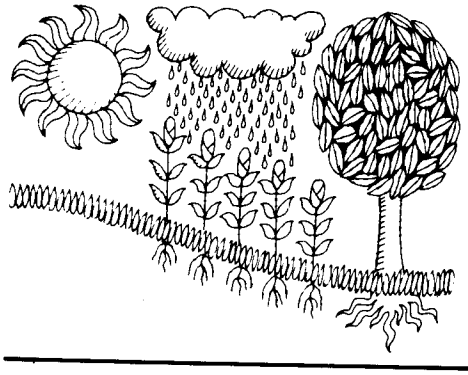

WEEKLY WEATHER AND CROP BULLETIN

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

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

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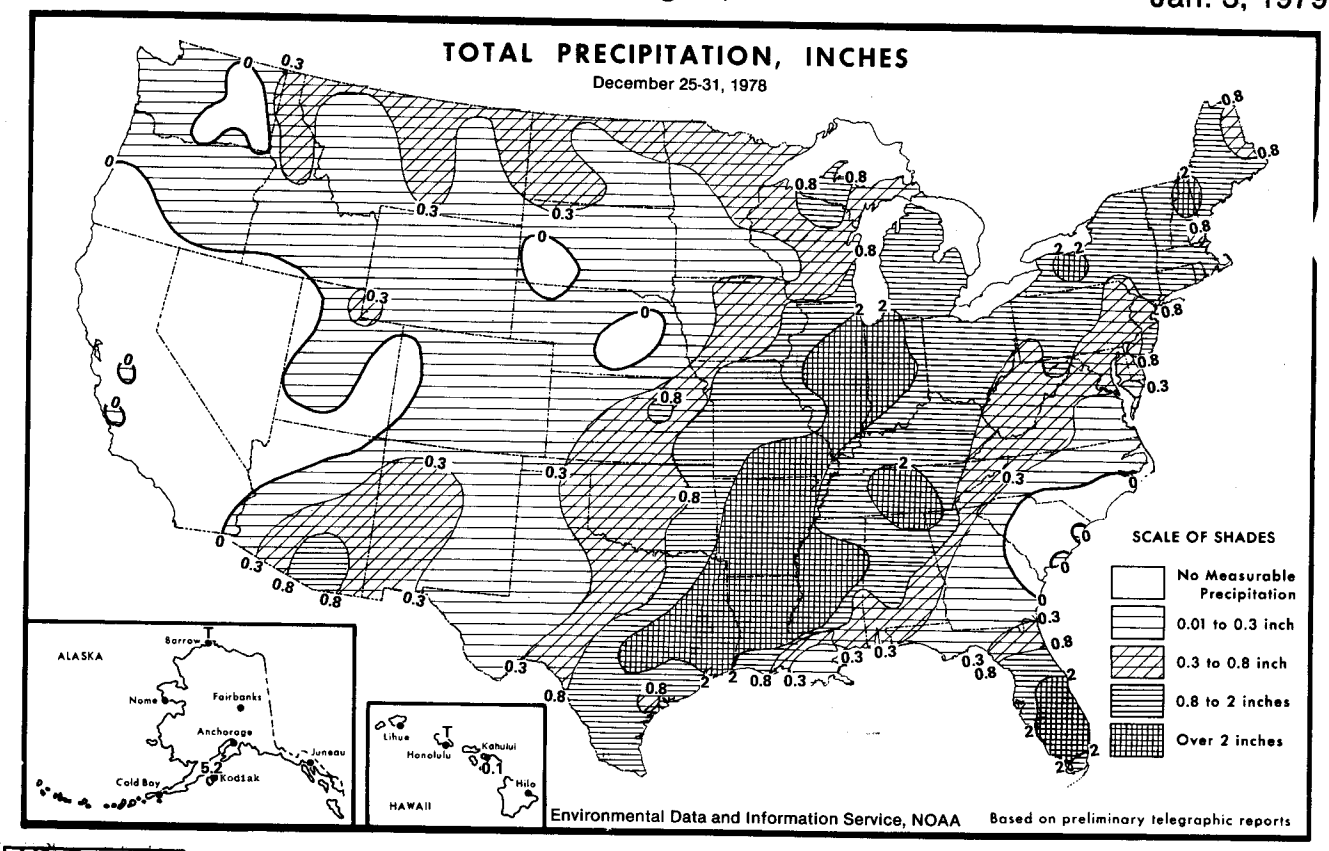


National Weather Summary

December 25 - 31

HIGHLIGHTS: A ridge of high pressure off the West Coast caused very cold Canadian air to move southward and slowly eastward. By week's end, average temperatures dipped below normal throughout most of the Nation west of a line from the western Great Lakes to south central Texas. In the East, readings were generally near or slightly above normal except in Florida where the thermometer rose as much as 7 degrees above normal.

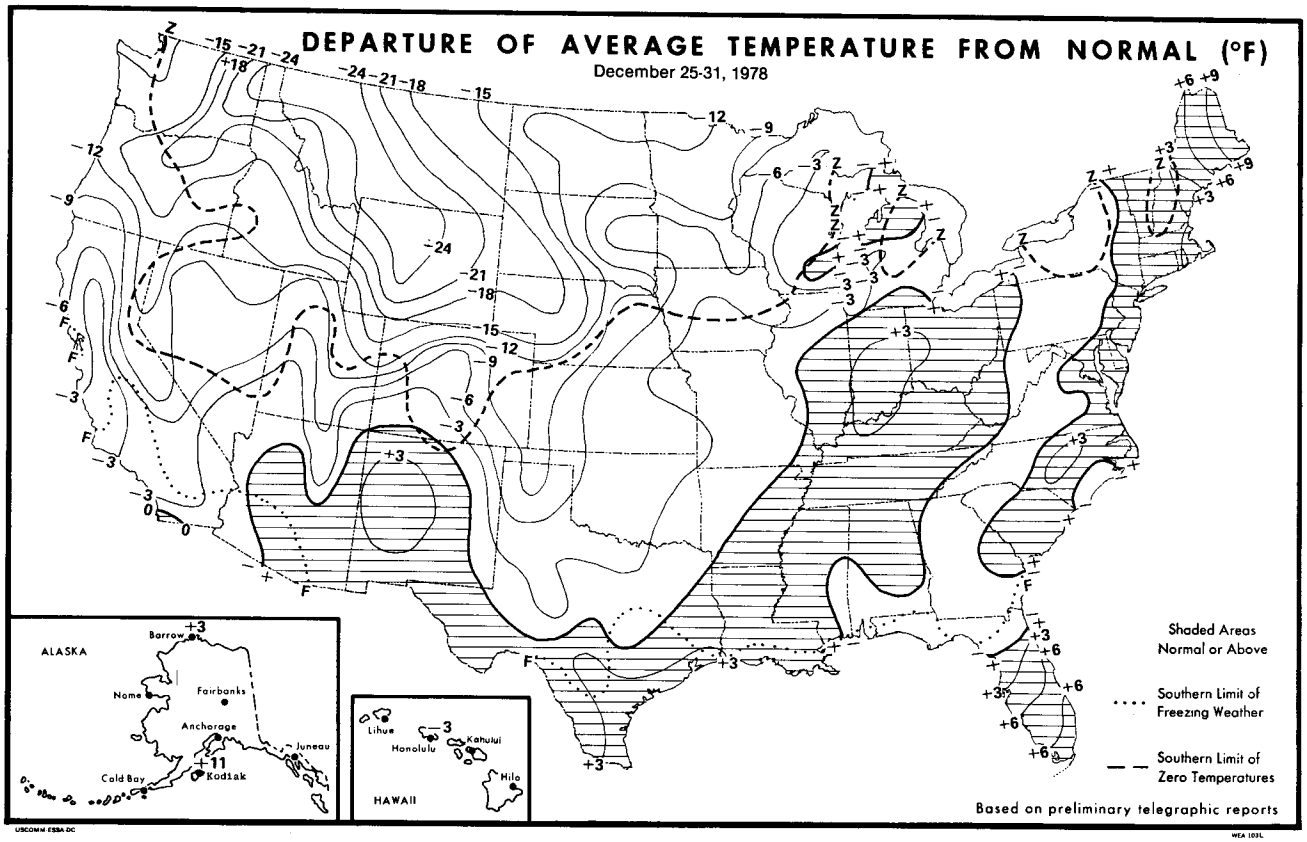
Most of the week's precipitation fell in the Southwest and from central Texas to the Great Lakes and eastward. More than 2 inches of moisture fell over the southern two-thirds of the Mississippi Valley and southern Florida. Heavy snows blanketed an area from eastern Kansas to the Great Lakes.

Christmas Day dawned snowy from northeastern Ohio across western Pennsylvania and New York State through New England. Up to 2 feet fell in the higher elevations of the Catskill and Adirondack Mountains. Broome County, south central New York, counted 14 inches. Further south, Providence, R.I., measured one and a half inches of rain while several Connecticut points and New York City were dampened by about a half-inch. Some light snow dusted an area from the Dakotas to the Great Lakes.

As midnight approached, however, an extensive high pressure system stretched from the Pacific Northwest to the Southeast.

On Tuesday, snow persisted from the Dakotas to northern New England. Chicago's total reached 3 inches. The additional light snow pushed ground accumulations past 3 feet in parts of Michigan's Upper Peninsula and up to 29 inches in Bradford, north central Pennsylvania.

(Errata: The previous issue, Vol. 65 No. 52, should show the date Dec. 27, 1978 on the front cover.)



Rainstorms glided up the Texas Coast dumping more than an inch on Palacios and Brownsville and nearly an inch on Corpus Christi.

Light snow persisted from the Great Lakes to New England on Wednesday while another storm brewed in the Northwest setting off snow from Washington to the northern Rockies. Spokane, eastern Washington, notched 3 inches.

Meantime rain dampened the Texas Gulf Coast and Florida. Brownsville, Tex., gathered another half-inch, and many stations in Florida tallied one-half to one inch.

