

WEEKLY WEATHER AND CROP BULLETIN

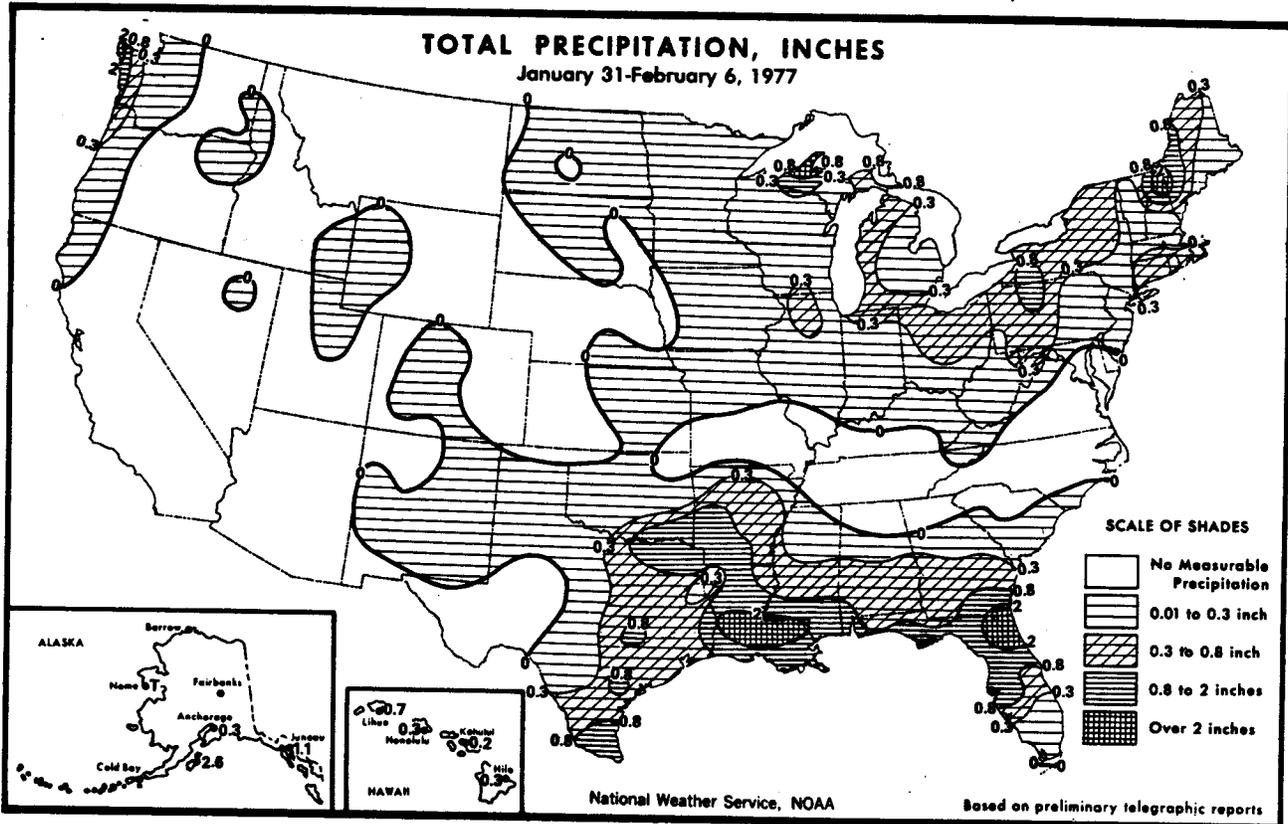
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National Weather Summary

