

WEEKLY WEATHER AND CROP BULLETIN

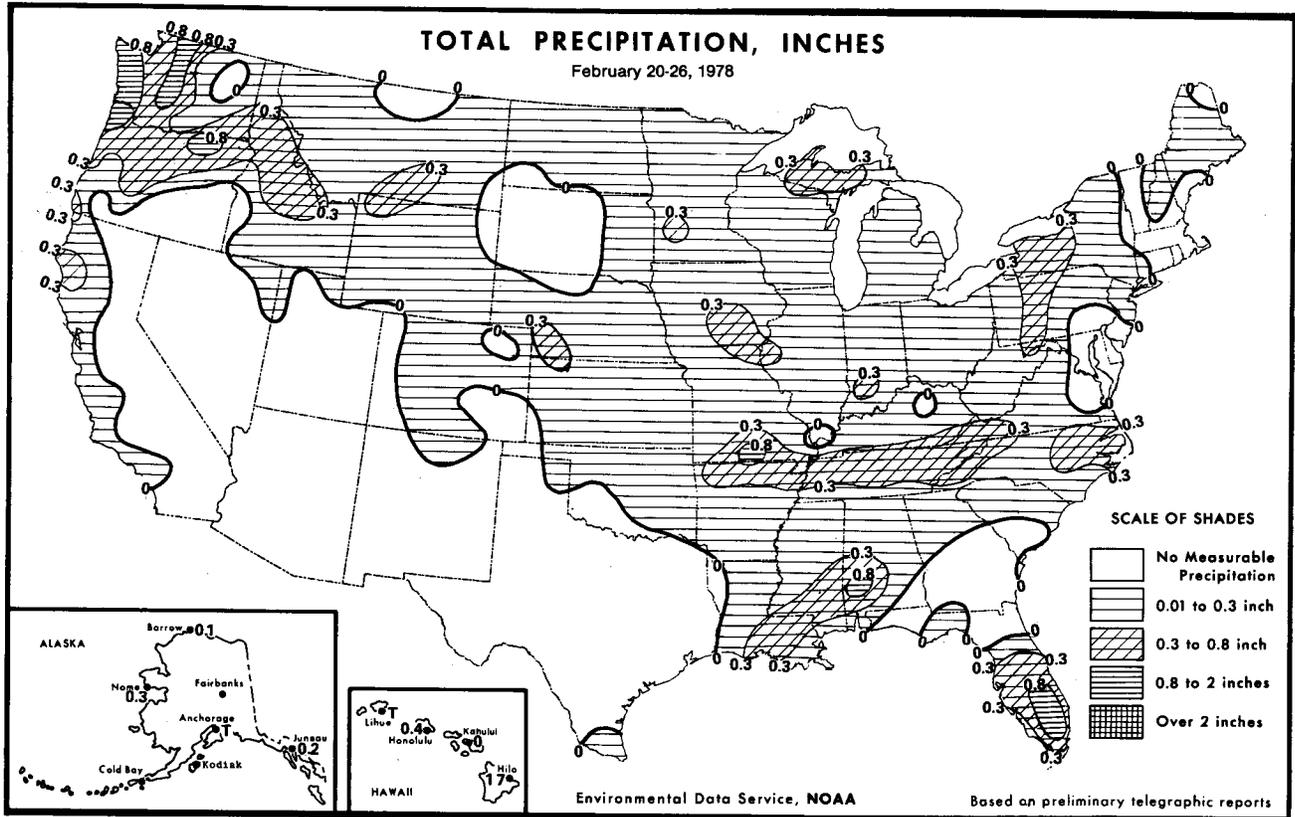
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National Weather Summary

February 20 - 26

HIGHLIGHTS: Precipitation fell very lightly over the entire Nation. The heaviest amount, a well-below-normal 1.6 inches, dampened extreme northwestern Oregon.

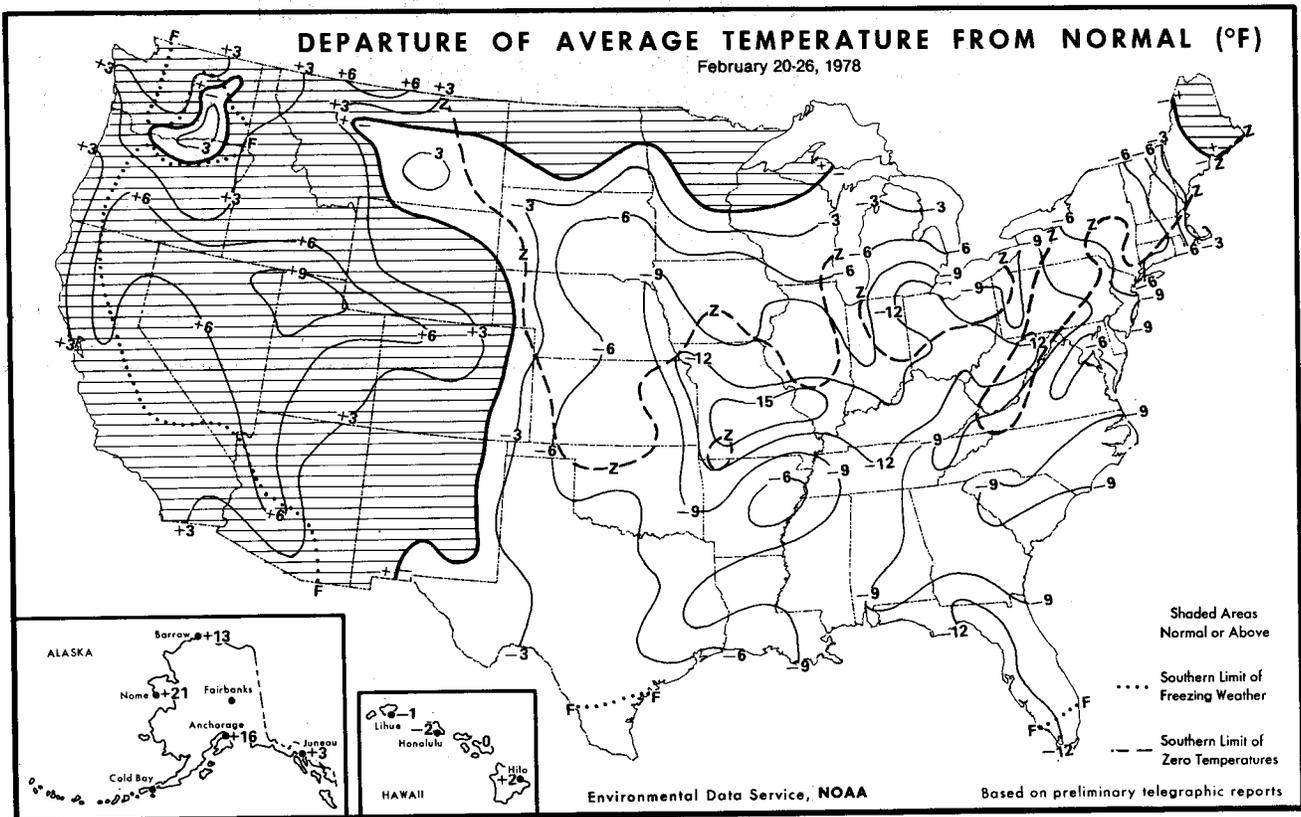
A mild warming pattern during the latter part of the week pushed temperatures past 32° for the first time in 2 months in some central cities. However, the week's average ranged well below normal east of the Rockies. Some pockets of the Missouri and Ohio Valleys dipped 13 to 15° colder than expected for this time of year. West of the Rockies, readings remained warmer than usual excepting a pool of cold air that chilled Washington's Columbia River Basin.

Monday's precipitation fell lightly over scattered sections of the Nation. A fresh surge of cold air accompanied by snow and gusty winds hit the country's midsection; the heaviest amounts, 3 inches, fell over northern Michigan.

Temperatures remained bitterly cold and set records from the Ohio Valley eastward to the Atlantic Coast and southward to the Gulf Coast. Elkins, W. Va., dipped 4 degrees below its 1900 mark to -15°; Evansville, Ind., dropped from its 1929 record by 8 degrees recording only 3°; Mississippi's Jackson and Meridian and Louisiana's New Orleans, Shreveport, and Baton Rouge all opened the record books to temperatures ranging from 17° to 27°.

Snow invaded the Ohio and Tennessee Valleys on Tuesday and reached the middle Atlantic Coast States by day's end. Nashville gathered 6 inches and Asheville, N.C., 4 inches. Before the storm left the Mississippi Valley, northeastern Arkansas measured a half-foot of snow.

Early morning temperatures once again smashed records from the Midwest to the South---a sampling:



Toledo's -9° ; in Kansas, a Dodge City reading of -3° ; and, again in Louisiana, New Orleans' 34° and Shreveport's 19° .

