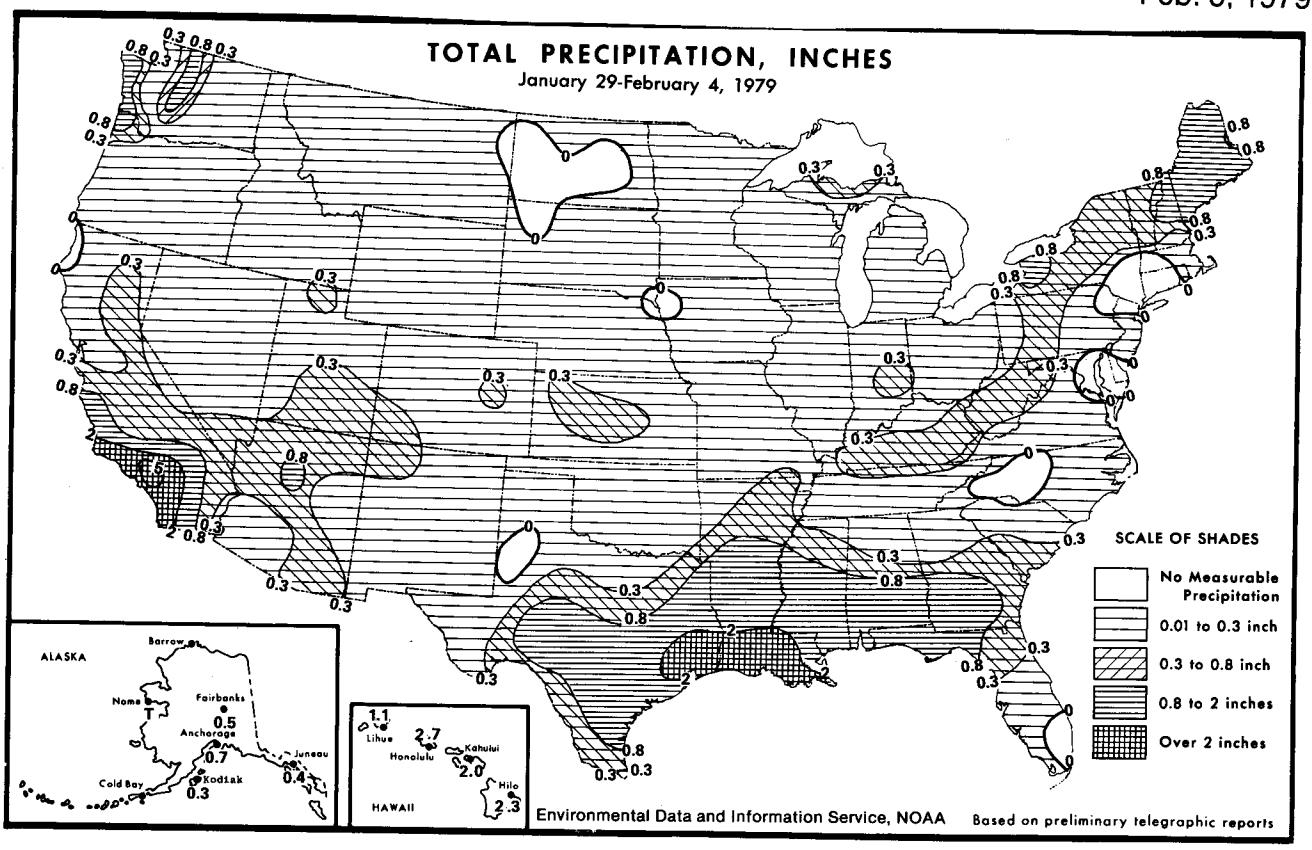
WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
Environmental Data and Information Service, NOAA

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

Volume 66, No. 6 | Washington, D.C. | Feb. 6, 1979



National Weather Summary

January 29 - February 4

HIGHLIGHTS: Cold air continued to move into all the Nation. Points in the central Plains averaged as much as 25 to 28 degrees colder than normal. Only New England showed above-normal readings, though most of the Eastern Seaboard neared normal. Incursions of cold air threatened both Texas's Rio Grande Valley and Florida, but these areas escaped significant damage.

A storm system off southern California moved inland bringing heavy rain with snow at high elevations. Elsewhere, a storm in the Gulf of Mexico spread rain from central Texas to Georgia. The northern sections of the Deep South were glazed by freezing rain. Only light snow dusted the western Lakes area allowing progress in digging out of previous heavy snows.

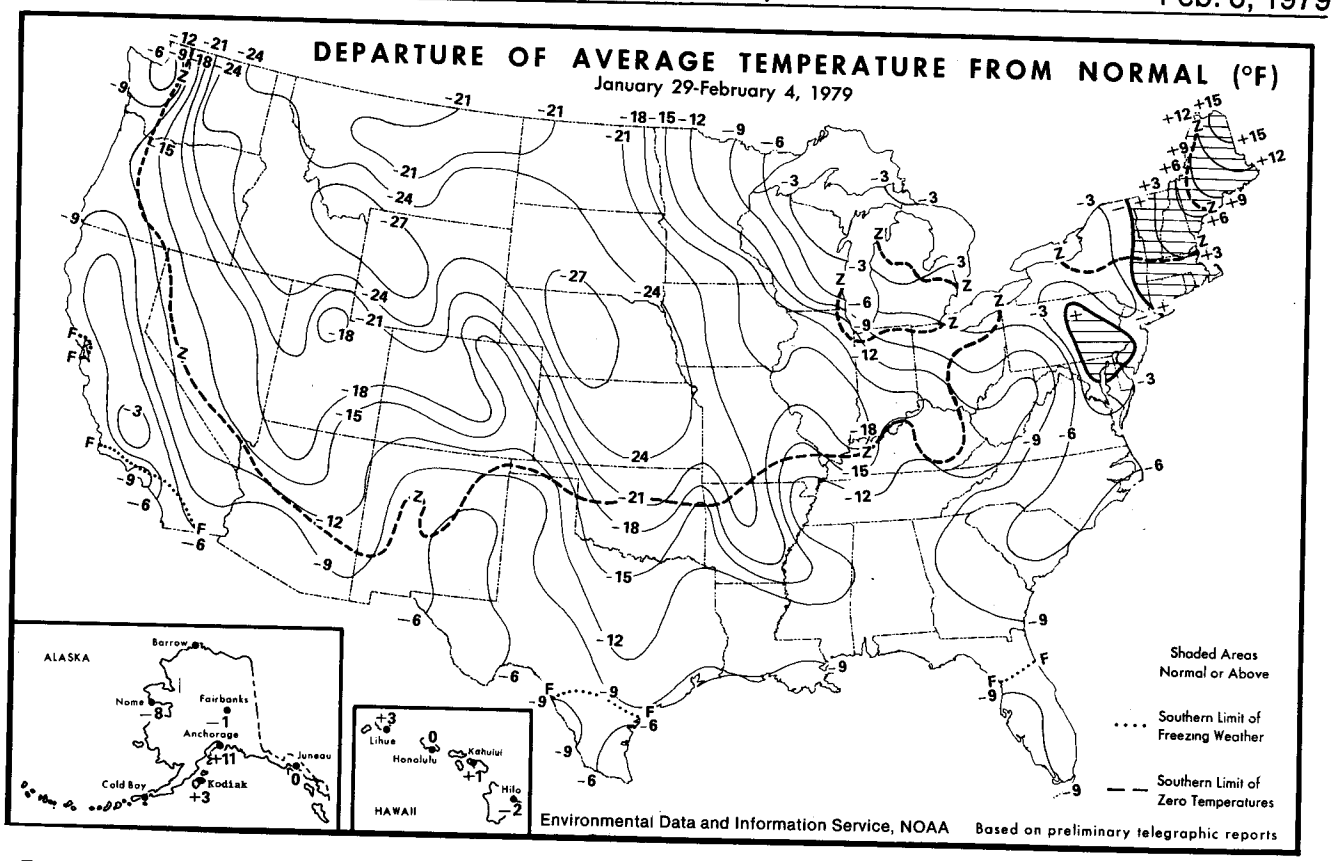
On Monday, a winter storm gained momentum over the Southwest spreading snow, freezing rain, and rain through the lower half of the Plains to Missouri by day's end. The heaviest snowfall blanketed western Kansas where Great Bend picked up 9 inches.

Bitter cold extended from the Plateau Region to the Mississippi Valley; Las Vegas, Nev., tied its record low reading of 17°.

While the storm system weakened over Arkansas on Tuesday, unsettled weather surged over the Gulf Coast and California.

Light snow persisted from the Mississippi Valley to the Ohio Valley, but rain became heavy in the Deep South. Points from Texas to Alabama received up to an inch; in northern Florida, Panama City collected more than an inch.

A cold front edged through California dumping rain along the coast and snow inland. Long Beach measured nearly 2 inches.



Temperatures continued cold in the Southwest; in Arizona, records showed -19° at Flagstaff and zero at Winslow.

Rain continued to roll into California on Wednesday; the storm totals reached nearly 4 inches at Long Beach, 1.77 in. at San Diego, and an inch and one-half at Los Angeles. To the east, snow dusted Needles and Blythe, while 2 inches hit Las Vegas.

Meantime, snow fell from New York State through New England; some stations reported nearly a half-foot. The additional snow at Portland, southeastern Maine, pushed the January mark to 62 inches---the heaviest monthly accumulation there ever.

An icy grip held the Nation's midsection. Records covered an area from the Rockies to Missouri. A sampling of record temperatures showed -25° at Lander, western Wyoming, Wichita's -9°, Oklahoma City's -1°, and -13° at St. Joseph, northwestern Missouri.

On Thursday, snow fell heaviest in the southern Rockies and along the northern Atlantic Coastal States. Chama, northern New Mexico, gathered 7 inches of snow; points from the Maryland mountains through New York State saw up to a half-foot.

Very cold air continued to frost the midlands and checked into Florida. Record readings included -12° at Kansas City, -7° at Tulsa, -14° at Springfield, southern Missouri, and 38° at West Palm Beach, eastern Florida. The -23° at Topeka became the coldest temperature there this century and was but 2 degrees above the 1889 coldest reading ever.

No major storms threatened the country on Friday, though light rain dampened portions of California and the Delta Region, while light snow whitened the northern parts of the Plateau Region and Rockies and New York State.

Another cold day hit west of the Plains and Florida. Casper, central Wyoming, plunged to a record low of -22°. West Palm Beach again opened the record book---this time to 37°.

This winter season has been particularly wet for Tucson. The Arizona city marked its second wettest January with 2.94 inches of moisture; Tucson also shivered under its second coldest December/January at an average temperature of 49°.

A frontal system over the eastern Gulf Coast spread rain from Texas to South Carolina on Saturday, however, totals stayed below an inch.

Snow fell lightly in the Appalachians, sections of the Ohio Valley, and the Northwest.

On Sunday, showers dotted the Gulf Coast from Texas to Georgia; up to three-quarters inch was reported. Light rain also moistened towns in Oregon with light snow in the Great Lakes Region. High winds and snow blew into the eastern slopes of the Rockies.

Extreme cold, but no records, stretched from the Rockies to the Mississippi Valley.

National Agricultural Summary

January 29 - February 4

HIGHLIGHTS: Biting cold assaulted farmers and livestock throughout the Nation. Low temperatures held field activity to a minimum; farmers spent most of their time caring for livestock and moving snow to keep farmsteads open for feed transport. Cold weather stressed livestock which required heavy amounts of feed to ward off the adverse weather. Most of the Nation reported very little precipitation, however, southern California and parts of Texas received heavy rains which slowed vegetable activity. Farmers prepared some land for spring planting and fertilized some pastures and small grains across the South. Many areas remained too wet for fieldwork. Small grains rated fair to good with snowcover protecting northern stands from the chilling temperatures and winds. Low temperatures kept growth to a minimum in the South. Southern pastures rated mostly fair providing only limited grazing because of the wet, cold conditions. Soil moisture rated adequate to surplus in unfrozen soils. The cotton harvest remained at a virtual standstill in the Southwest; farmers need only a short period of clear, dry weather to finish picking the crop.

SMALL GRAINS: Winter wheat rated fair to good with adequate snowcover throughout most of the northern Plains. In the South, winter wheat rated poor to mostly fair with low temperatures slowing growth. Southern Plains winter wheat stood virtually dormant but had adequate soil moisture for growth when warm temperatures return. Pacific Northwest winter wheat lay under a protective blanket of snow. Southwestern growers continued to plant late fields where conditions permitted. Earlier plantings grew well and were sprayed for weed control.

Kansas winter wheat lay mostly snow-covered; however, some unprotected stands may be damaged by low temperatures and winds. Winter wheat stands on the Texas High and Low Plains lay dormant but furnished limited grazing. Very little freeze damage was noted thus far. Stands from the Blacklands southward showed more damage from January freezes because these stands had more tender top growth. Moisture held adequate in most areas of Texas for good growth when weather warms, but parts of the Plains could use additional moisture. Winter wheat in Illinois rated good and snow-covered. Winter wheat in Montana and the Dakotas enjoyed ample snow protection and rated good. Washington and Oregon winter wheat also had a good snowcover. Arizona stands rated excellent. California growers continued planting although rains halted some seeding in locally wet areas. Weed control advanced in the Central Valley.