On Thursday, the large low pressure system from the Northwest had edged into southeastern Wyoming packing heavy snows, high winds, and below-zero readings. By day's end, the snow reached the Mississippi Valley.

Heavy rain continued in parts of Florida with some hail peppering an area north of Miami. Vero Beach added 2 inches, and several stations chalked up an inch. Three-quarters inch of rain touched the central Texas Coast at Palacios.

A couple of record cold temperatures chilled the South; Meridian, eastern Mississippi, shivered at 23°, and Roanoke, southwestern Virginia, scored 15°.

Snow, biting cold, and gusty winds extended from the northern Rockies to the Great Lakes on Friday. Williston, western North Dakota, gathered 11 inches of snow; points in the upper Midwest measured 4 inches.

Meantime rain fell from the Texas Coast northward to Illinois and eastward to Alabama. El Dorado, southern Arkansas, noted .84 inch; Palacios, Tex., managed another .65 inch; and Huntsville, northern Alabama, received a quarter-inch.

Record cold gripped the northern Plateau Region and a section of the East. Though not a record, Butte, Mont., reached only -30° for a high reading. The record book was opened in Idaho when 1974 marks were broken in Boise, 1°, and Pocatello, -9°. Roanoke, Va., set another record at 13°.

Winter weather persisted from the Rockies across the Plains to the Midwest on Saturday. Snow, freezing rain, and dropping temperatures contributed to the unsettled day.

Up to an inch of rain moistened several areas including southern Arizona, the Deep South, and the Ohio Valley.

Very cold air covered a section from eastern Washington to the northern Plains. Record-equaling readings showed -28° at Sheridan, northern Wyoming, and -19° at Huron, east central South Dakota.

On Sunday, the cold front that stretched from the Great Lakes to Southeast Texas triggered heavy snow over the Nation's midsection and rain to the south. The heaviest snowfall hit the Mississippi Valley where up to a foot snarled New Year's Eve. To compound problems, the season's coldest arctic airmass froze much of the country west of the Mississippi River.

From one-half to more than 2.5 inches of rain soaked stations from Texas across the South into Ohio. Warm temperatures combined with the frontal system to set off tornadoes in Arkansas and Tennessee.

The cold temperatures in the Northwest plunged to record proportions. In Washington, Spokane raced past its 1884 mark by 3 dipping to -22°. Yakima called in a record -7°, and Olympia established a record low reading for the fourth consecutive day and its coldest December temperature ever at -5°.

National Agricultural Summary

December 25 - 31

HIGHLIGHTS: Low temperatures gripped the Nation from the West Coast to the western Corn Belt. These low readings stressed livestock and slowed grass and small grain growth in southern areas. Heavy precipitation from the Gulf Coast to the Lakes States raised soil moisture to the surplus category. Farmers performed very little fieldwork, mostly because of the wintry weather. Most activity was restricted to usual care and feeding of livestock. Southeastern growers harvested some soybeans and western producers picked cotton. Southern farmers plowed fields where conditions permitted. Snows brought protection to central Plains winter wheat as far south as Kansas, just in time to ward off subnormal temperatures moving into the area. Winter wheat throughout the Nation generally rated fair to good. Northern pastures were unavailable although cattle grazed crop stubble as far north as Nebraska. Southern pasture growth was slowed by the chilling temperatures. Low temperatures also stressed cattle in the northern part of the Nation, however, death losses were not abnormal in most areas.

SMALL GRAINS: Winter wheat generally rated fair to good. Snowcover extended southward into Kansas just in time to protect the crop from very low temperatures. Southwestern growers were still planting some wheat. Pacific Northwest growers expect some freeze damage because of the lack of snowcover in recent weeks. Low temperatures slowed growth in southern areas.

Kansas winter wheat was mostly snow covered; herdsmen grazed only 5% of the acreage compared with 20% last year and the 15% average. Oklahoma cattle grazed some small grain acreage. Texas wheat grew very slowly because of the low temperatures reaching deep into the Nation, but stands provided fair to good grazing. Dryland stands on the Plains needed additional moisture. Farmers sprayed to control mites and greenbugs from the Low Plains to the Blacklands. Nebraska wheat rated fair and was snow covered. Montana winter wheat and snowcover rated good to excellent. Corn Belt wheat rated good with adequate soil moisture but very little snowcover, although a major storm was approaching the area. In the South, soil moisture scored adequate to surplus; some low areas became muddy, but wheat rated fair to good.

Arizona and California growers continued to plant small grains; early stands looked good although cold weather slowed growth. New Mexico growers grazed 50% of the dryland stands and 80% of the irrigated crop. Snowcover in the Pacific Northwest ranged from minimum to adequate; growers expect some injury to the crop because of the light snowcover but made no assessment yet.

COTTON: Cotton picking was virtually complete in most States. Georgia had some minor acreage to pick. Oklahoma growers reached the final stages. California picking stood at 97%; growers chopped stalks, disked, and plowed down crop residue. Rains continued to slow the New Mexico pace; progress stood at 75%. Texas growers harvested the High and Low Plains crop so rapidly trailer shortages developed causing some delays. In southern Texas, growers prepared land for the 1979 crop as conditions permitted.

OTHER CROPS: Most other crop harvests were complete. Georgia reported some corn and soybeans to harvest. Other States in the Southeast, including North Carolina, South Carolina, and Virginia also had some soybeans to harvest. In the Delta, Arkansas growers combined a few soybeans. The Oklahoma grain sorghum harvest was virtually complete. Florida and Texas growers harvested sugarcane; Texas cutting stood at 33% complete. Tobacco growers stripped leaves from the 1978 crop while Florida and South Carolina producers prepared plant beds for 1979 seedings.

FRUITS AND NUTS: Decidious fruit growers pruned apple and peach trees and grapevines in southern areas where low temperatures and snow did not hinder activity. Pecan harvests neared completion across the South. The Texas harvest stood at 97%. Alabama pecan picking was almost finished although Georgia picking lagged. Florida citrus groves rated excellent after receiving heavy rains. Few water problems developed with a very active harvest for early oranges, tangelos, and tangerines. In the Texas lower Rio Grande Valley, many orange trees continued to lose leaves and fruit because of the early December freeze. Harvest moved actively as growers attempted to move the fruit to market. California citrus damage became more evident; some Navels were going directly to processors.

VEGETABLES: Florida vegetable harvests increased after the holiday lull, however, overall shipments dropped 17% from the previous week. Cabbage supplies increased. Volumes of carrots, eggplant, lettuce, okra, peppers, and squash held steady. Supplies of other vegetables declined. Fieldwork for spring planting was active, but midweek showers slowed progress. The strawberry crop generally rated good to excellent. Light supplies of fall watermelons were available. In Texas, some southern vegetable fields recovered from the December freeze. Harvest of spinach, cabbage, cauliflower, and broccoli continued. In northern areas, significant amounts of vegetables were abandoned to the freeze. In California, vegetable harvests declined along the central coast and increased from the Imperial Valley.

PASTURE AND LIVESTOCK: Northern pastures lay under a blanket of snow, however, in some areas, cattle grazed on crop residue including corn and sorghum. Snows made transportation of feed and roughage difficult. In the South, grasslands rated fair to good, but low temperatures slowed growth. Heavy rains in some parts of the Mississippi and Ohio River Valley saturated soils and made pastures too muddy to support cattle. In the West, pastures rated fair to good. Some Texas rangelands needed additional moisture. Low temperatures slowed grass growth in California. Many areas needed rain and warmer weather. Some Arizona rangeland was damaged by rain.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Dec. 31, 1978