One low-temperature streak ended and another established a record. Williston, N. Dak., finally topped 32° after 66 consecutive days below freezing. By contrast, Rockford, Ill., checked in at a record-breaking 44 days below the freezing mark.

Wednesday began with light snow falling in portions of the Midwest, Ohio Valley, and middle Atlantic Coast; Cape Hatteras, N.C., had its largest February snow cover on record, 4.5 inches. By evening, a low pressure system moved into the Midwest after mild air had pushed the thermometer past the freezing point during the day.

Record-setting temperatures chilled the morning for cities in Missouri and Michigan, and put the South in a deep freeze from Texas to Florida. The record readings included 54° at Key West, Fla.; Mobile's 22° ; San Antonio's 26° ; and 2° at Springfield, Mo.

Except for cold temperatures in the South, Thursday was a quiet weather day for most of the Nation. Some light snow fell from the Lakes States down the Appalachians to Georgia; Louisville counted an inch. A dusting of snow pushed Chicago's seasonal snowfall record to an all-time high 77 inches.

A frosty morning greeted most Floridians. Ten cities reported record low readings from Key West's 48° to Tallahassee's 20° . Other points in the South and Ohio Valley also noted records. West Palm Beach, Fla., notched its lowest February temperature ever, 32° , while Minneapolis/St. Paul

climbed above freezing to 33° for the first time in 66 days.

A low pressure system trekked across the Nation's northern tier leaving snow from Montana through the upper Midwest to the Northeast; Billings, Mont., got a half-foot while Park Falls in north central Wisconsin managed 4 inches. Rain edged into the upper West Coast where Astoria, Oreg., was dampened by more than a half-inch.

A record low temperature, 29° , chilled Apalachicola, Fla. Fargo, N. Dak., reached 32° for the first time in 67 days.

Precipitation was generally scattered on Saturday. Some snow touched the northern sections of the country again; the heaviest snowfall blanketed southwestern Montana's Cooke City with 4 inches. Thunderstorms formed a line from southwestern Louisiana to southern Alabama. Hail pelted central Louisiana.

Cold air moved back into the Nation's midsection after some warming, but less-than-balmy, readings had sent Cleveland and Detroit above 32° for the first time in more than a month.

Charleston, W. Va., counted its 48th consecutive day with a snow cover---the old record numbered 43.

Sunday quietly revealed light, scattered precipitation---mainly snow over the northern U.S., which became a bit heavy in Wyoming and Colorado. Some rainfall dotted the Gulf Coast and California.

Last year, winter's cold dissipated during February at a faster clip than 1978. Detroit and Wilmington, Del., have braved their second coldest February so far. Saturday was the first time Wilmington had shot past normal in a month.



National Agricultural Summary

February 20 - 26

HIGHLIGHTS: Relatively high temperatures began melting snow, although readings from the Great Plains eastward stayed below normal. Very little precipitation fell giving soils a chance to dry in the South. Northern areas have a snow pack to melt and soils to thaw before drying can begin. Corn planting began in extreme southern areas including Texas, Florida, and Georgia. Cotton producers waited for higher soil temperatures. Winter wheat started greening across the South; northern farmers fertilized fields lacking snow cover. Plowing and seedbed preparation advanced throughout the South with limited activity extending into Virginia. Orchard pruning was almost complete; southern peach growers set out trees. Frosty weather nipped Florida vegetables, but citrus sustained little damage because low readings were short-lived.

SMALL GRAINS: Winter wheat rated fair to good with the exception of some poor scores in the Deep South where low temperatures prevented the growth normally expected by now. The crop greened in southern areas and into Oklahoma, but very little growth was reported. Melting snows temporarily relieved dry soils in the southern Great Plains. Most of the wheat in the northern half of the Nation lay under a blanket of snow.

A warming trend in Kansas brought some relief from the extreme cold. Melted snow provided temporary topsoil moisture. Winds caused light damage in the western two-thirds of the State, but wheat condition was unchanged at good to excellent. Indicative of the subnormal temperatures, no spring grains were seeded, but last year 10% of the oats and 20% of the barley was sown by this time. Oklahoma snows melted giving adequate to surplus soil moisture as wheat began greening. Texas wheat on the High and Low Plains enjoyed improved soil moisture from ice and snow. Wheat needs warmer weather for growth; possible damage from low temperatures and moisture shortages were too early to assess. New Mexico-irrigated wheat rated fair to good providing moderate grazing; dryland wheat rated fair yielding limited grazing. Arizona's early wheat headed. In the northern Great Plains, winter wheat had ample snow cover and rated good.

Arkansas wheat showed no growth. Alabama and Mississippi wheat rated poor to fair but improving. Wheat rated fair to good in the Atlantic Coastal States; farmers fertilized open fields. In the eastern north central States, wheat rated good.

OTHER CROPS: Row crop planting began in southern areas including Texas, Florida, and Georgia. Farmers planted corn and sorghum where soil temperatures warmed to safe readings. Cotton producers prepared land, but refrained from planting in cold soils.

Sugarcane harvest neared completion in Texas and Florida. Cold nipped Florida's young sugarcane but should recover.

Tobacco plants rated poor in Florida when low temperatures prevailed. Georgia tobacco plants rated fair to good. South Carolina growers seeded beds. Virginia producers prepared plant beds.

Producers in Texas and Mississippi planted Irish potatoes. In Mississippi, planting reached 13% compared with 30% last year.

FRUITS AND NUTS: Deciduous fruit growers pruned trees in most areas except the most extreme north where snow and low temperatures kept activity to a minimum. Texas and South Carolina growers set peach trees. Most pruning was finished in Washington, but just started in Oregon. California almonds and plums reached full bloom. Some table grapes began leafing out.

Florida citrus groves rated excellent with adequate soil moisture. Low temperatures lasted a short time and caused very little significant freeze damage. Harvests of oranges, grapefruit, and temples were very active. New foliage growth just started. Texas citrus harvest picked up with drier weather. Arizona grapefruit harvest was steady but limited, lemons virtually complete, and Valencias just started. California lemon and Navel orange harvests continued.

VEGETABLES: New Mexico growers planted midseason onions. Arizona producers harvested lettuce. Northern growers prepared hardy crops such as cabbage for transplants. New Jersey greenhouse vegetable transplants developed well.

A heavy frost midweek in Florida damaged foliage causing some plant loss and interrupted harvests. Adverse weather caused heavy bloom drop and poor fruit set. Shipments declined 4% from the previous week; only potatoes increased while radishes held steady. Watermelons rated poor to good depending on freeze damage; growers spot-replanted. Texas growers harvested cabbage, lettuce, carrots, spinach, cauliflower, and broccoli. Low temperatures delayed watermelon seeding. Wet fields delayed land preparation and planting schedules, but progress should improve as fields dry. California vegetable plantings and harvests increased as weather became dry and warm; harvests included asparagus, broccoli, cauliflower, and lettuce.

PASTURES AND LIVESTOCK: Only southwestern and Pacific Coast States pastures improved, exhibiting greening and growth. Grasslands in the south central States provided very little roughage. Pastures in the South Atlantic region rated poor to fair and again no growth. Elsewhere in the Nation snow and cold rendered pastures useless for now. Florida pastures again succumbed to cold, cloudy weather and considerable standing water in low areas. Heavy feeding made up for the lack of pastures. Texas livestock rated fair; warm weather improved pastures and cattle gained weight. Ranchers also fed extra hay and grain. Grazing was limited although good weather improved growth. Arizona grasslands improved; lower desert ranges greened with excellent prospects for spring and summer browse. Warm weather in California spurred grass growth; supplemental feeding declined.