OTHER CROPS: The Texas cotton harvest resumed briefly in scattered localities of the High and Low Plains, but wet, cold weather quickly stalled progress. Picking continued to stand at 98% complete, compared with 100% for the previous year and average. Farmers could finish the harvest in a short time with favorable weather. Producers are ready to plant in the Lower Rio Grande Valley when favorable weather conditions return, but land preparation across much of the southern half of Texas remained incomplete because of the adverse weather. Scattered rains in Arizona again halted cotton picking. Warm, dry weather returned at the end of the week, and farmers should resume harvest if drying weather continues; quality and quantity of the remaining crop was questionable. The New Mexico cotton harvest neared completion. California cotton picking, shredding, and disking continued in the San Joaquin Valley for the 1978 crop while pre-irrigation activities began for the 1979 cotton crop.

Florida sugarcane harvest remained on schedule; the crop displayed good condition.

Tobacco plant beds were in good condition in southern areas. Tennessee tobacco growers prepared plant beds for seeding. Kentucky tobacco growers marketed 94% of the 1978 burley crop.

FRUITS AND NUTS: Deciduous fruit growers in southern areas and the Pacific Northwest pruned trees. Other areas of the Nation were too cold for much orchard activity. Washington Concord grapes appeared to survive the low temperatures in good condition.

Florida citrus trees showed excellent condition with moisture adequate to surplus. No freeze damage resulted from the February 2 low temperatures. Texas growers continued to harvest grapefruit and Valencias for fresh market. Arizona citrus harvests moved actively; fruit and trees showed further damage from freezing temperatures. California growers packed desert grapefruit and lemons. Internal and external quality of California Navels suffered from earlier freeze damage.

VEGETABLES: Florida vegetable crops rated fair to good. Harvests ran slow but steady due to adverse weather. Overall shipments increased 5% from the previous week. Cauliflower shipments advanced considerably while supplies of carrots, celery, sweet corn, cucumbers, peppers, and potatoes registered lesser increases. Other crops held steady or declined. Near-freezing temperatures and strong, cold winds caused some bloom drop, windburn, and fruit scarring in some areas with light replanting necessary. Supplies of Texas lettuce, cabbage, and carrots continued to move to market. Wet, cold weather delayed field preparation and seeding of most spring vegetable crops. Some earlier seeded fields were replanted because seed rotted before germinating. Arizona rains restricted lettuce harvests early in the week but resumed later in the week, although early morning icing delayed cutting. California rains delayed vegetable harvests in most areas. Artichoke and asparagus harvests were very light. Wet fields delayed potato and carrot digging. The lettuce harvest progressed in the Imperial Valley in spite of the strike. Tomato planting moved rapidly as weather permitted. First-picking strawberries sustained heavy freeze damage in southern California.

PASTURES AND LIVESTOCK: Northern pastures remained closed to grazing because of snowcover and subnormal temperatures. Feed and roughage supplies appeared adequate in northern areas although farmers kept busy clearing snow and hauling feed to livestock. Low temperatures stressed cattle and held weight gains to a minimum. Losses to the wintry weather ran about normal.

Pastures across the South rated mostly fair because low temperatures held growth to a minimum. Cold, damp weather was hard on newborn animals. Wet, cold, and cloudy weather deteriorated Texas rangelands. Most cattle showed some weight loss. California grasslands improved but need warmer temperatures for better growth; supplemental feeding decreased. Cold and snow stressed livestock throughout the Mountain States. Farmers supplied heavy rations of grains and roughage, but supplies appeared adequate for the duration of the winter.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Feb. 4, 1979

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	34	-11	.2	- 1.0
Mobile	41	-11	1.7	+ .7
Montgomery	39	-10	1.0	+ .1
ALASKA.Anchorage	16	+ 1	.7	+ .5
Barrow	--	--	--	--
Fairbanks	-19	-11	.5	+ .4
Juneau	25	0	.4	- .5
Kodiak	34	+ 3	.3	- .9
Nome	- 2	- 8	T	- .2
ARIZ.Flagstaff	12	-17	.9	+ .5
Phoenix	47	- 6	T	- .1
Tucson	44	- 8	.4	+ .3
Winslow	23	-13	T	- .1
Yuma	49	- 8	T	- .1
ARK.Fort Smith	20	-21	.1	- .6
Little Rock	28	-13	.6	- .5
CALIF.Bakersfield	49	- 1	.4	+ .1
Eureka	41	- 7	T	- 1.5
Fresno	45	- 3	.6	+ .2
Los Angeles	47	-10	3.3	+ 2.5
Red Bluff	44	- 4	.2	- .7
San Diego	53	- 3	3.0	+ 2.6
San Francisco	43	- 7	.3	- .6
Stockton	42	- 5	.1	- .5
COLO.Denver	13	-18	.1	0
Grand Junction	11	-19	.2	0
Pueblo	13	-19	.1	0
CONN.Bridgeport	32	+ 2	T	- .6
Hartford	26	+ 1	T	- .8
D.C.Washington	35	- 1	T	- .6
FLA.Apalachicola	44	-10	1.0	+ .2
Daytona Beach	49	-10	.2	- .4
Ft. Myers	56	- 8	T	- .4
Jacksonville	46	- 9	.4	- .4
Key West	64	- 7	.1	- .3
Lakeland	55	- 6	.1	- .5
Miami	57	-10	0	- .5
Orlando	51	-10	.1	- .5
Tallahassee	43	-10	1.1	+ .1
Tampa	52	- 9	.1	- .5
W.Palm Beach	55	-10	T	- .6
GA.Atlanta	35	- 8	.1	- .9
Augusta	40	- 7	.4	- .4
Macon	41	- 8	.7	- .2
Savannah	43	- 8	.4	- .2
HAWAII.Hilo	69	- 2	2.3	- .2
Honolulu	72	0	2.7	+ 1.9
Kahului	72	+ 1	2.0	+ 1.3
Lihue	74	+ 3	1.1	- .1
IDAHO.Boise	7	-25	.2	- .1
Lewiston	10	-24	T	- .3
Pocatello	0	-26	.3	+ .1
ILL.Cairo	22	-15	T	- .9
Chicago	12	-13	T	- .4
Moline	6	-17	T	- .3
Peoria	7	-18	.1	- .3
Rockford	8	-13	.1	- .3
Springfield	8	-20	.2	- .2
IND.Evansville	15	-19	T	- .8
Ft. Wayne	15	- 9	T	- .6
Indianapolis	14	-14	.4	- .2
South Bend	17	- 7	.2	- .3
IOWA.Burlington	8	-17	T	- .3
Des Moines	2	-19	T	- .2
Dubuque	3	-16	.1	- .2
Sioux City	- 5	-25	T	- .2
KANS.Concordia	4	-24	.1	- .1
Dodge City	10	-23	.3	+ .2
Goodland	9	-20	.3	+ .2
Topeka	6	-24	.1	- .1
Wichita	9	-24	.3	+ .1
KY.Lexington	20	-13	.1	- .7
Louisville	21	-13	.1	- .7
LA.Baton Rouge	41	-11	2.2	+ 1.1
Lake Charles	43	-10	2.7	+ 1.7
New Orleans	46	- 8	1.6	+ .5
Shreveport	38	-10	1.3	+ .4
MAINE.Caribou	28	+17	.8	+ .3
Portland	26	+ 5	1.0	+ .2
MD.Baltimore	33	0	T	- .6
MASS.Boston	31	+ 2	.2	- .6
Chatham	30	--	.3	--
MICH.Alpena	16	- 1	T	- .4
Detroit	20	- 5	.1	- .3
Flint	17	- 5	.2	- .2
Grand Rapids	20	- 3	.1	- .3
Houghton Lake	15	- 2	T	- .3
Lansing	17	- 5	.1	- .3
Marquette	10	- 2	.3	- .1
Muskegon	19	- 4	.1	- .4
S. Ste. Marie	11	- 3	.2	- .2
MINN.Duluth	3	- 6	.1	- .1
Internatl Falls	- 6	- 9	.1	- .1
Minneapolis	1	-12	.1	0
Rochester	- 4	-18	T	- .1
St. Cloud	- 4	-14	.1	- .1
MISS.Jackson	37	-11	1.5	+ .4
Meridian	36	-12	1.4	+ .4
MO.Columbia	12	-19	.2	- .2
Kansas City	7	-24	.2	- .1
St. Louis	16	-17	.2	- .3
Springfield	13	-21	.2	- .3
MONT.Billings	2	-22	.1	0
Glasgow	- 9	-20	.1	0
Great Falls	5	-18	T	- .2
Havre	- 8	-22	T	- .1
Helena	- 3	-24	T	- .1
Kalispell	0	-22	.3	0
Miles City	- 8	-26	.1	0
Missoula	3	-21	.2	0
NEBR.Grand Island	- 2	-26	.1	0
Lincoln	- 2	-26	.1	- .1
Norfolk	- 4	-25	T	- .1
N.Platte	- 4	-29	.2	+ .1
Omaha	- 2	-24	T	- .2
Valentine	- 5	-27	.1	0
NEV.Ely	8	-17	.1	0
Las Vegas	34	-12	.6	+ .5
Reno	25	-10	.2	0
Winnemucca	15	-16	.1	- .1
N.H.Concord	24	+ 3	.3	- .3
N.J.Atlantic City	30	- 3	.1	- .7
Trenton	32	0	T	- .6
N.MEX.Albuquerque	30	- 7	T	- .1
Roswell	36	- 4	T	- .1
N.Y.Albany	21	0	T	- .5
Binghamton	18	- 4	.3	- .3
Buffalo	19	- 4	1.0	+ .3
New York	30	- 2	0	- .7
Rochester	19	- 4	.7	+ .1
Syracuse	19	- 4	.6	- .1
N.C.Asheville	31	- 7	T	- .8
Charlotte	35	- 8	0	- .9
Greensboro	33	- 6	T	- .8
Hatteras	39	- 6	.3	- .7
Raleigh	37	- 4	.1	- .7
Wilmington	41	- 6	.1	- .7
N.DAK.Bismarck	-13	-23	T	- .1
Fargo	- 9	-16	T	- .1
Williston	-10	-20	T	- .1
OHIO.Akron-Canton	18	- 8	.3	- .3
Cincinnati	17	-15	.2	- .6
Cleveland	20	- 6	.2	- .4
Columbus	20	- 9	.1	- .5
Dayton	17	-12	.2	- .4
Toledo	19	- 6	.1	- .3
Youngstown	20	- 5	.2	- .4
OKLA.Okla. City	20	-19	T	- .3
Tulsa	16	-22	.3	- .1
OREG.Astoria	31	-11	1.9	- .2
Burns	10	-18	.1	- .3
Medford	31	- 8	T	- .7
Pendleton	12	-23	.2	- .1
Portland	30	-10	.6	- .6
Salem	29	-12	.1	- 1.3
PA.Allentown	29	+ 1	T	- .6
Erie	19	- 5	.2	- .3
Harrisburg	32	+ 1	T	- .6
Philadelphia	32	0	.1	- .5
Pittsburgh	19	- 9	.2	- .4
Scranton	22	- 4	T	- .5
R.I. Providence	29	+ 1	T	- .8
S.C. Charleston	43	- 6	.4	- .3
Columbia	42	- 4	.1	- .7
Greenville	37	- 6	T	- 1.0
S.D. Aberdeen	-11	-22	T	- .1
Huron	- 8	-22	T	- .1
Rapid City	1	-22	T	- .1
Sioux Falls	- 7	-23	T	- .2
TENN.Chattanooga	31	-10	.1	- 1.2
Knoxville	30	-11	.3	- .8
Memphis	31	-11	.3	- .9
Nashville	27	-12	.1	- 1.0
TEX.Abilene	36	- 9	.3	0
Amarillo	30	- 7	.T	- .1
Austin	39	-12	1.1	+ .4
Beaumont	45	- 8	1.8	+ .8
Brownsville	56	- 5	.3	- .1
Corpus Christi	52	- 5	1.0	+ .5
Del Rio	44	- 9	.6	+ .4
El Paso	39	- 7	T	- .1
Fort Worth	33	-13	.2	- .3
Galveston	47	- 8	1.0	+ .3
Houston	44	- 9	2.2	+ 1.3
Lubbock	32	- 8	T	- .1
Midland	38	- 7	T	- .1
San Angelo	40	- 8	1.2	+ 1.0
San Antonio	45	- 7	.9	+ .4
Victoria	46	- 9	1.0	+ .5
Waco	35	-13	.5	0
Wichita Falls	27	-16	.2	- .1
UTAH.Blanding	16	-14	.5	+ .2
Salt Lake City	14	-16	T	- .3
VT.Burlington	16	0	.7	+ .3
VA.Lynchburg	31	- 6	.1	- .5
Norfolk	35	- 5	.2	- .6
Richmond	34	- 4	T	- .7
Roanoke	30	- 7	.1	- .6
WASH.Colville	5	-22	.1	- .3
Omak	1	-24	T	- .3
Quillayute	33	- 7	1.6	- 1.6
Seattle-Tacoma	35	- 5	.2	- 1.0
Spokane	4	-24	T	- .5
Walla Walla	13	-23	.1	- .4
Yakima	7	-24	T	- .3
W.VA.Beckley	19	-13	.3	- .5
Charleston	23	-12	.4	- .4
Huntington	23	-12	.4	- .3
Parkersburg	24	- 9	T	- .7
WISC.Green Bay	12	- 3	T	- .2
La Crosse	6	-11	T	- .2
Madison	9	- 8	T	- .3
Milwaukee	16	- 4	T	- .3
WYO.Casper	2	-23	.1	0
Cheyenne	13	-15	.1	0
Lander	- 6	-28	T	- .1
Sheridan	- 3	-26	T	- .2
P.R.San Juan	78	+ 3	.3	- .4

Based on 1941-70 normals

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

Yearly subscription rate: $13.00 domestic and $18.00 foreign airmail. Order from the Agricultural Weather Facility, USDA South Building, Room 1248, Washington, D.C. 20250. Make checks payable to Department of Commerce, NOAA.

