

WEEKLY WEATHER AND CROP BULLETIN

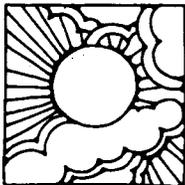
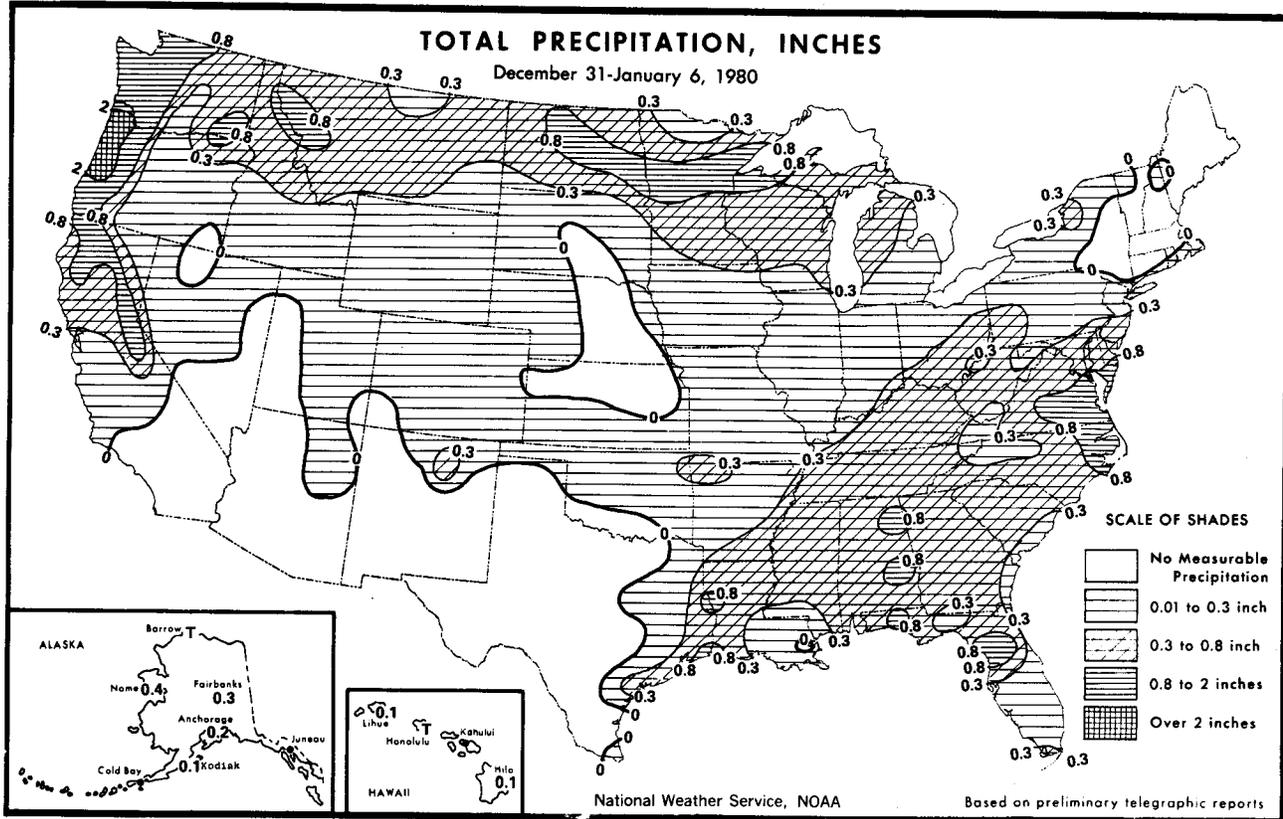
U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

Volume 67, No. 2

Washington, D.C.

Jan. 8, 1980



National Weather Summary

December 31 - January 6

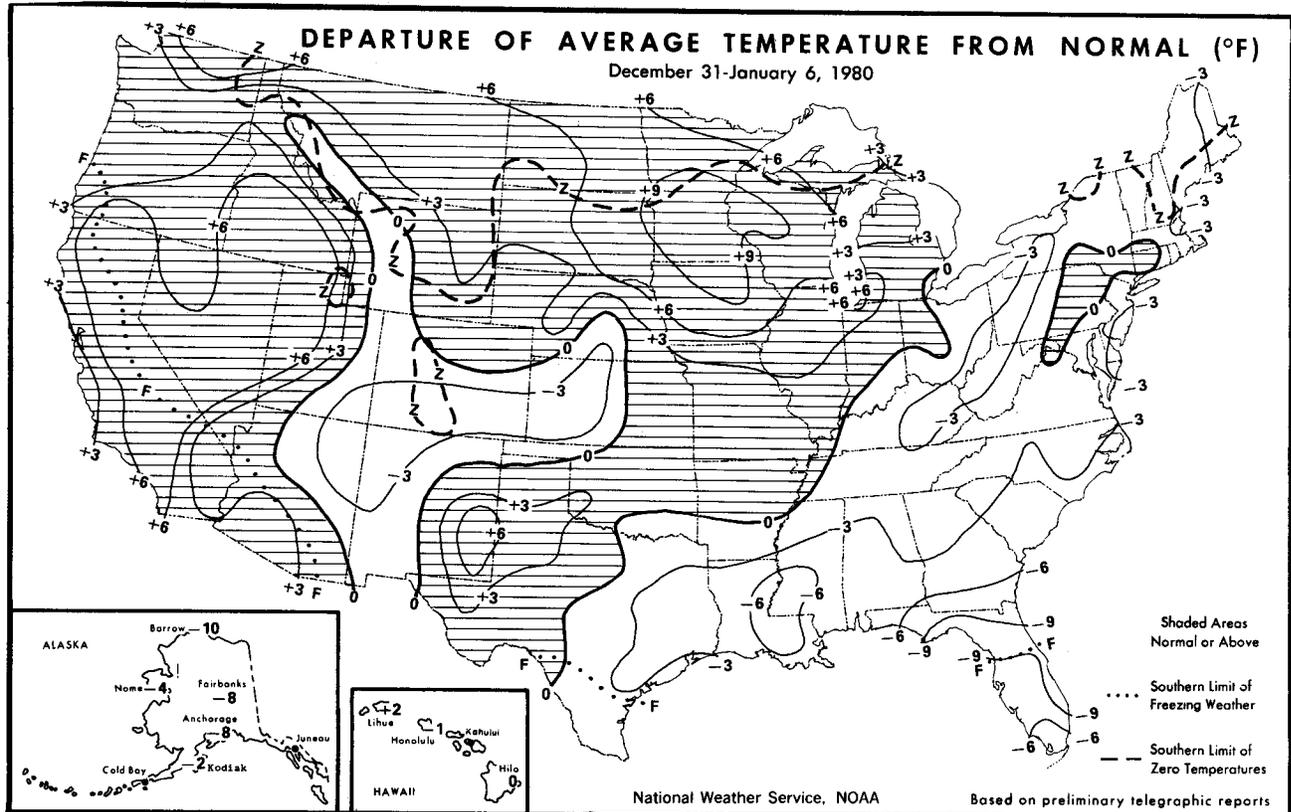
HIGHLIGHTS: Some moisture fell in most of the Nation except the Southwest; however, only a few areas received a half-inch or more. One region noting more than a half-inch of water included an area from the Cascades to the West Coast where 1 to 2 inches fell. Up to an inch covered an area from central North Dakota to Lake Superior. Parts of the middle Atlantic States measured one-half to one and a quarter inches of water in the form of snow. A few remaining isolated sections of the country scored more than a half-inch of moisture.

The northern Plains posted much warmer than normal temperatures; readings averaged as much as 10 degrees above normal. The western States, including the Sierras and central Plateau, were 6 to 8 degrees warmer than normal. Elsewhere, temperatures ranged near or slightly below normal, except in Florida where readings dipped up to 10 degrees below the norm.

Monday, the last day of 1979, brought rain to the Northwest and fairly mild temperatures to much of the Nation.

Rain fell from Washington State to northern California with some snow inland at the high elevations. Newport, on Oregon's central west coast, gathered an inch and three-quarters of rain. Omak, north central Washington, measured 2 inches of snow.

Fog shrouded large sections of the country on Tuesday, New Year's Day; patches stretched from the Ohio Valley through the Appalachians, from the middle Missouri Valley to the northern Mississippi Valley, and from western Washington to southern California.



Light rain persisted in the Pacific Northwest, where Eugene, west central Oregon, got a third-inch. Light rain also dampened parts of the Carolinas; Elizabeth City, northern North Carolina, noted a third-inch. Light snow dusted an area from the northern Rockies to upper Michigan, as well as Mount Cheaha, northeastern Alabama, the highest point in the State.

On Wednesday morning, fog lingered over portions of the upper half of California and the central Midwest.

Meantime, light snow was scattered over several sections of the Nation. Areas of snow included 2 inches at Salt Lake City, an inch at Milwaukee, and up to 3 inches in the region of northeastern Arkansas/southwestern Missouri.

Light rain also dotted widely separated parts of the country. A half-inch fell over Quillayute, western Washington, and Las Vegas, north central New Mexico. A third-inch moistened Fayetteville, northwestern Arkansas.

Snow depths reached about 4 inches along the Arkansas/Missouri border area on Thursday. To the south, light rains dampened East Texas and the Gulf Coastal States. Three-quarters inch fell in Galveston, Tex., and a third-inch covered Mobile, southern Alabama. Very light snow whitened the northern tier of States from Montana to Minnesota and the Ohio Valley.

A winter storm edged from the Ohio Valley to the middle Atlantic States on Friday. The storm had left 3 to 5 inches of snow in western Kentucky and southern Ohio before moving on.

By day's end, up to 7 inches of snow blanketed parts of western and central Virginia with 3 inches in Philadelphia, Pa. Rain fell from southern Virginia southward to Florida. A half-inch dampened Gainesville, northern Florida, Macon, central Georgia, and Norfolk, southeastern Virginia.

A storm system brewed in the Pacific Northwest and extended to the northern Rockies. Eugene, Oreg., registered an inch of rain, and snow began falling in the inland mountains.

The storm over the Atlantic Coast picked up steam early Saturday dumping snow from New York to northern North Carolina.

Virginia was hit hardest as Richmond received a foot of snow, and Jamestown posted 18 inches. Portions of West Virginia accumulated 8 inches, and Atlantic City, eastern New Jersey, weathered 6 inches.

The storm in the Northwest also intensified carrying subzero readings, high winds, and heavy snows to the Rockies and northern Plains. A 9-inch mantle covered Elk River, in Idaho's central panhandle. Lesser amounts fell in Montana, North Dakota, Wyoming, and Colorado.

On Sunday, snow reached from the northern Rockies to Ohio. The heaviest totals centered in North Dakota and Minnesota, where several inches accumulated. Minot, north central North Dakota, tallied 10 inches.

High winds accompanied the snow in some areas; gusts up to 70 mph raced over parts of Nebraska.

Temperatures dropped sharply in the Rockies; Helena, Mont., had a morning reading of -15° .



National Agricultural Summary

December 31 - January 6

HIGHLIGHTS: Subnormal temperatures prevailed throughout most of the eastern United States, the Mississippi Delta, portions of the central Plains, and the Rocky Mountains. Elsewhere, above-normal temperatures were the rule. Snow moved into some of the northern Plains States and provided protection for winter grains. Winter wheat generally rated fair to good. Southwestern cotton growers continued picking the last acreage. Soil moisture rated adequate across the southern half of the Nation with the exception of parts of Florida, New Mexico, and Arizona. Farmers plowed some fields in the Corn Belt and South as weather permitted. Pastures rated mostly fair to good in the Southeast but were dry and deteriorating in the Southwest. Open weather allowed cattle to graze crop residue in many areas of the Nation, but most herds were on supplemental feed.

SMALL GRAINS: Winter wheat generally rated good in the Corn Belt and the Southeast but only fair in the important Great Plains production area. A few growers in the South seeded some acreage. Very little snow-covered winter wheat in any of the major production areas. Only North Dakota and Montana reported improved snowcover.

Kansas winter wheat plant growth covered from 10 to 50% of the soil on 45% of the acreage, but covered less than 10% of the soil on 37% of the acreage. Snow protected North Dakota winter grain. Oklahoma winter wheat showed improved growth from recent rains; cattle grazed 20% of the acreage, the same as last year and the average. Warm weather in Texas brightened small grain prospects; emergence and growth improved. Small grains provided minimal grazing on the Plains, although more stockers moved onto central and eastern Texas fields. Producers sprayed to control insects. Some planting continued in Arizona. Irrigated stands in New Mexico rated fair to good providing adequate grazing; dryland stands rated fair with only limited grazing. California rains improved wheat growth; producers sprayed to control weeds. Pacific Northwest wheat rated good. Winter wheat in the Corn Belt rated good but needed snowcover.

OTHER CROPS: Cotton picking continued in the final stages in the Southwest. The Oklahoma harvest stood at 95% compared with the 90% average. Texas harvest reached 99%, leading last year's 96% and the 98% average. Growers were cutting stalks. Arizona cotton picking advanced to 97%, surpassing last year's 93% and the 95% average. California

producers prepared fields to plant the 1980 cotton crop.

Several States in the Southeast reported some straggling row crop harvests, including soybeans and some corn.

FRUITS & NUTS: Deciduous orchard growers continued usual maintenance activities, including pruning trees and tying caneberries. Pecan harvest was complete in most States and stood at 93% in Texas and 75% in New Mexico.