Snows in some northern areas plagued farmers trying to deliver feed to stranded cattle. Losses of mature cattle and newborn will be unknown until the spring thaw. Feed demand was heavy in northern areas but supplies were adequate.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Feb. 26, 1978

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	37	-11	T	-1.4	LA. Baton Rouge . . .	48	-7	.4	-.8	Youngstown . . .	18	-10	.2	-.4
Mobile . . .	46	-9	.2	-1.1	Lake Charles . . .	49	-7	T	-1.1	OKLA. Okla. City . . .	37	-6	.1	-.3
Montgomery . . .	43	-9	.2	-1.0	New Orleans . . .	46	-11	T	-1.3	Tulsa . . .	36	-7	.1	-.4
ALASKA. Anchorage . . .	35	+16	T	-.2	Shreveport . . .	43	-9	0	-.9	OREG. Astoria . . .	48	+4	1.6	-.3
Barrow . . .	6	+13	.1	+.1	MAINE. Caribou . . .	18	+3	T	-.5	Burns . . .	35	+2	T	-.3
Fairbanks . . .	32	+3	.2	-.6	Portland . . .	23	-2	T	-.9	Medford . . .	49	+6	T	-.5
Juneau . . .	32	+3	.2	-.6	MD. Baltimore . . .	30	-6	T	-.8	Pendleton . . .	38	-3	1.0	+.8
Kodiak . . .	26	+21	.3	+.1	MASS. Boston . . .	30	-2	0	-.9	Portland . . .	46	+2	.6	-.3
Nome . . .	34	+3	0	-.2	Chatham . . .	29	-2	0	-.9	Salem . . .	49	+5	.4	-.7
ARIZ. Flagstaff . . .	62	+6	0	-.2	MICH. Alpena . . .	17	-2	.2	-.2	PA. Allentown . . .	25	-6	T	-.7
Phoenix . . .	57	+3	0	-.2	Detroit . . .	18	-10	.2	-.3	Erie . . .	18	-8	.2	-.4
Tucson . . .	43	+2	0	-.1	Flint . . .	17	-8	.2	-.2	Harrisburg . . .	24	-10	T	-.6
Yuma . . .	63	+2	0	-.1	Grand Rapids . . .	18	-8	.1	-.3	Philadelphia . . .	27	-8	T	-.7
ARK. Fort Smith . . .	35	-10	.1	-.7	Houghton Lake . . .	14	-5	.2	-.1	Pittsburgh . . .	23	-8	.1	-.5
Little Rock . . .	38	-6	T	-1.2	Lansing . . .	15	-10	.1	-.3	Scranton . . .	21	-8	.1	-.4
CALIF. Bakersfield . . .	58	+4	0	-.2	Marquette . . .	21	0	.3	-.1	R.I. Providence . . .	25	-6	0	-.9
Eureka . . .	50	+1	.2	-1.0	Muskegon . . .	20	-6	.2	-.2	S.C. Charleston . . .	44	-8	T	-.9
Fresno . . .	56	+5	T	-.4	S. Ste. Marie . . .	15	-2	.1	-.3	Columbia . . .	40	-9	T	-1.0
Los Angeles . . .	63	+4	.1	-.6	MINN. Duluth . . .	16	+2	.2	0	Greenville . . .	37	-9	T	-1.2
Red Bluff . . .	57	+6	1	-.6	Internat'l Falls . . .	11	+1	.1	-.1	S.D. Aberdeen . . .	11	-7	T	-.2
San Diego . . .	61	+4	0	-.4	Minneapolis . . .	18	-1	T	-.3	Huron . . .	12	-8	.1	-.1
San Francisco . . .	55	+3	T	-.7	Rochester . . .	13	-6	.1	-.1	Rapid City . . .	25	-2	T	-.1
Stockton . . .	55	+5	T	-.5	St. Cloud . . .	17	+1	.1	-.1	Sioux Falls . . .	15	-7	.1	-.2
COLO. Denver . . .	39	+5	T	-.2	MISS. Jackson . . .	41	-10	.2	-1.0	TENN. Chattanooga . . .	37	-7	.1	-1.2
Grand Junction . . .	39	+3	T	-.2	Meridian . . .	39	-12	.3	-1.0	Knoxville . . .	34	-10	.3	-.9
Pueblo . . .	38	+2	T	-.1	MO. Columbia . . .	23	-12	.1	-.3	Memphis . . .	39	-6	.2	-1.0
CONN. Bridgeport . . .	24	-8	0	-.7	Kansas City . . .	22	-13	.1	-.3	Nashville . . .	31	-12	.6	-.5
Hartford . . .	24	-4	T	-.8	St. Louis . . .	18	-19	.1	-.5	TEX. Abilene . . .	45	-4	0	-.2
D.C. Washington . . .	34	-5	T	-.7	Springfield . . .	23	-16	.1	-.5	Amarillo . . .	36	-5	0	-.1
FLA. Apalachicola . . .	46	-11	T	-1.0	MONT. Billings . . .	26	-3	.5	+.3	Austin . . .	51	-4	T	-.7
Daytona Beach . . .	50	-10	.1	-.7	Glasgow . . .	18	0	T	-.1	Beaumont . . .	52	-4	0	-1.0
Ft. Myers . . .	52	-13	.2	-.4	Great Falls . . .	27	-1	.1	-.1	Brownsville . . .	59	-5	.1	-.2
Jacksonville . . .	48	-9	T	-.9	Havre . . .	26	+6	T	-.1	Corpus Christi . . .	56	-5	T	-.5
Key West . . .	59	-13	.2	-.2	Helena . . .	32	+5	.1	0	Dallas . . .	54	-4	T	-.2
Lakeland . . .	52	-11	.3	-.4	Kalispell . . .	30	+3	T	-.2	Del Rio . . .	49	-1	T	-.1
Miami . . .	57	-11	.4	-.1	Miles City . . .	23	-1	T	-.1	El Paso . . .	54	-6	0	-.6
Orlando . . .	51	-11	.3	-.5	Missoula . . .	33	+4	.1	0	Fort Worth . . .	44	-6	0	-.6
Tallahassee . . .	44	-12	T	-1.3	NEBR. Grand Island . . .	24	-6	T	-.2	Galveston . . .	51	-8	0	-.9
Tampa . . .	50	-13	.4	-.4	Lincoln . . .	21	-9	.1	-.2	Houston . . .	49	-8	0	-.9
W. Palm Beach . . .	56	-11	.3	-.2	Norfolk . . .	19	-7	.1	-.1	Lubbock . . .	39	-5	0	-.1
GA. Atlanta . . .	39	-7	T	-1.2	N. Platte . . .	24	-6	.1	0	Midland . . .	48	-1	0	-.2
Augusta . . .	41	-9	0	-1.0	Omaha . . .	19	-9	.1	-.2	San Angelo . . .	51	-5	0	-.5
Macon . . .	44	-8	T	-1.2	Valentine . . .	19	-7	T	-.1	San Antonio . . .	54	-4	0	-.6
Savannah . . .	45	-8	T	-.8	NEV. Ely . . .	35	+6	0	-.2	Victoria . . .	48	-4	0	-.6
HAWAII. Hilo . . .	73	+2	1.7	-1.8	Las Vegas . . .	56	+5	0	-.1	Waco . . .	48	-4	0	-.6
Honolulu . . .	71	-2	.4	-.2	Reno . . .	43	+5	0	-.2	Wichita Falls . . .	44	-3	0	-.3
Kahului . . .	72	0	0	-.6	Winnemucca . . .	42	+6	T	-.2	UTAH. Blanding . . .	48	+3	0	-.2
Lihue . . .	71	-1	T	-1.0	N.H. Concord . . .	16	-8	0	-.6	Salt Lake City . . .	15	-5	T	-.3
IDAHO. Boise . . .	41	+4	T	-.3	N.J. Atlantic City . . .	26	-9	0	-.9	VT. Burlington . . .	33	-6	.2	-.6
Lewiston . . .	43	+3	.5	+.3	Trenton . . .	28	-7	T	-.7	VA. Lynchburg . . .	36	-6	.1	-.7
Pocatello . . .	37	+6	T	-.2	N.MEX. Albuquerque . . .	43	+1	0	-.1	Norfolk . . .	36	-6	T	-.8
ILL. Cairo . . .	30	-11	T	-1.0	Roswell . . .	22	-3	T	-.6	Ronoke . . .	34	-7	T	-.8
Chicago . . .	21	-8	T	-.4	N.Y. Albany . . .	17	-9	.1	-.5	WASH. Colville . . .	33	0	T	-.3
Moline . . .	18	-10	T	-.4	Binghamton . . .	17	-9	.5	-.1	Omak . . .	37	+4	T	-.3
Peoria . . .	19	-11	T	-.4	Buffalo . . .	29	-5	T	-.8	Quillayute . . .	45	+3	.8	-2.1
Rockford . . .	17	-11	.1	-.3	New York . . .	18	-8	.4	-.2	Seattle-Tacoma . . .	47	+4	.8	-.2
Springfield . . .	25	-11	T	-.5	Rochester . . .	21	-5	.3	-.4	Spokane . . .	36	+2	.2	-.2
IND. Evansville . . .	17	-12	T	-.5	Syracuse . . .	33	-7	.2	-.8	Walla Walla . . .	41	-1	.7	+.4
Ft. Wayne . . .	17	-12	T	-.5	N.C. Asheville . . .	37	-8	T	-1.0	Yakima . . .	41	+3	.3	+.2
Indianapolis . . .	23	-9	T	-.6	Charlotte . . .	34	-8	.1	-.8	W.Va. Beckley . . .	22	-11	.1	-.8
South Bend . . .	19	-9	.2	-.3	Greensboro . . .	36	-11	.5	-.5	Charleston . . .	26	-12	.2	-.6
IOWA. Burlington . . .	20	-9	T	-.4	Hatteras . . .	34	-9	.5	-.3	Huntington . . .	26	-11	.1	-.7
Des Moines . . .	18	-8	.3	0	Raleigh . . .	40	-9	T	-.9	Parkersburg . . .	24	-12	T	-.7
Dubuque . . .	16	-8	.2	-.2	Wilmington . . .	17	+1	.1	0	WIS. Green Bay . . .	17	-3	.1	-.2
Sioux City . . .	16	-10	.1	-.2	N.DAK. Bismarck . . .	11	-3	.1	0	La Crosse . . .	18	-4	.1	-.2
KANS. Concordia . . .	27	-6	T	-.3	Fargo . . .	18	+1	.1	0	Madison . . .	18	-4	T	-.3
Dodge City . . .	28	-9	.2	0	Williston . . .	19	-10	.2	-.4	Milwaukee . . .	20	-4	.1	-.2
Goodland . . .	29	-4	T	-.1	OHIO. Akron-Canton . . .	19	-10	.2	-.4	WYO. Casper . . .	29	+1	.1	0
Topeka . . .	26	-9	T	-.3	Cincinnati . . .	21	-14	.1	-.7	Cheyenne . . .	33	+3	.1	0
Wichita . . .	31	-7	T	-.3	Cleveland . . .	20	-9	.1	-.5	Lander . . .	29	+2	.1	-.1
KY. Lexington . . .	24	-13	0	-.9	Columbus . . .	20	-12	.1	-.5	Sheridan . . .	27	0	.1	-.1
Louisville . . .	27	-10	.1	-.8	Dayton . . .	21	-11	T	-.6	P.R. San Juan . . .	80	+4	.5	-.1
					Toledo . . .	15	-14	.1	-.4					