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 10° below normal; coldest midweek 18° below normal. Rain early in week, again over weekend. Totals under 0.50 in. north, 0.50 in. south.

Fieldwork: 2.2 days suitable. Soil moisture adequate. Limited outdoor activity. Plowing 23% complete. Fieldwork behind schedule. Pasture feed short, stored feed mostly adequate. Pastures poor condition. Wheat mostly fair. Livestock fair.

ARIZONA: Very cold; snow eastern two-thirds 29th, again near midweek. Precipitation amount variable. Temperatures 10 to 20° below normal north, 7° below south.

Intermittent rain again halting field activities. Warm, dry weekend. If drying continues farmers will resume cotton harvest; quality, quantity questionable. Small grains excellent growth, planting may resume. Sugarbeets central, west excellent progress. Alfalfa haying seasonally slow. New fields good progress; some slight freeze burn. Harvest lettuce, mixed vegetables restricted by rain. Harvest resumed late week, early morning cutting delayed, icing. Planting dry onions, watermelons, potatoes, early cantaloups delayed. Citrus harvest active. Fruit, trees further damage, freezing temperatures. Rain, freezing temperatures caused damage to rangeland. Water is surplus. Cattle, calves good condition. Wells, stock ponds freezing. Some supplemental feeding required.

ARKANSAS: Dry and very cold. Temperatures much below normal and precipitation generally light. Lowest normal temperature 38°; highest normal 47°. Lowest mean 21°; highest mean 36°. Lowest temperature -6°; highest 53°. Least amount of precipitation 0.04 in.; most 0.82 in.

Farm activity limited to feeding and caring for livestock. Supplemental feeding heavier than normal due to unusually low temperatures.

CALIFORNIA: First of period light precipitation. Early in period low pressure area developed on north coast and moved southward bringing unseasonable cold temperatures and moderate to heavy precipitation. Considerable amounts of snow fell down to the 1000 to 1500 foot elevations and light amounts reported below 1000 feet. Heaviest rainfall on 30th and 31st when up to 4.50 in. fell in 24 hour period in southern California. Light precipitation continued through end of period in south with snow in higher elevations.

Small grain planting continued Riverside County, Sacramento, San Joaquin Valleys. Planting halted Riverside County inclement weather. Central Coast, San Joaquin Valley good growth. Sacramento Valley average growth. Snow, rain delayed fieldwork south coast. Weed control active Riverside County, Sacramento, San Joaquin Valleys. Alfalfa hay being planted San Joaquin Valley. Gopher control active Sacramento Valley. Sugarbeet planting continued San Joaquin Valley. Cotton preirrigation continued San Joaquin Valley. Picking, shredding, disking continued San Joaquin Valley. Pruning deciduous trees and vineyards continued. Desert grapefruit and lemons packed. Freeze damage Navel oranges still evident internal and external quality. Almonds beginning swell slightly. Rains delayed harvest most areas. Damage from hail, frost, erosion, south coast. Artichoke, asparagus harvest very light. Digging carrots, potatoes delayed by wet fields. Lettuce harvest Imperial Valley active in spite strike. First picking strawberries very heavy frost damage Orange, Ventura Counties some damage San Diego. Tomato planting active as weather permits. Rangeland grass conditions improved. Warmer weather needed. Supplemental feeding decreasing; mud continues problem feedlots, dairies. Lambing nearly complete Sacramento Valley full swing north coast.

COLORADO: Very cold temperatures continued. Precipitation with greatest amounts over San Juan Mountains. Moderate snow fell over mountains and western slopes with light amounts over eastern plains. Weekend brought a change to drier and slightly milder conditions.

FLORIDA: Temperatures 8 to 12° below normal. Moderate precipitation northern sections, but light elsewhere.

Soil moisture mostly excessive west central, north, many Panhandle areas; mostly adequate south, central, lower east coast. Sugarcane harvest continued on schedule; crop in good condition. Fieldwork many areas limited by cold, wet soils. Small grains good condition but growth slow due to cold. Pasture condition continued poor Panhandle, north as cold temperatures limited forage growth, increased supplemental feeding. Elsewhere temperatures sufficient to promote some growth of forage; less frost, above normal rainfall also conducive to growth. Cattle, calves generally fair Panhandle, north; fair to good elsewhere. Citrus trees and groves excellent condition, moisture adequate to surplus in lowlands, very little new growth. No freeze or material frost damage from Feb. 2 cold temperatures. Vegetable crop condition fair to good, some crops very good. Harvest steady but slowed due to adverse weather. Overall shipments increased 5% from previous week. Cauliflower shipments up considerably; supplies carrots, celery, sweet corn, cucumbers, peppers, potatoes increased while snap beans, cabbage, chinese cabbage, eggplant, lettuce, okra, radishes held steady. Escarole, parsley, squash, strawberry, tomato shipments decreased. Quality, size, generally fair to good. Near freezing temperatures, strong, cold winds caused bloom droppage, windburn, fruit scarring some areas. Light replanting necessary. Planting continued active. Strawberry plants holding up well. Quality lowered slightly due to rains. Good second bloom. Spring watermelon crop coming up to fairly good stands most fields. Wind, frost damage light to moderate as some growers covered young plants. Condition fair to good.

GEORGIA: Temperatures ranged from average of 30° in some sections of north to mid and upper 40's south. Rainfall with heaviest amounts south. Extremes: 62 and 5°.

Soil moisture adequate to surplus. Cold, wet conditions continue to limit activities to feeding cattle, machinery and fence repair, and field preparation on high ground. Tobacco plants good condition. Small grains good condition southern areas, fair northern areas. Pastures mostly fair. Cattle fair to good.

HAWAII: Rains drenched parts of Island chain.

Leafy crops Oahu some damage. Slowed farm activities. Phytophthora disease more pronounced

papaya orchards Puna Island of Hawaii. Affected trees chopped. Heavy spray program maintained. Vegetable supplies light; quality continued down. Banana supplies light to moderate. Papaya supplies light. Pineapple harvesting slow. Sugar harvesting down. Pastures generally good.

IDAHO: Cold weather continued. Temperatures sharply below normal. Sub-zero readings common. Extremes: -34 and 31°. Precipitation below normal.

Weather conditions continued to hamper farm activities. Deep snow and cold temperatures putting stress on livestock. Feed supplies remain plentiful. Intensive care required where calving and lambing begun.

ILLINOIS: Temperatures 13 to 20° below normal. Precipitation very light, less than 0.10 in; light snow, less than 0.50 in. Snow depths 23 in. north, 1 in. south.

Winter wheat good condition, snow covered. Livestock generally good condition; cold and snow kept feed consumption heavy. Main farm activities livestock care, snow removal, general chores. Soil moisture mostly adequate to surplus.

INDIANA: Severe cold. Temperatures 15° below normal and ranged from -18 to 35°. No thawing temperatures in north or central. Precipitation 1 to 2 in. snow except more near Lake Michigan. Snow depth 4 in. south, 12 in. central, 20 in. near Lake Michigan. Sunshine 50% of possible.

Fieldwork nil. Snow removal, hauling manure, some grain moving, thawing water pipes, shopwork, caring for livestock and chores.

IOWA: Very cold with little or no new snow. Temperatures averaged 20 to 25° subnormal west and 16 to 20° subnormal east. Minima to -25° on 5th. Snow depths at weekend 10 in. southwest and 15 to 30 in. north.

KANSAS: Bitter, record breaking cold with temperatures averaging 5° central and north central to 14° southeast and 7 to 11° elsewhere, 20 to 30° below seasonal normal with many long-standing low temperature records broken. Snowfall averaged 2 to 4 in., some areas as much as 8 in. Water equivalents ranged less than 0.10 in. southwest, 0.40 to 0.50 in. locally along band of heavy snow.

Livestock stressed by bitter cold. Reduced weight gains, some losses in early lambing and calving. Feed supplies becoming short. Most wheat snowcovered. Unprotected wheat may be hurt.

KENTUCKY: Temperatures 10 to 15° below normal. Light precipitation as snow occurred near weekend and averaged less than inch.

Volume of burley sales light. About 94% of crop sold, many markets closing. Supplemental feeding of cattle heavy; feed supplies adequate most areas. Cold and damp weather hard on newborn livestock, but conditions less severe than last two winters.

LOUISIANA: Temperatures 8 to 11° below normal. Extremes: 71 and 16°. Most stations reported freezing temperatures on at least one day. General rains early and late week.

Activities: Care and feeding of livestock.

MARYLAND & DELAWARE: Temperatures 3° below normal. Highs averaged in low 40's and low temperature in upper 20's except in western Maryland where highs averaged in 20's and lows averaged in teens. Precipitation light with stations reporting 0.25 in. rainfall.

MICHIGAN: Temperature ranged from normal to 8° subnormal. Generally cold with temperatures ranging from 7 to 20°. Minimum temperatures ranged from -18 to around 6°. Maximum temperatures mainly in 20's. Precipitation ranged from 0.02 to 0.34 in.

Main farm activities included feeding livestock.

MINNESOTA: Temperatures 17° below normal west and south, 7° below normal northeast. Extremes: 25 and -30°. Precipitation 0.10 in. below normal. Precipitation totaled 0.01 to 0.14 in. Snowfall 1 in. Snow depth at weekend generally 15 to 21 in. except locally less than 15 in. part of west central and north western and up to 29 in. part north and extreme southeast.

MISSISSIPPI: Cold, wet. Extremes: 6 and 59°. Rainfall less than 0.50 in. north, 1.00 to 2.00 in. central and south.

Soil moisture excessive to adequate. Fieldwork: 0.3 days suitable. Feeding livestock and odd jobs main farm activity. Fields too wet to plow. Cold weather severely limiting growth of winter grazing. Hay, roughage, and feed grain supplies generally adequate to short. Livestock condition fair. Winter wheat poor to fair condition.

MISSOURI: Temperatures reached record lows, averaging 17° below normal. Below 0° temperatures common. Snow 1 to 3 in. early week, 1.00 in. 2d. Snow depths 1 to 3 in. southeast, 7 to 10 in. southwest and central. 10 to 17 in. north.

Winter wheat fair to good condition. Topsoil moisture supplies adequate to surplus. Supplies of hay and other roughages mostly adequate. Livestock losses due to unfavorable weather normal to moderate for both cattle and hogs. General condition of livestock mostly fair. Farm activities limited to livestock care and snow removal.

MONTANA: Very cold as temperatures averaged 20 to 25° below normal. Some moderation in temperatures at weekend. Precipitation generally light.

Winter wheat condition and snowcover good. Livestock on full feed, losses due to weather about normal. Calving activity starting on small operations.

NEBRASKA: Temperatures 20 to 25° below normal. Precipitation light, generally less than 0.10 in.

Winter wheat fair to good condition. Range and pasture supplies rated below average due to snowcover. Snowcover near 12 in. Severe cold slowing livestock gains. Care and feeding livestock difficult. Feed supplies north central tightening; heavy hay, forage and grain usage required.

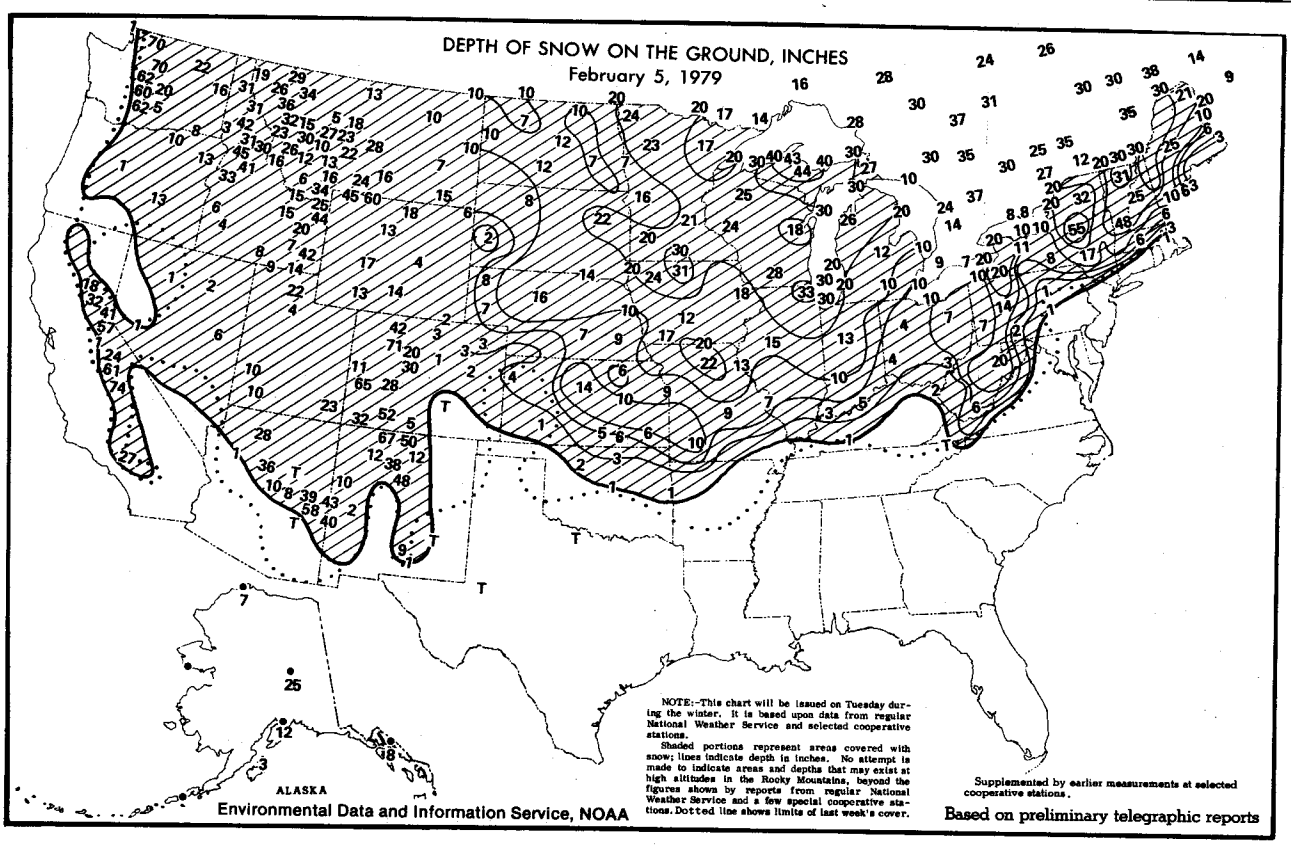
NEVADA: Cold unsettled weather. Heavy snow south, light central and north. Temperatures averaged 10 to 20° below normal. Extremes: 60 and -30°.