States and Stations	Temperature °F Average	Temperature °F Departure	Precipitation Inches Total	Precipitation Inches Departure
ALA.Birmingham	45	+ 1	.9	- .3
Mobile	52	0	.3	- 1.0
Montgomery	49	+ 2	.4	- .7
ALASKA.Anchorage	--	--	--	--
Barrow	-11	+ 3	T	- .1
Fairbanks	--	--	--	--
Juneau	--	--	--	--
Kodiak	40	+11	5.2	+ 4.1
Nome	--	--	--	--
ARIZ.Flagstaff	29	+ 1	T	- .5
Phoenix	54	+ 3	.4	+ .2
Tucson	52	+ 1	1.5	+ 1.3
Winslow	25	- 7	.1	0
Yuma	53	- 2	.1	0
ARK.Fort Smith	37	- 2	2.0	+ 1.4
Little Rock	40	0	2.3	+ 1.4
CALIF.Bakersfield	43	- 3	T	- .2
Eureka	41	- 7	T	- 1.5
Fresno	41	- 3	T	- .4
Los Angeles	52	- 5	0	- .5
Red Bluff	42	- 3	0	- 1.0
San Diego	56	0	0	- .4
San Francisco	43	- 5	T	- 1.0
Stockton	37	- 7	T	- .6
COLO.Denver	26	- 5	.1	0
Grand Junction	16	-11	0	- .1
Pueblo	23	- 8	T	- .1
CONN.Bridgeport	31	0	.9	+ .2
Hartford	27	+ 2	1.2	+ .4
D.C.Washington	36	+ 1	.4	- .2
FLA.Apalachicola	53	- 1	.2	- .5
Daytona Beach	66	+ 7	1.5	+ 1.1
Ft. Myers	71	+ 7	2.2	+ 1.8
Jacksonville	52	- 2	.6	0
Key West	75	+ 4	.3	0
Lakeland	--	--	--	--
Miami	72	+ 5	1.4	+ 1.0
Orlando	65	+ 5	2.1	+ 1.6
Tallahassee	51	- 1	.1	- .8
Tampa	64	+ 3	1.6	+ 1.1
W.Palm Beach	71	+ 5	2.5	+ 1.9
GA.Atlanta	41	- 1	.3	- .7
Augusta	45	0	T	- .8
Macon	47	0	T	- 1.0
Savannah	49	0	T	- .8
HAWAII.Hilo	--	--	--	--
Honolulu	70	- 3	T	- .9
Kahului	72	0	.1	- .6
Lihue	--	--	--	--
IDAHO.Boise	17	-13	T	- .3
Lewiston	16	-17	T	- .3
Pocatello	7	-17	.1	- .1
ILL.Cairo	37	0	1.5	+ .7
Chicago	23	- 3	2.1	+ 1.7
Moline	20	- 3	1.6	+ 1.2
Peoria	24	- 1	2.1	+ 1.7
Rockford	19	- 3	1.3	+ .9
Springfield	29	+ 1	2.0	+ 1.6
IND.Evansville	36	+ 3	1.5	+ .8
Ft. Wayne	27	+ 1	1.5	+ 1.0
Indianapolis	33	+ 5	2.1	+ 1.5
South Bend	27	+ 2	2.2	+ 1.6
IOWA.Burlington	22	- 2	1.1	+ .7
Des Moines	19	- 2	.4	+ .2
Dubuque	15	- 4	1.1	+ .7
Sioux City	11	- 9	T	- .1
KANS.Concordia	24	- 3	.2	+ .1
Dodge City	25	- 6	.4	+ .3
Goodland	19	- 9	T	- .1
Topeka	26	- 3	.5	+ .2
Wichita	28	- 4	.5	+ .3
KY.Lexington	36	+ 2	.8	0
Louisville	39	+ 5	1.0	+ .2
LA.Baton Rouge	52	+ 1	.2	- .9
Lake Charles	54	+ 1	1.5	- .3
New Orleans	55	+ 2	.1	- 1.0
Shreveport	48	0	2.9	+ 1.9
MAINE.Caribou	21	+ 9	.7	+ .2
Portland	25	+ 2	1.2	+ .4
MD.Baltimore	34	+ 1	.4	- .3
MASS.Boston	33	+ 3	.9	0
Chatham	34	--	.4	--
MICH.Alpena	22	+ 2	1.1	+ .7
Detroit	25	- 1	1.2	+ .7
Flint	23	- 1	1.4	+ 1.0
Grand Rapids	23	- 2	1.3	+ .9
Houghton Lake	22	+ 3	1.2	+ .8
Lansing	24	0	1.4	+ 1.0
Marquette	18	- 3	.3	- .1
Muskegon	23	- 3	1.3	+ .8
S. Ste. Marie	19	+ 2	.8	+ .3
MINN.Duluth	4	- 7	.5	+ .2
Internatl Falls	- 8	-12	.3	+ .1
Minneapolis	9	- 6	.1	- .1
Rochester	7	- 8	.3	+ .2
St. Cloud	2	-10	.3	+ .2
MISS.Jackson	48	+ 1	2.8	+ 1.7
Meridian	46	- 1	.7	- .5
MO.Columbia	29	- 1	1.3	+ .9
Kansas City	27	- 2	.9	+ .5
St. Louis	31	- 1	.5	+ .1
Springfield	31	- 3	2.0	+ 1.5
MONT.Billings	3	-21	.3	+ .2
Glasgow	- 3	-16	.2	+ .1
Great Falls	- 1	-24	.2	0
Havre	- 4	-18	.5	+ .4
Helena	- 2	-22	.1	0
Kalispell	- 5	-26	.2	- .2
Miles City	0	-18	.3	+ .2
Missoula	3	-19	.1	- .2
NEBR.Grand Island	15	- 9	T	- .1
Lincoln	19	- 5	.1	0
Norfolk	13	- 8	T	- .1
N.Platte	8	-16	T	- .1
Omaha	18	- 4	.1	0
Valentine	4	-18	T	- .1
NEV.Ely	16	- 8	T	- .1
Las Vegas	43	- 1	0	- .1
Reno	19	-12	0	- .3
Winnemucca	20	- 8	T	- .2
N.H.Concord	21	- 1	.6	0
N.J.Atlantic City	33	0	1.5	+ .7
Trenton	32	0	1.0	+ .3
N.MEX.Albuquerque	39	+ 4	.4	+ .3
Roswell	38	0	.2	+ .1
N.Y.Albany	23	0	1.2	+ .6
Binghamton	23	0	.8	+ .2
Buffalo	24	- 1	1.2	+ .6
New York	33	0	.8	+ .1
Rochester	23	- 2	2.1	+ 1.6
Syracuse	22	- 3	1.5	+ .9
N.C.Asheville	36	- 1	.5	- .3
Charlotte	40	- 1	0	- .8
Greensboro	38	0	.2	- .5
Hatteras	47	+ 1	T	- 1.0
Raleigh	43	+ 3	T	- .7
Wilmington	44	- 2	0	- .7
N.DAK.Bismarck	- 1	-12	.3	+ .2
Fargo	- 1	-10	.1	0
Williston	- 1	-12	.7	+ .6
OHIO.Akron-Canton	27	0	.9	+ .3
Cincinnati	34	+ 2	1.4	+ .7
Cleveland	30	+ 2	.9	+ .3
Columbus	31	+ 2	1.0	+ .4
Dayton	32	+ 3	1.3	+ .7
Toledo	27	+ 2	1.5	+ 1.0
Youngstown	27	+ 1	.9	+ .3
OKLA.Okla. City	33	- 5	.7	+ .4
Tulsa	33	- 4	.6	+ .2
OREG.Astoria	28	-13	.1	- .2
Burns	13	-13	.1	- .3
Medford	28	- 8	T	- .8
Pendleton	14	-19	.1	- .3
Portland	26	-13	.1	- 1.3
Salem	23	-16	.1	- .5
PA.Allentown	29	+ 1	.6	- .2
Erie	27	+ 1	1.0	+ .4
Harrisburg	31	+ 1	.5	- .1
Philadelphia	33	0	.6	- .1
Pittsburgh	28	0	.8	+ .2
Scranton	23	- 4	.6	+ .1
R.I. Providence	32	+ 3	1.7	+ .9
S.C. Charleston	49	+ 1	T	- .7
Columbia	46	+ 1	0	- .8
Greenville	40	- 2	.1	- .8
S.D. Aberdeen	5	- 7	.1	0
Huron	11	- 4	.1	0
Rapid City	5	-19	T	- .1
Sioux Falls	9	- 7	.1	0
TENN.Chattanooga	41	+ 1	2.6	+ 1.3
Knoxville	40	0	.6	- .5
Memphis	43	+ 2	2.0	+ .9
Nashville	40	+ 1	2.0	+ .9
TEX.Abilene	42	- 2	.3	+ .1
Amarillo	28	- 9	.2	0
Austin	49	- 1	2.6	+ 2.1
Beaumont	57	+ 4	2.8	+ 1.8
Brownsville	65	+ 4	1.5	+ 1.2
Corpus Christi	62	+ 5	1.4	+ 1.1
Del Rio	53	+ 2	.6	+ .5
El Paso	47	+ 4	.3	+ .2
Fort Worth	43	- 3	.8	+ .4
Galveston	59	+ 4	.6	- .2
Houston	55	+ 2	1.3	+ .5
Lubbock	35	- 5	.2	+ .1
Midland	43	- 1	.2	+ .1
San Angelo	42	- 5	.3	+ .1
San Antonio	54	+ 3	.9	+ .6
Victoria	57	+ 3	.6	+ .2
Waco	46	- 2	1.9	+ 1.5
Wichita Falls	38	- 4	.6	+ .3
UTAH.Blanding	27	- 1	0	- .3
Salt Lake City	22	- 6	T	- .3
VT.Burlington	20	+ 1	.9	+ .5
VA.Lynchburg	34	- 2	.4	- .3
Norfolk	40	0	.1	- .6
Richmond	36	- 1	.1	- .6
Roanoke	35	- 1	.6	- .1
WASH.Colville	3	-22	T	- .5
Omak	10	-14	0	- .4
Quillayute	27	-12	.2	- 3.3
Seattle-Tacoma	28	-11	T	- 1.3
Spokane	3	-24	.2	- .4
Walla Walla	18	-17	.1	- .4
Yakima	15	-14	T	- .3
W.VA.Beckley	33	+ 2	.3	- .5
Charleston	35	+ 1	.7	- .1
Huntington	36	+ 2	.7	0
Parkersburg	34	+ 1	.6	0
WISC.Green Bay	15	- 2	.6	+ .4
La Crosse	15	- 3	.2	0
Madison	18	0	.6	+ .3
Milwaukee	21	0	1.7	+ 1.3
WYO.Casper	2	-22	.1	0
Cheyenne	12	-16	.2	+ .1
Lander	- 4	-25	T	- .1
Sheridan	- 2	-25	T	- .1
P.R.San Juan	78	+ 2	.2	- .8

Based on 1941-70 normals

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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: Cool, dry first half, 4° below normal; warming through weekend temperatures more than 10° above normal. Rain through weekend; heaviest amounts 2.00 to 4.00 in. in north.

Fieldwork: 4.4 days suitable. Soil moisture adequate. Very little activity other than routine farm chores. Pecan harvest virtually complete. Wheat, livestock, pastures mostly fair condition.

ARIZONA: Increasing cloudiness by midweek. Rain, snow late week. Snow level to 5,000 ft. Clearing 30th and 31st. Much colder, drier air moved in. Precipitation 0.10 in. north and west, 1.50 in. southeast, White Mountains. Snowfall, mostly White Mountains, 2 to 10 in. Temperatures near normal.

Activities gained momentum early week; weekend heavy rains halted operations. Flooding some lower valleys, moderate to heavy snowfall higher elevations. Cotton harvest rapidly winding down. Some late cotton, especially on ground, will be lost. Seeding small grains increasing, early fields good stand, growing well. Fall sugarbeet harvest delayed, muddy fields. Spring beets good progress. Some freeze burn new alfalfa. Harvest lettuce, mixed vegetables increased; halted by muddy, icy conditions later. Land preparations, planting lettuce, vegetables for late winter, spring harvest active conditions permitting. Citrus harvest good progress, halted later by rain, muddy fields. Considerable damage to ranges from heavy rains. Cattlemen supplementing forage. Soil moisture, stock water adequate. Cattle, calves good condition.

