----	----	----	----	----	1.15	.96	.86
11	.86	.98	1.16	1.32	1.42	1.34	----	1.03	----
12	----	----	1.19	1.32	----	----	1.20	1.08	.96
13	1.01	----	1.22	1.36	1.42	1.35	1.20	1.05	.93
14	1.04	1.14	1.26	1.40	1.46	1.40	1.25	1.11	1.03
16	.97	1.07	1.22	----	1.42	----	----	----	----
17	----	----	----	1.40	1.48	1.36	1.20	1.09	1.00
18	1.06	1.12	1.25	1.41	1.47	1.40	----	----	----
19	----	----	----	----	----	1.36	----	----	----
20	----	----	----	----	1.42	1.36	1.17	1.06	.96
21	.98	1.08	1.21	----	----	1.32	----	----	----
22	.84	.99	1.07	1.20	1.31	----	1.09	----	----
23	.97	1.08	1.21	1.36	1.44	1.36	1.25	1.12	1.02
24	1.06	1.16	1.27	1.40	1.49	1.42	1.24	1.09	.99
25	1.03	1.13	1.24	1.38	1.47	1.38	1.21	1.08	.97
26	.92	1.07	----	----	1.44	1.37	1.22	1.07	----
27	.95	1.05	1.17	1.33	1.40	1.33	1.18	1.07	.98
28	1.01	1.11	1.23	1.36	1.41	1.39	1.24	1.13	1.04
31	----	----	----	1.27	1.39	1.30	1.10	.96	.85
Averages	0.98	1.08	1.20	1.34	1.41	1.36	1.20	1.06	0.96

OMAHA, NEBR.

	Air mass: 4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
				NO DATA RECEIVED					

MADISON, WIS.

Date	Air mass: 4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
Jan.									
1	S 0.96	S 1.08	1.24	----	S 1.32	----	S 1.26	S 1.15	S 1.05
2	S .82	S 1.01	S 1.20	----	S 1.27	----	----	----	----
5	----	S 1.03	S 1.19	----	S 1.29	----	1.19	1.04	.93
6	S .93	1.04	1.18	----	----	----	----	----	----
9	S 1.01	S 1.11	S 1.24	----	S 1.35	----	S 1.29	S 1.15	S 1.04
10	S 1.03	S 1.14	S 1.19	----	----	----	----	----	----
11	S .98	S 1.09	S 1.21	----	S 1.31	----	S 1.23	S 1.15	S .99
24	S .85	S .93	S 1.05	----	S 1.27	----	S 1.16	S 1.03	S .90
25	S .89	S 1.00	S 1.14	----	S 1.31	----	M 1.18	M 1.03	M .91
Averages	0.93	1.04	1.18	----	1.26	----	1.22	1.09	.97

( ) Clouds Present
* Values corresponding to true solar noon
BD Blowing Dust
BN Blowing Sand
D Dust
DI Intense Dust
DM Moderate Dust
DS Slight Dust
F Fog
GF Ground Fog
H Haze
HI Intense Haze
HM Moderate Haze
HS Slight
I Intense Haze-indeterminable
K Smoke
KI Intense Smoke
KM Moderate Smoke
KS Slight Smoke
M Moderate Haze-indeterminable
N Sand
S Slight Haze-indeterminable

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

NET RADIATION

Net radiation in langleys per day (8 a.m. to 8 a.m.) at Palmer, Alaska. JANUARY 1973

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	- 64	5	- 4	- 2	4	- 28	1	- 64	- 40	- 31	- 38	-134	-122	-112	-122	-100	- 36	- 69	- 52	- 54	- 22	- 11	- 47	- 81	- 64	- 27	8	- 17	4	- 12	- 74	- 50

The measurement is made with a CSIRO FUNK net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

These data are of an experimental nature and are published as received from the Palmer Exp Station. The instrument with which they were measured has not been checked by the NOAA, National Weather Service.

SOLAR ULTRA-VIOLET RADIATION DATA

Daily totals and monthly average (<3900 Å) at Ames, Iowa.

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	5.24	4.99	1.09	6.70	6.58	6.09	5.60	6.46	6.82	6.58	6.70	6.46	6.46	6.46	4.14	5.36	1.46	1.21	3.77	4.02	2.55	5.24	6.70	7.55	7.19	6.21	1.95	8.28	8.04	7.31	6.09	5.46

These data are from an U-V Eppley total ultra violet sensor and Speedomax H (Leeds Northrup) Recorder.