Livestock care major winter chore.

NEW ENGLAND: Rain 0.10 to 0.40 in. northern New England early week, less in south. Light snow or flurries over mountains and east coastal areas midweek. Minimums above freezing early week. Colder air returned by midweek.

NEW JERSEY: Temperatures 2° below normal averaging 28° north, 30° south, and 32° coastal. Extremes: 12 and 45°. Precipitation very light averaging trace north, 0.03 in. south, and 0.16 in coastal.

Farmers caring for livestock and tending to other winter chores.



NEW MEXICO: Rain and snow, generally light, early in week then again over weekend in southwest. Uniformly cold through week.

Outside work proceeded southern areas with cotton, pecan, and red chile harvest almost finished. Wheat and barley very good because of wet fall and winter, grazing active. Ranges and livestock fair. Heavy snow making supplemental feeding extremely difficult in northern areas.

NEW YORK: Intense storm remained stalled over Canadian Maritimes. Temperatures began well above normal and grew progressively colder. Light precipitation fell as snow over north and west, while little or no precipitation in southeast.

NORTH CAROLINA: Temperatures 5 to 10° subnormal. Precipitation light.

Fieldwork: 2.5 days suitable. Soil moisture adequate to surplus. Condition of small grains fair to good, pastures fair. Supplies of hay and roughage mostly adequate to surplus. Feed grains adequate.

NORTH DAKOTA: Temperatures 16 to 22° below normal. Extremes: 14 and -33°. Precipitation light. Trace amounts in south and less than 0.10 in. north.

Livestock care remains most urgent farm activity. Feed and water supplies adequate to surplus, and shrinkage of cattle mostly normal. Hay supplies generally accessible although winds made snow clearing a chronic job. Snow depth ranged from average of 25 in. southwest to 6 in. northeast and southeast, and sufficient to protect fall sown crops. Planning beginning for upcoming crop season with sunflower seed supplies tight in some areas.

OHIO: High temperatures ranged from 8 to 15° below seasonal normals and low temperatures averaged 7 to 12° below normal. Temperature extremes ranged from a high just above freezing along the West Virginia border to a low of -13° in south central. Precipitation below seasonal normals, but some snow recorded each day through week. Water equivalent totals ranged from over 0.50 in. to 0.04 in. Soil temperature ranged from mid-20's to near 30°, and under grass from upper 20's to mid-30's.

OKLAHOMA: Temperatures very cold ranging from 18 to 25° below normal in north to 10 to 17° below normal south. Precipitation as snow with water equivalent generally 0.10 in. or less.

Livestock in mostly fair condition. Producers have good access to herds. Hay supplies continue to dwindle rapidly.

OREGON: Temperatures well below seasonal normal. Temperatures ranged from 7 to 14° below normal except 20 to 26° below normal in northern section of east. Maximum temperatures ranged in 40's and lower 50's in west and from mid-20's to mid-30's east. Lows dipped into teens and lower 20's in west and ranged from 10 to -20° east. Precipitation light ranging from 0.40 to 0.70 in. along coast and 0.25 in. in Willamette Valley. Elsewhere 0.10 in. or less recorded.

Fieldwork very light. Some pruning. East still snowcovered. Onion and potato movement active. Livestock feeding still heavy, but supplies appear adequate. Some calving taking place now.

PENNSYLVANIA: Very cold and windy. Snow flurries north and west along with cold blustery northwest winds through 3d. Mostly cloudy with light snow and increasing winds again 4th. Temperatures from 6 to 10° below normal west and north to near 4° below normal southeast for one of coldest weeks of current winter. Extremes: 43 and -5°. Precipi-

tation 0.15 in. or less except scattered western areas where 0.25 in. in form of 3 to 5 in. new snow with light amounts almost daily. Snowcover end of period from 7 to 14 in. mostly western and northern areas decreasing to only traces southeast.

Normal winter chores.

PUERTO RICO: Island average rainfall 0.01 in. or 0.69 in. below normal. Temperatures averaged about 76° on coasts and 71° interior. Extremes: 95 and 45°.

SOUTH CAROLINA: Colder and drier than usual. Coldest temperatures during last half week with low readings in teens. Precipitation varied from light snow flurries northwest to light rain elsewhere.

Cold weather limiting most outside activities to care and maintenance of livestock. Some fruit tree pruning, lime and fertilizer application and early land preparation on warmer days.

SOUTH DAKOTA: Temperatures extremely cold for sixth consecutive week, 20 to 25° below normal. Extremes: -30 and 26°. Precipitation light, 0.50 in. or less except Southwest where 0.10 in. received.

TENNESSEE: Temperatures 11° below normal. Extremes: 2 and 42°. Rain, sleet, and snow weekend. Precipitation 1.00 in. below normal.

Soil moisture surplus. Pastures and small grains fair. Cattle good condition. Some tobacco plantbed preparation. General chores and care of livestock main activities.

TEXAS: Snow, freezing rain, sleet northwest, north early week. Later, front resulted cloudy skies rain drizzle north, south Texas with warming trend west Texas. By weekend, storm moved toward west Texas bringing rain west, north Texas, rainfall above normal southwest, north Texas, Edwards Plateau, far south Texas, rainfall below normal over Panhandle. Temperatures below normal 5 to 7° southwest, north central, northeast Texas, 9 to 11° below normal over remainder State.

Wheat, oats continue dormant stage over northern, western areas; grazing restricted. Moisture generally adequate to promote recovery when weather warms up except parts northern High Plains. Cotton harvest resumed briefly scattered localities High, Low Plains but quickly stalled by cold, wet weather. Cotton 98% harvested, 100% last year and average. Counties in Low Plains, Edwards Plateau and Trans-Pecos far behind schedule but could finish harvest with just short period favorable harvest weather. Farmers ready to plant in Lower Rio Grande Valley when weather conditions permit, but land preparation much of southern half State still incomplete because delays caused by cold, wet weather. Wheat stands High, Low Plains remain mostly dormant stage furnishing limited grazing. Freeze damage light with little actual losses noted. Stands from Blacklands southward show more damage from January freezes since most stands had more tender top growth. Moisture adequate for recovery when weather warms up, but parts High Plains could use additional moisture. Oat stands showing signs recovery from moderate to heavy January freeze damage Cross-Timbers, Blacklands, east south central. Moisture adequate, but cold weather kept growth rates below average. South Texas, Coastal Bend, Upper Gulf Coast growth rates about normal but most fields too wet to graze. Flax stands that survived January's record freezes showing some growth.

Harvest grapefruit and Valencia orange fresh market continued strong. Supplies lettuce, cabbage and carrots continued to market. Onions and young lettuce progressing well. Cantaloup planting continued. Coastal Bend continued wet weather delayed watermelon planting; some early fields replanted because seed has been rotting. Harvest spinach delayed by wet weather. San Antonio-Winter Garden wet weather delayed land preparation most vegetables, planting of spring potatoes continued where weather permitted. Cabbage, spinach, carrot harvest continued. East Texas wet weather and cool soil temperatures delaying land preparation and planting spring vegetables. Trans-Pecos carrot harvest remained active.

Range and pastures continued deteriorate due to wet, overcast conditions. Central Texas, small grain pastures furnishing little grazing, some areas livestock moved off wet pastures. Hay supplies continued short in north, central and east Texas. Producers increased hay and supplemental feeding. Cattle fair condition Panhandle, north and central Texas; shrinkage and loss of condition continuing problem Edwards Plateau. Lambing full swing; goat shearing underway.

UTAH: Recurring snow; accumulations generally light to moderate but locally heavy few localities south. Temperatures 13 and 24° below normal.

Stockmen in south hauling feed to livestock in hard to get places because of excessive snow and extremely low temperatures. Marketing, sorting and grading apples, potatoes and onions continued.

VIRGINIA: Temperatures below normal. Extremes: 53 and 8°. Precipitation light occurring as mostly snow at beginning and again at end of period.

Topsoil moisture adequate to surplus. Fieldwork: 1.1 days suitable. Winter grains, grazing mostly good condition; winterkill noted north and central areas. Spreading lime, fertilizer central and eastern sections including topdressing small grains. Wet, frozen ground preventing most fieldwork. Newborn survival rate above usual most areas but severe cold causing some losses calves north and some pigs central and southeast areas.

WASHINGTON: West: Temperatures 7 to 13° below normal. Precipitation below normal.

Livestock consuming large quantities of hay.

East: Temperatures 22° below normal. Precipitation 0.30 in. below normal.

Snow protection grain crops. Concord grapes not damaged. Weather slowed orchard pruning. Livestock under stress from cold weather. Freezing temperatures causing water supply problems. Adequate hay supplies.

WEST VIRGINIA: Temperatures near normal northeast. well below normal elsewhere. Extremes: 34 and -10°. Precipitation below normal. Snow coverage up to 12 in. upper elevations.

Fieldwork: 0.5 days suitable. Soil moisture adequate to surplus. Hay, grain and other feed supplies adequate. Increased hay consumption.

WISCONSIN: Temperatures below normal. Week began with highs in 20's but ended in single digits as cold air moved in 4th. Low temperatures below zero 1st, 3d, and 4th. Precipitation light with only flurries or light snow, generally less than 1.00 in. Snowcover exceeds 20 in. with greatest depths south.

Feed supplies adequate. Livestock in good condition.

WYOMING: Temperatures well below normal. Departures 18 to 33° subnormal. Highs ranged from low to mid-30's to 10°. Minimum temperatures dropped to

-40° in Green and Bear Drainage areas. Precipitation below normal.

Continuous cold weather and snowcover placing heavy stress on livestock and making it difficult to feed. Abortions expected to be high due to weather stress and below normal feed. Winter wheat fair to good, snow covered. Some winterkill expected southeast.

World Weather and Crop Update

January 29 - February 4

USSR. Variable precipitation totals of 5 to 20 mm in the Ukraine continued last week's trend of slightly above-normal amounts. The most notable feature was the warm weather which continued throughout the week and left the southern half of the Ukraine without snowcover (fig. 1). Temperatures in the Crimea and along the Black Sea coast of the North Caucasus soared high enough for wheat to break dormancy in some locations. These localized areas would suffer severe winterkill with a return to cold conditions. Snowfall in most northerly agricultural areas continued above normal for the second consecutive week, further improving the moisture outlook for spring planting.

CHINA. Above-normal rainfall continued in southeastern China. South of the Yangtze River, totals ranged from 15 to 60 mm, improving the outlook for spring planting. Precipitation in the wheat belt remained normal with amounts generally less than 10 mm; temperatures warmed somewhat to slightly above normal.

AUSTRALIA. Dry weather continued for the second consecutive week in southeastern crop areas increasing stress on corn and sorghum. Generally normal rains fell in the northern and northeastern parts of the country.

INDIA. The persistent rainfall area in central India shifted to the east, and amounts diminished to 10 to 20 mm. The southern Peninsula remained rainless for the third consecutive week---the northeast monsoon having terminated several weeks early. Mountain areas in the north stayed without precipitation for the second consecutive week after one week of abundant precipitation, but moisture supplies appeared adequate.

AFRICA. Conditions remained favorable for winter grain crops in northwestern Africa. Rainfall in Tunisia increased to near 20 mm, and Morocco continued with above-normal amounts of up to 60 mm. Rainfall in Algeria dropped to about 5 mm, but soil moisture remained adequate. In South Africa's Maize Triangle, above-normal rainfall amounts of 20 to 45 mm fell in north central portions. Lighter amounts of 10 to 20 mm fell in southwestern and southeastern portions, but perhaps a quarter of the triangle received no rainfall for the second consecutive week. Aside from those latter areas, moisture seemed to be adequate since the abundant rains of three weeks ago.

EUROPE. Last week the precipitation pattern over Europe was generally normal. Rainfall along the east coast of Spain and southern coast of France dropped to 5 mm, but inland areas received normal amounts. Above-normal precipitation of 30 to 70 mm covered an extensive area in parts of Yugoslavia, Hungary, and southern Czechoslovakia. Below-normal totals of less than 5 mm fell in parts of Romania and Bulgaria, but considering precipitation over the past several weeks, conditions everywhere in Europe appeared favorable for winter grains.