Florida citrus trees and fruit rated very good to excellent. Recent low temperatures benefited both fruit and trees. Harvest was active and increasing. Surface moisture was short, and rain was needed in some areas. Texas growers sent a good volume of oranges and grapefruit to market. Arizona citrus groves rated good. Growers picked a steady volume of lemons, oranges, and tangerines; but the grapefruit harvest slowed seasonally. California growers shipped a moderate volume of small-sized desert grapefruit. Lemons were good to excellent but had some texture problems. The Navel and tangerine harvests were active.

VEGETABLES: Florida vegetable growers reported frost in some locations but with no apparent plant damage. Generally light to moderate winds caused minor windburn damage. Overall crop conditions rated fair to excellent. Total shipments from Florida increased 32% from the previous week. Supplies of sweet corn, cucumbers, and squash held steady; other crops showed gains.

Texas growers harvested lettuce, cabbage, bell peppers, spinach, and carrots from southern areas. Cantaloup planting got underway in the lower Rio Grande Valley. Land preparation and spring planting began in northern areas of Texas.

California vegetable producers harvested broccoli, carrots, cauliflower, celery, and lettuce.

PASTURES & LIVESTOCK: Pastures rated good in the Southeast but only fair from the Delta States westward. Texas pastures continued to deteriorate from lack of moisture; small grains stands provided grazing in central Texas and the High Plains. Stock water ran short in Arizona. California rains improved rangeland, but southern areas needed more precipitation. Feed supplies rated adequate except for some areas of Oregon where supplies were tight. Cattle generally rated fair to good, although low temperatures and inclement weather increased feed needs. Calving and lambing began.

Weather Data for the Week Ending Jan. 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
ALA. Birmingham	49	31	61	23	40	- 4	.7	-.4	.7	2.3	39	83	50	0	4	2	1
Mobile	58	35	69	30	46	- 5	.4	-.8	.4	4.4	67	77	43	0	2	2	0
Montgomery	54	34	64	26	44	- 3	.8	-.2	.8	3.6	65	74	43	0	4	2	1
ALASKA. Anchorage	11	-6	25	-17	3	- 8	.2	0	.2	.8	67	94	69	0	7	3	0
Barrow	-18	-28	-10	-33	-23	- 9	T	0	T	.1	50	66	47	0	6	0	0
Fairbanks	-16	-30	15	-41	-23	-10	.3	.2	.3	.4	67	63	65	0	7	3	0
Kodiak	34	22	45	14	28	- 1	.1	-1.0	.1	1.0	18	75	62	0	6	2	0
Nome	7	-5	26	-27	1	- 4	.4	-.2	.2	1.0	125	70	62	0	6	3	0
ARIZ. Flagstaff	42	12	52	3	27	- 1	T	-.5	T	1.6	64	81	42	0	7	0	0
Phoenix	69	42	70	39	56	4	0	-.2	0	.1	11	50	21	0	0	0	0
Tucson	69	38	72	34	54	3	0	-.2	0	.2	20	43	13	0	0	0	0
Winslow	35	23	41	17	29	- 2	.1	0	.1	.7	140	--	--	0	3	1	0
Yuma	70	46	72	42	58	3	0	-.1	0	.1	20	54	23	0	0	0	0
ARK. Fort Smith	49	30	63	27	39	0	.2	-.3	.1	2.9	94	91	58	0	7	2	0
Little Rock	52	32	60	28	42	3	.2	-.7	.2	3.1	67	86	54	0	4	2	0
CALIF. Bakersfield	62	46	72	37	54	8	T	-.2	T	.2	25	--	69	0	0	0	0
Eureka	58	46	66	40	52	5	.3	-1.4	.2	3.6	47	88	70	0	0	3	0
Fresno	56	44	63	39	50	6	.1	-.3	.1	.8	40	95	74	0	0	2	0
Los Angeles	71	52	79	47	62	7	0	-.6	0	.4	15	66	49	0	0	0	0
Red Bluff	59	44	63	38	51	7	.3	-.7	.3	6.0	136	96	64	0	0	1	0
San Diego	72	50	76	46	61	6	0	-.4	0	0	0	67	48	0	0	0	0
San Francisco	56	46	63	43	51	3	.2	-.8	.1	4.4	94	88	72	0	0	2	0
Stockton	56	46	65	40	51	7	T	-.7	T	1.8	58	--	81	0	0	0	0
COLO. Denver	47	17	54	10	32	- 2	.1	0	.1	1.2	240	79	43	0	7	1	0
Grand Junction	29	21	32	16	25	- 1	T	-.1	T	.3	60	83	67	0	7	1	0
Pueblo	40	13	50	0	26	- 4	T	-.1	T	.9	180	--	54	0	7	1	0
CONN. Bridgeport	37	23	45	17	30	0	.1	-.5	.1	2.6	68	52	36	0	7	1	0
Hartford	33	18	40	12	26	1	T	-.8	T	2.6	59	60	33	0	7	0	0
D.C. Washington	41	29	49	21	35	0	.6	0	.4	1.5	44	80	57	0	6	2	0
FLA. Apalachicola	56	34	64	28	45	- 9	.3	-.4	.2	3.9	103	91	52	0	4	2	0
Daytona Beach	60	38	69	30	49	- 9	.1	-.3	.1	.7	33	84	48	0	2	1	0
Ft. Myers	67	49	73	40	58	- 6	.1	-.3	.1	5.2	325	89	63	0	0	1	0
Jacksonville	57	36	65	28	46	- 8	.3	-.3	.3	2.3	79	83	48	0	2	1	0
Key West	70	62	75	57	66	- 5	.4	0	.4	1.6	89	75	60	0	0	1	0
Miami	70	54	79	46	62	- 6	.1	-.4	.1	3.0	143	86	50	0	0	1	0
Orlando	63	39	70	31	51	- 9	.1	-.4	.1	1.0	45	87	43	0	1	1	0
Tallahassee	55	32	66	23	43	- 9	.3	-.6	.3	6.1	130	86	45	0	4	1	0
Tampa	62	43	67	35	53	- 8	.1	-.4	.1	1.6	64	81	56	0	0	1	0
W. Palm Beach	66	45	73	39	56	-12	T	-.6	T	2.7	100	93	56	0	0	1	0
GA. Atlanta	47	33	58	25	40	- 2	.4	-.6	.3	1.1	22	86	57	0	3	2	0
Augusta	49	30	58	19	40	- 5	.5	-.3	.4	2.3	59	91	60	0	4	2	0
Macon	53	36	63	25	44	- 3	.5	-.4	.5	2.4	49	88	54	0	3	1	1
Savannah	52	36	62	27	44	- 5	.1	-.6	.1	2.8	74	83	51	0	1	1	0
HAWAII. Hilo	--	--	--	--	71	0	.1	-2.3	.1	7.0	42	--	--	0	0	0	0
Honolulu	80	65	82	61	72	- 1	T	-1.0	T	1.5	35	87	53	0	0	2	0
Kahului	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lihue	--	--	--	--	74	2	.1	-1.4	.1	4.7	64	--	--	0	0	0	0
IDAHO. Boise	42	29	49	19	36	7	.2	-.1	.1	.8	50	89	64	0	7	2	0
Lewiston	38	30	44	17	34	3	.5	.2	.2	1.3	87	83	70	0	5	3	0
Pocatello	37	25	46	15	31	8	.1	-.1	.1	.4	36	83	64	0	5	3	0
ILL. Cairo	40	33	48	30	36	0	.2	-.7	.1	3.6	82	--	--	0	5	3	0
Chicago	33	25	43	21	29	4	.2	-.2	.1	2.7	117	81	72	0	7	2	0
Moline	33	23	40	12	28	6	.1	-.3	T	2.4	120	89	68	0	7	4	0
Peoria	33	23	41	15	28	4	.1	-.3	.1	2.5	125	87	73	0	7	2	0
Rockford	32	20	42	14	26	5	.2	-.2	.2	2.5	125	90	66	0	7	1	0
Springfield	36	27	42	22	31	4	.1	-.3	.1	2.5	119	80	73	0	7	1	0
IND. Evansville	37	29	44	25	33	0	.1	-.7	.1	3.2	84	91	77	0	7	3	0
Ft. Wayne	28	23	33	18	26	0	.1	-.5	T	2.7	104	81	74	0	7	3	0
Indianapolis	33	24	40	18	28	0	.1	-.5	.1	2.6	87	89	67	0	7	3	0
South Bend	33	26	38	18	30	5	.1	-.5	.1	3.5	117	87	81	0	7	5	0
IOWA. Burlington	33	25	37	14	29	6	.1	-.3	.1	1.4	70	--	--	0	7	1	0
Des Moines	31	24	34	10	28	8	.2	-.1	.2	.3	25	80	66	0	7	2	0
Dubuque	29	21	35	16	25	7	.2	-.2	.2	1.6	76	85	70	0	7	2	0
Sioux City	30	21	35	6	25	7	T	-.1	T	.1	14	80	66	0	7	2	0
KANS. Concordia	33	19	39	12	26	0	T	-.1	T	.4	50	88	62	0	7	2	0
Dodge City	35	19	42	11	27	- 3	.1	0	.1	.8	160	91	69	0	7	3	0
Goodland	37	16	41	3	27	- 1	T	-.1	T	1.2	240	86	58	0	7	0	0
Topeka	38	21	49	14	30	2	0	-.3	0	.1	5	87	54	0	7	0	0
Wichita	37	25	46	18	31	0	T	-.2	T	2.0	154	90	68	0	7	1	0
KY. Lexington	35	25	41	10	30	- 3	.5	-.4	.4	4.4	107	85	70	0	7	2	0
Louisville	36	26	44	12	31	- 2	.4	-.4	.3	4.2	108	88	69	0	7	2	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Jan. 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation	
														90 and above	32 and below	.01 inch or more	.50 inch or more
LA. Baton Rouge . . .	55	34	62	25	44	-7	T	-1.0	T	2.8	50	94	55	0	4	1	0
Lake Charles . . .	60	37	64	33	48	-4	.5	.5	.5	3.7	61	91	56	0	0	1	0
New Orleans . . .	62	34	69	27	48	-5	T	1.1	0	3.1	53	91	46	0	3	0	0
Shreveport . . .	55	32	65	29	44	-3	.4	.5	.4	3.5	74	96	50	0	5	1	0
MAINE. Caribou . . .	15	2	21	-6	8	-3	T	.5	T	3.1	107	64	48	0	7	0	0
Portland . . .	30	12	38	4	21	-1	0	.8	0	2.6	59	72	41	0	7	0	0
MD. Baltimore . . .	39	25	50	20	32	-1	.7	.0	.4	1.6	43	72	46	0	7	2	0
MASS. Boston . . .	33	21	41	14	27	-3	.1	.3	T	1.4	30	54	39	0	7	0	0
Chatham . . .	37	26	45	20	32	-	T	.1	T	3.6	78	75	60	0	6	1	0
MICH. Alpena . . .	29	16	42	5	23	4	.2	.2	.2	2.3	110	-	-	0	7	2	0
Detroit . . .	30	21	33	8	25	0	.1	.4	.1	2.3	88	81	74	0	7	2	0
Flint . . .	30	22	33	12	26	3	.1	.3	.1	2.3	115	88	75	0	7	3	0
Grand Rapids . . .	32	21	34	15	27	3	.2	.2	.2	3.1	129	89	71	0	7	2	0
Houghton Lake . . .	30	15	43	2	23	4	.3	.1	.3	2.1	100	85	61	0	7	1	0
Lansing . . .	29	21	32	10	25	1	.1	.3	.1	2.3	105	91	71	0	7	1	0
Marquette . . .	28	8	42	-11	18	-1	.5	.1	.5	1.9	86	77	56	0	7	3	0
Muskegon . . .	30	20	35	13	25	0	.5	0	.5	3.0	111	81	72	0	7	1	1
S. Ste. Marie . . .	25	10	38	0	18	2	.6	.1	.6	2.8	108	84	64	0	7	1	1
MINN. Duluth . . .	22	12	30	5	17	8	.8	.5	.8	.9	53	87	72	0	7	2	1
Internat'l. Falls . . .	14	0	20	-15	7	4	.2	0	.2	.6	60	90	69	0	7	2	0
Minneapolis . . .	28	19	32	11	23	10	.4	.2	.3	.7	70	87	69	0	7	3	0
Rochester . . .	27	19	31	8	23	9	.4	.2	.4	.9	113	90	81	0	7	4	0
St. Cloud . . .	25	14	32	3	20	10	.6	.4	.5	.9	100	93	59	0	7	4	1
MISS. Jackson . . .	51	30	61	24	40	-7	.4	.7	.4	4.5	79	93	57	0	5	1	0
Meridian . . .	54	30	63	24	42	-4	.4	.7	.3	2.8	46	86	49	0	5	2	0
MO. Columbia . . .	36	26	44	18	31	2	.1	.3	.1	1.4	70	86	74	0	7	1	0
Kansas City . . .	35	23	46	14	29	2	T	.3	T	0	0	86	57	0	7	1	0
St. Louis . . .	36	30	45	28	33	2	.4	0	.1	2.1	95	96	87	0	7	4	0
Springfield . . .	42	29	53	25	36	3	.1	.3	T	1.4	52	87	58	0	6	2	0
MONT. Billings . . .	37	17	49	-7	27	5	.4	.3	.4	.5	83	64	37	0	7	1	0
Glasgow . . .	24	7	36	-19	15	4	.3	.2	.2	.3	60	87	74	0	7	4	0
Great Falls . . .	37	14	48	-17	26	2	.3	.1	.1	.6	75	65	34	0	7	1	0
Havre . . .	27	7	40	-16	17	5	.2	.1	.2	.4	80	77	46	0	7	2	0
Helena . . .	27	8	37	-25	18	-1	.5	.4	.4	1.1	220	79	53	0	7	3	0
Kalispell . . .	28	15	38	-16	22	3	.6	.2	.4	1.6	89	90	70	0	7	4	0
Miles City . . .	32	10	49	-14	21	5	.2	.1	.1	.3	60	91	55	0	7	2	0
Missoula . . .	27	15	33	1	21	0	.9	.6	.6	1.6	114	87	79	0	7	6	1
NEBR. Grand Island . . .	28	10	33	6	19	-3	T	.1	T	.5	100	82	61	0	7	0	0
Lincoln . . .	32	15	35	9	23	1	T	.1	T	.4	57	88	63	0	7	0	0
Norfolk . . .	32	15	41	5	23	4	T	.1	T	.6	100	86	59	0	7	1	0
N. Platte . . .	39	17	48	9	28	5	.1	0	.1	.4	80	79	46	0	7	1	0
Omaha . . .	31	19	34	7	25	4	T	.1	T	.2	29	91	68	0	7	1	0
Valentine . . .	37	9	50	0	23	1	T	.1	T	0	0	-	53	0	7	0	0
NEV. Ely . . .	47	14	55	10	31	7	0	.2	0	.1	14	62	30	0	7	0	0
Las Vegas . . .	55	33	60	28	44	1	0	.1	0	.2	40	68	31	0	2	0	0
Reno . . .	44	31	55	29	38	7	.3	0	.3	2.0	154	90	66	0	6	2	0
Winnemucca . . .	41	26	51	24	34	6	T	.2	T	.3	30	86	71	0	7	0	0
N.H. Concord . . .	31	9	38	-1	20	-1	0	.6	0	1.9	54	76	34	0	7	0	0
N.J. Atlantic City . . .	38	19	46	7	28	-5	.8	0	.4	3.0	68	79	52	0	7	2	0
Trenton . . .	37	26	47	20	31	-2	.2	.4	.1	2.0	56	-	-	0	7	2	0
N.MEX. Albuquerque . . .	44	21	53	15	33	-1	0	.1	0	.9	180	84	41	0	7	0	0
Roswell . . .	59	28	69	23	44	7	0	.1	0	.3	60	-	-	0	6	0	0
N.Y. Albany . . .	28	12	36	5	20	-2	T	.5	T	1.0	32	85	52	0	7	0	0
Binghamton . . .	30	15	39	6	22	0	T	.6	T	1.8	58	78	55	0	7	0	0
Buffalo . . .	31	18	37	8	24	0	.1	.5	.1	2.6	81	80	63	0	7	2	0
New York . . .	36	28	45	21	32	0	.2	.5	.2	2.8	70	62	43	0	4	2	0
Rochester . . .	29	15	37	5	22	-3	.1	.4	.1	2.9	107	90	69	0	7	4	0
Syracuse . . .	31	15	39	6	23	-1	T	.6	T	1.7	52	87	53	0	7	2	0
N.C. Asheville . . .	45	30	53	21	37	0	.3	.5	.1	1.2	30	93	63	0	5	4	0
Charlotte . . .	46	31	57	22	39	-3	.4	.4	.3	1.8	45	85	51	0	4	3	0
Greensboro . . .	44	25	52	18	35	-3	.3	.4	.2	1.5	43	91	54	0	7	2	0
Hatteras . . .	49	36	57	27	42	-4	1.3	.3	.9	6.3	121	90	70	0	3	4	1
Raleigh . . .	46	29	55	25	38	-2	.3	.4	.3	1.3	37	90	58	0	5	2	0
Wilmington . . .	52	35	56	29	44	-2	.5	.2	.5	2.9	76	78	51	0	2	1	0
N.DAK. Bismarck . . .	23	3	29	-4	13	4	.5	.4	.3	.8	160	79	64	0	7	4	0
Fargo . . .	21	8	28	-5	14	8	1.3	1.2	1.0	1.4	280	87	77	0	7	4	1
Williston . . .	24	3	33	-14	14	4	.6	.5	.3	.7	140	85	57	0	7	4	0
OHIO. Akron-Canton . . .	31	22	33	8	26	-1	.3	.3	.2	2.2	79	85	77	0	7	4	0
Cincinnati . . .	32	26	39	19	29	-2	.4	.3	.4	3.2	97	92	87	0	7	1	0
Cleveland . . .	31	23	33	11	27	0	.2	.4	.1	4.1	152	87	77	0	7	4	0
Columbus . . .	31	26	34	24	29	1	.3	.3	.2	2.2	79	83	80	0	7	3	0
Dayton . . .	31	24	37	21	28	0	.2	.4	.1	2.4	92	89	79	0	7	3	0
Toledo . . .	30	21	34	8	26	1	.1	.4	T	2.5	100	87	79	0	7	5	0
Youngstown . . .	28	19	30	3	24	-2	.2	.4	.1	3.9	130	75	65	0	7	4	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Jan. 6, 1980