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: Cold weather yielded to late week warming trend. Rainfall light. Temperatures 9° below normal.

Fieldwork made fair progress. Some cotton and soybean fields harvested. Small grains poor to fair condition but improving. Livestock fair. Soil moisture adequate.

ARIZONA: Dry, mild weather, light precipitation. Temperatures normal to 6° above.

Field conditions good. Limited cotton remaining. Small grains excellent progress, early plantings heading out. Sugarbeets good growth. Alfalfa haying seasonally slow, new crop excellent growth. Harvest lettuce, other mixed vegetables steady. Later plantings growing well. Preparations resumed later spring and early summer crops. Citrus harvest steady but limited; lemons virtually complete, grapefruit steady but limited, Valencia harvest just started. Ranges statewide vast improvement, lower desert ranges substantial greening, excellent prospects spring, summer browse. Sheep on feed excellent condition, range cattle and calves generally good.

ARKANSAS: Temperatures cold early week; slightly below normal latter half of week. Highest normal 51°, lowest normal 42°. Highest mean 42°, lowest mean 31°. Extremes: 0 and 71°.

Cattle herds still on supplemental feed, no pasture. Feed supplies getting low. Some nitrogen applied to pastures. No row crop activity. No small grain growth.

CALIFORNIA: Only extreme northwest received some small precipitation; elsewhere dry. Temperatures above normal with departures of over 10° at northern mountain locations.

Warm, dry weather favorable growth field crops. Most field operations in north halted by wet ground. Planting small grains, sugarbeets active south. Cotton harvest continued, plowdown delayed by wet fields. Ground preparation active southern San Joaquin Valley. Avocado, lemon and Navel orange harvests continued. Almonds and plums full bloom. Coachella Valley table grapes leafing out. Vegetable planting and harvests increasing as weather drier and warmer. Asparagus increasing Imperial Valley, cutting started delta. Broccoli, cauliflower increasing. Lettuce decreasing Imperial Valley; increasing Palo Verde Valley. Warm weather helped grass growth. Limited supplemental feeding. Feedlots drying. Calving, lambing active.

COLORADO: Temperatures 3 to 4° below normal. Warming trend weekend brought maximum temperatures to upper 60's southeast. Precipitation light beginning and end of week; 0.33 in. northwest largest amount.

FLORIDA: Less than 0.50 in. rain fell early week. Fair, cold weather prevailed through midweek giving way to warmer temperatures weekend. Readings 10° or more below normal.

Soil moisture adequate south, ranging from adequate to excessive most other areas. Land preparation limited by cold, wet conditions. Tobacco plant beds poor. Small grain fair, fertilizing active where fields sufficiently dry. Sugarcane harvest active but nearing completion. Young cane nipped by cold but should recover.

Cold, cloudy weather prevented grass growth; considerable standing water in low areas. Weekend sunshine should improve overall pasture situation. Cattle condition poor to good but declining on very wet pastures. Supplemental feeding should continue fairly heavy for several weeks. Calving at or near peak level. Citrus grove condition excellent; moisture adequate. Very little significant freeze damage. Low temperatures short duration. New growth just starting. Harvest continues very active on oranges, grapefruit and Temples. Heavy frost midweek caused light to heavy foliage burn, some plant loss, and interrupted vegetable harvest. Adverse weather caused heavy bloom droppage, poor fruit set. Overall shipments declined 4% from previous week. Harvest most crops declined including snap beans, celery, cucumbers, eggplant, strawberries, okra, peppers, squash, tomatoes, cabbage, carrots, chinese cabbage, sweet corn, escarole, lettuce. Potatoes increased in volume while radishes held steady. Watermelon crop poor to good. Spot replanting underway.

GEORGIA: Cold; averages from 30° mountains to 47° along lower coast. Departures 10 to 25° subnormal. Rain 18th and 19th. Amounts less than 0.25 in. north to between 0.50 to 1.00 in. south. Skies mostly sunny during the 25th and 26th. Temperatures warm 25th but cooled considerably 26th.

Soil moisture adequate north and southwest, adequate to excessive east and central. Land preparation beginning north, active elsewhere. Corn planting underway southwest. Tobacco plants in fair to good condition. Small grains fair north, good elsewhere. Pastures poor north, fair elsewhere. Cattle fair to good condition.

HAWAII: Weather continued variable. Kona, south Kohala, south point Island Hawaii still dry; adversely affecting orchards and pastures. Beneficial showers 22d Pahala, Naalehu areas easing drought conditions for sugar and pastures. Water level some reservoirs low. Hauling irrigation water some areas. Most plantings fair to good where irrigated. Vegetable supplies: Cucumbers, romaine, head lettuce, sweetpotatoes light, others moderate to heavy. Banana, papaya supplies light. Pineapple, sugar slack.

IDAHO: Temperatures 1 to 6° above normal except Magic Valley and Upper Snake River plains which were normal to 5° below normal. Extremes: 57 and -4°. Precipitation 0.15 to 0.35 in. below normal.

Farm activities: Marketing and getting ready for spring. Calving and lambing making good progress with few problems. Feed supplies adequate.

ILLINOIS: Temperatures 8 to 13° below normal; 7th straight week. Above freezing most areas midweek, first time in 40 days some sections. Precipitation most areas less than 0.10 in.; snow 1 in. northern two-thirds 22d.

Winter wheat mostly good. Some livestock stress due to cold, feed consumption still up. Soil moisture adequate to surplus.

INDIANA: Fair and cold. Temperatures 10° below normal and ranged from 42 to -7°. Precipitation 0.05 in. except 0.20 near Lake Michigan. Snow-cover 10 to 15 in. north central and northeast, 2 to 5 in. elsewhere.

No fieldwork. Major activities: Equipment maintenance, snow removal, caring for livestock and chores.

IOWA: Temperatures 7 to 10° subnormal. Temperatures rose above freezing in most south and west localities 23d; statewide 24th for first time since January 7th and since before Christmas in northwest. Precipitation light, falling mostly as snow with some freezing drizzle. Snow depths vary from 3 to 9 in.

KANSAS: Moisture light, generally 0.10 in. Temperatures ranged 27 to 30° west and north to 32° southeast, 3° below normal northwest to 6 to 9° below normal elsewhere.

Warming trend provided relief from cold. Melting snow provided temporary topsoil moisture. Frozen ground may limit subsoil infiltration. Light wind damage western two-thirds. Wheat condition unchanged, rated good to excellent. No oats or spring barley seeded; 10% oats, 20% barley seeded last year. New born calf losses heavier than normal. Heavy supplemental feeding livestock.

KENTUCKY: Temperatures 10 to 20° below normals except slight warming trend toward weekend. By 25th and 26th highs in 30's and 40's, lows in 20's. One to two additional inches of snowfall totaling 1 to 2 in. 22d, 23d and 24th.

Demand for hay and other supplemental feed continues heavy. Some farmers running short of hay and supply in certain areas becoming limited. Livestock losses above normal due to continued cold. Farmwork at lull.

LOUISIANA: Temperatures 8 to 12° below normal. Extremes: 75 and 13°. Showers 25th and 26th over east.

Farm activities: Care and feeding of livestock and limited land preparation.