ARKANSAS: Cool, wet. Temperature extremes: 11 and 67°. Precipitation varied from 0.57 to 2.39 in.

Farm activity limited to machine maintenance and cattle feeding. Soil moisture adequate to surplus. Soybean harvest limited. Small grains good condition. Pastures and livestock fair to good.

CALIFORNIA: High pressure in eastern Pacific and western United States and heavy blanket of fog covering Central Valley kept temperatures below normal. Only in mountains did mercury reach normal. Only precipitation heavy drizzle in Central Valley.

Planting wheat, barley delayed Sacramento Valley. Wheat, barley being planted Imperial Valley. Small grains fair growth San Joaquin Valley. Small grains growth halted Sacramento Valley. Sugarbeets growing slow Imperial Valley; growing well San Joaquin Valley and harvest continued. Cotton 97% harvested; plowdown, shredding, disking active San Joaquin Valley. Grain sorghum harvest continued San Joaquin Valley. Pruning, spraying deciduous orchards and vineyards continued. Light avodaco harvest. Citrus damage becoming more evident; some lots of Navels going direct to by-products. Volume reduced. Moderate harvests broccoli, cauliflower, celery complete central coast, increasing south. Lettuce increasing Imperial Valley, finishing Blythe. Range grass growth slow due cold weather. Rain, warmer weather needed to aid grass growth. Supplemental feeding continued. Low temperatures cuased some loss older livestock.

COLORADO: Generally dry weather with seasonal temperatures 26th to 28th. Very strong cold front pushed southward on 29th bringing very cold weekend temperatures and light snow.

FLORIDA: Showers left average of 1.00 in. of rainfall south and east coast with local amounts over 3.00 in. south. Lows in 30's north, warming to 50° on the 30th and mostly 76° south; highs ranging from around 50° north to 80° south.

Soil moisture mostly adequate; few dry spots as well as a few wet spots in scattered areas. Farmwork slow but increasing. Small grains improving. Tobacco plant beds being planted. Sugarcane harvest slowed by rains; crop condition good. Pastures generally good south; poor to fair elsewhere. Additional rains midweek and later very beneficial. Cattle continue generally good condition. Citrus groves excellent condition, hard rains all areas, very few water problems, harvest very active early oranges, tangelos, and tangerines. Vegetable harvest picking up after holiday lull; overall shipments down 17% from previous week. Strawberry shipments up considerably. Cabbage increased. Supplies carrots, eggplant, lettuce, okra, peppers, squash held steady while snap beans, celery, chinese cabbage, sweet corn, cucumbers, escarole, radishes, tomatoes decreased. Quality, size, generally good to very good. Fieldwork, spring planting active but slowed midweek due to shower activity. Strawberry crop condition generally good to excellent. Quality, size generally good. Harvest of fall watermelon crop continues active. Light supply of good quality and size available. Spring seedings in southeast up to good stands.

GEORGIA: Rain; heaviest amounts central and south. Temperatures 2 to 6° below normal.

Soil moisture improving. Corn, cotton and soybean harvest nearing completion. Pecan harvest still lagging. Small grain, winter pasture and cattle fair to good. Hogs good condition. Tobacco bed preparation underway.

HAWAII: Weather cool, less rain, wind than previous week. Wind damaged fields recovering; some slow. Improvement, leafy crops, island of Oahu.

Vegetable supplies light; quality down on tomatoes, snapbeans. Banana, papaya supplies light. Pineapple harvesting slow. Sugar slack. Pastures generally good.

IDAHO: Temperatures generally below normal. Highs ranged in 40's to low 50's. Many stations reached sub-zeroes. Precipitation generally light and below normal.

Very little outside activity due to snowcover and cold weather. Limited movement of crops. Calving and lambing minimal. Feed supplies plentiful and livestock in good condition.

ILLINOIS: Temperatures 3° below normal northern third, 3° above normal extreme southeast, near normal central. Precipitation over 1.00 in. most locations, mostly as snow northern half.

Winter wheat mostly good. Livestock condition good; supplemental feeding increasing. Farmwork mainly general chores, livestock care. Soil moisture mostly adequate.

INDIANA: Freezing rain central and north, rain in south midweek. Weekend rain central and south snow central and north of 1 to 4 in. Precipitation 1.60 in. central and north, 2.20 in. south. Temperatures 3° above normal and ranged from 5 to 63°.

Fieldwork limited but good conditions for manure hauling with frozen but clear ground. Feeding livestock, tobacco stripping main activities.

IOWA: Seasonable temperatures becoming extremely cold at weekend. Heavy snow preceded by ice fell at weekend over southeast. Snow cover at weekend varied from 10 in. east and north central to 2 to 5 in. extreme west.

KANSAS: Weekend storm produced snow and bitter cold. Moisture amounts ranged from few hundredths northwest to 0.25 in. southwest, 0.50 in. central and northeast to 0.75 in. southeast. Snow depths ranged less than 1 in. northwest to around 4 in. southwest and southeast to 6 to 8 in. many sections central and northeast. Temperatures 22° northwest to 31° southeast, 5 to 7° below normal west, 1 to 2° below normal east.

Livestock stressed by bitter cold and snow. Heavy supplemental feeding. Wheat pasture being grazed 5%, last year 20%, average 15%. Topsoil and subsoil mostly short. Most wheat has snowcover.

KENTUCKY: Temperatures near normal through midweek and above normal at weekend. Highs in 30's and 40's warming to 50's and 60's by 31st. Mostly sunny through 28th and cloudy with rain through 31st. Precipitation 2.00 to 3.00 in. at weekend.

Farmwork primarily caring for livestock, stripping tobacco. Cattle grazed winter pastures and cleaned harvested fields, but muddy conditions limiting access in many areas. Condition of small grains fair to good, some concern over low areas.

LOUISIANA: Temperatures 2° above normal. Extremes: 76 and 25°. General rain late week.

Activities: Care and feeding livestock.

MARYLAND & DELAWARE: Temperatures few degrees above normal except western Maryland where temperatures 3° below normal. Highs in 40's; lows in upper 20's. Precipitation widespread; 0.75 to 1.50 in. rainfall.

Farmers limited to inside chores.

MICHIGAN: Temperatures near normal to 3° below normal with northeast Lower and extreme eastern Upper slightly above normal. Precipitation above normal with amounts ranging from 0.75 to nearly 1.50 in. over Lower Peninsula; Upper Peninsula ranged from 0.33 in. over central portion to nearly 2.00 in. over Keweenaw Peninsula. Snow totaling 5 to 11 in. fell over northern Lower; 4 to 6 in. over southwest Lower; southeast lower melted most of its existing snowcover. Upper Peninsula picked up 6 to 8 in. new snow.

Main farm activities: Marketing stored commodities, grading, repairing buildings and equipment.

MINNESOTA: Temperatures 7° below normal. Extremes: 34 and -34°. Precipitation 0.10 in. above normal north and central, near normal south. Amounts ranged from 0.50 in. southwest to 0.49 in. northeast. Snow depth at weekend ranged from 3 in. southwest to 21 in. extreme north central. Snowfall 1 to 4 in. south, 4 to 8 in. north.

MISSISSIPPI: Temperatures 5° below normal. Extremes: 13 and 67°. Light rainfall early week some areas.

Soil moisture adequate to surplus. Fieldwork: 1.7 days suitable. Farmwork: Feeding livestock, some deep tillage midweek. Winter wheat fair condition. Livestock condition fair to good. Hay, roughage and feed grain supplies adequate.

MISSOURI: Temperatures 3 to 4° above normal with cold front at weekend. Rain, freezing rain, and heavy snow late in week.

Condition of winter wheat fair to good. Topsoil moisture mostly adequate. Supplies of hay and other roughages mostly adequate. Livestock losses due to unfavorable weather mostly normal. General condition of livestock mostly good.

MONTANA: Temperatures 20° below normal east to 25° below normal elsewhere. Minimum temperatures sank to -50° southwest. Precipitation light although major blizzard occurred midweek.

Winter wheat snowcover and condition good to excellent. Livestock condition fair to good, some stress caused by prolonged cold weather. Water and feed supply adequate. Grazing mostly closed.

NEBRASKA: Temperatures very cold; 5° below normal east, 18° below normal west. Snow common. Precipitation generally less than 0.10 in.

Winter wheat mostly fair condition. Feed grain and hay supplies above average. Over 40% of corn and sorghum stalk fields being pastured.

NEVADA: Mostly dry and cold. Temperature extremes: 63 and -27°.

Supplemental feeding requirements increased as snowcover persists.

NEW ENGLAND: Rain south coastal New England and snow along New Hampshire and Maine Coasts 25th. Snow heavy from northwestern Connecticut across central and western Massachusetts, Vermont and interior sections of New Hampshire and Maine. Fair weather prevailed 26th thru 30th except for usual northern mountain snow flurries. No unusual temperature departures.

NEW JERSEY: Temperatures 3° below normal, averaging 27° north, 31° south, and 33° coastal. Extremes: 10 and 55°. Precipitation below normal, averaging 0.34 in. north, 0.31 in. south, and 0.17 in. coastal; 3 to 9 in. snow 25th north.

Caring for livestock and other winter chores.