SOUTH AMERICA. No rain fell in Rio Grande do Sul. Reports have varied, but totals since the first of the year have been only 12 to 25 percent of normal (fig. 2), and soybean yields continue to decrease. In Parana, only the extreme northeastern portion of the growing area received 20 mm, but the abundant rain of last week should be sufficient for another week. In Argentina, only a few millimeters of rain fell in the corn and soybean belt. However, the crop should be in good condition because of adequate rains the previous week.

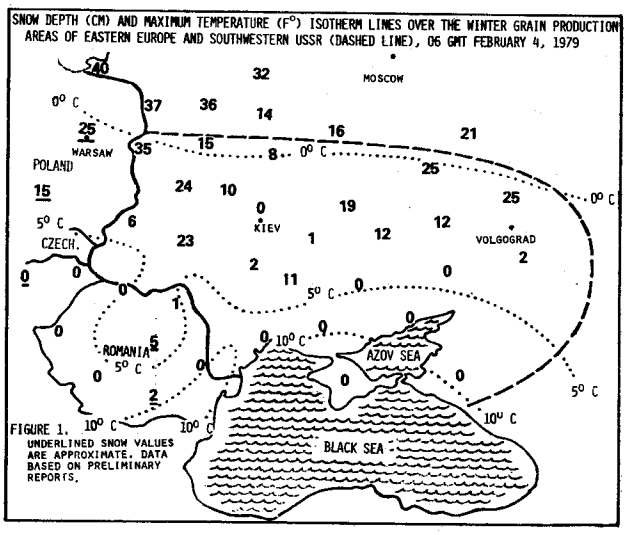


FIGURE 1. UNDERLINED SNOW VALUES ARE APPROXIMATE. DATA BASED ON PRELIMINARY REPORTS.

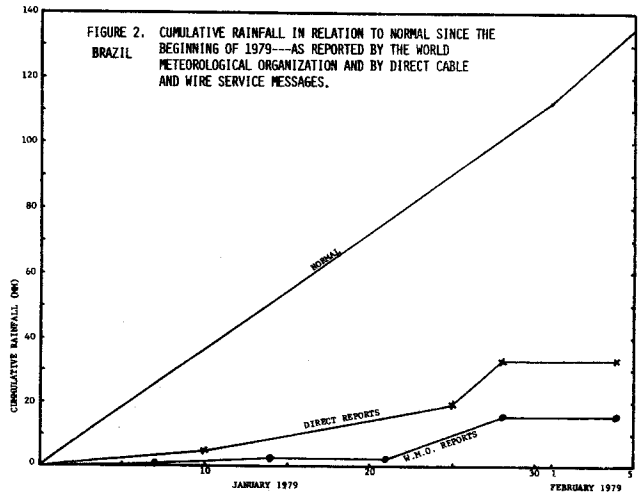
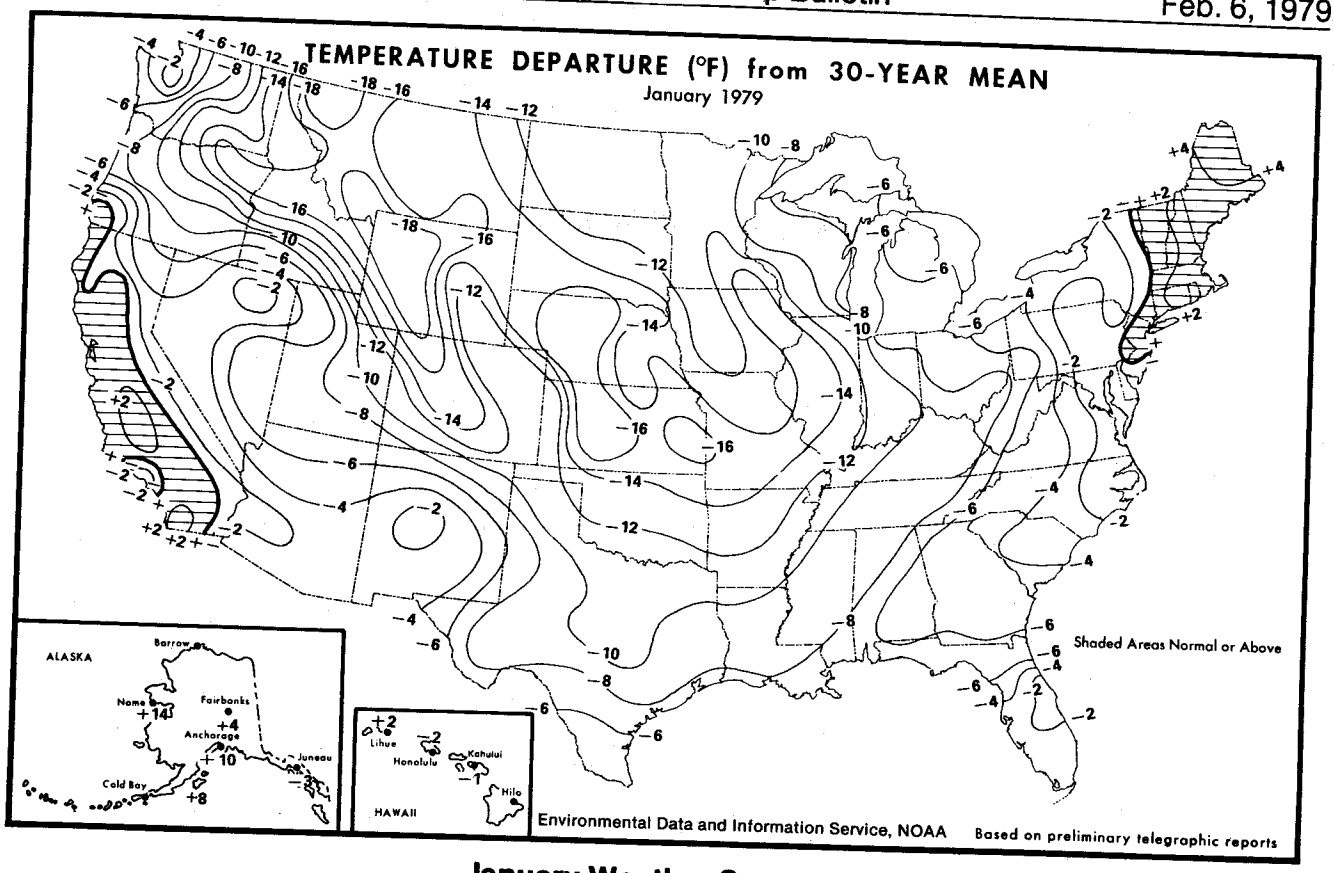


FIGURE 2. BRAZIL CUMULATIVE RAINFALL IN RELATION TO NORMAL SINCE THE BEGINNING OF 1979---AS REPORTED BY THE WORLD METEOROLOGICAL ORGANIZATION AND BY DIRECT CABLE AND WIRE SERVICE MESSAGES.



January Weather Summary

HIGHLIGHTS: Most of the Nation showed above-normal precipitation in January. Many stations in the western Great Lakes area noted record amounts of snowfall. Exceptions to the above-normal precipitation included most of the Pacific Northwest where only 40 to 60 percent of normal fell, and across the northern tier of States along the Canadian border west of the Lakes. New England received well above normal; in the eastern portions of the region, rain caused some flooding. Southwest Texas saw drier than normal weather.

January stood as a quite cold month as many stations broke records for the coldest first month. From the northern Rockies to the central Plains, monthly averages dipped 13 to 16 degrees colder than normal.

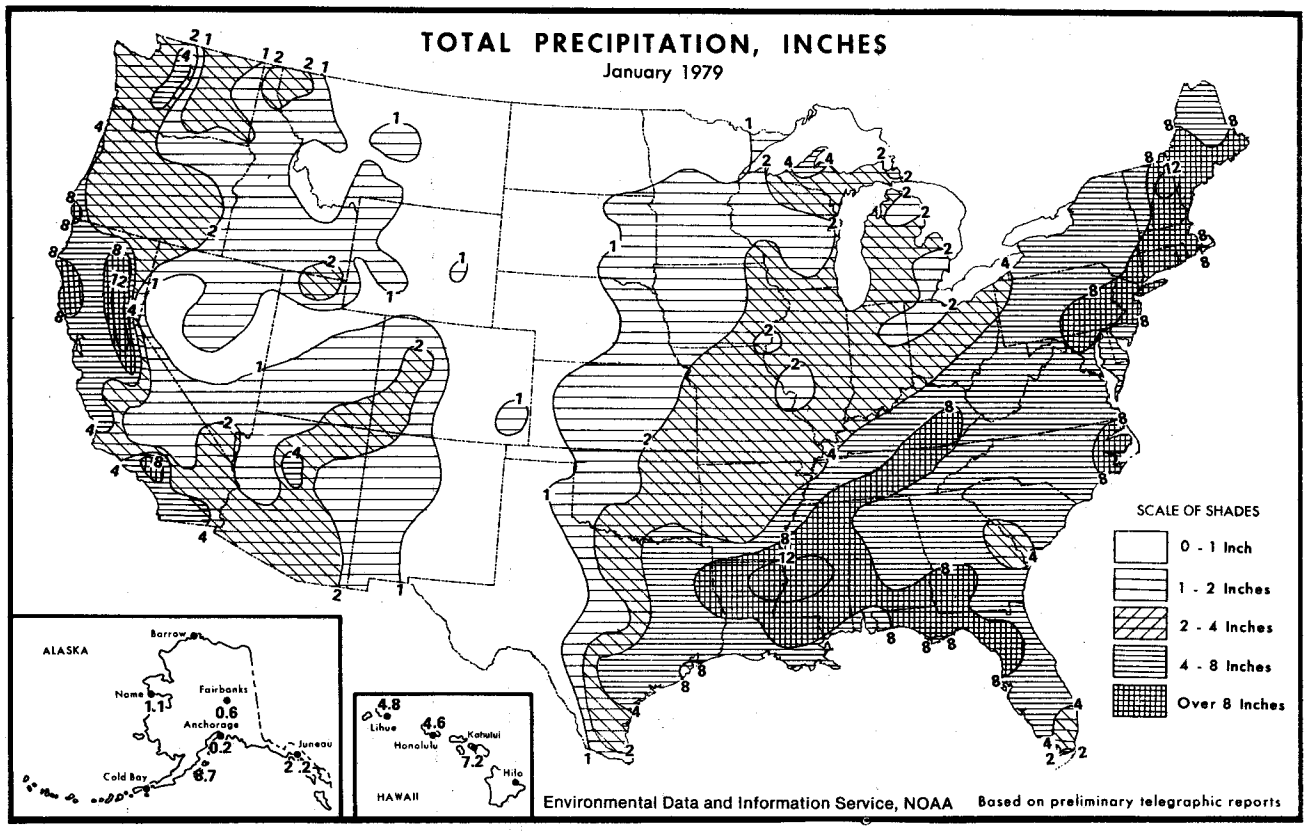
During the first week of January, very cold air plunged into the western U.S. While low temperature records fell in the Plains, new record highs were set in the East. At the onset of the cold weather, vegetable harvest was delayed in California, but no damage was noted. As the cold air moved eastward, the South Texas vegetable and citrus area was not so fortunate. A moderate freeze inflicted considerable damage on the second and third days of January. Moving rapidly eastward, the cold air nipped parts of Florida, but only slight damage to tender foliage was reported. Rain or snow preceded the eastward moving cold air and became heaviest from East Texas to southern New England. Late in the week, heavy rain fell in southern California where the Los Angeles area measured more than four inches.