States and Stations	Temperature °F						Precipitation					Relative Humidity, percent		Number of Days					
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Dec. 3	Pct. normal since Dec. 3	Average maximum	Average minimum	Temperature °F		Precipitation			
														90 and above	32 and below	.01 inch or more	.50 inch or more		
OKLA.Okla. City . . .	49	29	66	26	39	2	T	.3	T	2.6	173	83	50	0	6	1	0		
Tulsa . . .	47	30	65	26	39	2	T	.3	T	1.7	35	85	51	0	5	1	0		
OREG.Astoria . . .	48	37	55	24	42	2	T	.6	T	11.8	99	93	69	0	2	5	0		
Burns . . .	40	20	45	10	30	5	T	.3	T	1.6	80	93	67	0	4	2	0		
Medford . . .	49	38	55	35	44	8	T	.5	T	1.8	45	89	76	0	0	3	0		
Pendleton . . .	38	27	48	15	32	0	T	.6	T	1.1	58	95	74	0	7	4	0		
Portland . . .	45	36	55	23	41	3	T	2.6	T	8.8	100	92	75	0	1	5	2		
Salem . . .	47	36	55	23	41	3	T	1.6	T	6.3	82	99	77	0	2	6	2		
PA.Allentown . . .	37	22	47	17	29	1	T	.1	T	2.6	67	71	45	0	7	1	0		
Erie . . .	30	22	35	9	26	-2	T	.2	T	4.9	158	-	-	0	7	2	0		
Harrisburg . . .	37	23	43	19	30	0	T	.1	T	1.6	48	74	48	0	7	2	0		
Philadelphia . . .	36	26	46	19	31	-2	T	.5	T	2.4	65	70	48	0	7	2	0		
Pittsburgh . . .	29	19	36	5	24	-4	T	.4	T	2.7	90	75	60	0	7	2	0		
Scranton . . .	34	20	41	13	27	1	T	.5	T	1.7	61	71	45	0	7	1	0		
R.I.Providence . . .	35	21	44	13	28	-1	T	.1	T	1.9	42	51	32	0	7	1	0		
S.C.Charleston . . .	51	35	60	24	43	-5	T	.2	T	3.0	83	85	60	0	2	2	0		
Columbia . . .	48	30	55	20	39	-6	T	.5	T	2.0	51	96	65	0	5	3	0		
Greenville . . .	46	33	56	21	40	-2	T	.5	T	1.6	35	89	62	0	4	3	0		
S.DAK.Aberdeen . . .	23	10	33	-4	17	6	T	.2	T	1.1	3	60	81	64	0	7	3	0	
Huron . . .	29	11	37	1	20	7	T	.1	T	0	0	87	54	0	7	2	0		
Rapid City . . .	39	15	50	-1	27	4	T	.1	T	1	20	81	46	0	7	1	0		
Sioux Falls . . .	28	18	32	2	23	9	T	.1	T	0	0	91	65	0	7	1	0		
TENN.Chattanooga . . .	45	30	52	23	38	-2	T	.7	T	5.6	2	42	77	54	0	5	3	1	
Knoxville . . .	45	31	54	27	38	-2	T	.6	T	2.6	51	75	63	0	6	3	0		
Memphis . . .	49	34	58	30	41	1	T	.3	T	5.3	96	81	58	0	3	1	0		
Nashville . . .	43	29	54	21	36	-2	T	.7	T	5.7	112	93	65	0	5	3	0		
TEX.Abilene . . .	57	34	69	28	46	2	T	0	T	2.7	245	83	46	0	1	0	0		
Amarillo . . .	53	21	65	16	37	1	T	0	T	0	0	86	32	0	7	0	0		
Austin . . .	62	35	72	30	48	-2	T	0	T	3.4	136	86	47	0	1	0	0		
Beaumont . . .	61	38	68	30	49	-3	T	.9	T	3.4	65	91	54	0	1	1	1		
Brownsville . . .	71	45	77	38	58	-2	T	.2	T	1.8	120	94	50	0	0	1	0		
Corpus Christi . . .	70	40	80	28	55	-2	T	0	T	1.0	56	88	45	0	1	0	0		
Del Rio . . .	65	38	71	33	52	2	T	0	T	.8	160	85	39	0	0	0	0		
El Paso . . .	58	25	63	19	42	-1	T	0	T	.2	40	76	26	0	6	0	0		
Fort Worth . . .	56	34	71	30	45	0	T	.4	T	2.8	140	76	49	0	3	0	0		
Galveston . . .	58	48	64	42	53	-1	T	1.4	T	4.4	113	82	60	0	0	1	1		
Houston . . .	63	35	72	28	49	-3	T	.3	T	4.3	96	96	51	0	4	1	0		
Lubbock . . .	58	28	68	22	43	4	T	0	T	1.3	260	65	26	0	5	0	0		
Midland . . .	62	30	68	26	46	3	T	0	T	2.8	560	88	29	0	5	0	0		
San Angelo . . .	60	33	70	27	47	1	T	0	T	2.6	371	73	36	0	4	0	0		
San Antonio . . .	65	34	74	26	50	-1	T	0	T	2.9	171	84	43	0	3	0	0		
Victoria . . .	65	36	73	28	50	-3	T	.5	T	2.6	124	94	52	0	2	1	1		
Waco . . .	55	33	71	29	44	-3	T	.2	T	4.2	191	88	58	0	5	1	0		
Wichita Falls . . .	51	31	72	28	41	-1	T	0	T	.3	0	2.1	140	84	54	0	6	0	
UTAH.Blanding . . .	28	16	35	9	22	5	T	0	T	0	1.3	87	97	80	0	7	0	0	
Salt Lake City . . .	43	27	56	23	35	8	T	.2	T	1.1	7	44	92	65	0	7	2	0	
VT.Burlington . . .	24	12	31	2	18	0	T	.4	T	1.5	63	73	59	0	7	1	0		
VA.Lynchburg . . .	41	26	47	14	33	-3	T	.9	T	2.5	2.0	56	79	86	0	6	2	1	
Norfolk . . .	44	32	49	21	38	-2	T	1.1	T	.6	2.1	60	85	67	0	3	2	2	
Richmond . . .	44	27	52	18	35	-2	T	1.4	T	.8	1.1	3.1	89	93	52	0	7	2	1
Roanoke . . .	43	28	51	22	35	-1	T	.7	T	1.1	.7	1.8	53	81	46	0	6	2	0
WASH.Colville . . .	34	29	40	10	31	7	T	.6	T	1.2	1.5	60	--	--	0	4	5	0	
Omak . . .	32	27	37	13	29	7	T	.5	T	0	.3	1.6	80	--	--	0	5	4	0
Quillayute . . .	46	35	53	21	40	1	T	1.7	T	1.7	.7	27.5	156	97	81	0	3	5	2
Seattle-Tacoma . . .	45	36	54	26	40	2	T	.9	T	.4	.3	9.5	144	86	68	0	2	5	0
Spokane . . .	33	22	43	-2	28	2	T	.7	T	.1	.2	2.1	75	83	66	0	5	4	0
Walla Walla . . .	37	30	50	19	34	0	T	1.3	T	.8	.8	2.2	96	97	86	0	4	5	1
Yakima . . .	35	24	42	11	30	3	T	.1	T	.2	.1	1.0	71	90	73	0	6	3	0
W.VA.Beckley . . .	36	24	49	18	30	-1	T	.2	T	.6	.1	1.7	44	91	66	0	7	2	0
Charleston . . .	33	27	36	22	30	-4	T	.5	T	.3	.3	3.2	86	88	78	0	7	2	0
Huntington . . .	34	28	39	25	31	-3	T	.6	T	.1	.4	3.3	100	77	71	0	7	3	0
Parkersburg . . .	31	26	35	24	29	-4	T	.3	T	.4	.2	2.3	74	91	82	0	7	2	0
WISC.Green Bay . . .	31	18	43	11	24	8	T	.4	T	.2	.3	1.8	138	60	67	0	7	1	0
La Crosse . . .	30	22	32	15	26	10	T	.5	T	.3	.3	1.2	109	96	70	0	7	3	0
Madison . . .	30	17	42	9	23	6	T	.1	T	.2	.1	1.9	112	88	71	0	7	2	0
Milwaukee . . .	32	22	45	17	27	7	T	.6	T	.2	.2	2.9	145	88	80	0	7	5	0
WYO.Casper . . .	36	13	48	-13	24	1	T	.2	T	.1	.2	.6	120	83	45	0	7	3	0
Cheyenne . . .	42	16	50	3	29	2	T	.1	T	0	.1	1.5	300	69	46	0	7	1	0
Lander . . .	34	3	53	-11	13	-1	T	.2	T	.1	.2	1.3	260	93	43	0	7	1	0
Sheridan . . .	37	10	48	-13	24	3	T	.1	T	0	.1	.4	67	75	35	0	7	2	0
P.R.San Juan . . .	86	73	89	72	79	3	T	.1	T	.9	.1	3.7	93	62	0	0	0	0	0

Based on preliminary reports and 1941-70 normals

State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures averaged 4° subnormal. Rains widespread 3d and 4th. Totals ranged from 0.33 in. southeast, to 1.00 in. northwest.