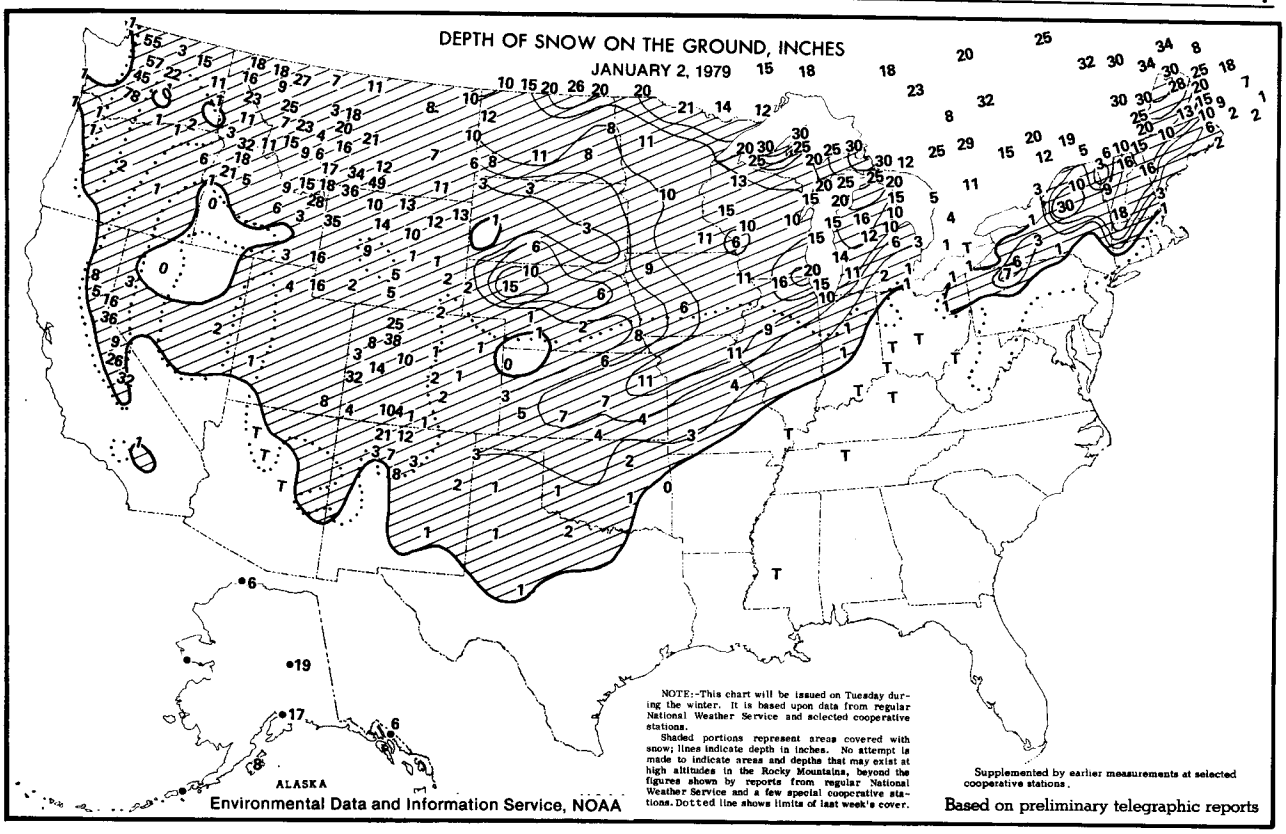
NEW MEXICO: Sunny, dry and mild beginning of week. Extensive cloudiness 28th through weekend with appreciable rain and snow all sections 30th and 31st. Much colder north and east over weekend.

Weather clear and allowed harvesting until weekend when more moisture received. Cotton over 75% harvested. Grain sorghum harvest also completed. Pecan harvest active until rain with about 35% yet to harvest. Wheat and barley in excellent condition due to moisture. About 80% of irrigated and 50% of dryland wheat being grazed. Ranges fair and livestock good.

NEW YORK: Temperatures near normal. Precipitation up to 1.50 in. some parts west; above normal.

NORTH CAROLINA: Temperatures 3 to 6° below normal. Precipitation coastal area 3.50 in., elsewhere 0.50 in. to 1.00 in.

Fieldwork: 3.6 days suitable. Soil moisture adequate. Condition of wheat, oats, barley, and rye fair to mostly good. Pasture fair to good. Soybean harvest nearing completion.



NORTH DAKOTA: Harsh wintry weather. Temperatures generally 10 to 15° below normal. Extremes: 28 to -31°. Considerable new snow during two storms with water equivalent ranging from 0.03 in. southeast to 0.88 in. northwest. Gusty winds continued after skies cleared and many rural roads blocked by drifted snow.

Farm activity limited to winter chores and care of livestock. Grain movement slow due to boxcar shortage. Recent snows filled farmyards and covered fields. Gusty winds blew some fields bare. Cattle wintering well and considered good condition. Feed supplies appear to be adequate but may be hard to get to due to snow.

OHIO: Precipitation 0.75 to 2.00 in. Heaviest amounts western third and central. Temperatures 2° above normal. Extremes: 61 and 0°.

Marketing and grading apples, onions, potatoes and other tubers. Some flooding on low corn land in central and south.

OKLAHOMA: Arctic air moved southward 29th and 30th; temperatures mostly 3° below normal in southeast half and 5 to 10° below nromal in northwest half. Precipitation 29th, 30th and 31st, mostly in form of rain southeast and rain, sleet and snow elsewhere; ranged from 0.25 in. Panhandle to 2.68 in. southeast.

Sorghum harvest virtually complete. Cotton harvest in final stages. Cattle maintaining condition with aid of strong supplemental feeding. Only small grains and fescue grass providing adequate forage.

OREGON: Temperatures normal to 5° below normal. Weekend cold front lowered temperatures to new lows for season in most locations. Extremes: mid-50's, low teens west; high 40's, sub-zero east. Precipitation at first of week and again at weekend. Coast stations reported 0.30 to 0.80 in., elsewhere amounts less than 0.10 in.

Farming at standstill except thawing frozen pipes. Some freeze damage likely to fall seeded crops in west. Storage crops kept moving. Livestock feeding very heavy with feed supplies adequate. Cold weather causing some pneumonia and scours in cattle.

PENNSYLVANIA: Cold,mild until 31st. Snow showers north and west beginning week otherwise dry until rain weekend. Temperatures near normal west; 2 to 6° below elsewhere. Extremes: 58 and -10°. Precipitation 0.25 in. north central mountains to 0.90 in. northwest. Snowcover none southeast trace to 15 in. central and north mountains.

Normal winter chores.

PUERTO RICO: Island average rainfall 0.34 in. or 0.60 in. below normal. Temperatures averaged about 76° on coasts and 71° interior. Extremes: 91 and 52°.

SOUTH CAROLINA: Temperatures near normal; coldest near midweek when low readings in 20's were general. Brief rainfall 31st and scattered rains near end of week.

Pruning peach, apple trees and grape vines. Completing soybean harvest when weather permits. Supplemental feed given livestock. Winter wheat and rye in fair to good condition due to delayed germination and poor stands in fall dry weather.

SOUTH DAKOTA: Cold temperatures, 9 to 21° below normal. Extremes: -34 and 45°. Snowfall in all areas except south central. Greatest precipitation 0.29 in.

Care of livestock major farm chore. Less snow than last year at this time.

TENNESSEE: Cold, dry early week. Temperatures below freezing. High pressure midweek, temperatures in upper 60's. Storm at weekend with 2.00 in. rain. Cold temperatures behind front with freezing rain and sleet. Temperatures in teens.

Soil moisture surplus. Pastures and cattle fair. Small grains fair. Main activities: General chores and care of livestock.

TEXAS: Cloudy skies, rain dominated eastern two-thirds; fair weather elsewhere. Cooler temperatures statewide with light snow, freezing rain, sleet to northern portions and rain to southern portion. Temperatures below normal northeast, north central. Temperatures above normal central, southwest, coastal plains, Edwards Plateau. Precipitation near normal southwest, below normal northwest, and above normal elsewhere.

Cotton harvest excellent progress High, Low Plains, though trailer shortages caused some delays. Land preparation 1979 crops underway from High Plains to Lower Rio Grande Valley. Development wheat, oats slowed by cold weather, short moisture, but grazing generally adequate. Flax suffered moderate to severe damage from December freezes South Texas. Non-irrigated wheat stands need additional moisture; some fields Panhandle very dry. Winter grain mites, greenbugs causing problems Low Plains through Blacklands; farmers spraying necessary. Some oats freeze damage shown up Blacklands to South Texas, but most fields continue good recovery. Warm weather would be welcome major oat-growing areas. Sugarbeet harvest completed near end of week. Sugarcane harvest Lower Rio Grande about 33% complete. Cotton harvested 87%, 100% 1977, 98% average. Pecans harvested 97%, 98% 1977, 98% average. Sugarbeets harvested 100%, 100% 1977, 100% average. Flax planted 100%, 100% 1977, 100% average.

Lower Rio Grande Valley leaf loss and fruit droppage continued many orange groves due to early December freeze. Harvest very active as growers attempted to move fruit to market. Movement cabbage light as fields continued to recover from December freeze. Carrot harvest continued; minor top damage some fields due to freeze. Recent cold weather slowed head development some lettuce fields. Eagle Pass harvests spinach, cabbage, cauliflower continued. San Antonio-Winter Garden harvests carrots, cabbage, broccoli and cauliflower continued active. Heavy top growth damage, result of December freeze, slowed machine harvesting some carrot fields. Many spinach fields mature or near maturity time of December freeze lost at least one cutting; some were abandoned. Some fields intended for fresh market may be cut for processing. Coastal Bend leaf burn reported some spinach fields due to December freeze. Pecan harvest winding down; scrapping operations underway central and south central.

Small grain pastures furnishing fair to good grazing from Panhandle to Central; dryland wheat on High Plains suffering lack of moisture. Winter grasses providing some grazing south central. Most pastures and ranges need rain; ranchers continued supplemental feeding. Livestock fair to good condition depending on feeding and pasture conditions. Some stock losses reported High Plains due to cold weather.

UTAH: Scattered areas snow latter half period. Accumulated amounts generally very light. Much colder air following storm with temperatures dropping to lowest of year. Averages ranged from near normal to 17° below.

Farm activities limited to caring for livestock; sorting and marketing potatoes, onions, and apples.

VIRGINIA: Temperatures little below normal. Extremes: 62 and 8°. Rain at beginning and near end of period averaged 0.75 to 1.00 in.

Topsoil moisture mostly adequate. Fieldwork: 3.2 days available. Winter grains and grazing good. Activities: Feed and care of livestock and newborn; finishing soybean harvest; limited plowing; liming. Mild weather causing extended grazing and high survival rate for newborn.