MARYLAND & DELAWARE: Temperatures 10° below normal. Highs in upper 30's, lows in 20's. Western areas colder. Precipitation light. Weekend sunny and mild.

Farmers confined to inside work and normal winter chores.

MICHIGAN: Temperatures over Upper from 2° above normal to 3° below normal; near normal in northwest Lower to near 10° below normal in southeast Lower. Temperatures varied between 15 and 20°. Maximum around 30° over Upper and low to mid-30's across most of Lower. Minimum around zero to -20° over Upper and from -5° northern Lower to near -10° central and southern Lower. Colder temperatures beginning of week; warmer toward weekend. Most precipitation fell in northwest Upper, northwest Lower, and eastern Lower amounting to 0.20 to 0.25 in. with lesser amounts elsewhere. Snow depths ranged from 15 to 25 in. over Upper as well as northern Lower and from 10 to 15 in. over southern Lower.

Main farm activities: Feeding livestock and farm chores.

MINNESOTA: Temperatures normal to 5° below normal west and south to 3° above normal extreme northeast. Extremes: -13 and 39°. Precipitation near normal north and from normal to 0.20 in. below normal south. Totals ranged from 0.10 to 0.35 in. New snowfall from 1 to 2 in. west and south and from 2 to 4 in. extreme north central. Snow depth 20 to 25 in. north central; 10 to 18 in. northeast and 5 to 10 in. elsewhere.

MISSISSIPPI: Temperatures 11 to 20° below normal. Extremes: 6 and 69°.

Soil moisture adequate to surplus. Fieldwork: 2.9 days suitable. Acreage plowed 13%, 34% 1977, 19% average. Irish potatoes 13% planted, 30% 1977. Winter wheat and oats in poor to fair condition. Livestock in fair to poor condition. Hay and roughage supplies adequate to short. Feed grain supplies mostly short.

MISSOURI: Temperatures ranged from 12° below normal west to 17° below normal Bootheel. Temperatures below 0° early week, reached 50's and 60's in south 25th. Precipitation ranged between 0.10 to 0.20 in., except 0.31 in. in east Ozarks. Snow cover averaged less than 1 in. in south and 3 to 9 in. in central and north.

MONTANA: Week started warm and dry with considerable melting but ended cool with light precipitation. Temperatures 1 to 5° above normal west and northeast; 1 to 5° below elsewhere. Precipitation light except heavy south central and southwest. Snowcover 5 to 10 in. over Plains with lesser amounts west and southwest valleys.

Winter wheat condition good with good to excellent snowcover. Livestock condition fair to good; losses heavier than normal except in west. Feeding difficult in east due to ice and deep snow. Lambing and calving 15% complete.

NEBRASKA: South central no precipitation; elsewhere light snow. Temperatures 5 to 10° below normal.

NEVADA: Fair, mild weather prevailed. No measurable precipitation. Temperatures 6° above normal. Extremes: 74 and 0°.

Mild weather easy on winter grains. Calving and lambing gaining momentum.

NEW ENGLAND: Hardly any precipitation; light flurries mostly over north 22d and 26th. High temperatures near normal except somewhat below on 20th and 21st. Lows 5 to 10° below normal first half; about normal last half.

NEW JERSEY: Temperatures 9 to 13° below normal averaging 20° north, 25° south, and 27° coastal. Extremes: -12 and 46°. Precipitation well below normal averaging 0.02 in. north, trace south, and none coastal.

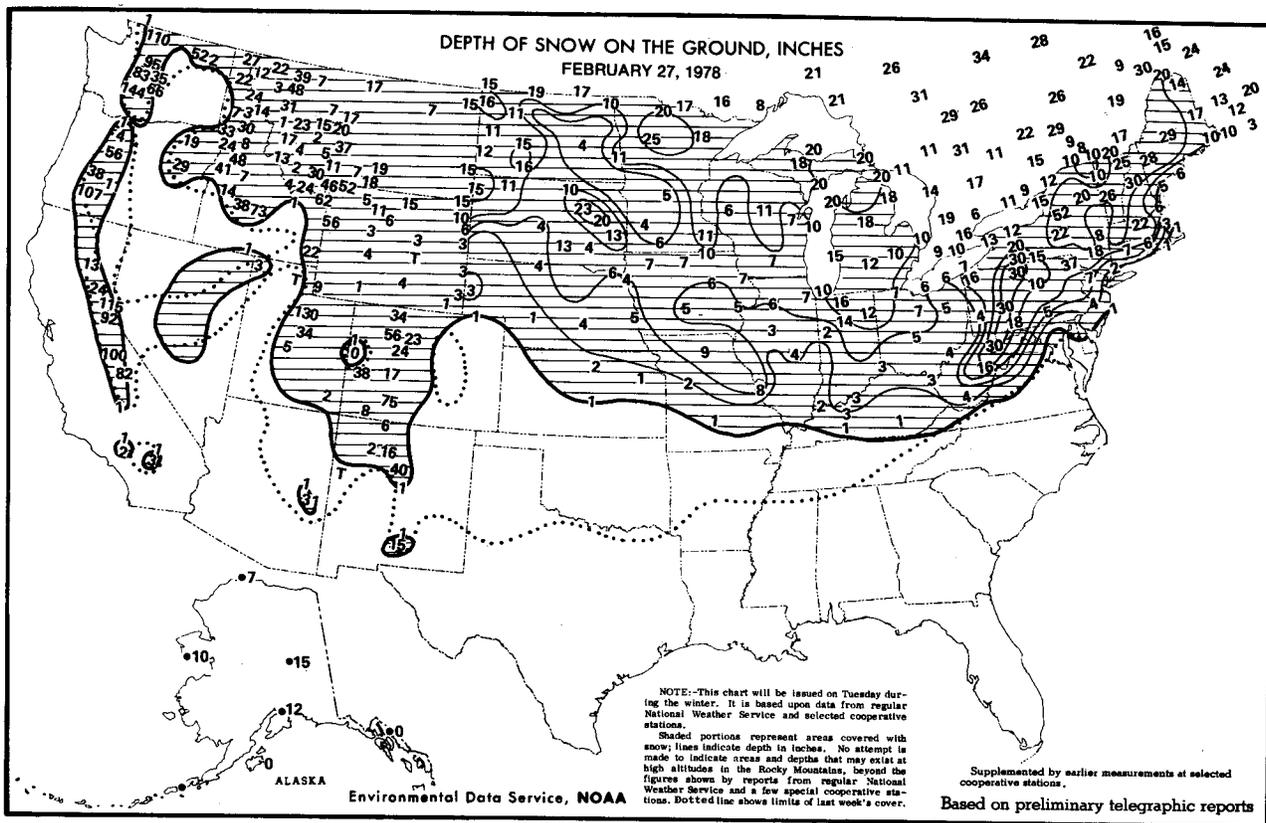
Snow cover statewide. Farmwork mostly limited to routine chores on livestock farms. Early vegetable plants developing well in greenhouses.

NEW MEXICO: Dry and mostly sunny. Cold beginning of week with gradual warming till well above normal temperatures by weekend.

Planting mid-season onion transplants continued Mesilla Valley. Irrigated winter wheat, fair to good condition with moderate grazing. Dryland winter wheat, fair with limited grazing. Irrigated winter barley fair to good with moderate to heavy grazing. Ranges fair with supplemental feeding. Livestock good with calving, lambing, and some shearing in progress.

NEW YORK: Cool early week, midweek warming trend brought temperatures to near normal. Coldest was -26°. No significant precipitation; only late week snow flurries in central and west.

NORTH CAROLINA: Temperatures below normal. Precipitation light.



Fieldwork: 1.9 days suitable. Soil moisture adequate to surplus. Condition small grains fair; pastures poor to fair. Supplies hay, roughage and feed grains short to adequate.

NORTH DAKOTA: Warmer weather during midweek. Most areas reached freezing mark first time since mid-December. Temperatures ranged from 43° southwest to -19° north central. Precipitation occurred as frequent light snow. Most significant amounts 22d through 24th. Precipitation northeast ranged from 0.37 in. to 0.25 in. Light snow 24th accompanied by strong northwest winds that caused ground blizzard conditions east.

Feeding livestock a big problem especially in southwest. The storm on 24th made travel very difficult as snow and freezing rain made roads extremely slick and visibility poor. It is unknown what effect winter will have on calving and lambing. Many farmers and ranchers will not know full extent of losses until spring thaw.

OHIO: Cold, below normal temperatures continued with light snow 22d through 26th.

Fresh market cabbage plants being readied for transplant as soon as weather permits in southeast. Very slow snow melt appreciated by farmers.

OKLAHOMA: Temperatures 5 to 6° below normal across south and 8 to 10° below normal north. Precipitation very light ranging from trace Panhandle, southwest, and south central to 0.06 in. east central.