This instrument has not been checked by the NOAA, National Weather Service.

TOTAL OZONE DATA

These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code λsΩΩΩ defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

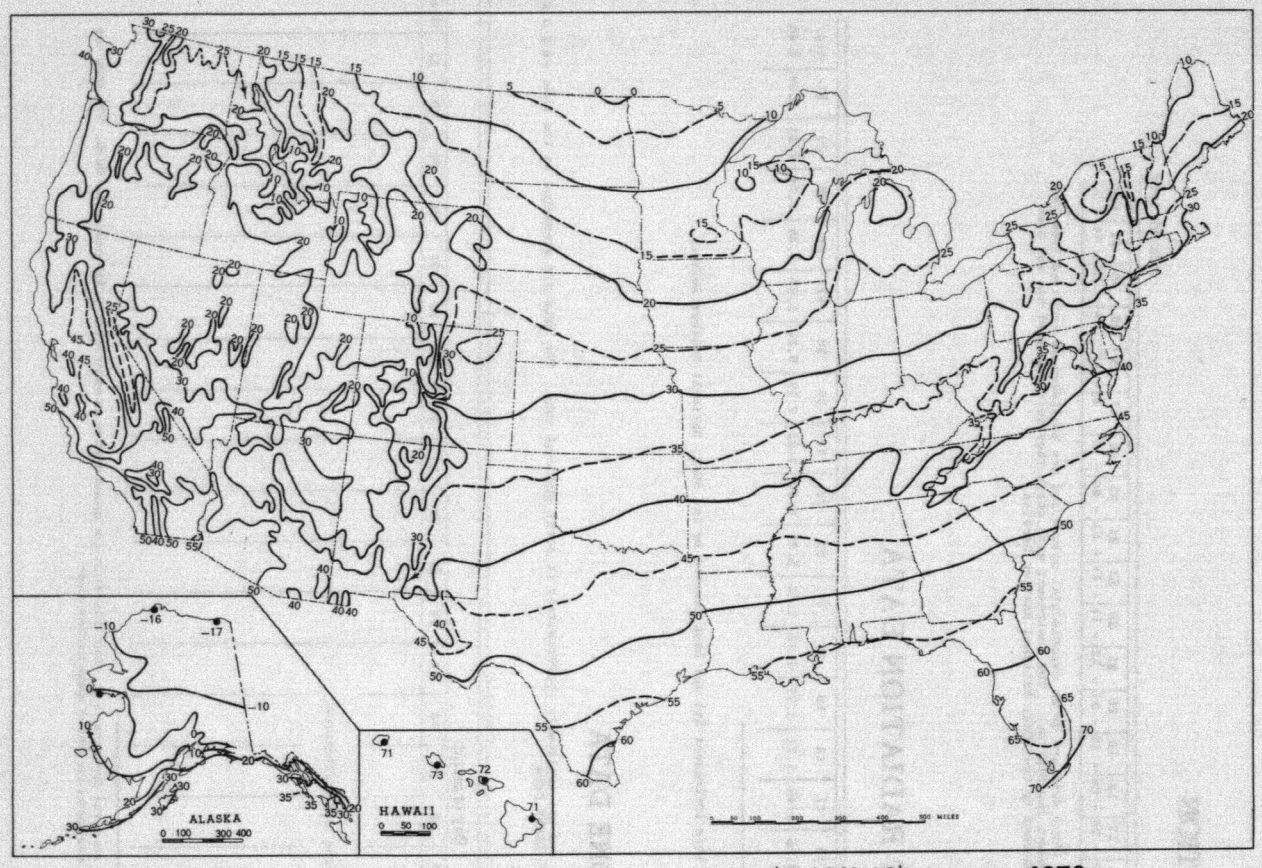
Units: Milli-atmo-cms.

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean O_3

Data not received in time for publication.

The spectrophotometer measures the total amount of ozone in the atmosphere, i.e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded ΩΩΩ) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e.g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λs designates the type of measurement made.