Fieldwork: 3.4 days suitable. Soil moisture adequate to surplus. Plowing 19% complete; fieldwork behind schedule. Pastures fair condition. Stored feed adequate. Wheat good condition. Livestock mostly good.

ARIZONA: Fair, mild. Light snow, rain northeast 6th. Average temperatures 3° below normal to 5° above.

Cotton harvest 97% finished, 93% last year, average 95%. Small grain plantings continued. Sugarbeet, alfalfa stands good condition. Lettuce harvest full swing west. Mixed vegetable harvest seasonal progress, planting active. Picking lemons, Navels, sweets, tangerines, steady rate. Grapefruit harvest seasonally slow. Groves good condition. LP gas, gasoline supplies adequate. Diesel supplies adequate to tight central, southeast. Most ranges poor condition. Cattle, calves mostly fair. Stock water, soil moisture mostly short.

ARKANSAS: Rainfall 3d and 4th. Snow in north half 3d with accumulations confined to northern quarter. Highest normal 46°, lowest 37°. Highest mean 43°, lowest 37°. Highest temperature 65°, lowest 19°.

Very little fieldwork. Livestock, pastures in fair to good condition. Some supplemental feeding necessary although pastures made some growth due to favorable weather.

CALIFORNIA: Relatively warm frontal system brought rain to northern half 31st. Snow level in Sierra remained above 7000 to 8000 feet. Fair, dry weather continued in south and returned to north by midweek. Cloudiness increased again in north by end of week. Very light precipitation fell 5th and 6th far north and northwest. Temperatures remained above normal.

Recent rains beneficial for small grains. Limited sugarbeet harvesting. Planting continued. Alfalfa and small grain fields sprayed for weed control. Limited cotton field bed preparation underway. Rain briefly delayed cultural practices. Moderate movement of good quality, small size desert grapefruit. Lemons good to excellent, some texture problems. Harvest of Navel oranges and tangerines active, good to excellent quality. Broccoli harvest slowing Salinas, active other central, south coast counties. Carrot harvest slow to meet market demand. Cauliflower harvest near end Salinas, good volume available other areas. Celery cutting active Santa Maria and south coast. Lettuce harvest almost finished Blythe, active Imperial Valley. Potato digging slow, Kern and Riverside Counties. Movement from cellars continues Tulalake-Butte Valley. Recent rains developing range grasses. More rain needed southern areas to support growth. Supplemental feeding continues at seasonal levels. Sheep grazing crop residues San Joaquin Valley. Fuel supplies generally sufficient for farm activities.

COLORADO: Precipitation sparse. Weak system 1st and 2d dropped 1 to 4 in. snow at some mountain locations, light rain lower elevations most-

ly in east. Temperatures below normal. Colorado and Kansas basins averaged 3 to 6° below normal, Arkansas basin slightly cooler. Rio Grande basin had temperatures 7 to 14° below normal.

FLORIDA: Cold with temperatures averaging 4 to 8° below normal. Mornings of 3d and 6th had lows in 20's Panhandle, north and mainly 30's elsewhere. Rapidly moving cold front on 4th brought 0.25 to 0.50 in. of rain Panhandle and north, with generally less than 0.25 in. central and south.

Soil moisture mostly adequate north, west; short in scattered areas central, south. Sugarcane harvest active, crop good to excellent condition. Small grains good condition. Land preparation underway for early planted crops. Fuel supplies adequate north, west; a little tight central, south. Pasture mostly poor to fair condition. Winter pastures, peninsula generally need rainfall. Cattle fair to good condition. Citrus trees and fruit condition very good to excellent; rain needed some areas. Surface moisture short. Recent cool temperatures beneficial to both fruit and trees. Harvest very active and increasing. Cold fronts moved through vegetable growing areas early and late week keeping temperatures below normal most of week. Fronts preceded by few light, widely scattered showers. Frost some locations but no apparent plant damage. Nighttime lows in upper 30's to 40's with daytime highs in 60's to low 80's. Winds generally light to moderate. Overall crop condition fair to excellent. Minor windburn damage evident some areas. Total shipments up 32% from previous week. Shipments carrots, cauliflower, celery, lettuce, strawberries increased considerably while snap beans, cabbage, chinese cabbage, eggplant, escarole, peppers, radishes, tomatoes gained. Supplies sweet corn, cucumbers, squash held steady. Strawberry crop in good to excellent condition. Plant growth good, fruit setting well. Watermelon seeding very active. Planting conditions remain good. Winter potatoes forming tubers. First harvest expected late January.

GEORGIA: Temperatures averaged near normal north and west and 3° below normal southeast. Averages near 40° extreme north to near 50° extreme south. Rainfall 0.50 to 1.00 in. north and only about 0.10 in. south. Snow in mountains 1 to 3 in. 4th. Weekend cold and dry.

Soil moisture surplus north, adequate elsewhere. Activity light mostly late harvest, wheat seeding, liming. Small grains good. Pastures and cattle good. Tobacco bed preparation nearing completion, plants good. No fuel or fertilizer supply problems.

HAWAII: Windy, light showers.

Macadamia, banana orchards, other crops exposed areas, slightly damaged. Low temperatures higher elevation slowing crop growth. Frequent spraying, heavy irrigation some areas necessary to maintain fair to good crop growth. Vegetable supplies generally light. Vine crops exposed areas slightly wind damaged. Bruising will lower quality. Banana supplies light. Strong winds caused leaf stripping Oahu orchards. Papaya supplies seasonally low. Pineapple harvesting down. Sugar harvesting slow. Pastures fair to good. Fuel supplies adequate.

IDAHO: Temperatures near or above normal. Average temperatures in upper 20's to mid-30's. Precipitation generally light with most reported in north and southwest.

Farm activity centered on caring for livestock, chores and machinery repair. Lambing and early calving beginning. Livestock in good condition; feed supplies adequate.

ILLINOIS: Temperatures 4 to 7° above normal north, up to 4° above normal south. Precipitation ranged 0.10 to 0.30 in., trace amounts of snowfall.

Soil moisture mostly adequate. Winter wheat in good condition, needs snowcover. Mild weather allowing cattle to glean corn stubble, reducing supplemental feeding; livestock losses, disease problems minimal. Major activities: Machinery repair, caring for livestock, some plowing, fertilizing.

INDIANA: Cool, dry. Temperatures averaged 5° above normal and ranged from 43 to 14°. Precipitation averaged 0.25 in. south, 0.09 in. central, 0.09 in. north. Snowcover limited to 1 to 2 in. northwest and extreme north to trace in central. Soils frozen 3 to 4 in. Sunshine 17% of possible. High winds north on 7th.

Farmers caring for livestock, seasonal chores. Some hauling of fertilizer and manure with limited plowing.

IOWA: Mild with light to moderate precipitation. Temperatures averaged 6 to 7° above normal, dropping sharply on 6th. Snow fell mostly on 4th and 6th. Snow depths range from an inch or less over south and west to 3 to 6 in. northeast and north central.

KANSAS: Light precipitation mostly at midweek averaging from 0.25 in. southwest with locally 2 in. of snow, to less than 0.10 in. southeast and traces to none north. Temperatures averaged from 35° southeast to 28 to 32° elsewhere or 2° below normal southwest to 4° above normal east. Wheat acreage with plants covering 10 to 50% of the ground 45%, 37% of the acreage has less than 10% cover. Moisture generally adequate.

KENTUCKY: Temperatures averaged few degrees below normal. Precipitation mostly in form of snow 3d and 4th averaged less than inch.

Livestock chores and tobacco preparation main activities. Other winter chores at end of week limited by season first heavy snowfall. Some supplemental feeding of livestock necessary. Ample supply of hay feed grains.

LOUISIANA: Temperatures 3 to 8° below normal. Extremes: 67 and 25°. Rain statewide.

Activities: Caring for livestock and general chores.

MARYLAND & DELAWARE: Temperatures averaged about normal. Highs averaged in mid to upper 40's except upper 30's in mountains. Lows averaged in mid to upper 20's except near 20° in mountains. Precipitation light averaging less than 0.25 in. Snowy 5th, 6th bright, sunny, cold.

MICHIGAN: Temperatures ranged from normal over Lower southeast to 5° above in northeast. Over Upper these variations ranged from 8° above in south to near 4° above east. Maximum temperatures near 40° at beginning of week with minimums latter part reaching subzero readings in portions of Upper and extreme northern Lower. Most precipitation latter part of week mainly as snow. Corresponding water equivalent varied from 0.25 in. or less in much of the southern third and northern

third of Lower to around 0.80 in. in extreme northern Lower. Over most of Upper precipitation varied from around 0.25 in. to 0.65 in.

Main farming activities maintenance and repair, feeding livestock, regular chores.

MINNESOTA: Temperatures averaged 8° above normal. Extremes: 40 and 15°. Precipitation averaged 0.10 in. below normal extreme northeast and southwest, above normal elsewhere, up to 0.55 in. above normal west central to east central. Totals ranged from 0.03 to 1.32 in. Snowfall less than 3 in. southwest, generally more than 6 in. north and central. Snow depth ranged from trace extreme southwest to more than 10 in. along the west to east band near Fargo to Duluth line.

MISSISSIPPI: Temperatures below normal. Extremes: 21 and 67°. Light to moderate rains. Weekend brought sunny skies, warmer temperatures.

Soil moisture adequate to surplus. Fieldwork: 3 days suitable. Livestock feeding and fence repair main farm activities. Winter wheat condition fair. Pasture condition mostly fair. Livestock condition fair to good. Hay and roughage supplies adequate. Feed grain supplies adequate.

MISSOURI: Temperatures near normal south, 6° above normal elsewhere. Precipitation averaged 0.50 in. south, little or none elsewhere. Snow extreme southwest in midweek 4 to 5 in.

MONTANA: Major snowstorm 4th and 5th leaving generally moderate to heavy amounts of precipitation. Snowfall ranged from 2 to 12 in. Temperatures averaged well above normal early week; fell sharply 5th as Canadian air moved in.

Snowcover for winter wheat improved by storm. About 70% of cattle and 85% of sheep receiving supplemental feed. Both cattle and sheep in good condition.

NEBRASKA: Temperatures averaged below normal in south from east to west which is area of most snowcover. Other areas had above normal temperatures. Precipitation widespread with many stations receiving 0.25 to 0.50 in.

Winter wheat mostly fair to good with light snowcover. Supplies of feed grains, hay, forage, range and pasture feed average or below.

NEVADA: Storm early in week warm, snow levels high. Clearing midweek when warming trend began. Temperatures averaged well above normal.

Supplemental feeding requirements increased with inclement weather.

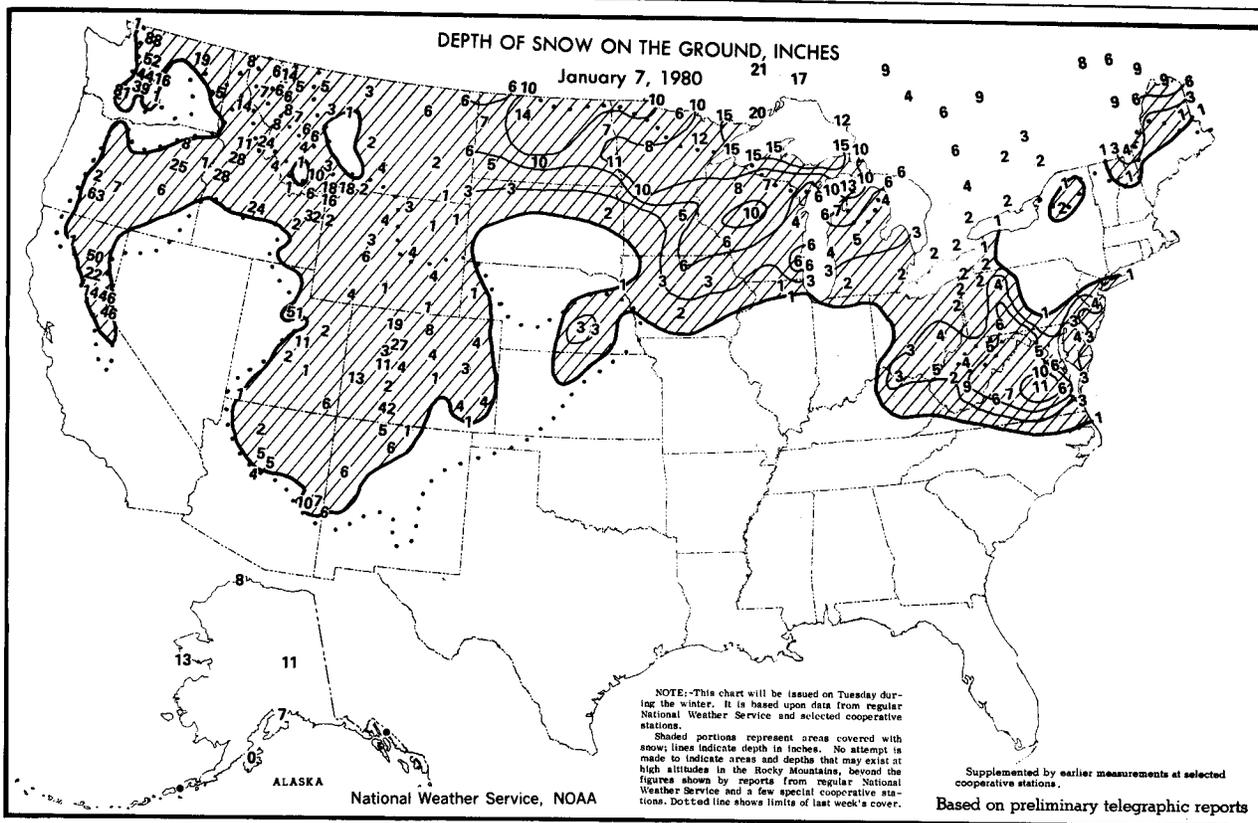
NEW ENGLAND: Stormtracks well to south kept area dry and relatively snow free. Mild temperatures early week gave way to below normal readings by weekend. Snow extreme south on 5th; 1 to 2 in.