Topsoil and subsoil moisture supplies adequate to surplus. Most snow melted. Wheat beginning to green. Livestock fair condition. Hay supplies remain adequate. Spring cultivation may begin next week if dry weather prevails.

OREGON: Rainfall light; coastal stations reported 0.30 to 0.70 in. Rainfall ranged from 0.20 to 0.40 in. north central but generally less than 0.10 in. elsewhere. Temperatures from near to 5° above normal. Extremes: low 70's, high 30's west; low 60's, mid-teens east.

Farm activity picked up as fields dried. Spraying and fertilizing grain fields underway as conditions permit. Orchard pruning starting, dormant sprays being applied. Training berries. Calving and lambing continue. Feeding continues; supply good. Pastures showing good growth. Livestock in excellent shape.

PENNSYLVANIA: Mostly sunny skies; temperature departures 8 to 12° or more below normal. Extremes: 45 and -18°. Precipitation as snow flurries from 0.25 in. northwest mountains to only traces southeast. Snow depths decreased slowly but still measure 6 to 18 in. with 24 to 30 in. northern mountains.

Farmers doing normal winter chores.

PUERTO RICO: Island rainfall 0.52 in. or 0.12 in. below normal. Temperatures about 77° on coasts and 71° interior. Extremes: 92 and 50°.

SOUTH CAROLINA: Temperatures much below normal but sharp rise end of week. Extremes: 36 and 71°. Precipitation as scattered snow 21st with 0.50 to 1.00 in.

Nearly all tobacco beds seeded. Activities: Harvesting greens, preparing land for spring vegetables and crops, pruning and setting peach trees.

SOUTH DAKOTA: Temperatures 4 to 10° below normal northeast to 4° above normal southwest. Warming

trend 20th, reaching 30's east and 40's west by midweek. Extremes: -15 and 55°. Drifting snow early week blocked secondary roads north central and northeast. Precipitation generally less than 0.10 in.

TENNESSEE: Light rain or snow first half of week. Precipitation between 0.25 to 0.75 in. Temperatures 6 to 13° below normal. Highs in upper 30's to upper 40's and lows ranged upper teens to low 20's.

Farm activities: General chores and livestock care.

TEXAS: Moisture, sunshine, warm weather improved conditions.

Small grains began greening many areas with continued warm weather growth rate should accelerate. Field preparations active south, some limited planting sorghum, corn Lower Valley. Wheat High, Low Plains should benefit from moisture provided by remaining snow, ice. Still too early to tell extent freeze damage or damage from moisture shortages. Continued warmer weather needed to provide additional growth, improve grazing. Oats making fair progress; have benefited from recent moisture, warm weather. Greenbugs reported Low Plains, Cross-Timbers. Fertilizer applied some areas. Flax south central needs moisture. Sugarcane harvest active. Cotton producers Coastal Bend preparing land, applying fertilizers. Lower Valley producers waiting for dry fields, higher soil temperatures before planting. Plantings underway next week if weather conditions remain favorable. Sorghum planting beginning Lower Valley, Coastal Bend, should accelerate next week. Planting to begin south central when soil temperature rises. Corn planting begun on limited scale Lower Valley, South, Coastal Bend. Citrus harvest picked up with drier weather. Cabbage, lettuce, carrot, spinach, cauliflower, broccoli harvest continues. Watermelon planting resumed, delayed by cold temperatures. Land preparation and planting behind schedule; should pick up as fields dry. Potato planting behind schedule: few fields planted where conditions permit. Peach trees from Winter-Garden southward blooming; some freeze damage in Winter-Garden. Pecan growers applying dormant oil spray.

Livestock fair condition. Some weight loss most areas should improve with warm weather. Ranchers feeding large amounts hay many areas supplies running short. Recent good weather improved growth pastures, grazing still limited. Lambing, calving, kidding continue. Goat, lamb shearing in progress.

UTAH: Fair and mild except moving into northwest. Temperatures above normal north and west but below normal southeast.

Farm activities: Feeding and caring for livestock; marketing onions, potatoes and apples. Livestock on ranges in good condition. Some farm flock early lambing.

VIRGINIA: Temperatures 10° below normal; ranging 5° below normal north and 12 to 15° below normal southwest. Precipitation less than 0.25 in. Some snow except central where light rain occurred.

Topsoil moisture mostly adequate to surplus. Feed and forage supplies short to adequate. Livestock thin; births increasing. Unfavorable weather made care for young difficult. Death losses greater than normal. Winter grains and grazing crops mostly good. Fieldwork: 0.9 days suitable. Activities: Fertilizing small grains; plowing began but limited by frozen ground; pruning orchards; limited tobacco plant bed preparation.

WASHINGTON: West: Temperatures 5 to 7° above normal except 3° above normal in west Cascades. Precipitation below normal from 0.30 in. northeast Olympic-San Juans to 1.80 to 2.00 on coastal and mountain areas.

No visible freeze damage on raspberries or strawberries.

East: Temperatures 2° above normal except 3 to 4° above in northeast and Palouse-Blue Mountains. Precipitation 0.10 to 0.30 in. subnormal except 0.40 in. below normal in northeast and 0.60 in. below in eastern Cascades.

Most orchard pruning complete; in clean up stages now. Plowing and fertilizing beginning. Lambing and calving in full swing.

WEST VIRGINIA: Temperatures and precipitation well below normal.

Soil moisture mostly adequate. Snow slowly melting. Hay, grain and other supplies mostly adequate. Chilled calves and scours in some herds.

WISCONSIN: Temperatures below normal except brief warming after midweek. Highs in 20's until 23d when reached 30's. Above freezing 24th for first time in 7 weeks. Low temperatures near zero or below until 24th when in double digits. Extremes: 36 and -22°. Light snow 22d, but less than 1 in. More widespread snow 24th, with 3 to 6 in. north, 1 to 3 in. central, dusting south. Snow depths declined slightly during warmer weather but still exceed 6 in. Frost penetration increased, averaging 16 in.

WYOMING: Maximum temperatures ranged from mid-30's to mid-50's but generally below normal. Precipitation recorded at most stations.

Snow cover good for winter wheat but placed continued stress on livestock; weights and health difficult to maintain.

World Weather and Crop Update

February 20 - 26

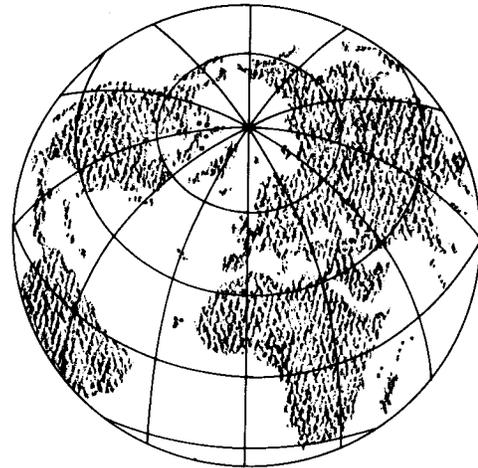
USSR. Extremely cold temperatures moderated to well above normal over the weekend of February 25-26. Despite early-week readings that neared or exceeded -20°C ., damage to winter grains was probably minimal because most of the important areas enjoyed generally good protection under an adequate snow cover. Krasnodar in the North Caucasus recorded -18°C ., but dormant wheat plants in this southern region nestled under an ample blanket of snow.

ASIA. Temperatures rose well above normal in the People's Republic of China, especially in the northern wheat areas. Precipitation stayed mainly to the extreme south in Kwangtung and Fukien provinces where moisture helped winter vegetables, wheat, and green manure crops. India reported little rain except for isolated moderate showers in the south central region.

AUSTRALIA. Moderate rainfall generally covered western Australia, and scattered light showers dotted Queensland and northern New South Wales. But rainfall was insignificant in the remainder of Australia's main agricultural areas. Tropical activity brought heavy moisture into the northern regions.

AFRICA. In North Africa, rains brought moderate to heavy amounts of moisture to Morocco, but only scattered light showers fell in Algeria and Tunisia. Light to moderate, locally heavy, showers dampened much of the Orange Free State and the Transvaal, the heart of South Africa's principal grain area.