WASHINGTON: West: Temperatures 5 to 6° below normal. Precipitation 0.30 to 3.20 in. below normal.

Low temperatures will help reduce insect and disease problems. Feeding livestock and equipment repair main activities. Feed adequate.

East: Temperatures 5 to 10° below normal. Precipitation 0.30 to 0.40 in. below normal. Temperatures as low as -13°.

Snow cover minimal to adequate. Some winter injury to fall grain expected, extent of damage can not be determined yet. Pruning continued in orchards. Major activities: Livestock feeding and shop work. Hay supplies adequate.

WEST VIRGINIA: Temperatures below normal. Very cool midweek, warm weekend. Extremes: 3 and 52°, precipitation above normal.

Fieldwork: 2.5 days suitable. Soil moisture adequate. Hay supply adequate. Recent weather favorable for tobacco stripping. No snowcover; freezing and thawing on small grains.

WISCONSIN: Temperatures 3 to 7° below normal. Precipitation ranged from 0.10 to 0.60 in. across central and north, and 0.50 to 1.80 in. southern areas. Light snow and flurries fell up to midweek. Significant snowfall developed late 27th and continued through 29th. Snowfall totaled 1 to 5 in. with up to 8 in. extreme north. Some freezing drizzle occurred across south 29th. Major snowstorm pushed across southern areas late 30th and continued 31st. Snowfall totaled 5 to 15 in. southeast, with winds of 25 to 35 mph causing considerable drifting. Heaviest snow of 12 in. or more fell from Milwaukee southward. Frost depths as of 29th averaged 5.5 in., increase of 2.5 in. from two weeks earlier. Snow depths averaged 9 in., increase of 3 in. from mid-December.

WYOMING: Precipitation average; temperatures below normal.

Cold, snowy weather stressed livestock and made feeding difficult. Snow covered winter wheat in most areas, minimizing wind and freeze damage.

World Weather and Crop Update

December 25 - 31

USSR. Snowfall (20 to 30 mm water equivalent) in the northern half of the winter wheat belt increased snow depths sufficiently (now 20 to 30 cm in the northern third) to protect the crop against colder temperatures. The southern third of the Ukraine remained snow-free, and although temperatures were unseasonably mild during the week, low temperatures the following week may again pose the threat of some winterkill. In the New Lands, snowfall continued above normal---a pattern that has existed for quite some weeks.

PEOPLE'S REPUBLIC OF CHINA. Rainfall in the middle Yangtze Valley rose much above normal again after two weeks of relatively dry weather. Amounts over an extensive area commonly showed 15 to 40 mm, and although the wheat belt to the north received only light amounts, irrigation water from the Yangtze Valley should not be in short supply when it is needed in the spring.

AUSTRALIA. The rainfall pattern approached normal with greatest amounts (30 to 80 mm) along the northern and eastern coasts. Totals remained generally below normal, however, providing good weather for final wheat harvest operations in Victoria.

INDIA. The northern three-quarters of the country continued dry. Reservoirs in the lowlands may still be at adequate levels, but mountainous areas in the northwest are without their normal snowcover as yet, posing the threat of low stream levels next spring. Along the extreme southeastern coast, rainfall again rose above normal, and as much as 300 to 400 mm drenched some localized areas.

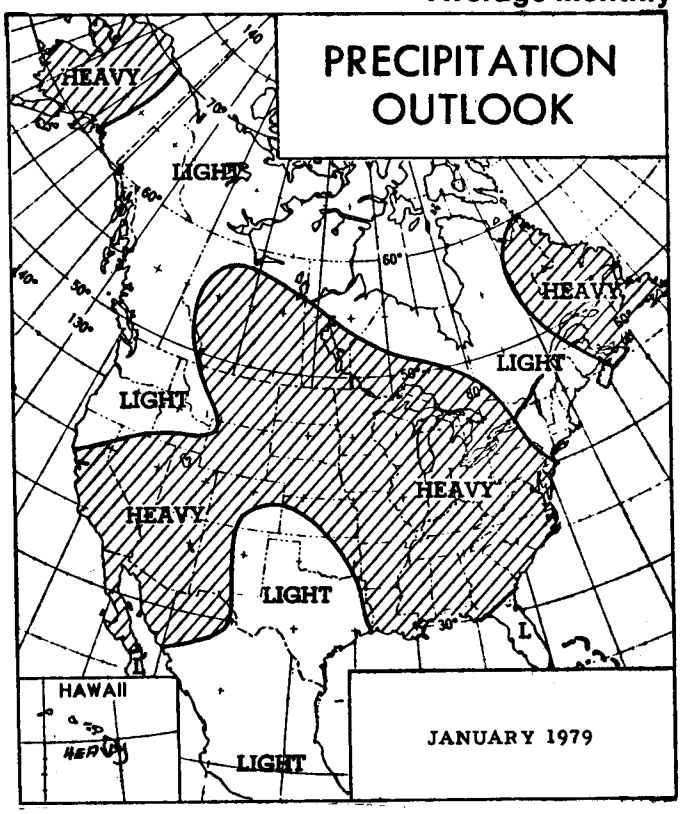
AFRICA. In the northwestern part of the continent, only the northern tip of Morocco received substantial rainfall as a followup to last week's abundant rains. The wheat crop should have adequate moisture in most areas for the time being. Rainfall in the Maize Triangle of South Africa remained below normal. There have been reports of a reduced crop area, and potential reduction of yields owing to lack of moisture.

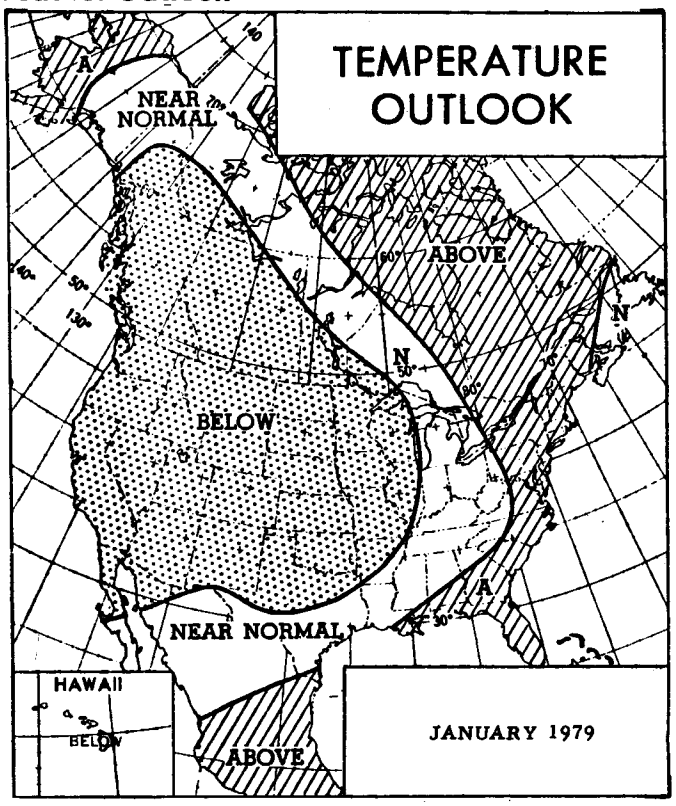
S.E. ASIA. Only scattered rainfall amounts of 15 to 25 mm occurred over the areas as far southeast as Java. This was seasonal weather for more-northerly areas where the rice harvest continues, but was unusually dry for the Malay Peninsula and Sumatra.

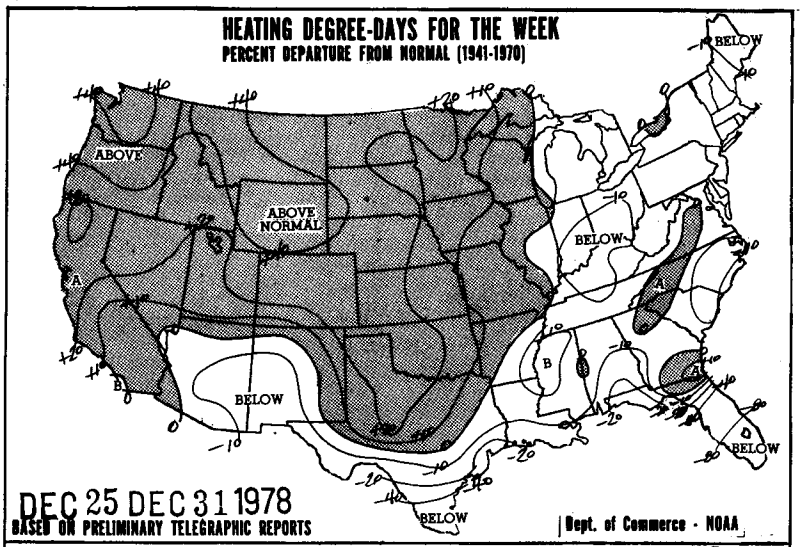
EUROPE. Winter storms dropped 40 to 60 mm of precipitation across the northern half of Europe, mostly in the form of snow. This will provide more-than-adequate protection for winter grains in most areas. Rainfall in the western half of the Iberian Peninsula rose much above normal again with amounts ranging from 20 to 200 mm; the wheat crop condition should be improved. However, the eastern third continued with below-normal amounts of 0 to 5 mm, and crop prospects there remain poor. Over the rest of southern Europe, variable precipitation of 5 to 30 mm tended to be slightly below normal; and while most areas have adequate moisture, some localized areas are quite dry.

SOUTH AMERICA. Abundant rains of 20 to 45 mm fell throughout the soybean belt of Brazil; totals exceeded 100 mm in northern Parana. This has alleviated some moderate dry conditions in central soybean areas. Reports have indicated an excellent outlook for the crop. In Argentina, dry weather returned to the wheat harvest area in Buenos Aires as the harvest entered its final stages. Corn and soybean areas to the north received abundant rainfall of 30 to 70 mm in widespread coverage providing excellent growing conditions.