Chart 1. A. Normal Daily Average Temperature (°F. 1931-60), January



B. Temperature Departure from 30 - Year Mean (°F 1931-60), January 1973

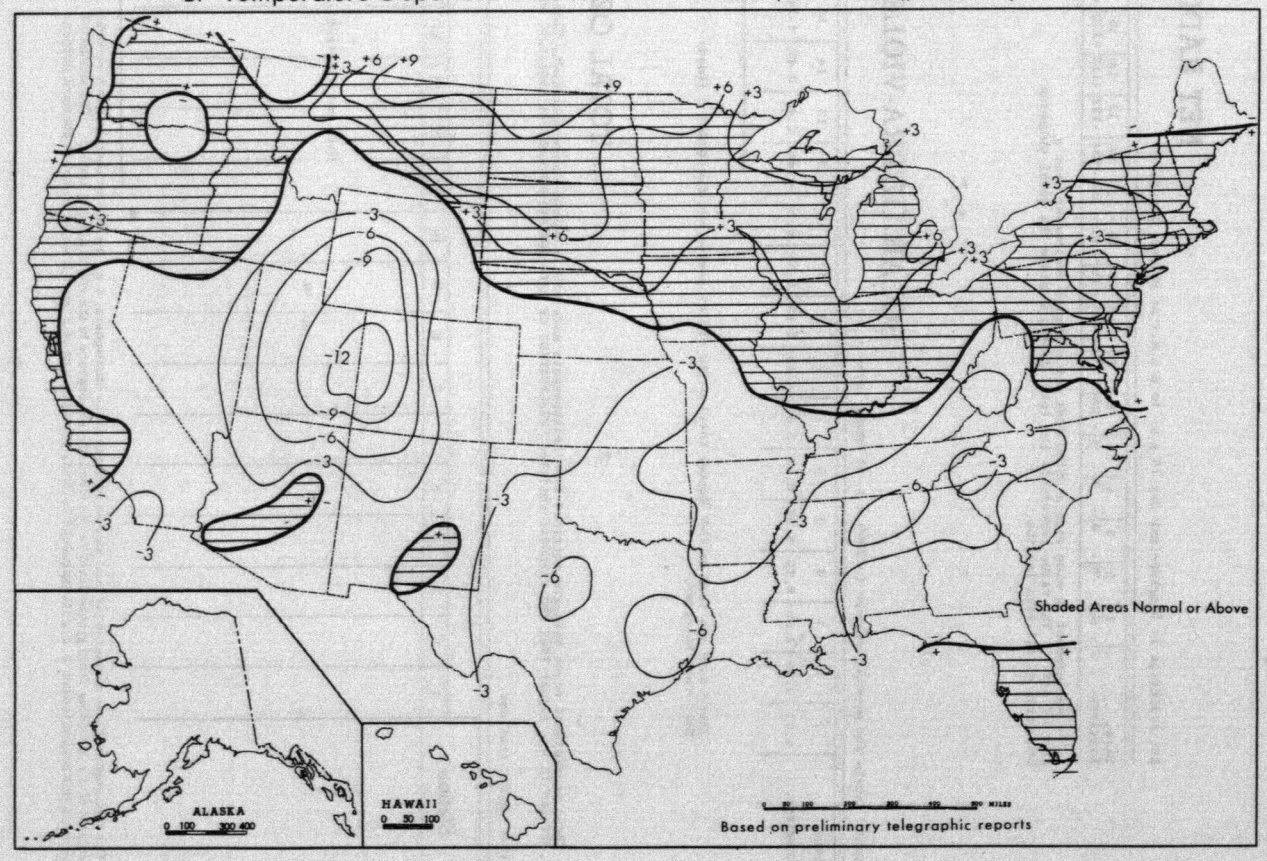
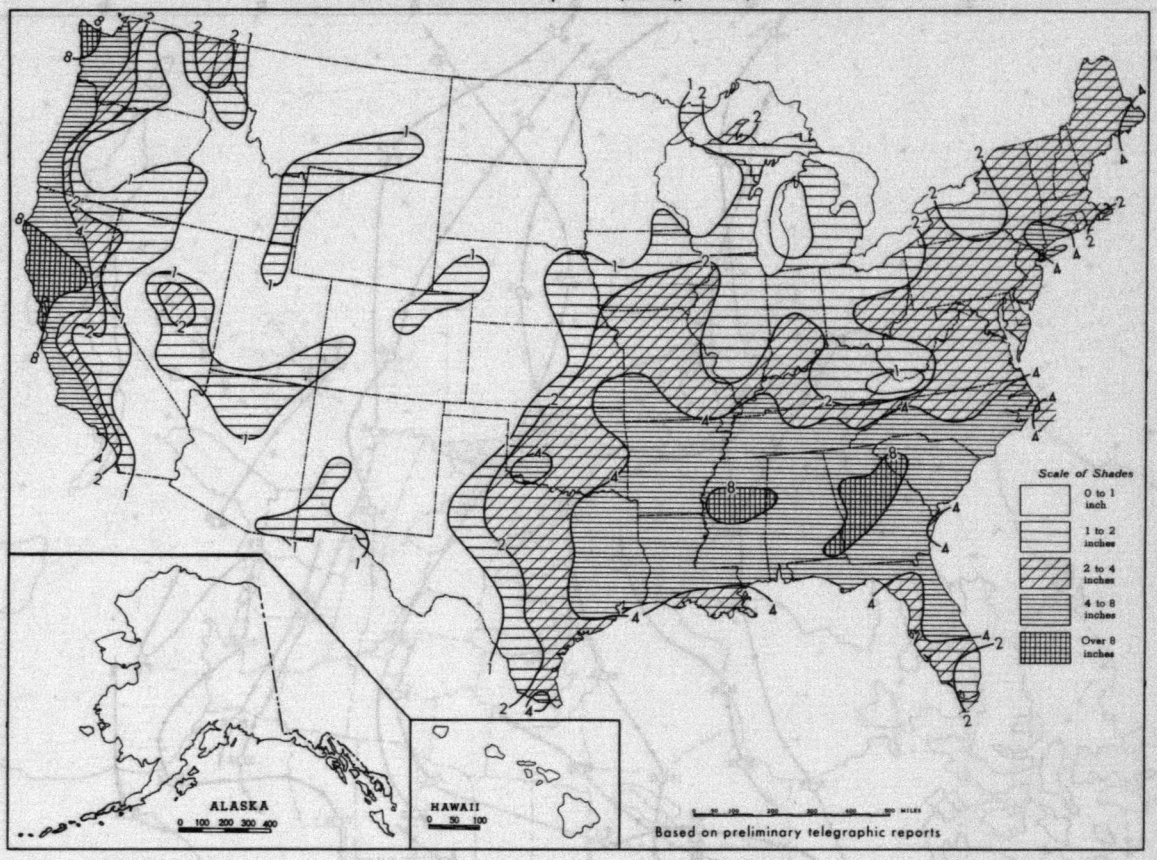