NEW JERSEY: Temperatures near normal averaging 29° north, 33° south, 36° coastal. Extremes: 13 and 52°. Precipitation below normal averaging 0.07 in. north, 0.34 in. south, 0.56 in. coastal. Snow fell over all but extreme north 4th to 5th with 6 in. maximum reported.

Farmers caring for livestock, plowing snow and tending to normal winter chores.

NEW MEXICO: Dry with only light mountain snows 2d. Temperatures warmed slowly toward weekend, averaged 3 to 6° warmer than normal eastern plains; 5 to 10° colder than normal snowcovered areas of north and near normal elsewhere.

Cotton harvest completed; southern areas continue with clean-up operations. Irrigated wheat



mostly fair to good condition with grazing active. Dryland wheat only fair condition, lack of precipitation, grazing limited. Pecans 75% harvested. Soil moisture short. Range conditions fair with some ranges very dry. Livestock mostly good condition with supplemental feeding continuing in some areas.

NEW YORK: Unseasonably mild beginning, temperatures returned to near normal by end of week averaging in upper teens to 20's. Very little precipitation with only snow flurries and some light freezing rain except for New York City, Long Island 2 to 5 in. snow 4th and 5th.

NORTH CAROLINA: Temperatures near or slightly below normal. Precipitation light.
Fieldwork: 4.7 days suitable. Soil moisture adequate. Condition of wheat, oats, barley, rye, pastures fair to mostly good. Supplies of hay, roughage, feed grains mostly adequate. Major activities: Tending cattle, disking fields, repairing equipment, general farm maintenance.

NORTH DAKOTA: Mild until statewide blizzard 6th. Snow and strong winds. Visibility near zero. Many roads blocked. Temperatures plunged below zero. New snow 5 to 10 in. Water equivalent from 0.06 in. southeast to 0.99 in. northwest. Average temperatures near normal west and 6 to 10° above normal east. Extremes: -12° northeast to 47° southwest.

Farmers digging out from storm on 6th. New snowcover along with cold temperatures will increase livestock feeding. Snow will help previously unprotected winter crops.

OHIO: Average high temperatures about 30°; as much as 9° below normal. Temperatures did not

fall much at night. Average low temperatures as much as 9° above normal. Little or no precipitation; totals mostly from 0.10 to 0.30 in. Snow on weekend generally light. Snowcover amounted to around an inch over most of central and west. Some heavier amounts fell in eastern third.

Some plowing for spring crops before the weekend snow.

OKLAHOMA: Temperatures near normal. Precipitation light. Extremes: 12 and 72°. Normal temperatures in upper 30's and low 40's. Southwest and west central sections continue driest with less than half normal rain while north central and southeast have received equal or above normal rain since September 1.

Mild, open weather throughout December. Rains last ten days of month beneficial to wheat and other small grains. Wheat fair condition with 20% acreage being grazed, 20% last year, 20% average. More precipitation needed growth and development. Cotton 95% harvested, 90% last year and average. Fieldwork: 5.4 days suitable.

OREGON: Wet, mild. Rainfall along coast ranged from 1.21 to 3.44 in. Western valleys averaged over 1.00 to 2.00 in. Most of east received 0.10 or more with 0.25 to 0.50 in. in parts of north central and Columbia Basin areas. Temperatures mostly 2 to 4° above normal but 5 to 9° above normal over extreme south.

Soil moisture mostly adequate. Condition of winter wheat good. Livestock condition good. Range and pasture condition variable. Feed supply tight in some areas.

PENNSYLVANIA: Seasonable temperatures and only mild precipitation. Variable sunshine with mild days first half, considerably cooler weekend.

Extremes: 48 and -6° . Storm 4th and 5th brought less than 0.25 in. precipitation with somewhat greater amounts west and up to 0.50 in. extreme southeast where 4 to 6 in. new snow measured. Trace to 2 in. snowfall elsewhere.

Normal winter chores.

PUERTO RICO: Island average rainfall 0.08 in. or 0.79 in. below normal. Temperatures averaged about 76° on coasts and 71° interior. Extremes: 90 and 51° .

SOUTH CAROLINA: Cooler than usual with coldest 15° , and teens last half of week. Precipitation on several days; midweek snow, sleet 3 to 5 in. northwest.

Soybean harvest being completed as weather permits. Cotton classing through 4th with 95,699 bales, virtually complete. Soil sampling, liming; pruning fruit trees; general maintenance.

SOUTH DAKOTA: Temperatures returned to near normal. Heavy fog east. High winds late week with cold front. Average temperatures 1° subnormal to 6° above. Extremes: 57 and -15° . Precipitation light except north where 1 to 3 in. snow and near blizzard conditions.

TENNESSEE: Rain and warm temperatures. Precipitation averaged 0.50 in. Heavy snow upper elevations east. Temperatures 3° above normal west, 9° above normal east.

Soil moisture surplus. Pastures fair. Cattle on supplemental feed. Farmers busy marketing tobacco.

TEXAS: High pressure brought clear, seasonable weather. Arctic cold front plunged temperatures weekend. Rainfall below normal except normal 0.50 in. for Upper Coast.

Warmer temperatures promoted small grain growth, development. Open weather on Plains enabled cotton harvest to resume. South Texas, Lower Gulf Coast are short of moisture as precipitation has been very limited there since summer. Cold front entering Panhandle was pushing through State at weekend. Many cotton producers that finished harvest began cutting stalks. Most fields yet to be stripped located on northern Low Plains. Harvest virtually complete Trans-Pecos. Small grain prospects continue to brighten as warm weather aided emergence, growth. Small grain grazing remains minimal on Plains although more stockers moved onto Central, East Texas fields. Greenbug, winter grain mite damage increased throughout Blacklands forcing many producers to spray oat, wheat fields. Cotton harvested 99%, 96% 1978, 98% average. Wheat emerged 96%. Pecans harvested 93%, 100% 1978, 99% average. Flax planted 90%, 100% 1978, 100% average.

Livestock fair to good condition; pastures some areas continue deteriorate from lack of moisture. Statewide supplemental feeding active. Small grain pastures provide grazing Central Texas, High Plains.

Lower Rio Grande Valley cantaloup planting underway. Grapefruit and oranges to market full volume. Harvest lettuce, cabbage, bell peppers active. Laredo cabbage, spinach harvests continued. Broccoli harvest start soon. Carrots and onions making good progress. San Antonio-Winter Garden cabbage, carrot, spinach harvests active. Onion planting continued. Coastal Bend land preparation spring planting active. Irrigated cabbage progress well. East Texas rains slowed land preparation, cabbage sets. El Paso onions making good progress. High

Plains land preparation spring planting continued. Pecan harvest winding down; wet weather delayed completion some areas. Scattered areas, natives not being harvested because low prices.

UTAH: Recurring periods light rain or snow. Amounts generally very light but moderate few localities. Average temperatures quite variable ranging from 10° below to 4° above normal. Soil moisture deficit becoming serious for this season of year. Much below normal snow pack in mountains.

Colder temperatures limited farm activities to feeding and caring for livestock. Sorting, grading, marketing onions, potatoes, apples.

VIRGINIA: Average temperatures upper 30's, slightly above normal. Extremes: low 50's to mid-teens. First major snow late week dumped 18 in. snow on 4th and 5th. All sections received some but heavier amounts in central, east.

Topsoil moisture mostly adequate. Fieldwork: 4.6 days available. Fuel supplies mostly adequate. Winter grains, grazing good to excellent. Snow on 4th to 5th provided protection to small grains from freezing temperatures, but hampered on-farm mobility due to deep snow difficulties encountered in feeding livestock. Mild conditions until end of period aided calving, lambing with low death loss. Pruning fruit trees active in milder weather. Tobacco growers prepared fire-cured, burley for market. Other activities: Plowing; liming; fertilizing; soil sampling; corn, soybean combining in lowland areas; care, feeding of livestock.

WASHINGTON: West: Temperatures averaged 3 to 5° above normal. Precipitation below normal.

Caneberry pruning and tying continued. Very little flood damage.

East: Temperatures averaged 2 to 7° above normal. Precipitation slightly below normal.

Grape and fruit pruning continued. No snowcover on much of the region. Late grazing possible. Adequate moisture for grains.

WEST VIRGINIA: Temperatures normal central, above south and northeast, below other areas. Extremes: 11 and 59° . Precipitation below normal. Measurable snow all areas 3d to 5th. Fieldwork: 3.3 days suitable. Soil moisture adequate. Hay, grain, other feed supplies adequate. Fuel supplies adequate to tight.

WISCONSIN: Week began mild with high temperatures in 40's 31st. Readings seasonable remainder of week with highs in 20's and lows mostly in 20's and teens. Extremes: 42 and -5° . Precipitation light through 5th except for lake effect snow of 1 to 4 in. Milwaukee and extreme southeast 3d to 5th. First major winter storm of season occurred 6th as 4 to 14 in. snow fell across northern half and 1 to 3 in. southern half. Very strong westerly winds caused blizzard conditions north and made traveling nearly impossible. Total weekly precipitation ranged from 0.50 to 1.00 in. north to 0.10 to 0.20 south.

WYOMING: Temperatures above normal. Less than 0.10 in. precipitation.

Above normal temperatures and below normal precipitation minimizing stress on livestock. Livestock mostly good condition. Supplemental feeding necessary in areas with snowcover. Feed supplies adequate. Winter wheat mostly good condition.

International Weather and Crop Summary

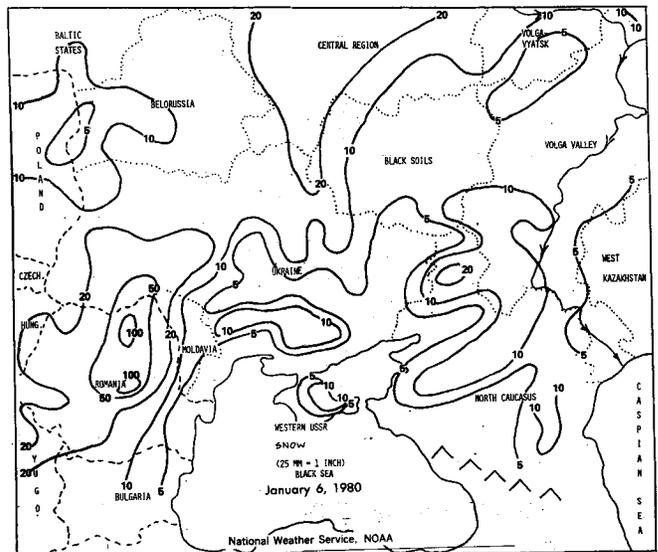
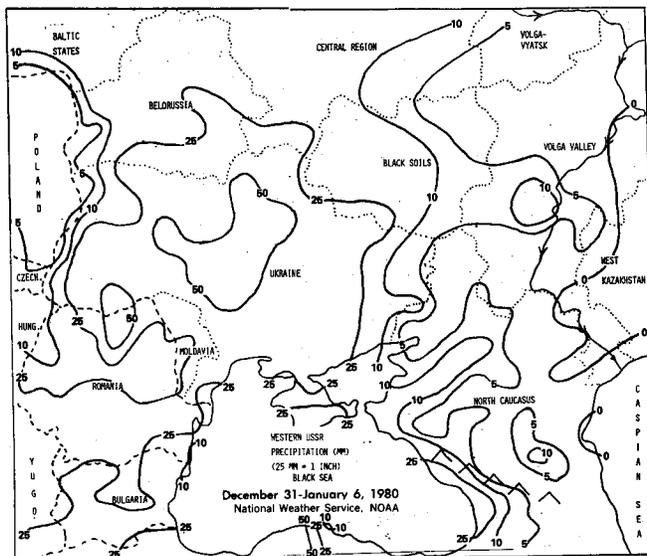
December 31 - January 6

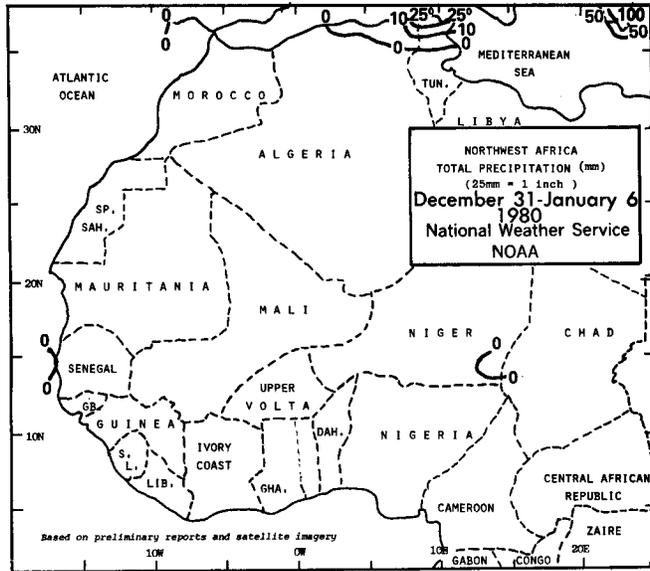
HIGHLIGHTS:

- USSR. Winter grains dormant...good snowcover in most areas.
- EUROPE. Winter grains dormant, except extreme south...dry again in Spain.
- CHINA. Winter grains dormant north of Yangtze River...moisture good in the south.
- INDIA. Wheat-sowing season ended*...heavier rain in the north.
- AUSTRALIA. Harvesting winter grains in the south*...some rain in Victoria.
- AFRICA. Northern: sowing of winter grains nearly over*...dry in some areas.
Southern: maize planting season ended*...becoming dry in the southwest.
- ARGENTINA. Wheat harvest season nearly complete*...favorable harvest weather.
- BRAZIL. Soybean planting season ended*...a little dry in southern Rio Grande do Sul.
- MEXICO. Vegetable harvesting increasing, citrus harvest declining...favorable weather.