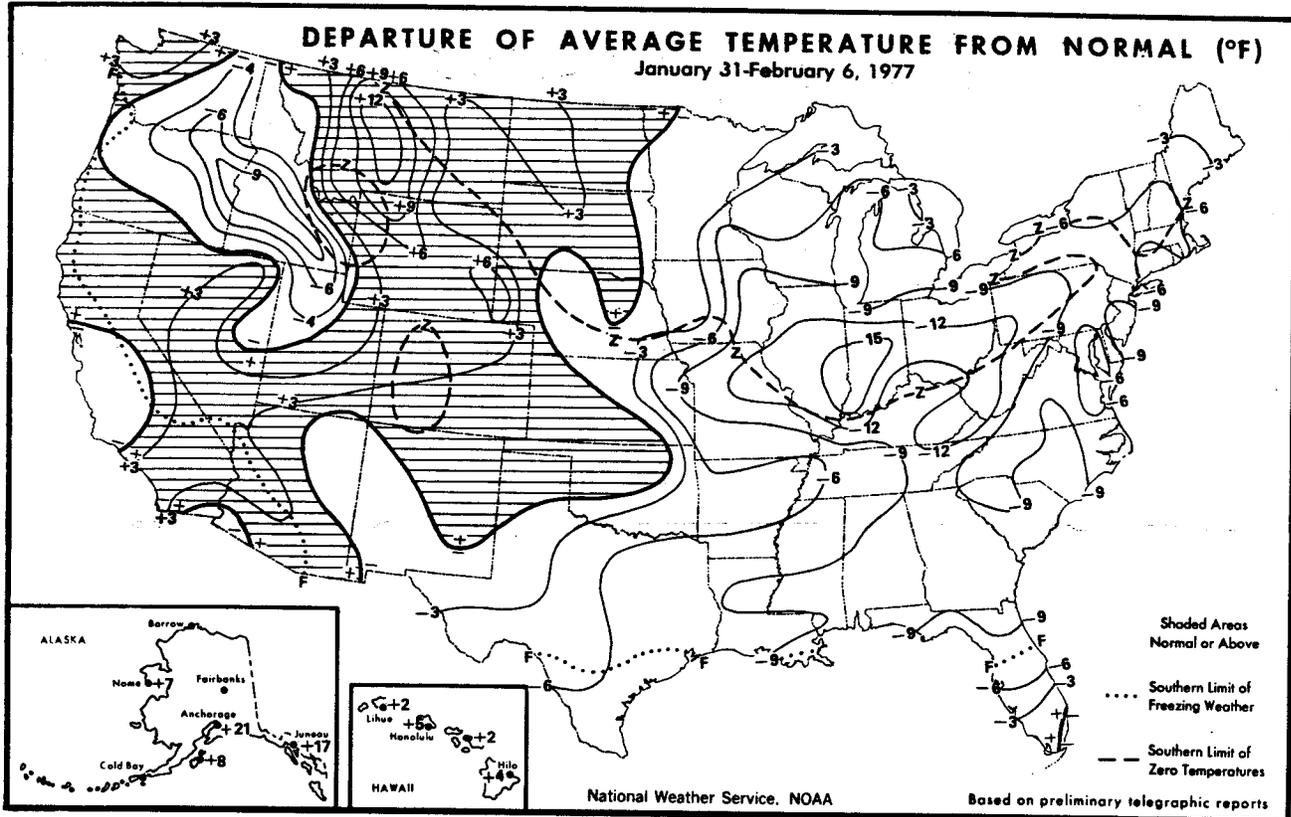
For the week of January 31-February 6

HIGHLIGHTS: Cold weather in the East continued during the week although some warming in the western portion of the central and northern Plains started. The Ohio Valley and the area south of the Great Lakes had the largest negative temperature departure from normal, averaging 12 to 15° below normal. Much of the western and northern Plains were near normal. Snow and blowing snow in the eastern Lakes area and from Ohio through New England continued early in the week but all precipitation tapered off by the end of the week. The West was still mild and dry.

Snow and freezing rain was still falling in southeastern U.S. on Monday morning but by late afternoon light rain over southern Florida was all that remained of the winter storm. Temperatures began to fall in northern Florida and the Southeast as the storm moved eastward. Elsewhere snow flurries and blowing snow continued from western

New York across northern Ohio, Indiana and parts of Michigan. There was some warming in these areas from the previous day as temperatures climbed into the teens. Light precipitation fell along the Pacific Northwest Coast but most of the west remained dry.