Chart II. A. Total Precipitation (Inches), January 1973



B. Percentage of Normal Precipitation, January 1973

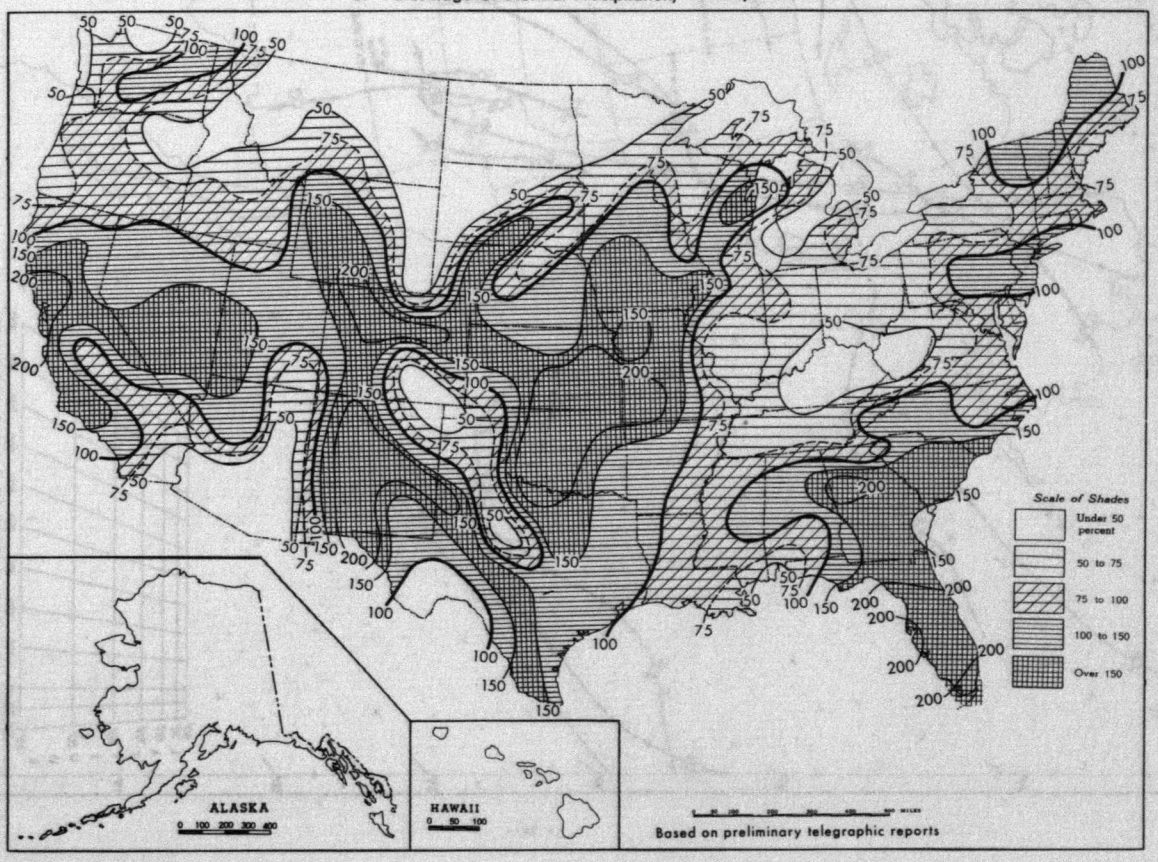
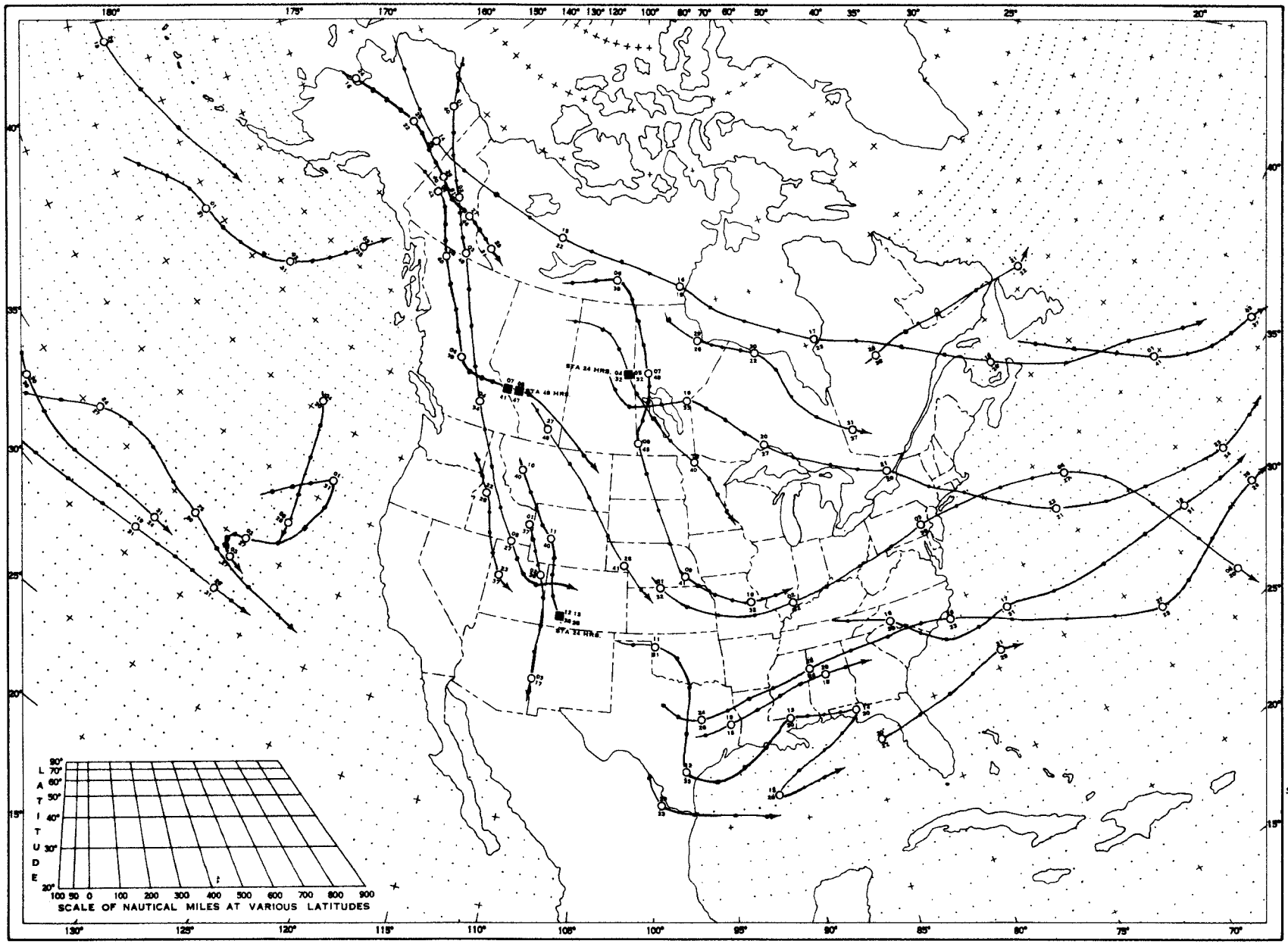
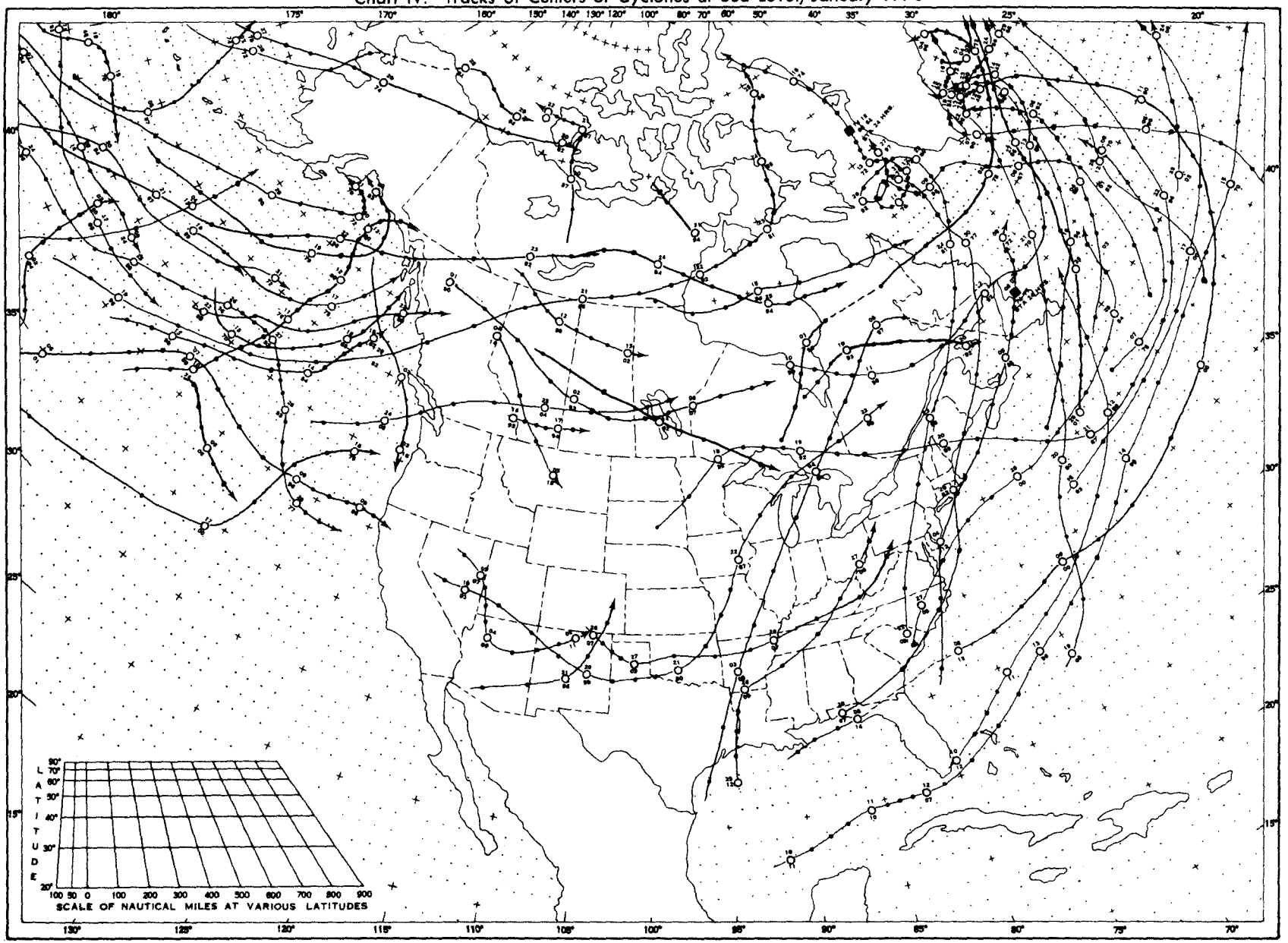


Chart III. Tracks of Centers of Anticyclones at Sea Level, January 1973



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IV. Tracks of Centers of Cyclones at Sea Level, January 1973



Circle indicates position of center at 7:00 a.m. E.S.T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

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