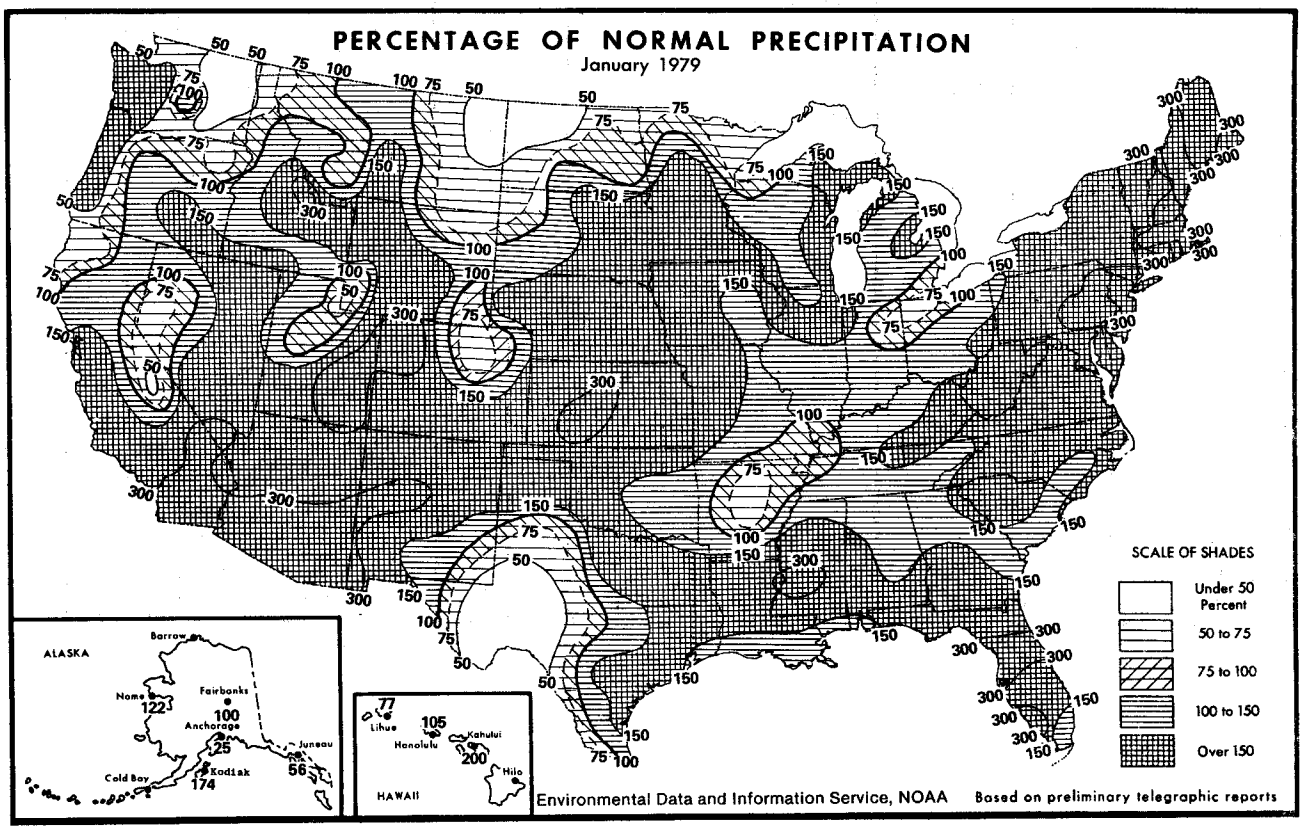
The drier-than-normal Pacific Northwest picked up 1 to 2 inches of precipitation during the second week of January. The rain (snow at higher elevations) extended southward well into California and southern Plateau. Elsewhere, a storm system formed in Missouri and moved northeastward spreading snow to its north and west and rain to the east. An additional 6 inches of snow fell on the hard-hit Chicago area. Cold weather continued to dominate most of the Nation, but warming began in the West and southern Florida.

The Pacific storm affecting the Northwest moved southward along the California Coast and then into the Southwest during January's third week. Light to moderate rain or snow accompanied the storm. A minor disturbance added another couple of inches of snow to the southwestern Great Lakes area. A third system wound up in the lower Mississippi Valley and spread heavy rain in the South and freezing rain and then snow from the mid-Atlantic States northward. Colder-than-normal weather---but not as cold as the previous two weeks---persisted in the northern States and most of the Southeast. Warmer-than-normal temperatures spread from California into Alabama.

The last full week of January (Jan. 22-28) brought a return of the very cold weather to nearly all the U.S. Cold air plunged southward to the West and moved eastward. A low pressure system off the coast of Newfoundland---with its counter-clockwise circulation---brought warmer air into the Northeast making that area the only part of the Nation where the temperatures averaged above normal. Nearly all parts of the U.S. received some precipitation, but most occurred in the South and the Northeast. Heavy rain in some New England areas caused local flooding. Thunderstorms rumbled over the South as the cold air encountered the warmer moist air. Nearly an inch of precipitation fell in Arizona, and another six or more inches of snow plagued the western Lakes area.

During the last three days of January, the cold air displaced the warmer air in the Lakes area and most of the Northeast. Only New England remained warmer than normal. Moisture from the Gulf spread northward into Texas and light snow fell from the central Plains to the Lakes.


TOTAL PRECIPITATION, INCHES
January 1979
SCALE OF SHADES
0 - 1 Inch
1 - 2 Inches
2 - 4 Inches
4 - 8 Inches
Over 8 Inches
ALASKA
Barrow
Nome 1.1
Fairbanks 0.6
Anchorage 0.2
Juneau 2.2
Cold Bay 8.7
HAWAII
Lihue 4.8
Honolulu 4.6
Kahului 7.2
Hilo
Environmental Data and Information Service, NOAA
Based on preliminary telegraphic reports


PERCENTAGE OF NORMAL PRECIPITATION
January 1979
SCALE OF SHADES
Under 50 Percent
50 to 75
75 to 100
100 to 150
Over 150
ALASKA
Barrow
Nome 122
Fairbanks 100
Anchorage 25
Juneau 56
Cold Bay 174
Kodiak
HAWAII
Lihue 77
Honolulu 105
Kahului 200
Hilo
Environmental Data and Information Service, NOAA
Based on preliminary telegraphic reports

Temperature and Precipitation Data for January 1979

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	38	- 6	5.9	+ 1.1
Mobile	45	- 6	5.1	+ .4
Montgomery	43	- 5	5.7	+ 1.7
ALASKA.Anchorage	22	+10	.2	- .6
Barrow	--	--	--	--
Fairbanks	- 8	+ 4	.6	0
Juneau	21	- 3	2.2	- 1.7
Kodiak	38	+ 8	8.7	+ 3.7
Nome	20	+14	1.1	+ .2
ARIZ.Flagstaff	23	- 5	5.5	+ 3.6
Phoenix	50	- 1	2.2	+ 1.5
Tucson	48	- 3	2.9	+ 2.1
Winslow	29	- 4	1.0	+ .6
Yuma	52	- 3	2.1	+ 1.7
ARK.Fort Smith	26	-13	2.7	+ .3
Little Rock	28	-12	2.6	- 1.6
CALIF.Bakersfield	52	+ 4	1.8	+ .8
Eureka	47	0	3.8	- 3.6
Fresno	47	+ 2	2.7	+ .9
Los Angeles	53	- 4	6.6	+ 3.6
Red Bluff	47	+ 2	5.2	+ .7
San Diego	57	+ 2	5.8	+ 3.9
San Francisco	48	0	6.6	+ 2.2
Stockton	45	0	4.3	+ 1.4
COLO.Denver	18	-12	.3	- .3
Grand Junction	17	-10	1.4	+ .8
Pueblo	16	-14	.6	+ .3
CONN.Bridgeport	31	+ 1	11.2	+ 8.5
Hartford	27	+ 2	9.1	+ 5.8
D.C.Washington	35	- 1	6.6	+ 4.0
FLA.Apalachicola	48	- 6	6.9	+ 3.8
Daytona Beach	57	- 1	7.1	+ 5.0
Ft. Myers	62	- 2	7.5	+ 5.9
Jacksonville	48	- 7	6.3	+ 3.5
Key West	69	- 2	1.7	0
Lakeland	--	--	--	--
Miami	65	- 2	2.4	+ .2
Orlando	58	- 2	6.5	+ 4.2
Tallahassee	46	- 7	10.5	+ 6.8
Tampa	58	- 2	5.7	+ 3.4
W.Palm Beach	63	- 3	3.1	+ .5
GA.Atlanta	37	- 5	5.0	+ .7
Augusta	41	- 5	3.4	0
Macon	43	- 5	5.7	+ 2.0
Savannah	45	- 5	4.0	+ 1.1
HAWAII.Hilo	--	--	--	--
Honolulu	70	- 2	4.6	+ .2
Kahului	71	- 1	7.2	+ 3.6
Lihue	73	+ 2	4.8	- 1.4
IDAHO.Boise	16	-13	1.9	+ .4
Lewiston	17	-14	1.0	- .3
Pocatello	11	-12	1.1	0
ILL.Cairo	25	-11	3.4	- .6
Chicago	13	-11	3.0	+ 1.1
Moline	6	-16	2.7	+ 1.0
Peoria	9	-15	2.5	+ .7
Rockford	8	-12	2.4	+ .6
Springfield	12	-15	1.9	+ .1
IND.Evansville	21	-12	3.6	+ .2
Ft. Wayne	17	- 8	1.6	- .9
Indianapolis	18	-10	3.3	+ .4
South Bend	18	- 6	3.2	+ .8
IOWA.Burlington	10	-13	1.8	+ .2
Des Moines	8	-11	1.7	+ .6
Dubuque	5	-13	2.6	+ .9
Sioux City	4	-14	1.1	+ .4
KANS.Concordia	13	-13	1.1	+ .4
Dodge City	15	-16	1.5	+ 1.0
Goodland	18	-10	.9	+ .5
Topeka	12	-16	1.8	+ .8
Wichita	17	-14	1.6	+ .7
KY.Lexington	24	- 9	4.1	+ .1
Louisville	25	- 8	3.8	+ .3
LA.Baton Rouge	43	- 7	6.3	+ 1.9
Lake Charles	44	- 8	4.8	+ .8
New Orleans	46	- 7	5.6	+ 1.1
Shreveport	37	-10	9.2	+ 5.2
MAINE.Caribou	16	+ 5	4.5	+ 2.5
Portland	24	+ 2	11.9	+ 8.5
MD.Baltimore	33	0	7.8	+ 4.9
MASS.Boston	33	+ 4	10.6	+ 6.9
Chatham	33	--	6.6	--
MICH.Alpena	14	- 4	1.8	+ .1
Detroit	19	- 6	1.5	- .3
Flint	16	- 6	1.8	+ .1
Grand Rapids	17	- 6	2.1	+ .2
Houghton Lake	12	- 5	1.5	0
Lansing	16	- 7	2.1	+ .2
Marquette	--	--	--	--
Muskegon	17	- 7	2.8	+ .5
S. Ste. Marie	9	- 5	1.9	0
MINN.Duluth	1	- 8	.8	- .4
Internatl Falls	- 9	-11	.5	- .4
Minneapolis	3	- 9	1.1	+ .4
Rochester	- 2	-15	1.3	+ .6
St. Cloud	- 3	-12	1.3	+ .5
MISS.Jackson	38	- 9	14.1	+ 9.7
Meridian	38	- 9	8.7	+ 4.4
MO.Columbia	16	-13	2.4	+ .7
Kansas City	13	-14	2.4	+ 1.1
St. Louis	17	-14	2.0	+ .1
Springfield	18	-15	2.4	+ .7
MONT.Billings	8	-14	.7	0
Glasgow	- 5	-14	.2	- .2
Great Falls	7	-14	.7	- .2
Havre	- 3	-15	.5	0
Helena	1	-17	.8	+ .2
Kalispell	0	-19	1.4	- .1
Miles City	0	-15	.3	- .2
Missoula	6	-15	1.3	+ .1
NEBR.Grand Island	8	-14	.8	+ .3
Lincoln	7	-15	1.1	+ .5
Norfolk	6	-13	1.1	+ .5
N.Platte	6	-17	.9	+ .4
Omaha	8	-12	1.2	+ .5
Valentine	4	-16	.8	+ .5
NEV.Ely	17	- 7	.9	+ .3
Las Vegas	41	- 3	2.2	+ 1.7
Reno	29	- 3	.7	- .5
Winnemucca	25	- 3	.9	- .1
N.H.Concord	23	+ 2	8.1	+ 5.4
N.J.Atlantic City	32	- 1	7.1	+ 3.5
Trenton	32	0	9.0	+ 6.2
N.MEX.Albuquerque	33	- 2	1.1	+ .8
Roswell	35	- 3	.4	0
N.Y.Albany	22	0	6.4	+ 4.2
Binghamton	21	- 1	6.4	+ 4.1
Buffalo	21	- 3	5.4	+ 2.5
New York	32	0	8.7	+ 5.8
Rochester	22	- 2	4.2	+ 1.9
Syracuse	22	- 2	4.7	+ 2.0
N.C.Asheville	34	- 4	6.8	+ 3.4
Charlotte	37	- 5	5.3	+ 1.8
Greensboro	35	- 4	5.9	+ 2.7
Hatteras	45	0	9.7	+ 5.4
Raleigh	39	- 2	5.7	+ 2.5
Wilmington	44	- 2	6.2	+ 3.0
N.DAK.Bismarck	- 2	-10	.5	0
Fargo	- 4	-10	.4	- .1
Williston	- 2	-10	.1	- .5
OHIO.Akron-Canton	20	- 6	3.2	+ .5
Cincinnati	21	-10	3.7	+ .4
Cleveland	22	- 5	2.6	0
Columbus	21	- 7	3.3	+ .4
Dayton	21	- 7	3.3	+ .5
Toledo	18	- 7	1.2	- .9
Youngstown	21	- 5	3.0	+ .1
OKLA.Okla. City	25	-12	1.6	+ .5
Tulsa	23	-14	2.1	+ .7
OREG.Astoria	35	- 6	3.8	- 5.9
Burns	16	- 9	3.0	+ 1.2
Medford	36	- 1	2.8	- .7
Pendleton	15	-17	1.4	- .2
Portland	31	- 7	2.6	- 3.3
Salem	31	- 8	2.8	- 4.1
PA.Allentown	28	0	8.4	+ 5.4
Erie	20	- 5	3.5	+ 1.0
Harrisburg	29	- 1	8.0	+ 5.4
Philadelphia	33	+ 1	8.7	+ 5.9
Pittsburgh	21	- 7	4.8	+ 2.0
Scranton	24	- 3	6.5	+ 4.4
R.I. Providence	30	+ 2	11.7	+ 8.2
S.C. Charleston	45	- 4	3.4	+ .5
Columbia	43	- 2	5.9	+ 2.5
Greenville	37	- 5	7.2	+ 3.1
S.D. Aberdeen	- 1	-11	1.0	+ .5
Huron	0	-13	.8	+ .4
Rapid City	7	-15	.5	0
Sioux Falls	2	-12	1.1	+ .5
TENN.Chattanooga	34	- 6	5.4	0
Knoxville	33	- 8	6.2	+ 1.5
Memphis	31	-10	6.0	+ 1.1
Nashville	30	- 8	7.1	+ 2.3
TEX.Abilene	36	- 8	.7	- .3
Amarillo	25	-11	.9	+ .4
Austin	40	-10	2.1	+ .2
Beaumont	46	- 6	5.4	+ 1.3
Brownsville	56	- 4	1.4	0
Corpus Christi	51	- 5	3.9	+ 2.3
Del Rio	44	- 7	.3	- .3
El Paso	41	- 3	.8	+ .4
Fort Worth	35	-10	3.4	+ 1.6
Galveston	47	- 7	3.5	+ .5
Houston	44	- 8	6.3	+ 2.7
Lubbock	32	- 7	.3	- .3
Midland	36	- 8	.2	- .4
San Angelo	36	-10	.2	- .6
San Antonio	44	- 7	4.1	+ 2.4
Victoria	46	- 8	5.2	+ 3.4
Waco	36	-11	2.0	+ .1
Wichita Falls	31	-11	2.0	+ .9
UTAH.Blanding	21	- 7	3.4	+ 2.3
Salt Lake City	22	- 6	.7	- .6
VT.Burlington	18	+ 1	4.5	+ 2.8
VA.Lynchburg	32	- 5	6.7	+ 3.9
Norfolk	40	- 1	6.5	+ 3.1
Richmond	36	- 2	6.2	+ 3.3
Roanoke	31	- 5	5.3	+ 2.6
WASH.Colville	12	-12	1.0	- 1.1
Omak	13	- 8	.4	- .8
Quillayute	35	- 4	3.6	-11.0
Seattle-Tacoma	37	- 1	2.3	- 3.5
Spokane	10	-15	1.1	- 1.4
Walla Walla	19	-14	1.5	- .6
Yakima	15	-13	.9	- .4
W.VA.Beckley	26	- 5	5.3	+ 1.8
Charleston	28	- 7	6.5	+ 3.1
Huntington	26	- 8	5.3	+ 2.1
Parkersburg	25	- 8	4.1	+ 1.0
WISC.Green Bay	6	- 9	1.8	+ .7
La Crosse	- 6	-10	2.3	+ 1.3
Madison	7	-10	1.7	+ .4
Milwaukee	12	- 7	3.0	+ 1.4
WYO.Casper	11	-12	.8	+ .3
Cheyenne	17	-10	.3	- .2
Lander	1	-19	.8	+ .3
Sheridan	3	-18	.5	- .2
P.R.San Juan	--	--	--	--