*Based on normal crop calendar information.

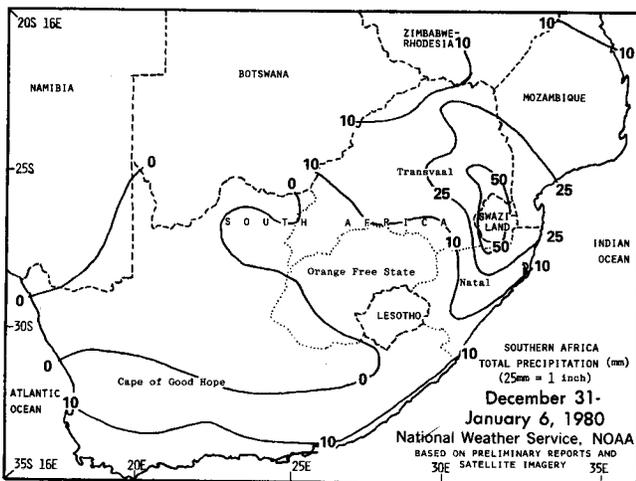
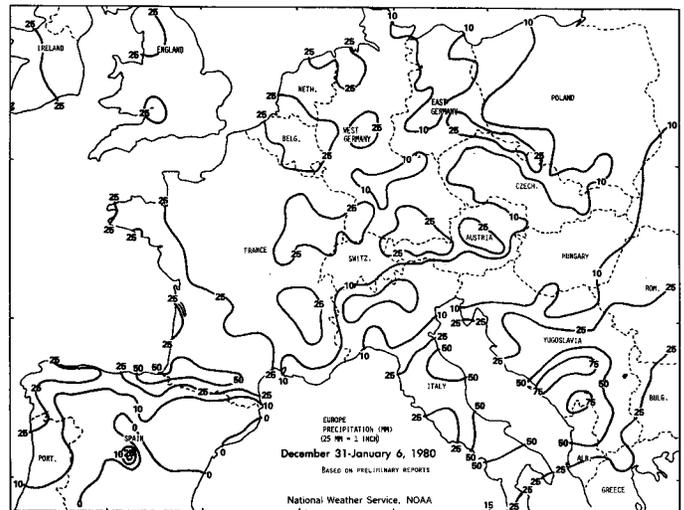
USSR. Two storms moved through the Ukraine and dropped abundant snow over much of the Ukraine and the lower Volga Valley. Snow depths at week's end adequately protected winter grains in most areas, with a few locations reporting as little as two centimeters of snow. Temperatures dipped briefly to near -20° C in northern portions of the belt but posed no danger to winter grains. In the south, temperatures ranged above normal, but minimums rarely exceeded freezing.



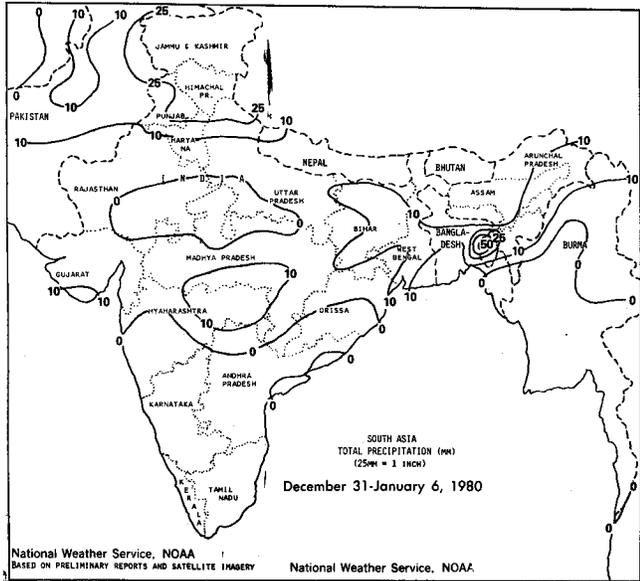


NORTHERN AFRICA. Last week's trend toward drier weather continued, with no precipitation in Morocco and western Algeria and substantial amounts limited to the northern coast of Tunisia. Soil moisture is probably still adequate for winter grains on heavier soils in Morocco, but southern grain areas are becoming quite dry. Algerian and Tunisian crops should have adequate moisture.

EUROPE. Precipitation tapered off in the United Kingdom, but above-normal amounts continued in most coastal areas that were wet the previous week. The Iberian Peninsula turned drier again after a single week of near-normal precipitation. Temperatures are dropping too low to expect much wheat growth, and moisture for the wheat remains marginal at best. Above-normal moisture prevailed for the fourth consecutive week in the hills of western Yugoslavia, maintaining very wet conditions but with no substantial agricultural impact. Abundant rainfall in peninsular Italy benefited wheat, with temperatures holding warm enough for continued growth.

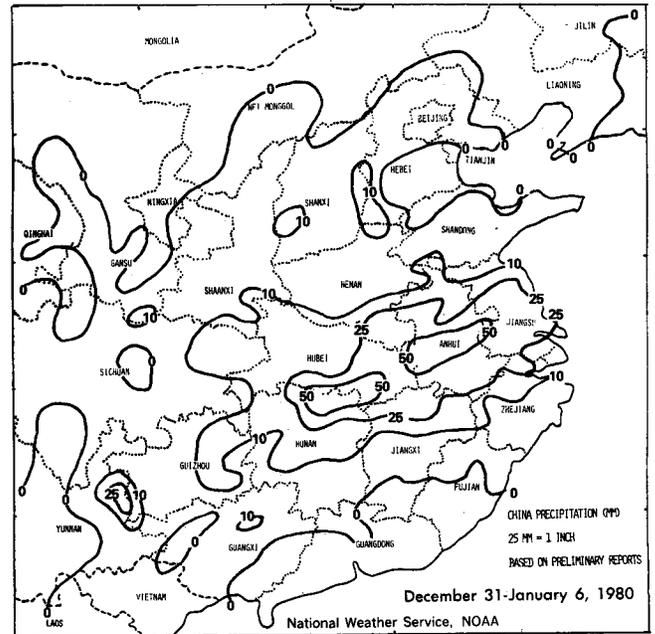


SOUTH AFRICA. Normal rainfall occurred only on the northeastern fringes of the Maize Triangle. Conditions are becoming a little dry for favorable growth in the southwestern half.

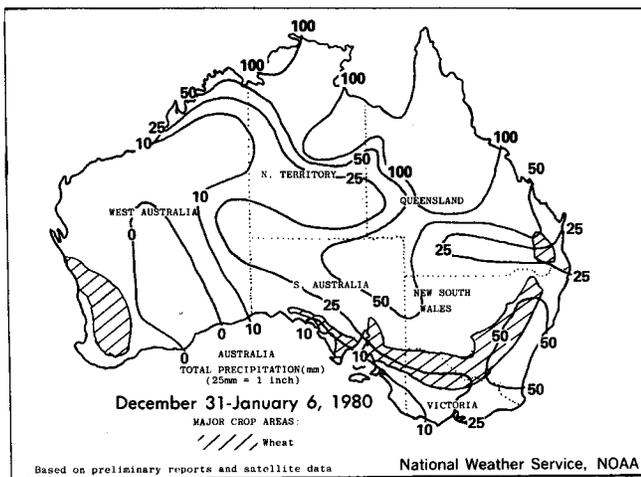


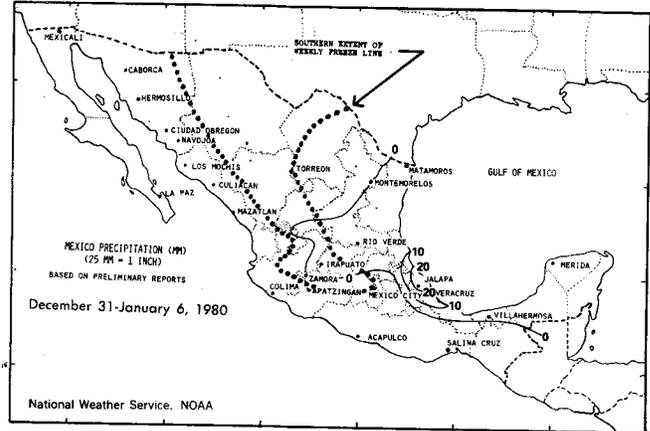
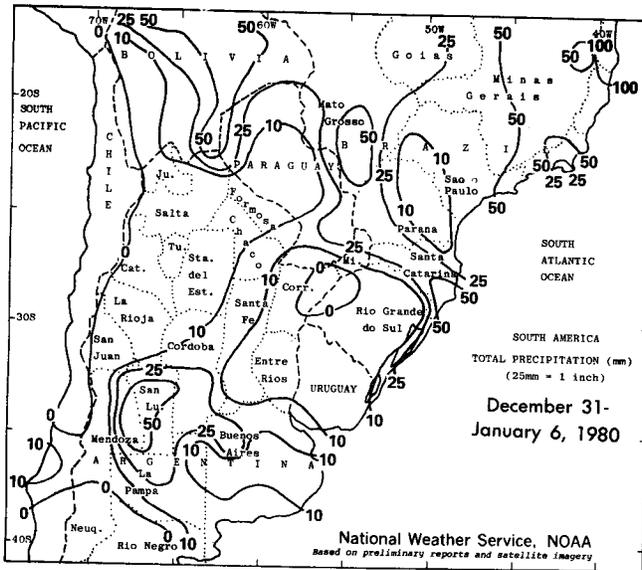
INDIA. Winter grain prospects improved again as above-normal rains fell in Punjab, northern Haryana, and extreme northern Uttar Pradesh. The outlook for irrigation supplies remained good due to continued abundant precipitation in the western Himalayas. Lighter amounts fell in minor winter grain areas to the east in Bihar.

CHINA. In a rare precipitation event early in the week, most winter wheat in the Yangtze Valley received more than 25 mm water equivalent, with totals often ranging above 50 mm. Benefits to wheat have been somewhat negated by declining temperatures following the rains, and little growth occurred north of the Yangtze River.



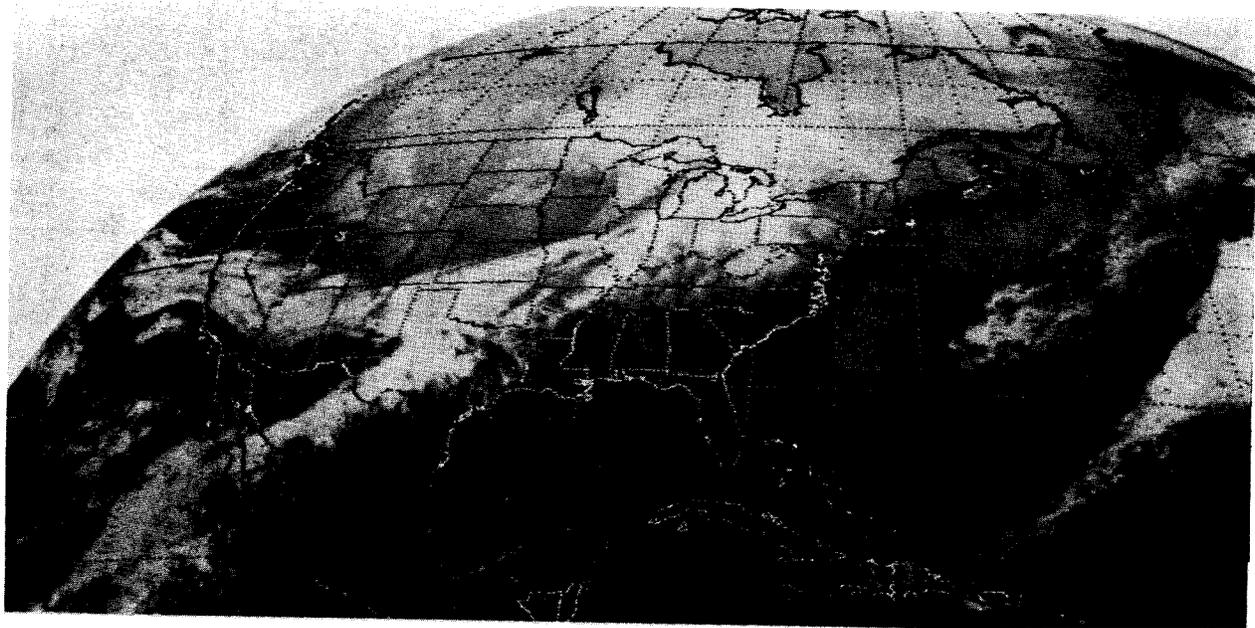
AUSTRALIA. Rainfall activity shifted to the east early in the week and dropped much-above-normal totals over most of Victoria where wheat harvesting should still be in progress. Clearer weather followed quickly, so delays were of short duration. Widespread heavy rains in the north eliminated previous deficits and improved conditions for livestock.