Average Monthly Weather Outlook






HEATING DEGREE-DAYS FOR THE WEEK
PERCENT DEPARTURE FROM NORMAL (1941-1970)
ABOVE
ABOVE NORMAL
BELOW
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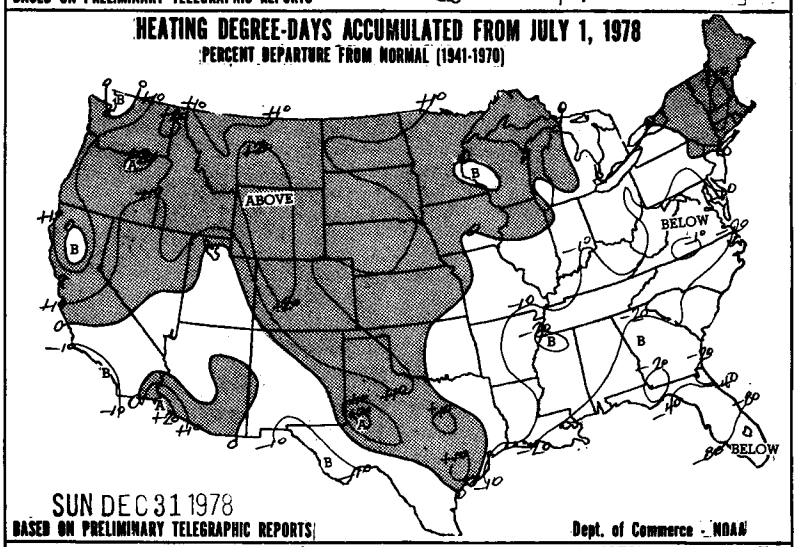
DEC 25 DEC 31 1978
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA


HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1978
PERCENT DEPARTURE FROM NORMAL (1941-1970)
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BASED ON PRELIMINARY TELEGRAPHIC REPORTS
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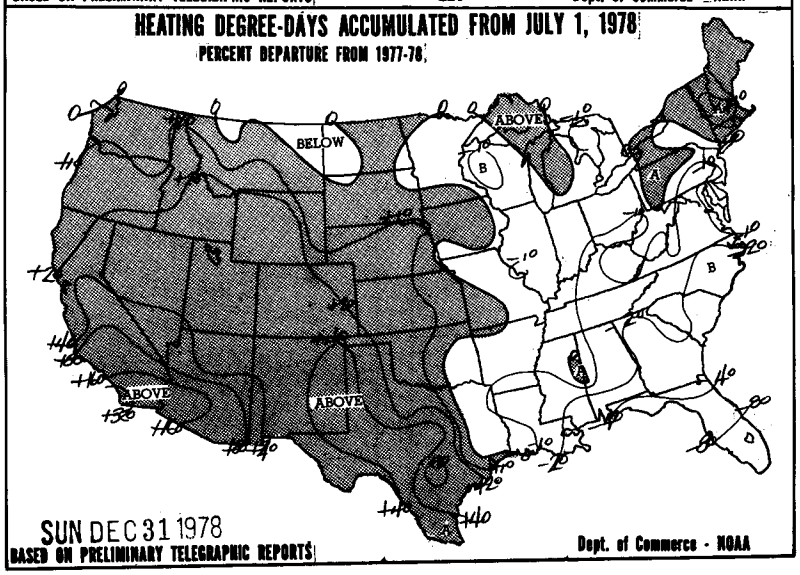
HEATING DEGREE-DAYS ACCUMULATED FROM JULY 1, 1978
PERCENT DEPARTURE FROM 1977-78
BELOW
ABOVE
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SUN DEC 31 1978
BASED ON PRELIMINARY TELEGRAPHIC REPORTS
Dept. of Commerce - NOAA

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING DEC. 31, 1978.*

STATES AND STATIONS	WEEKLY TOTAL	WEEKLY DEPARTURE*	SEASONAL ACCUMULATION + TOTAL	SEASONAL ACCUMULATION + DEPARTURE*	SEASONAL ACCUMULATION + DEPARTURE FROM 1977-78
ALA. BIRMINGHAM	137	-10	974	-174	-134
MOBILE	87	-11	429	-206	-232
MONTGOMERY	104	-22	605	-306	-125
ARIZ. FLAGSTAFF	248	-10	2890	7	715
PHOENIX	81	-17	552	-35	355
TUCSON	93	-5	693	40	333
WINSLOW	205	-26	1961	69	440
YUMA	76	6	505	121	328
ARK. FORT SMITH	199	19	1274	-28	-18
LITTLE ROCK	171	-6	1129	-185	-55
CALIF. BAKERSFIELD	145	13	808	-53	397
EUREKA	160	39	2205	199	295
FRESNO	165	19	1088	58	323
LOS ANGELES	77	7	501	-68	299
RED BLUFF	158	17	976	-22	157
SAN DIEGO	64	-2	412	-50	320
SAN FRANCISCO	149	31	1300	155	286
STOCKTON	190	43	1192	140	414
COLO. DENVER	313	74	2524	224	455
GRAND JUNCTION	331	64	2645	404	702
PUEBLO	298	59	2442	334	444
CONN. BRIDGEPORT	235	-3	1800	-40	81
HARTFORD	266	-13	2613	259	342
DEL. WILMINGTON	225	-4	1694	-110	-216
D.C. WASHINGTON	197	-12	1255	-315	-177
FLA. APALACHICOLA	62	-18	302	-196	-247
DAYTONA BEACH	21	-28	101	-208	-226
FORT MYERS	4	-24	11	-145	-161
JACKSONVILLE	87	-10	443	-54	-128
KEY WEST	0	-7	0	-10	-36
LAKELAND	19	-23	76	-152	-189
MIAMI	0	-14	2	-67	-62
ORLANDO	19	-23	59	-186	-164
TALLAHASSEE	90	-1	490	-121	-211
TAMPA	19	-23	77	-163	-216
WEST PALM BEACH	0	-21	2	-98	-93
GA. ATLANTA	165	4	901	-319	-295
AUGUSTA	132	-8	816	-209	-130
MACON	120	-6	681	-223	-196
SAVANNAH	106	-6	487	-284	-231
IDAHO. BOISE	321	74	2573	252	415
LEWISTON	316	89	2525	304	275
POCATELLO	385	100	3116	329	620
ILL. CAIRO	209	13	1454	-18	-21
CHICAGO	289	13	2337	86	-91
MOLINE	314	21	2558	160	-34
PEORIA	283	3	2322	17	-176
ROCKFORD	319	15	2626	42	-212
SPRINGFIELD	255	-7	2019	-82	-177
IND. EVANSVILLE	199	-25	1670	-124	-87
FORT WAYNE	258	-15	2230	-107	-185
INDIANAPOLIS	221	-35	1949	-177	-86
SOUTH BEND	261	-17	2221	-180	-175
IOWA. BURLINGTON	305	20	2471	158	12
DES MOINES	335	30	2516	3	32
DUBUQUE	347	28	2863	94	-198
SIOUX CITY	380	64	3006	357	327
KANS. CONCORDIA	297	34	2200	68	98
DODGE CITY	292	55	2014	80	280
GOODLAND	328	69	2555	183	317
TOPEKA	280	26	2095	89	89
WICHITA	263	31	1863	68	202
KY. LEXINGTON	198	-23	1704	-109	-49
LOUISVILLE	181	-36	1526	-261	-182
LA. BATON ROUGE	91	-7	522	-121	-65
LAKE CHARLES	72	-15	504	-47	-35
NEW ORLEANS	72	-12	381	-165	-117
SHREVEPORT	119	-3	786	-52	-95
MAINE. CARIBOU	321	-48	3948	234	301
PORTLAND	270	-27	2884	99	70
MD. BALTIMORE	214	-10	1552	-213	-115
MASS. BOSTON	222	-22	2117	146	278
MICH. ALPENA	287	-26	2883	-309	-334
DETROIT	267	-8	2386	-7	-188
FLINT	284	-4	2498	-117	-48
GRAND RAPIDS	279	-4	2699	-186	-85
HOUGHTON LAKE	305	-14	3183	-11	-6
LANSING	274	-11	2565	-1	-107
MARQUETTE	323	12	3216	129	69
MUSKEGON	281	-6	2691	175	49
S. STE. MARIE	314	-25	3584	131	-35
MINN. DULUTH	433	52	3902	135	-86
INTERNATL FALLS	511	87	4492	335	5
MINNEAPOLIS	395	43	3077	-16	-232
ROCHESTER	411	62	3450	323	-147
ST. CLOUD	449	76	3605	208	-41
MISS. JACKSON	113	-13	786	-110	-134
MERIDIAN	126	0	838	-134	-13
MO. COLUMBIA	255	10	1813	-107	-132
KANSAS CITY	276	25	1980	-47	-101
ST. LOUIS	244	13	1772	-29	-190
SPRINGFIELD	239	19	1746	-9	-81
MONT. BILLINGS	411	123	3454	658	356
GLASGOW	467	102	3938	488	-69
GREAT FALLS	421	129	3490	540	-4
HAVRE	458	101	3687	294	-41
HELENA	446	132	3635	338	253
KALISPELL	465	157	3876	311	126
MILES CITY	434	107	3458	397	-50
MISSOULA	416	116	3722	433	394
NEBR. GRAND ISLAND	349	60	2786	334	405
LINCOLN	326	38	2524	163	-46
NORFOLK	366	55	2869	212	196
NORTH PLATTE	394	109	3152	509	457
OMAHA	317	33	2351	76	-11
VALENTINE	405	101	3210	397	243
NEV. ELY	338	52	3347	275	616
LAS VEGAS	149	-1	997	-48	369
RENO	312	76	2686	256	610
WINNEMUCCA	314	58	2851	182	647
N.H. CONCORD	299	-5	3117	331	129
N.J. ATLANTIC CITY	217	-7	1834	40	126
TRENTON	223	-5	1675	-110	-147
N. MEX. ALBUQUERQUE	188	-24	1643	-90	142
ROSWELL	191	-2	1509	-43	541
N.Y. ALBANY	289	-8	2737	169	207
BINGHAMTON	287	-9	2707	-14	-77
BUFFALO	275	-5	2454	51	34
NEW YORK	218	-6	1702	-6	-91
ROCHESTER	279	-1	2358	-75	-46
SYRACUSE	278	-2	2460	-59	35
N.C. ASHEVILLE	196	-2	1431	-264	-248
CHARLOTTE	169	-1	1051	-229	-213
GREENSBORO	183	-6	1335	-186	-259
HATTERAS	120	-13	640	-249	-163
RALEIGH	150	-25	1123	-263	-343
WILMINGTON	127	-6	665	-246	-247
N.DAK. BISMARCK	450	74	3782	299	-6
FARGO	464	69	3863	321	-6
WILLISTON	463	87	3927	353	-27
OHIO. AKRON-CANTON	252	-14	2189	-136	-124
CINCINNATI	209	-25	1846	-75	-283
CLEVELAND	239	-21	2002	-257	-161
COLUMBUS	225	-30	1993	-195	-140
DAYTON	222	-32	2008	-122	-160
TOLEDO	265	-13	2364	-41	-174
YOUNGSTOWN	258	-13	2265	-134	-60
OKLA. OKLAHOMA CITY	233	-41	1403	-6	-102
TULSA	230	-36	1365	-37	-33
OREG. ASTORIA	239	-74	2264	-128	-106
BURNS	396	-121	3253	-354	-420
MEDFORD	244	-43	2147	-175	-297
PENDLETON	335	-114	2625	-509	-190
PORTLAND	261	-79	2159	-245	-279
SALEM	270	-91	2152	-229	-223
PA. ALLENTOWN	247	-12	2059	-120	-63
ERIE	258	-12	2308	-175	-106
HARRISBURG	227	-17	1718	-266	-290
PHILADELPHIA	219	-5	1655	-120	-253
PITTSBURGH	249	-9	2222	-59	-24
SCRANTON	281	-12	2467	-90	-49
R.I. PROVIDENCE	237	-15	2266	-123	-191
S.C. CHARLESTON	107	-12	543	-289	-203
COLUMBIA	128	-12	738	-304	-361
GREENVILLE	171	-10	1103	-156	-86
S.DAK. ABERDEEN	425	-56	3572	-265	-7
HURON	419	-70	3347	-276	-153
RAPID CITY	406	-117	3117	-340	-137
SIOUX FALLS	394	-53	3222	-212	-42
TENN. CHATTANOOGA	161	-14	1141	-271	-209
KNOXVILLE	164	-11	1217	-171	-166
MEMPHIS	149	-19	986	-277	-90
NASHVILLE	166	-18	1275	-176	-221
TEXAS. ABILENE	173	-29	1034	-32	-164
AMARILLO	265	-66	1804	-195	-363
AUSTIN	111	-7	665	-22	-159
BEAUMONT	66	-23	460	-101	-11
BROWNSVILLE	16	-27	188	-1	-62
CORPUS CHRISTI	36	-25	298	-9	-78
DEL RIO	84	-16	586	-26	-160
EL PASO	127	-27	1013	-120	-157
FORT WORTH	154	-19	866	-11	-18
GALVESTON	48	-25	334	-45	-27
HOUSTON	70	-18	527	-15	-22
LUBBOCK	212	-33	1441	-50	-377
MIDLAND	166	-19	1251	-222	-431
SAN ANGELO	162	-33	1030	-141	-347
SAN ANTONIO	89	-9	585	-1	-68
VICTORIA	64	-13	473	-50	-118
WACO	135	-14	860	-97	-248
WICHITA FALLS	197	-36	1219	-113	-165
UTAH. SALT LAKE CITY	296	-38	2305	-60	-434
VT. BURLINGTON	308	-16	3109	193	-207
VA. LYNCHBURG	206	-3	1483	-167	-205
NORFOLK	169	-3	1053	-203	-87
RICHMOND	194	-2	1300	-210	-148
ROANOKE	205	-2	1616	-56	-144
WASH. QUILLAYUTE	249	-70	2558	-97	-39
SEATTLE-TACOMA	245	-63	2104	-1	-133
SPOKANE	409	-140	3408	-610	-325
WALLA WALLA	306	-93	2215	-259	-178
YAKIMA	330	-75	2798	-289	-204
W.VA. BECKLEY	216	-22	1879	-347	-247
CHARLESTON	201	-14	1625	-169	-154
HUNTINGTON	195	-22	1686	-109	-55
PARKERSBURG	210	-14	1629	-212	-241
WIS. GREEN BAY	346	-13	3151	-100	-18
LACROSSE	352	-24	2689	-110	-381
MADISON	333	-7	2999	-54	-125
MILWAUKEE	309	-1	2644	-107	-131
WYO. CASPER	426	-140	3526	-595	-631
CHEYENNE	364	-102	3093	-290	-319
LANDER	472	-161	3858	-739	-924
SHERIDAN	449	-154	3638	-628	-339