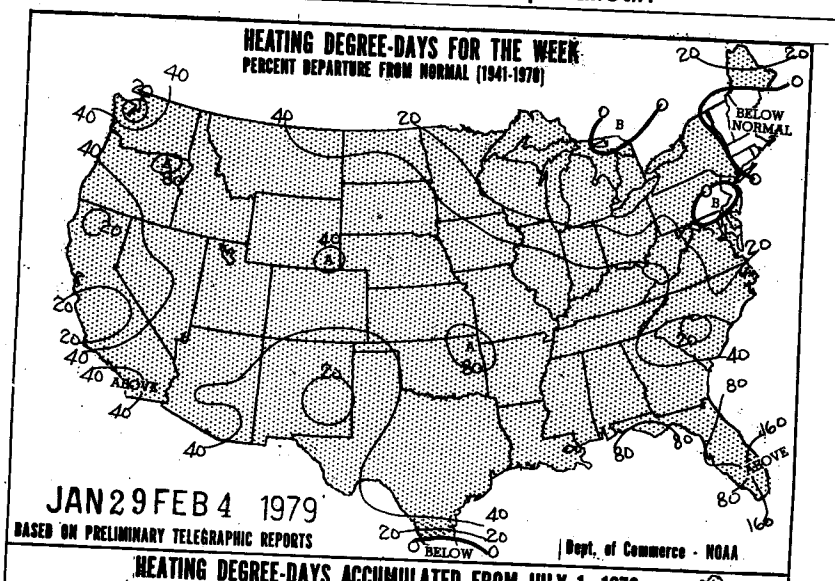
Based on 1941-70 normals

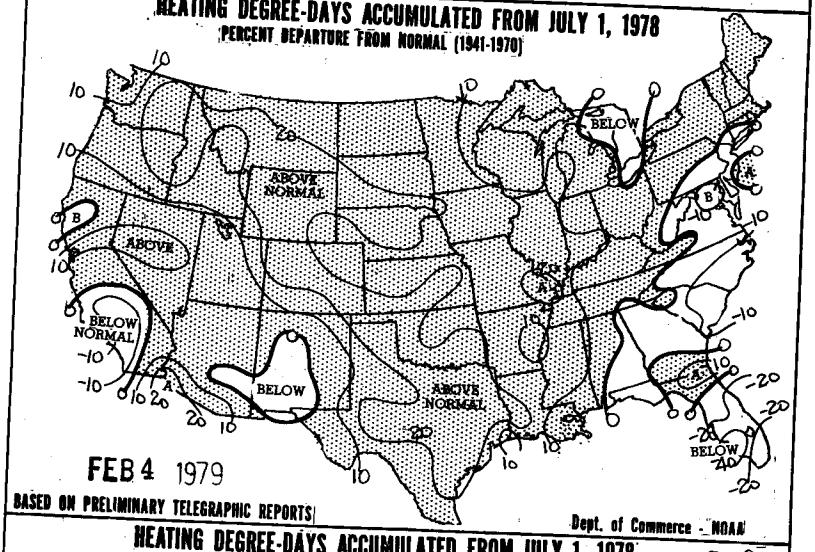
Heating Degree Days (Base 65° F.)

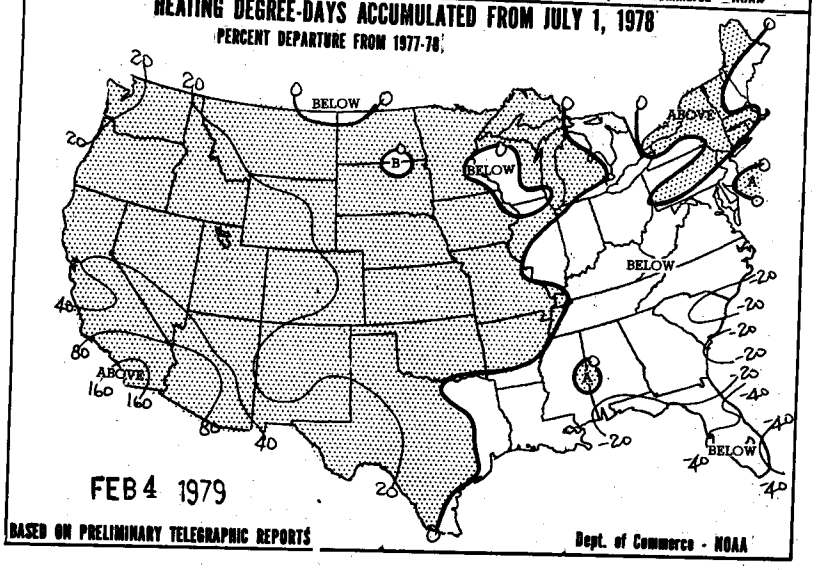
January 1979

ALA.Birmingham	841	MAINE,Caribou	1534	OKLA.Okla. City	1221
Mobile	613	Portland	1272	Tulsa	1283
Montgomery	681	MD.Baltimore	984	OREG.Astoria	910
ALASKA,Anchorage	1321	MASS.Boston	1002	Burns U.	1517
Barrow		Chatham	976	Medford	905
Fairbanks	2260	MICH.Alpena	1580	Pendleton	1533
Juneau	1370	Detroit	1432	Portland	1058
Nome	1387	Flint	1516	Salem	1038
ARIZ.Flagstaff	1307	Grand Rapids	1477	PA.Allentown	1142
Phoenix	455	Houghton Lake	1655	Erie	1406
Tucson	511	Lansing	1509	Harrisburg	1104
Winslow	1102	Marquette U	--	Philadelphia	999
Yuma	399	S. Ste. Marie	1733	Pittsburgh	1346
ARK.Fort Smith	1215	MINN.Duluth	1999	Scranton	1257
Little Rock	1158	Internatl Falls	2287	R.I.Providence	1075
CALIF.Bakersfield	410	Minneapolis	1914	S.C.Charleston	603
Eureka U.	562	Rochester	2064	Columbia	664
Fresno	549	St. Cloud	2115	Greenville	851
Los Angeles U	354	MISS.Jackson	821	S.DAK.Aberdeen	2051
Red Bluff	541	Meridian	830	Huron	2006
Stockton	605	Vicksburg U	--	Rapid City	1781
San Diego	245	MO.Columbia	1515	Sioux Falls	1960
San Francisco	536	Kansas City	1624	TENN.Chattanooga	962
COLO.Denver	1450	St. Louis	1496	Knoxville	985
Grand Junction	1493	Springfield	1463	Memphis	1049
Pueblo	1509	MONT.Billings	1771	Nashville	1088
CONN.Bridgeport	1063	Glasgow	2145	TEX.Abilene	906
Hartford	1184	Great Falls	1808	Amarillo	1236
D.C.Washington	918	Havre	2099	Austin	754
FLA.Apalachicola	525	Helena	1979	Beaumont	591
Ft. Myers	127	Kalispell	2022	Brownsville	305
Jacksonville	525	Miles City	2015	Corpus Christi	445
Key West	17	Missoula	1841	Dallas	--
Daytona Beach	279	NEBR.Grand Island	1777	Del Rio	639
Miami	84	Lincoln	1787	El Paso	735
Orlando	230	Norfolk	1836	Fort Worth	911
W.Palm Beach	124	North Platte	1823	Galveston U.	552
Tallahassee	581	Omaha	1767	Houston	646
Tampa	245	Valentine	1888	Lubbock	1023
GA.Atlanta	853	NEV.Ely	1478	Midland	893
Augusta	723	Las Vegas	737	San Angelo	886
Macon	675	Reno	1114	San Antonio	657
Savannah	602	Winnemucca	1221	Victoria	591
IDAHO,Boise	1503	N.H.Concord	1284	Waco	880
Lewiston	1485	N.J.Atlantic City	1032	Wichita Falls	1056
Pocatello	1681	Trenton U	1013	UTAH,Milford	1409
ILL.Cairo U.	1247	N.MEX.Albuquerque	988	Salt Lake City	1327
Chicago	1628	Roswell	935	VT.Burlington	1452
Moline	1819	N.Y.Albany	1324	VA.Lynchburg	1018
Peoria	1722	Binghamton	1351	Norfolk	785
Rockford	1771	Buffalo	1371	Richmond	876
Springfield	1627	New York	1031	Roanoke	1037
IND.Evansville	1360	Rochester	1342	WASH.Colville	1611
Fort Wayne	1466	Syracuse	1315	Omak	--
Indianapolis	1453	N.C.Asheville	951	Quillayute	913
South Bend	1453	Charlotte	873	Seattle-Tacoma	837
IOWA,Burlington	1711	Greensboro	921	Spokane	1684
Des Moines	1779	Hatteras R.	601	Walla Walla U.	1436
Dubuque	1877	Raleigh	793	Yakima	1549
Sioux City	1895	Wilmington	653	W.VA.Beckley	1213
KANS.Concordia	1615	N.DAK.Bismarck	2084	Charleston	1137
Dodge City	1549	Fargo	2139	Huntington	1194
Goodland	1470	Williston U	2085	Parkersburg U.	1226
Topeka	1642	OHIO.Akron-Canton	1397	WIS.Green Bay	1830
Wichita	1491	Cincinnati U.	1348	Madison	1800
KY.Lexington	1278	Cleveland	1328	Milwaukee	1654
Louisville	1246	Columbus	1346	WYO.Casper	1740
LA.Baton Rouge	687	Dayton	1372	Cheyenne	1470
Lake Charles	636	Toledo	1461	Lander	1975
New Orleans	586	Youngstown	1363	Sheridan	1911
Shreveport	849				

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


HEATING DEGREE-DAYS FOR THE WEEK
PERCENT DEPARTURE FROM NORMAL (1941-1970)
BELOW NORMAL
ABOVE
BELOW
JAN 29 FEB 4 1979
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA


HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1978
PERCENT DEPARTURE FROM NORMAL (1941-1970)
ABOVE NORMAL
ABOVE
BELOW NORMAL
BELOW
ABOVE NORMAL
BELOW
FEB 4 1979
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA


HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1978
PERCENT DEPARTURE FROM 1977-78
BELOW
BELOW
ABOVE
BELOW
ABOVE
BELOW
FEB 4 1979
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 4, 1979.