EUROPE. Cold weather prevailed in western Europe early last week, but temperatures had moderated by the end of the period. Heavy rains fell over the French Mediterranean, northern Spain, and northern Italy. Spain's cold wave of February 11/12 brought some light damage to standing citrus as well as some almonds where trees already bloomed in the Murcia, Alicante, and

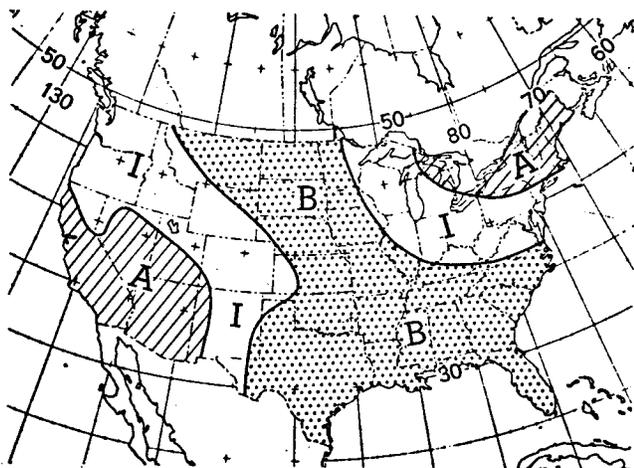


Valencia areas. Artichokes, loquats, and olives also suffered damage by freezing temperatures. The weather pattern in eastern Europe resembled that in the west. Light precipitation touched most areas, except locally heavy downpours in southern Yugoslavia.

SOUTH AMERICA. Heavy thundershowers drenched crops in Cordoba province and the western and southern sections of Buenos Aires province. Other regions in Argentina's main grain area, however, were rainless under hot, midsummer skies. In Brazil, fairly widespread rain fell in the important soybean producing state of Parana, but precipitation amounts were heavy in only a few scattered places. More rain was needed to prevent further deterioration of crops. Heavy thunderstorms fell over eastern sections of Sao Paulo, but only scattered, light showers teased other sections of this soybean state. Moderate to heavy showers were widespread over the north-eastern states as heavy rains fell along the coast.

OUTLOOK FOR SPRING AVERAGE TEMPERATURES

March through May 1978



The two categories Above and Below are to be compared to the long-term average or "normal" temperatures of the years 1941-70. Each category has a natural climatic frequency or probability of 50%. Each carries a 60% probability of occurring where forecast (shaded area), based on the verification scores of nineteen years of experimental seasonal predictions.

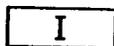
NOAA, National Weather Service
Long Range Prediction Group



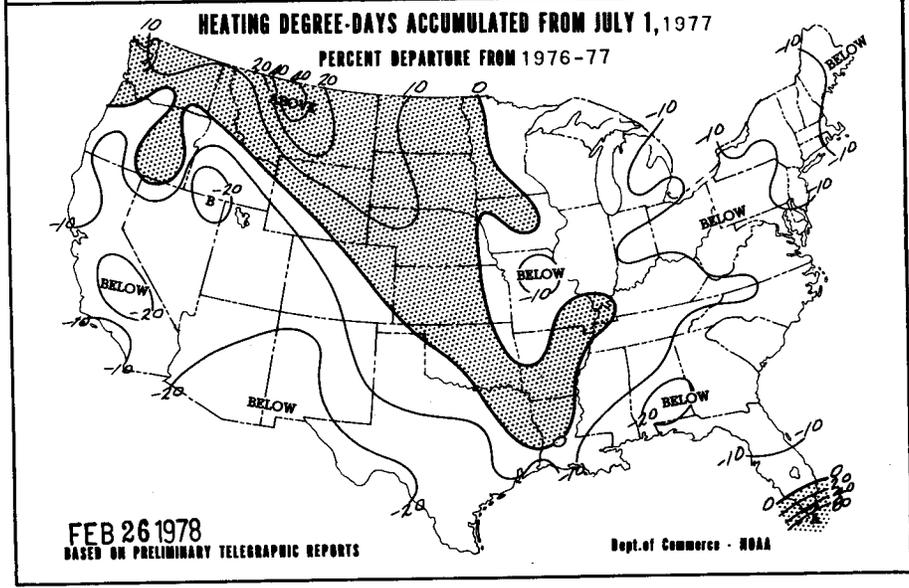
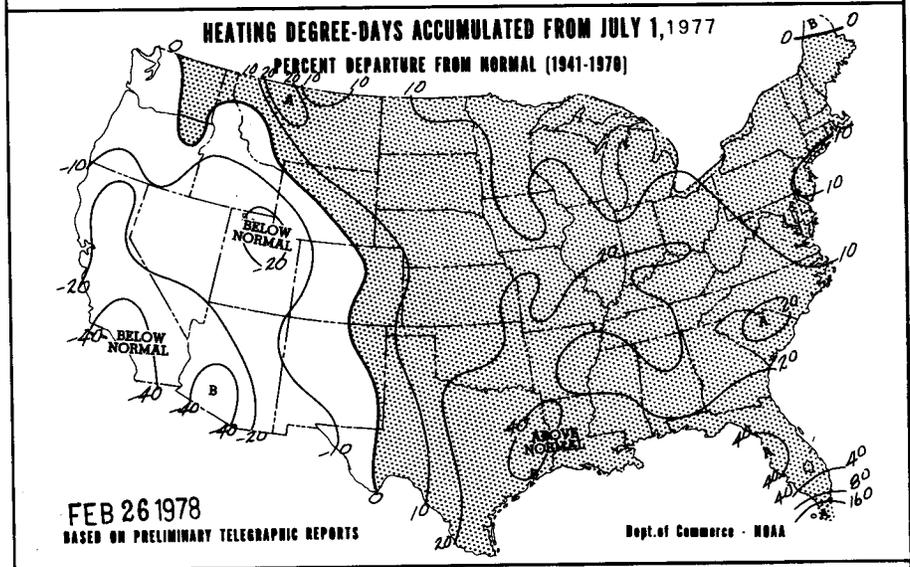
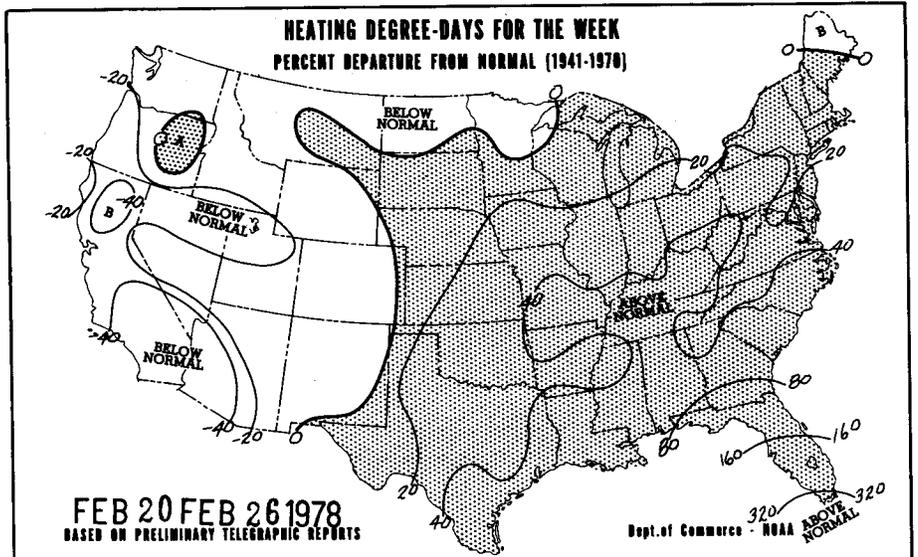
Above Normal, 60% chance of occurrence