SOUTH AMERICA. Rainfall in southwestern Parana increased to near normal again, maintaining favorable soybean growing conditions. Conditions are drier to the northeast near Londrina, but moisture should still be adequate. Soils in central and southern Rio Grande do Sul are becoming a little too dry, putting some stress on soybeans, while conditions in the north of the state remain good. In Argentina, drier weather favored late wheat harvest activity, while soils in southern Santa Fe and Cordoba remained quite moist enough to permit corn and soybean growth.

MEXICO: Light rains, dotting eastern citrus and central plateau strawberries, were generally too light to improve soil moisture or to interfere with harvesting. Sunny, dry weather continued over west coast vegetables and the major wheat areas. Reservoir levels continued low in the droughty north. Temperatures dipped to near freezing in the major strawberry district but remained mild over west coast vegetables. Culiacan's overnight minima averaged 11°C with a relative humidity of 97 percent, while afternoon maxima averaged 29°C with a 33-percent humidity.

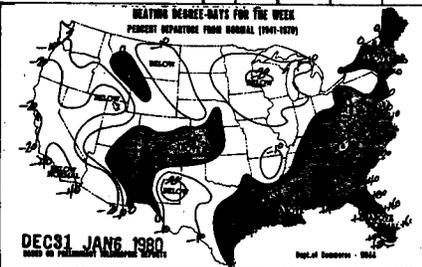


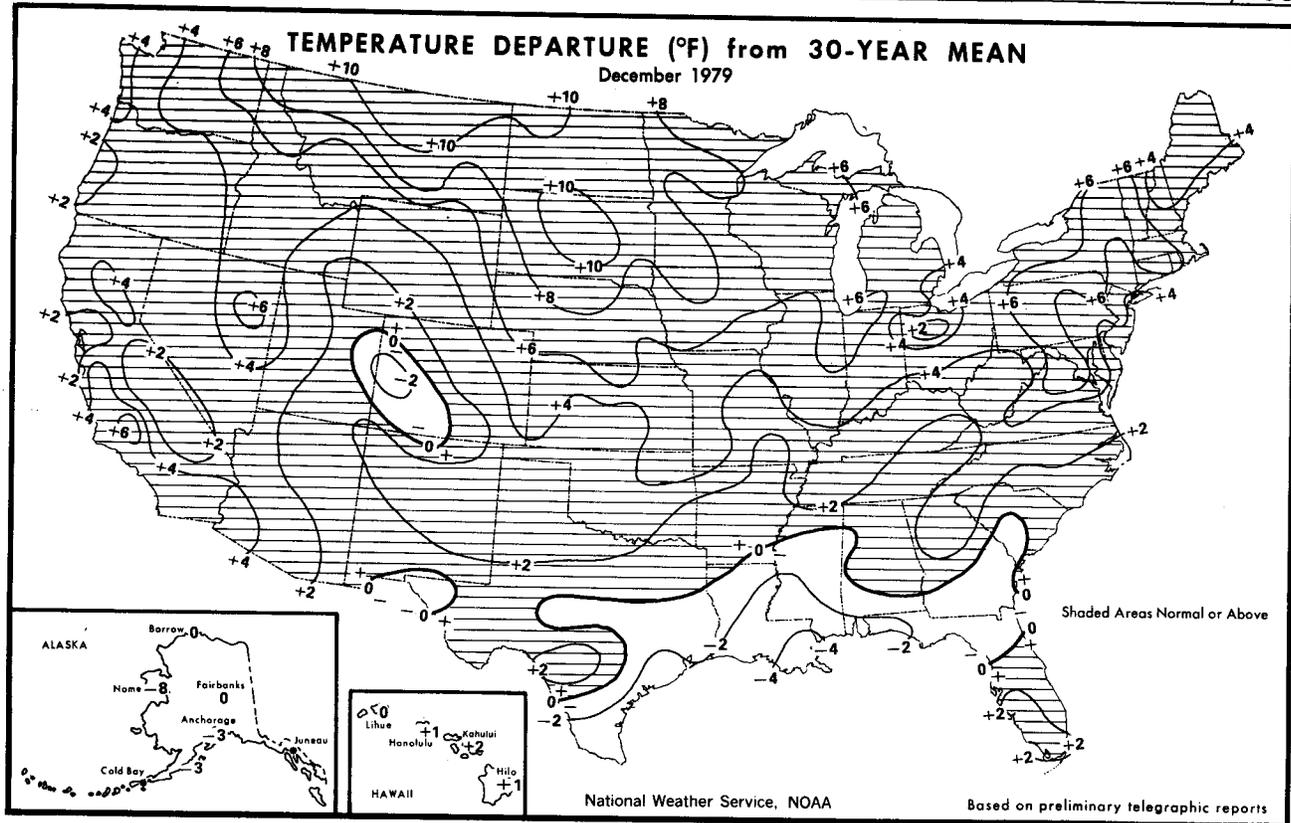
This NOAA satellite picture, taken 6PM CST Sunday (Jan. 6), shows the cloud patterns responsible for the cold and snowy weather over the northern Rockies and Great Plains. The faint cloudiness over Minnesota marks the storm's center, while the increasingly brighter clouds over Wisconsin, Illinois, Missouri, Oklahoma, and Texas delineate the cold front.

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING JAN. 6, 1980.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

Table with columns for STATES AND STATIONS, WEEKLY TOTAL, DEPARTURE*, SEASONAL ACCUMULATION +, and DEPARTURE FROM 1978-79. Rows list various cities across the United States.





December Weather Summary

HIGHLIGHTS: The heaviest precipitation areas during the month of December ranged from Texas through the Great Lakes, from central California through Washington, and in the Southeast. It was late in the month when heavy snow fell in the Cascades, the Sierras, and the central Rockies; the deep snow was most welcome in those snow-free areas. The dry parts of West Texas were soaked by more than 2.5 inches of moisture, generally in the form of snow. Much of the Nation recorded less than the normal amount of precipitation. Temperatures averaged well above normal in much of the Nation. Parts of the northern Plains were as much as 10 degrees warmer than normal.

Early in December, a low pressure system moving through the Great Lakes deposited large amounts of snow. The areas along the southern shores of the eastern Lakes accumulated over 20 inches in the first two days of the month.

The week of December 3-9 was unusually warm in the West. A high pressure system centered in the Rockies, brought warm breezes through California from the south and colder air into the Plains from the north. Contrasting temperatures showed record low readings in the Plains and the South and record highs in the West. Precipitation during the period was confined to heavy rains in the Southeast with lesser amounts all along the East Coast, snow in the Great Lakes area, and heavy rain in the Pacific Northwest.

In the following week, December 10-16, the warm weather moved to the eastern United States. Readings in the sixties were recorded in the Great Lakes area and Maine. Later in the week, a mass of cold air dropped southward through Montana plunging temperatures from record highs to record lows.

Rain amounts increased in the Pacific Northwest during this second week of the month. Amounts of 5 or more inches resulted in flooding in Washington from the Cascades to the coast. Elsewhere, a frontal system moving eastward encountered moisture from southern New Mexico northeastward, and rain or snow fell all along the front as it tracked eastward. The previously dry areas in southern New Mexico and West Texas got up to 2 inches of moisture, mostly in the form of snow. The rain became heavier as the front moved further into the moist air. From 2 to 5 inches fell from the lower Mississippi Valley through Kentucky, and substantial amounts extended into Pennsylvania.

Precipitation was more widespread in the third week of the month, December 17-23. The moisture in the West spread to southern California and into the Rockies. Cooler air at the end of the week allowed snow to accumulate in the mountains. In the East, after a cold beginning, temperatures warmed by week's end and heavy showers, thunderstorms, and even tornadoes occurred in the lower Mississippi Valley on the first day of winter, December 22.

The last week of the month and year was a wet one in most of the Nation. Snow fell in the Cascades, the Sierras, the central Rockies, and the west central Plains and was welcome in these snowless areas. However, snow was scarce elsewhere. Beneficial rain fell on central Texas, Oklahoma, and eastern Kansas, and rainy weather enveloped the region from the Mississippi River to the East Coast. Most of the Nation was warmer than normal. Average temperatures for the week were as much as 15 degrees warmer than normal in the northern Plains, in spite of the fact that winter had officially begun. However, freezing temperatures did reach as far south as northern Florida in the latter part of the week.