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1977-78
ALA.					
BIRMINGHAM	212	71	1946	64-	246
MOBILE	167	70	1142	1-	338
MONTGOMERY	178	59	1392	142-	190
ARIZ.					
FLAGSTAFF	358	106	4359	182	1013
PHOENIX	121	34	1059	4	601
TUCSON	141	48	1263	116	507
WINSLOW	290	85	3193	182	699
YUMA	107	46	950	224	515
ARK.					
FORT SMITH	313	143	2648	444	78
LITTLE ROCK	264	95	2422	221	78
CALIF.					
BAKERSFIELD	110	4	1273	190	513
EUREKA	162	43	2860	237	512
FRESNO	137	15	1707	2	471
LOS ANGELES	110	40	874	66	458
RED BLUFF	147	25	1584	96	290
SAN DIEGO	81	15	721	91	502
SAN FRANCISCO	150	42	1913	190	470
STOCKTON	157	28	1873	117	585
COLO.					
DENVER	363	126	4154	631	758
GRAND JUNCTION	375	127	4346	776	1161
PUEBLO	363	133	4121	801	761
CONN.					
BRIDGEPORT	231	14	3028	31-	55
HARTFORD	270	10	3969	209	228
DEL.					
WILMINGTON	234	3	2882	77-	373
D.C.					
WASHINGTON	211	8	2307	290-	278
FLA.					
APALACHICOLA	147	70	904	6-	310
DAYTONA BEACH	103	47	399	183-	323
FORT MYERS	55	20	170	134-	226
JACKSONVILLE	136	59	1048	159-	110
KEY WEST	17	10	30	7-	100
LAKELAND	89	41	361	83-	236
MIAMI	53	39	124	6-	65
ORLANDO	97	48	349	121-	178
TALLAHASSEE	151	60	1155	84-	244
TAMPA	89	40	377	99-	275
WEST PALM BEACH	68	47	157	38-	101
GA.					
ATLANTA	208	56	1879	128-	397
AUGUSTA	176	46	1654	45-	202
MACON	170	53	1458	55-	273
SAVANNAH	151	46	1182	132-	287
IDAHO.					
BOISE	402	171	4304	737	1197
LEWISTON	383	168	4239	849	993
POCATELLO	452	178	5027	789	1376
ILL.					
CAIRO	331	137	2982	510	141
CHICAGO	368	88	4184	511	23
MOLINE	414	117	4610	695	174
PEORIA	408	127	4276	534	17
ROCKFORD	383	76	4613	465	114
SPRINGFIELD	398	137	3872	436	40
IND.					
EVANSVILLE	344	124	3224	302	101
FORT WAYNE	339	66	3902	178	252
INDIANAPOLIS	356	100	3615	194	60
SOUTH BEND	336	49	3888	52	164
IOWA.					
BURLINGTON	402	117	4473	693	200
DES MOINES	441	132	4534	432	162
DUBUQUE	424	101	4972	553	87
SIOUX CITY	493	177	5178	893	471
KANS.					
CONCORDIA	430	174	4042	568	225
DODGE CITY	386	160	3757	635	525
GOODLAND	390	141	4225	553	404
TOPEKA	414	170	3972	681	314
WICHITA	390	168	3554	589	341
KY.					
LEXINGTON	315	92	3148	213-	130
LOUISVILLE	304	87	2951	57-	225
LA.					
BATON ROUGE	156	59	1243	94-	133
LAKE CHARLES	150	61	1216	200-	95
NEW ORLEANS	133	46	1031	34-	195
SHREVEPORT	191	74	1732	276-	201
MAINE.					
CARIBOU	249	129-	5647	34	41
PORTLAND	275	33	4344	34-	44
MD.					
BALTIMORE	222	1	2685	188-	251
MASS.					
BOSTON	233	19	3272	47	119
MICH.					
ALPENA	336	0	4655	192-	310
DETROIT	316	36	4031	240-	157
FLINT	337	36	4245	134	22
GRAND RAPIDS	317	23	4383	406	143
HOUGHTON LAKE	340	4	5065	225	80
LANSING	316	15	4238	186-	128
MARQUETTE	387	58	5165	445	349
MUSKEGON	323	29	4383	428	125
S. STE. MARIE	381	23	5552	320	2
MINN.					
DULUTH	429	38	6157	416	45
INTERNATL FALLS	500	66	7096	736	177
MINNEAPOLIS	446	82	5246	309-	146
ROCHESTER	486	127	5783	837	329
ST. CLOUD	477	89	5968	612	142
MISS.					
JACKSON	193	70	1710	176-	203
MERIDIAN	199	76	1777	161	42
MO.					
COLUMBIA	372	132	3523	360	37
KANSAS CITY	404	158	3813	588	61
ST. LOUIS	364	137	3474	500-	63
SPRINGFIELD	358	144	3388	517	157
MONT.					
BILLINGS	441	156	5478	1185	505
GLASGOW	520	142	6382	988	23
GREAT FALLS	418	125	5538	1043	42
HAVRE	519	160	6074	813	229
HELENA	478	173	5879	956	827
KALISPELL	459	156	6147	988	828
MILES CITY	516	184	5761	975	168
MISSOULA	431	142	5798	976	1061
NEBR.					
GRAND ISLAND	468	183	4824	887	590
LINCOLN	460	175	4537	688	126
NORFOLK	481	170	4976	714	307
NORTH PLATTE	482	205	5258	1168	702
OMAHA	422	138	4222	472	24
VALENTINE	486	184	5375	1008	416
NEV.					
ELY	397	120	5020	508	1066
LAS VEGAS	213	82	1842	78	648
RENO	281	68	3953	379	930
WINNEMUCCA	343	105	4249	305	1064
N. H.					
CONCORD	287	21	4598	260-	84
N. J.					
ATLANTIC CITY	244	17	3036	113	81
TRENTON	225	6	2822	115-	304
N. MEX.					
ALBUQUERQUE	246	53	2742	24	276
ROSWELL	194	21	2514	30	562
N. Y.					
ALBANY	307	1	4267	176	177
BINGHAMTON	326	25	4269	43-	148
BUFFALO	319	25	4035	82	34
NEW YORK	243	12	2894	46-	189
ROCHESTER	319	27	3912	42	7
SYRACUSE	323	29	4006	154	29
N. C.					
ASHEVILLE	242	53	2538	105-	377
CHARLOTTE	213	59	2054	24-	197
GREENSBORO	225	43	2397	43-	386
HATTERAS	178	38	1360	220-	269
RALEIGH	196	28	2043	199-	487
WILMINGTON	167	41	1374	195-	373
N. DAK.					
BISMARCK	546	158	6192	728	73
FARGO	517	109	6300	694	95
WILLISTON	526	141	6324	774	8
OHIO.					
AKRON-CANTON	325	52	3799	118-	137
CINCINNATI	333	102	3401	297-	363
CLEVELAND	317	47	3537	56-	224
COLUMBUS	313	61	3537	70-	218
DAYTON	335	83	3584	166-	214
TOLEDO	322	42	4038	227-	216
YOUNGSTOWN	318	38	3831	54-	111
OKLA.					
OKLAHOMA CITY	314	129	2775	388	133
TULSA	341	155	2831	444	115
OREG.					
ASTORIA	237	78	3327	345	472
BURNS	388	128	5064	784	1028
MEDFORD	229	45	3182	226	604
PENDLETON	378	168	4380	1123	848
PORTLAND	245	72	3355	510	644
SALEM	249	79	3333	502	614
PA.					
ALLENTOWN	251	11	3364	116-	178
ERIE	318	31	3897	13-	133
HARRISBURG	231	7	2940	262-	444
PHILADELPHIA	225	6	2796	125-	421
PITTSBURGH	318	59	3777	204	82
SCRANTON	300	27	3927	185	54
R. I.					
PROVIDENCE	252	7	3517	91	16
S. C.					
CHARLESTON	149	37	1244	173-	274
COLUMBIA	156	23	1505	221-	568
GREENVILLE	195	41	2076	25-	152
S. DAK.					
ABERDEEN	534	154	5909	666-	12
HURON	512	155	5627	726	148
RAPID CITY	463	172	5180	902	309
SIOUX FALLS	505	159	5469	688	64
TENN.					
CHATTANOOGA	240	72	2247	30-	305
KNOXVILLE	247	79	2357	117-	250
MEMPHIS	236	73	2168	53-	29
NASHVILLE	265	83	2521	138-	274
TEXAS.					
ABILENE	204	67	2027	288	111
AMARILLO	248	55	3141	524	478
AUSTIN	177	76	1515	333	160
BEAUMONT	135	47	1122	92-	76
BROWNSVILLE	43	4	505	67-	38
CORPUS CHRISTI	89	27	780	134-	19
DEL RIO	148	60	1301	191	240
EL PASO	179	43	1830	42-	316
FORT WORTH	225	94	1892	315-	38
GALVESTON	125	47	931	143-	71
HOUSTON	144	58	1244	268-	147
LUBBOCK	229	57	2564	273	380
MIDLAND	187	49	2226	456	499
SAN ANGELO	176	56	1991	457	395
SAN ANTONIO	140	47	1308	221	31
VICTORIA	131	51	1124	285	62
WACO	207	91	1845	459	285
WICHITA FALLS	260	108	2391	470	125
UTAH					
SALT LAKE CITY	358	116	3824	175	988
VT.					
BURLINGTON	338	3	4790	186	91
VA.					
LYNCHBURG	240	44	2654	12-	295
NORFOLK	208	33	1977	139-	168
RICHMOND	219	30	2320	151-	270
ROANOKE	245	49	2799	128-	268
WASH.					
QUILLAYUTE	222	47	3597	221	246
SEATTLE-TACOMA	207	33	3065	35	398
SPOKANE	430	173	5350	1179	983
WALLA WALLA	354	151	3810	750	726
YAKIMA	402	165	4584	779	876
W. VA.					
BECKLEY	324	93	3287	113-	344
CHARLESTON	264	84	2955	95-	251
HUNTINGTON	264	84	3065	198-	80
PARKERSBURG	287	63	3015	51-	332
WIS.					
GREEN BAY	373	26	5216	430	147
LACROSSE	397	58	4708	201-	404
MADISON	392	59	5032	404-	20
MILWAUKEE	347	32	4506	161-	20
WYO.					
CASPER	439	156	5514	1127	982
CHEYENNE	359	98	4762	621	524
LANDER	498	198	6113	1417	1538
SHERIDAN	471	177	5828	1288	676

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1978.

Agricultural Weather Facility
USDA South Bldg., Room 1248
Washington, DC 20250

IMMEDIATE – U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

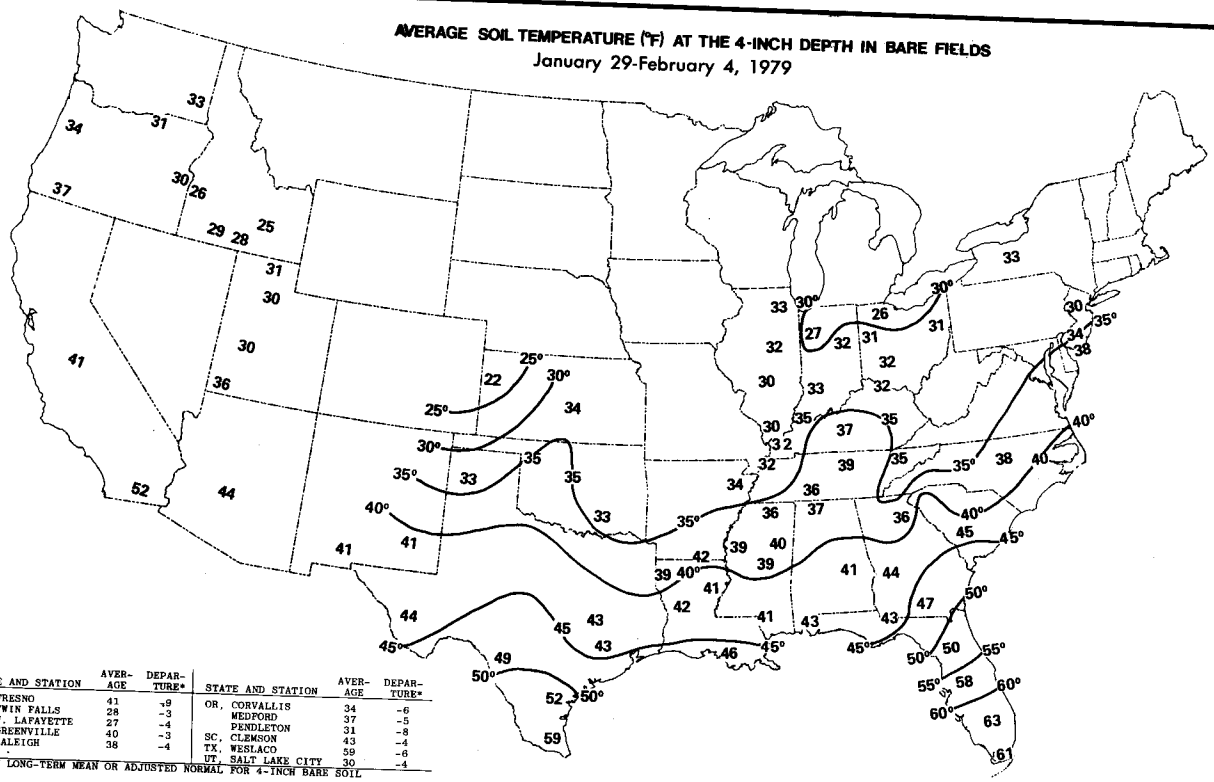
FIRST CLASS MAIL

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE
COM 210

U.S.MAIL

AVERAGE SOIL TEMPERATURE (°F) AT THE 4-INCH DEPTH IN BARE FIELDS

January 29-February 4, 1979



STATE AND STATION	AVER-AGE	DEPAR-TURE*
CA, FRESNO	41	-9
ID, TWIN FALLS	28	-3
IN, W. LAFAYETTE	27	-4
NC, GREENVILLE	40	-3
RALEIGH	38	-4
OR, CORVALLIS	34	-6
MEDFORD	37	-5
PENDLETON	31	-8
SC, CLEMSON	43	-4
TX, WESLACO	59	-6
UT, SALT LAKE CITY	30	-4

*FROM LONG-TERM MEAN OR ADJUSTED NORMAL FOR 4-INCH BARE SOIL

Environmental Data and Information Service, NOAA Based on preliminary telegraphic reports