Below Normal, 60% chance of occurrence



Indeterminate, 50% chance of Above Normal
50% chance of Below Normal



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 26, 1978.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			
	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77		TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	
														STATES AND STATIONS
ALA. BIRMINGHAM... 190	66	2790	504	323	MAINE CARIBOU... 227	23	6654	109	900	YOUNGSTOWN... 324	66	5043	426	845
MOBILE... 1916	513	1916	251	MD. BALTIMORE... 243	41	3740	205	440	OKLA. OKLAHOMA CITY... 196	41	3422	517	79	
HONTGOMERY... 1531	495	1531	661	MASS. BOSTON... 247	14	3967	19	479	TULSA... 203	47	3485	577	4	
ARIZ. FLAGSTAFF... 209	22	209	913	DETOIT... 251	19	3985	20	528	OREG. ASTORIA... 118	29	3267	182	143	
PHOENIX... 1541	22	1541	538	MICH. ALPENA... 251	19	3985	20	528	BURNS... 118	29	3267	182	143	
TUCSON... 1541	22	1541	538	FLINT... 251	19	3985	20	528	WEDFORD... 118	29	3267	182	143	
WINSLON... 1541	22	1541	538	GRAND RAPIDS... 251	19	3985	20	528	PENDLETON... 118	29	3267	182	143	
YUMA... 1541	22	1541	538	HUGHTON LAKE... 251	19	3985	20	528	PORTLAND... 118	29	3267	182	143	
ARK. FORT SMITH... 20	20	3224	61	LANSING... 251	19	3985	20	528	SALEM... 118	29	3267	182	143	
LITTLE ROCK... 20	20	3176	49	MARQUETTE... 251	19	3985	20	528	PA. ALLENTOWN... 224	44	4468	205	425	
CALIF. BAKERSFIELD... 4	4	938	797	MUSKOGEE... 251	19	3985	20	528	BERK... 224	44	4468	205	425	
EUREKA... 4	4	267	414	S. STE. MARIE... 251	19	3985	20	528	HARRISBURG... 224	44	4468	205	425	
FRESNO... 4	4	1497	414	MINN. DULUTH... 339	15	7252	351	472	PHILADELPHIA... 224	44	4468	205	425	
LOS ANGELES... 4	4	1497	414	INTERNATL FALLS... 339	15	7252	351	472	PITTSBURGH... 224	44	4468	205	425	
RED BLUFF... 4	4	1497	414	MINNEAPOLIS... 339	15	7252	351	472	SCRANTON... 224	44	4468	205	425	
SAN DIEGO... 4	4	1497	414	ROCHESTER... 339	15	7252	351	472	R. I. PROVIDENCE... 275	54	4417	208	550	
SAN FRANCISCO... 4	4	1497	414	ST. CLOUD... 339	15	7252	351	472	S. C. CHARLESTON... 275	54	4417	208	550	
STOCKTON... 4	4	1497	414	MISS. JACKSON... 168	66	2470	591	174	COLUMBIA... 275	54	1996	250	388	
COLO. DENVER... 182	32	4129	99	MERIDIAN... 178	76	2321	359	497	GREENVILLE... 275	54	2665	554	115	
GRAND JUNCTION... 182	32	4129	99	MO. COLUMBIA... 290	83	4451	603	553	S. DAK. ABERDEEN... 378	49	6910	830	606	
PUEBLO... 182	32	4129	99	KANSAS CITY... 290	83	4451	603	553	HURON... 378	49	7164	830	606	
CONN. BRIDGEPORT... 270	39	3979	169	ST. LOUIS... 290	83	4451	603	553	RAPID CITY... 378	49	6684	792	250	
HARTFORD... 270	39	4664	64	SPRINGFIELD... 276	91	4146	664	194	SIoux FALLS... 378	49	5910	774	606	
DEL. WILMINGTON... 277	68	4052	404	MONT. BILLINGS... 276	91	4146	664	194	TENN. CHATTANOOGA... 198	51	3193	427	363	
D. C. WASHINGTON... 211	26	3303	96	GLASGOW... 276	91	4146	664	194	KNOXVILLE... 198	51	3664	530	361	
FLA. APALACHICOLA... 17	17	1572	434	GREAT FALLS... 276	91	4146	664	194	MEMPHIS... 198	51	3247	268	222	
DAVTONA BEACH... 17	17	1572	434	HAYNE... 276	91	4146	664	194	NASHVILLE... 198	51	3562	655	295	
JACKSONVILLE... 17	17	1572	434	HELENA... 276	91	4146	664	194	TEXAS. ABILENE... 139	30	2529	418	274	
KEY WEST... 17	17	1572	434	KALISPELL... 276	91	4146	664	194	AMARILLO... 139	30	3588	318	265	
LAKELAND... 17	17	1572	434	MILES CITY... 276	91	4146	664	194	AUSTIN... 139	30	1769	349	276	
MIAMI... 17	17	1572	434	MISSOULA... 276	91	4146	664	194	BEAUMONT... 139	30	1623	358	207	
ORLANDO... 17	17	1572	434	NEBR. GRAND ISLAND... 290	42	5314	563	333	BROWNSVILLE... 139	30	1793	179	144	
TALLAHASSEE... 17	17	1572	434	LINCOLN... 290	42	5314	563	333	CORPUS CHRISTI... 139	30	1034	295	157	
TAMPA... 17	17	1572	434	NORFOLK... 290	42	5314	563	333	DEL RIO... 139	30	1403	340	363	
NORTH PALM BEACH... 17	17	1572	434	NORTH PLATTE... 290	42	5314	563	333	FORD... 139	30	1403	340	363	
GA. ATLANTA... 183	51	2825	380	VALENTINE... 311	58	6034	840	437	GALVESTON... 139	30	1841	637	181	
AUGUSTA... 183	51	2825	380	NEV. ELV... 207	43	4674	650	586	HOUSTON... 139	30	1841	637	181	
Macon... 183	51	2825	380	LAS VEGAS... 207	43	4674	650	586	LUBBOCK... 139	30	2235	81	304	
SAVANNAH... 183	51	2825	380	RENO... 207	43	4674	650	586	MIDLAND... 139	30	2235	81	304	
IDAHO. BOISE... 168	25	3703	506	SAN ANTONIO... 207	43	4674	650	586	SAN ANTONIO... 139	30	2087	233	345	
LEWISTON... 168	25	3703	506	SAN ANTONIO... 207	43	4674	650	586	SAN ANTONIO... 139	30	1699	666	254	
POCATELLO... 168	25	3703	506	N. H. CONCORD... 340	55	5800	529	530	VICTORIA... 139	30	1422	364	218	
ILL. CAIRO... 243	78	3907	883	N. J. ATLANTIC CITY... 274	64	3846	238	751	WICHITA FALLS... 139	30	2569	533	22	
CHICAGO... 243	78	5190	693	TRENTON... 274	64	4129	497	243	UTAH. SALT LAKE CITY... 146	63	3382	957	811	
NOLINE... 243	78	5537	762	N. MEX. ALBUQUERQUE... 151	13	3048	263	760	VT. BURLINGTON... 357	45	5889	266	414	
PEORIA... 243	78	5390	832	ROSMELL... 151	13	2413	552	561	VA. LYNCHBURG... 224	44	3639	406	467	
ROCKFORD... 243	78	5944	898	N. Y. ALBANY... 299	21	5114	111	530	NORFOLK... 224	44	4592	459	464	
SPRINGFIELD... 243	78	4994	800	BINGHAMTON... 299	21	5114	111	530	RICHMOND... 224	44	4592	285	443	
IND. EVANSVILLE... 280	88	4262	702	BUFFALO... 299	21	5114	111	530	ROANOKE... 224	44	4592	537	402	
FORT WAYNE... 280	88	5285	739	NEW YORK... 299	21	5114	111	530	WASH. OQUILAYUTE... 41	20	3788	103	238	
INDIANAPOLIS... 280	88	4715	541	ROCHESTER... 299	21	5114	111	530	SEATTLE-TACOMA... 41	20	4571	451	538	
SOUTH BEND... 280	88	5148	464	SYRACUSE... 299	21	5114	111	530	SPOKANE... 41	20	5029	138	269	
IOWA. BURLINGTON... 317	68	5362	757	N. C. ASHEVILLE... 224	52	3621	416	428	HALLA HALLA... 41	20	3008	12	56	
DES MOINES... 317	68	5509	515	CHARLOTTE... 224	52	3621	416	428	YAKIMA... 41	20	4257	183	135	
DUBUQUE... 317	68	6138	778	GREENSBORO... 224	52	3621	416	428	W. VA. BECKLEY... 300	79	4580	474	662	
SIOUX CITY... 317	68	5880	685	HATTERAS... 224	52	3621	416	428	CHARLESTON... 300	79	4113	627	451	
KANS. CONCORDIA... 266	45	4844	639	RALEIGH... 224	52	3621	416	428	HUNTINGTON... 300	79	4233	423	493	
DOGGE CITY... 266	45	4223	451	WILMINGTON... 224	52	3621	416	428	PARKERSBURG... 300	79	4023	505	593	
GOODLAND... 266	45	4867	462	N. DAK. BISMARCK... 339	4	7308	717	550	WIS. GREEN BAY... 37	21	6215	397	734	
TOPERA... 266	45	4658	478	FARGO... 339	4	7308	717	550	LACROSSE... 37	21	5549	671	471	
WICHITA... 266	45	4129	533	HILLSTON... 339	4	7308	717	550	MADISON... 37	21	5561	549	471	
KY. LEXINGTON... 283	86	4232	441	OHIO. AKRON-CANTON... 318	67	5027	567	527	HILAUKEE... 37	21	5561	285	562	
LOUISVILLE... 283	86	4092	557	CINCINNATI... 318	67	5027	567	527	WYO. CASPER... 254	44	5444	221	278	
LA. BATON ROUGE... 114	39	1729	320	CLEVELAND... 318	67	5027	567	527	CHEYENNE... 254	44	5444	221	278	
LAKE CHARLES... 114	39	1737	483	COLUMBUS... 318	67	5027	567	527	LANDER... 254	44	5508	80	128	
NEW ORLEANS... 114	39	1652	422	DAYTON... 318	67	5027	567	527	SHERIDAN... 254	44	6106	711	719	
SHREVEPORT... 114	39	2526	746	TOLEDO... 318	67	5027	567	527						

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1977.



FIRST CLASS MAIL

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Average Monthly Weather Outlook