Temperature and Precipitation Data for December 1979

States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches		States and Stations	Temperature of		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	46	1	1.6	- 3.6	LA. Baton Rouge . . .	50	- 3	2.8	- 2.2	Youngstown . . .	33	4	4.0	1.4
Mobile . . .	51	- 2	3.9	- 2.0	Lake Charles . . .	52	- 2	3.2	- 2.5	OKLA. Okla. City . . .	43	3	2.6	1.3
Montgomery . . .	50	1	2.8	- 2.1	New Orleans . . .	50	- 5	3.1	- 2.0	Tulsa . . .	44	4	5	- 1.1
ALASKA. Anchorage . . .	10	- 3	1.5	.4	Shreveport . . .	49	0	3.1	- 1.1	OREG. Astoria . . .	47	4	13.2	- 2.6
Barrow . . .	-12	0	0	0	MAINE. Caribou . . .	19	3	3.1	.5	Burns . . .	30	2	1.6	- 1
Fairbanks . . .	-10	0	0	0	Portland . . .	30	4	2.6	- 1.5	Medford . . .	40	2	2.7	- 1.0
Juneau . . .	-4	0	0	0	MD. Baltimore . . .	40	5	.9	- 2.4	Pendleton . . .	38	2	6	- .9
Kodiak . . .	27	- 3	1.3	- 3.7	MASS. Boston . . .	37	4	1.4	- 2.8	Portland . . .	44	3	7.2	1.2
Nome . . .	-4	0	0	0	Chatham . . .	38	4	3.5	.6	Salem . . .	45	4	7.0	1.1
ARIZ. Flagstaff . . .	31	1	1.5	- .7	MICH. Alpena . . .	28	5	2.1	.2	PA. Allentown . . .	36	5	2.5	- 1.1
Phoenix . . .	56	3	1	- .7	Detroit . . .	32	3	2.4	.1	Erie . . .	35	5	4.9	2.1
Tucson . . .	55	3	2	- .7	Flint . . .	32	5	2.3	.6	Harrisburg . . .	38	5	1.5	- 1.6
Winslow . . .	34	0	5	- .1	Grand Rapids . . .	33	6	3.0	.8	Philadelphia . . .	38	3	1.7	- 1.6
Yuma . . .	60	4	1	- .2	Houghton Lake . . .	28	5	1.7	- .1	Pittsburgh . . .	35	4	2.3	- .2
ARK. Fort Smith . . .	42	1	2.7	- 1.2	Lansing . . .	31	4	2.3	.3	Scranton . . .	36	6	1.7	- .8
Little Rock . . .	44	1	2.9	- 1.1	Marquette . . .	24	6	1.6	- .6	R.I. Providence . . .	37	6	1.8	- 2.3
CALIF. Bakersfield . . .	55	7	2	- .5	Muskegon . . .	31	3	2.5	.1	S.C. Charleston . . .	49	0	2.6	- .5
Eureka . . .	52	3	3.8	- 2.8	S. Ste. Marie . . .	24	4	2.1	- .3	Columbia . . .	45	- 1	1.5	- 1.9
Fresno . . .	47	1	7	- 1.0	MINN. Duluth . . .	22	8	.2	- 1.2	Greenville . . .	45	2	1.3	- .8
Los Angeles . . .	61	5	4	- 1.4	Internatl Falls . . .	15	6	.4	- .6	S.D. Aberdeen . . .	26	9	.1	- .4
Red Bluff . . .	50	4	6.0	2.1	Minneapolis . . .	26	7	.3	- .6	Huron . . .	29	10	T	- .5
San Diego . . .	61	4	T	- 1.7	St. Cloud . . .	26	7	.5	- .3	Rapid City . . .	33	7	.1	- .3
San Francisco . . .	51	1	4.3	.3	Rochester . . .	23	7	.3	- .6	Sioux Falls . . .	27	7	T	- .7
Stockton . . .	48	3	1.8	- .9	St. Louis . . .	46	- 3	4.2	- .8	TENN. Chattanooga . . .	41	0	1.7	- 3.6
COLO. Denver . . .	35	2	1.1	- .6	Meridian . . .	48	0	2.3	- 3.3	Knoxville . . .	42	0	1.9	- 2.6
Grand Junction . . .	28	- 2	.3	- .3	MO. Columbia . . .	36	3	1.4	- .4	Memphis . . .	45	2	4.9	.2
Pueblo . . .	34	1	1.0	.7	Kansas City . . .	35	4	1	- 1.4	Nashville . . .	42	2	5.0	.5
CONN. Bridgeport . . .	38	4	2.2	- 1.2	St. Louis . . .	39	4	1.9	- .1	TEX. Abilene . . .	48	1	2.6	1.6
Hartford . . .	34	6	2.6	- 1.5	Springfield . . .	41	5	1.4	- 1.1	Amarillo . . .	39	0	.1	- .6
D.C. Washington . . .	43	6	.9	- 2.1	MONT. Billings . . .	36	9	.1	- .6	Austin . . .	53	1	3.4	1.2
FLA. Apalachicola . . .	54	1	3.6	.3	Glasgow . . .	27	10	.1	- .2	Beaumont . . .	53	- 1	2.5	- 2.4
Daytona Beach . . .	60	0	.6	- 1.4	Great Falls . . .	35	8	.3	- .4	Brownsville . . .	60	- 3	2.0	.8
Ft. Myers . . .	68	2	5.2	3.9	Havre . . .	29	11	.2	- .2	Corpus Christi . . .	59	0	1.0	- .5
Jacksonville . . .	54	- 1	2.0	- .6	Helena . . .	28	5	.6	0	Del Rio . . .	54	2	.8	.3
Key West . . .	72	0	1.2	- .3	Kalispell . . .	32	8	1.3	- .2	El Paso . . .	43	- 1	.3	- .2
Lakeland . . .	--	--	--	--	Miles City . . .	29	7	.1	- .4	Fort Worth . . .	49	1	2.7	.9
Miami . . .	70	2	2.8	1.2	Missoula . . .	31	6	.8	- .3	Galveston . . .	55	- 2	3.0	- .7
Orlando . . .	63	- 1	.9	- 1.0	NEBR. Grand Island . . .	33	6	.5	- .1	Houston . . .	52	- 3	4.0	0
Tallahassee . . .	52	1	5.7	1.5	Lincoln . . .	32	5	.4	- .3	Lubbock . . .	43	2	1.3	.7
Tampa . . .	63	1	1.5	- .7	Norfolk . . .	34	7	.5	- .1	Midland . . .	46	0	2.8	2.3
W. Palm Beach . . .	67	0	2.7	.5	N. Platte . . .	31	7	.3	- .1	San Angelo . . .	47	- 1	2.7	2.0
GA. Atlanta . . .	47	3	.7	- 3.5	Omaha . . .	32	6	.2	- .6	San Antonio . . .	55	- 2	2.9	1.4
Augusta . . .	46	0	1.9	- 1.5	Valentine . . .	32	6	T	- .3	Victoria . . .	54	- 2	2.2	.2
Macon . . .	50	2	1.8	- 2.5	NEV. Ely . . .	31	5	.2	- .6	Waco . . .	49	- 1	4.0	2.0
Savannah . . .	51	1	2.7	- .6	Las Vegas . . .	47	2	.2	- .2	Wichita Falls . . .	47	3	2.0	.7
HAWAII. Hilo . . .	73	1	7.4	- 8.4	Reno . . .	36	3	2.0	- .9	UTAH. Blanding . . .	32	2	1.3	0
Honolulu . . .	75	1	1.5	- 2.2	Winnemucca . . .	33	3	.3	- .6	Salt Lake City . . .	33	3	.6	- .8
Kahului . . .	75	2	4.8	2.0	N.H. Concord . . .	29	5	1.9	- 1.4	VT. Burlington . . .	29	6	1.5	- .7
Lihue . . .	73	0	4.7	- 1.6	N.J. Atlantic City . . .	38	3	2.2	- 1.8	VA. Lynchburg . . .	41	3	1.1	- 2.1
IDAHO. Boise . . .	36	4	.8	- .6	Trenton . . .	39	4	1.6	- 1.7	Norfolk . . .	45	3	1.0	- 2.1
Lewiston . . .	40	5	1.0	- .3	N.MEX. Albuquerque . . .	38	2	.9	- .4	Richmond . . .	42	3	1.6	- 1.6
Pocatello . . .	29	2	.4	- .6	Roswell . . .	41	2	.4	- .1	Roanoke . . .	35	4	1.1	- 2.0
ILL. Cairo . . .	41	2	3.4	- .5	N.Y. Albany . . .	31	5	.9	- 2.0	WASH. Colville . . .	32	5	2.0	0
Chicago . . .	34	6	2.5	.4	Binghamton . . .	31	6	1.8	- 1.0	Omak . . .	45	4	28.0	12.4
Moline . . .	32	5	2.3	.5	Buffalo . . .	33	5	3.4	.4	Quillayute . . .	44	3	11.9	6.0
Peoria . . .	32	4	2.3	.4	New York . . .	39	3	2.6	- .5	Seattle-Tacoma . . .	35	6	1.9	- .5
Rockford . . .	29	4	2.2	.5	Rochester . . .	32	4	2.9	.5	Spokane . . .	41	4	1.3	- .7
Springfield . . .	36	5	2.4	.5	Syracuse . . .	33	5	1.8	- 1.3	Walla Walla . . .	35	4	1.3	.1
IND. Evansville . . .	39	4	3.0	- .3	N.C. Asheville . . .	42	3	1.1	- 2.5	W. VA. Beckley . . .	36	3	2.8	- 1.8
Ft. Wayne . . .	31	2	2.6	.4	Charlotte . . .	44	1	1.4	- 2.0	Charleston . . .	38	2	2.8	.6
Indianapolis . . .	35	4	2.6	- .1	Greensboro . . .	42	2	1.1	- 2.1	Huntington . . .	39	3	2.8	- .2
South Bend . . .	35	7	3.7	1.2	Hatteras . . .	49	1	5.2	.7	Parkersburg . . .	37	2	1.9	- .9
IOWA. Burlington . . .	33	5	1.2	- .4	Raleigh . . .	43	2	.9	- 2.2	WISC. Green Bay . . .	28	7	1.3	0
Des Moines . . .	32	7	.2	- .9	Wilmington . . .	48	0	2.4	- 1.0	La Crosse . . .	28	6	.7	- .3
Dubuque . . .	30	7	1.3	- .6	N.DAK. Bismarck . . .	24	8	.2	- .3	Madison . . .	29	7	1.9	.4
Sioux City . . .	30	6	.2	- .6	Fargo . . .	21	8	.1	- .5	Milwaukee . . .	31	7	2.3	.5
KANS. Concordia . . .	36	6	.4	- .4	Williston . . .	24	9	1	- .4	WYO. Casper . . .	29	3	.4	- .1
Dodge City . . .	34	1	.7	- .2	OHIO. Akron-Canton . . .	33	4	2.4	0	Cheyenne . . .	33	4	1.5	1.1
Goodland . . .	36	5	1.2	- .7	Cincinnati . . .	36	2	2.9	0	Lander . . .	25	2	1.1	.6
Topeka . . .	36	4	.1	- 1.4	Cleveland . . .	34	4	4.0	1.6	Sheridan . . .	31	5	.2	- .5
Wichita . . .	38	3	2.0	.9	Columbus . . .	35	4	1.8	- .6	P.R. San Juan . . .	84	7	3.9	- .8
Wichita . . .	38	2	3.8	.2	Dayton . . .	35	4	2.1	- .2					
Louisville . . .	39	3	3.8	.5	Toledo . . .	32	4	2.5	.3					

Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

December 1979

ALA. Birmingham . . .	587	MAINE, Caribou . . .	1413	OKLA. Okla. City . . .	669
Mobile . . .	424	Portland . . .	1083	Tulsa . . .	632
Montgomery . . .	466	MD. Baltimore . . .	757	OREG. Astoria . . .	540
ALASKA, Anchorage . .	1682	MASS. Boston . . .	873	Burns U. . .	1083
Barrow . . .	2391	Chatham . . .	818	Medford . . .	776
Fairbanks . . .	2285	MICH. Alpena . . .	1128	Pendleton . . .	824
Juneau . . .	--	Detroit . . .	1019	Portland . . .	641
Nome . . .	2134	Flint . . .	1014	Salem . . .	620
ARIZ. Flagstaff . . .	1042	Grand Rapids . . .	984	PA. Allentown . . .	884
Phoenix . . .	277	Houghton Lake . . .	1153	Erie . . .	939
Tucson . . .	302	Lansing . . .	1058	Harrisburg . . .	844
Winslow . . .	966	Marquette U . . .	1282	Philadelphia . . .	823
Yuma . . .	169	S. Ste. Marie . . .	1263	Pittsburgh . . .	935
ARK. Fort Smith . . .	698	MINN. Duluth . . .	1316	Scranton . . .	900
Little Rock . . .	633	Internatl Falls . .	1539	R. I. Providence . . .	849
CALIF. Bakersfield . .	334	Minneapolis . . .	1203	S. C. Charleston . . .	500
Eureka U. . .	410	Rochester . . .	1201	Columbia . . .	616
Fresno . . .	555	St. Cloud . . .	1297	Greenville . . .	600
Los Angeles U . . .	150	MISS. Jackson . . .	580	S. DAK. Aberdeen . . .	1215
Red Bluff . . .	472	Meridian . . .	536	Huron . . .	1117
Stockton . . .	518	Vicksburg U . . .	--	Rapid City . . .	982
San Diego . . .	136	MO. Columbia . . .	897	Sioux Falls . . .	1168
San Francisco . . .	431	Kansas City . . .	918	TENN. Chattanooga . .	728
COLO. Denver . . .	939	St. Louis . . .	810	Knoxville . . .	700
Grand Junction . . .	1175	Springfield . . .	726	Memphis . . .	598
Pueblo . . .	959	MONT. Billings . . .	885	Nashville . . .	722
CONN. Bridgeport . . .	833	Glasgow . . .	1187	TEX. Abilene . . .	530
Hartford . . .	965	Great Falls . . .	936	Amarillo . . .	806
D. C. Washington . . .	654	Havre . . .	1118	Austin . . .	372
FLA. Apalachicola . .	335	Helena . . .	1138	Beaumont . . .	382
Ft. Myers . . .	28	Kalispell . . .	1008	Brownsville . . .	204
Jacksonville . . .	331	Miles City . . .	1110	Corpus Christi . . .	233
Key West . . .	0	Missoula . . .	1043	Dallas . . .	--
Daytona Beach . . .	183	NEBR. Grand Island .	978	Del Rio . . .	346
Miami . . .	10	Lincoln . . .	1007	El Paso . . .	670
Orlando . . .	119	Norfolk . . .	1046	Fort Worth . . .	478
W. Palm Beach . . .	46	North Platte . . .	957	Galveston U. . .	302
Tallahassee . . .	399	Omaha . . .	1016	Houston . . .	389
Tampa . . .	112	Valentine . . .	1010	Lubbock . . .	690
GA. Atlanta . . .	559	NEV. Ely . . .	1035	Midland . . .	567
Augusta . . .	584	Las Vegas . . .	546	San Angelo . . .	540
Macon . . .	461	Reno . . .	907	San Antonio . . .	306
Savannah . . .	438	Winnemucca . . .	988	Victoria . . .	329
IDAHO, Boise . . .	899	N. H. Concord . . .	1098	Waco . . .	483
Lewiston . . .	774	N. J. Atlantic City .	830	Wichita Falls . . .	563
Pocatello . . .	1100	Trenton U . . .	788	UTAH, Milford . . .	1050
ILL. Cairo U. . .	726	N. MEX. Albuquerque .	840	Salt Lake City . . .	987
Chicago . . .	951	Roswell . . .	735	VT. Burlington . . .	1107
Moline . . .	1027	N. Y. Albany . . .	1036	VA. Lynchburg . . .	745
Peoria . . .	1022	Binghamton . . .	1040	Norfolk . . .	616
Rockford . . .	1110	Buffalo . . .	973	Richmond . . .	698
Springfield . . .	898	New York . . .	802	Roanoke . . .	738
IND. Evansville . . .	813	Rochester . . .	1006	WASH. Colville . . .	932
Fort Wayne . . .	1037	Syracuse . . .	971	Omak . . .	--
Indianapolis . . .	929	N. C. Asheville . . .	707	Quillayute . . .	628
South Bend . . .	928	Charlotte . . .	655	Seattle-Tacoma . . .	642
IOWA, Burlington . . .	1004	Greensboro . . .	719	Spokane . . .	918
Des Moines . . .	1031	Hatteras R. . .	487	Walla Walla U. . .	737
Dubuque . . .	1087	Raleigh . . .	661	Yakima . . .	928
Sioux City . . .	1075	Wilmington . . .	525	W. VA. Beckley . . .	890
KANS. Concordia . . .	909	N. DAK. Bismarck . .	1273	Charleston . . .	820
Dodge City . . .	940	Fargo . . .	1367	Huntington . . .	798
Goodland . . .	907	Williston U . . .	1272	Parkersburg U. . .	859
Topeka . . .	908	OHIO, Akron-Canton .	981	WIS. Green Bay . . .	1151
Wichita . . .	838	Cincinnati U. . .	887	Madison . . .	1112
KY. Lexington . . .	833	Cleveland . . .	967	Milwaukee . . .	1036
Louisville . . .	792	Columbus . . .	920	WYO. Casper . . .	1116
LA. Baton Rouge . . .	465	Dayton . . .	923	Cheyenne . . .	982
Lake Charles . . .	400	Toledo . . .	1009	Lander . . .	1234
New Orleans . . .	396	Youngstown . . .	987	Sheridan . . .	1044
Shreveport . . .	498				

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.

Agricultural Weather Facility
USDA South Bldg., Room 3526
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

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Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

Standard copy for the Bulletin is prepared by Donald J. Haddock, Lyle Denny, and O. W. Byrd, Climate Analysis Center, National Weather Service,

National Oceanic and Atmospheric Administration; Harry DeLong and Jim Carlin, Economics, Statistics, and Cooperatives Service, U.S. Department of Agriculture.

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