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1978.

Map and table published on page 12 Vol. 65 No. 52 dated Dec. 24, was in error. This table contains the correct information.

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

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U.S.MAIL

Heating Degree Days (Base 65° F.)

December 1978

ALA.Birmingham	582	MAINE,Caribou	1503	OKLA.Okla. City	866
Mobile	355	Portland	1201	Tulsa	834
Montgomery	431	MD.Baltimore	763	OREG.Astoria	843
ALASKA,Anchorage	1340	MASS.Boston	916	Burns U	1335
Barrow	--	Chatham	895	Medford	973
Fairbanks	1912	MICH.Alpena	1270	Pendleton	1094
Juneau	1134	Detroit	1112	Portland	915
Nome	--	Flint	1187	Salem	928
ARIZ.Flagstaff	1254	Grand Rapids	1182	PA.Allentown	971
Phoenix	405	Houghton Lake	1333	Erie	1046
Tucson	470	Lansing	1181	Harrisburg	876
Winslow	1176	Marquette U	1385	Philadelphia	811
Yuma	373	S. Ste. Marie	1453	Pittsburgh	993
ARK.Fort Smith	771	MINN.Duluth	1699	Scranton	1103
Little Rock	707	Internatl Falls	1992	R.I.Providence	970
CALIF.Bakersfield	823	Minneapolis	1538	S.C.Charleston	399
Eureka U	667	Rochester	1627	Columbia	492
Fresno	682	St. Cloud	1736	Greenville	658
Los Angeles U	360	MISS.Jackson	519	S.DAK.Aberdeen	1678
Red Bluff	615	Meridian	547	Huron	1560
Stockton	712	Vicksburg U	--	Rapid City	1480
San Diego	297	MO.Columbia	949	Sioux Falls	1554
San Francisco	581	Kansas City	1045	TENN.Chattanooga	637
COLO.Denver	1245	St. Louis	923	Knoxville	681
Grand Junction	1510	Springfield	933	Memphis	643
Pueblo	1264	MONT.Billings	1509	Nashville	695
CONN.Bridgeport	891	Glasgow	1725	TEX.Abilene	667
Hartford	1102	Great Falls	1473	Amarillo	992
D.C.Washington	671	Havre	1627	Austin	475
FLA.Apalachicola	292	Helena	1540	Beaumont	296
Ft. Myers	18	Kalispell	1567	Brownsville	152
Jacksonville	324	Miles City	1614	Corpus Christi	236
Key West	0	Missoula	1515	Dallas	--
Daytona Beach	71	NEBR.Grand Island	1438	Del Rio	426
Miami	1	Lincoln	1315	El Paso	626
Orlando	56	Norfolk	1476	Fort Worth	578
W.Palm Beach	2	North Platte	1559	Galveston U	259
Tallahassee	364	Omaha	1358	Houston	393
Tampa	75	Valentine	1622	Lubbock	827
GA.Atlanta	580	NEV.Ely	1361	Midland	689
Augusta	531	Las Vegas	676	San Angelo	642
Macon	467	Reno	1239	San Antonio	411
Savannah	378	Winnemucca	1203	Victoria	359
IDAHO,Boise	1171	N.H.Concord	1304	Waco	573
Lewiston	1109	N.J.Atlantic City	831	Wichita Falls	748
Pocatello	1387	Trenton U	824	UTAH,Milford	1288
ILL.Cairo U	802	N.MEX.Albuquerque	945	Salt Lake City	1178
Chicago	1199	Roswell	853	VT.Burlington	1227
Moline	1305	N.Y.Albany	1119	VA.Lynchburg	777
Peoria	1174	Binghamton	1143	Norfolk	614
Rockford	1333	Buffalo	1067	Richmond	694
Springfield	1035	New York	831	Roanoke	784
IND.Evansville	865	Rochester	1077	WASH.Colville	1458
Fort Wayne	1050	Syracuse	1061	Omak	--
Indianapolis	944	N.C.Asheville	741	Quillayute	892
South Bend	1095	Charlotte	620	Seattle-Tacoma	846
IOWA,Burlington	1196	Greensboro	700	Spokane	1424
Des Moines	1293	Hatteras R.	426	Walla Walla U	1007
Dubuque	1414	Raleigh	627	Yakima	1155
Sioux City	1531	Wilmington	489	W.VA.Beckley	865
KANS.Concordia	1132	N.DAK.Bismarck	1679	Charleston	797
Dodge City	1054	Fargo	1788	Huntington	815
Goodland	1229	Williston U	1756	Parkersburg U	863
Topeka	1078	OHIO.Akron-Canton	997	WIS.Green Bay	1442
Wichita	1016	Cincinnati U	891	Madison	1348
KY.Lexington	834	Cleveland	965	Milwaukee	1273
Louisville	765	Columbus	943	WYO.Casper	1602
LA.Baton Rouge	427	Dayton	942	Cheyenne	1358
Lake Charles	377	Toledo	1076	Lander	1730
New Orleans	324	Youngstown	1004	Sheridan	1623
Shreveport	528				

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