Snow was continuing to buffalo western New York Tuesday morning. Winds gusted to 45 mph and snow flurries continued in Buffalo, N.Y. Occasional light snow fell over the Great Lakes region but the winds began to diminish late in the day. The trend toward higher temperatures continued in the frozen parts of the Nation east of the Rockies. Although it was still cold, temperatures from the middle Mississippi and Ohio Valleys across southern New England reached into the teens and twenties. Just two days before they were hovering near the zero mark. Rain and showers were scattered from central Texas eastward along the Gulf Coast. Other precipitation in the Nation included



snow over Idaho and Utah. Salt Lake City, Utah received two inches of snow Tuesday afternoon.

A high pressure system in eastern U.S. on Wednesday caused southerly flow to warm the southern and central Plains. Some improvement was also noted across the Atlantic Coast States with readings 10 to 15° warmer than Tuesday morning. Drizzle and light rain continued in south Texas and snow fell in portions of Minnesota, North Dakota and the lower Great Lakes region. A new winter storm over the southern Rockies was beginning to make itself known. Snow fell in Colorado, New Mexico, Arizona and spread into the Texas Panhandle. The storm also brought rain, freezing drizzle and snow to eastern Kansas and parts of Missouri. Another cold front spread snow from the western Great Lakes into the north portion of the middle Mississippi Valley.

The cold front from the northern Plains moved rapidly eastward Thursday spreading snow along its way. Temperatures warmed along the East Coast until the front passed late in the day and the snowy weather returned. New snow fell from the Ohio Valley and central Appalachians northeastward into New England. The storm that originated in the Southwest weakened and only a few showers were reported along the Gulf Coast. Thunderstorms occurred in the Southeast. Dry weather continued across the western half of the Nation.

Temperatures moderated rapidly Friday and readings across much of the East reached normal values. Western U.S. remained seasonable as it had been most of the winter. However a new surge of cold air moved into the northern Plains with a strong push southward and eastward. Snow and blowing snow in the northern Plains and blowing

dust in the east central Plains marked the passage of the front at midday. The fast moving cold front swept across the Great Lakes and northern Appalachians by late Friday accompanied by snow, gusty winds and sharply falling temperatures.

The heaviest amounts of snow were being recorded from eastern Pennsylvania through eastern New England Saturday morning. Cold air continued to enter the U.S. from central Canada and kept temperatures low from the northern Plains and southern Mississippi Valley eastward. Snow also fell from Ohio southward through most of the Appalachians. The south and central Plains warmed Saturday and some parts of western Kansas reached 60° while 50's were recorded in western Nebraska, eastern Colorado and parts of Wyoming. Some light showers with snow at higher elevations occurred in the Pacific Northwest.

As the storm moved into the Atlantic from the Northeast Sunday and skies began to clear, the temperature dropped. Record low temperatures were set in many areas of the eastern portion of the Nation. Some examples were: Columbus, Ohio -11°, Madison, Wisc. -19°, Roanoke, Va. 8° and Birmingham, Ala. 17°. Frost was scattered in northern Florida. Skies cleared over the western Great Lakes but snow flurries and some blowing snow dotted the land from western New York and Pennsylvania into Ohio and Michigan. Colder air moved over the central Plains which kept the temperature in the 20's. Quite a difference from the 40's and 50's of the day before. In contrast to the excess snow in the Northeast is the serious lack of snowpack in much of the Rockies and the mountains of the far West.

National Agricultural Summary

For the Week of January 31-February 6

HIGHLIGHTS: Very little precipitation fell over the United States to alleviate the gradually worsening soil moisture supply. The only States with significant rainfall already had adequate to surplus soil moisture. These States were along the Gulf Coast. Average temperatures ranged as low as 15° below normal keeping stress on livestock and depleting forage supplies. Many areas reported very low hay stocks with some individual farmers already without supplies. Pastures in some areas of the Nation which should be providing some grazing were either too dry, frozen out earlier or only recovering from abnormally cold, wet conditions. A mild winter in some of the Mountain States allowed ranchers to let their herds graze more than usual. Small grains lacked snow cover throughout most of the major producing areas. Many fields need rainfall and some farmers irrigated where facilities were available. Farmers reported very little wind erosion in spite of no snow cover and dry soils.

SMALL GRAINS: The Nation's winter wheat crop rated poor to fair, generally unchanged from a week earlier. Dry soils limited growth in southern areas of the Great Plains and subnormal temperatures kept the crop dormant in the southeast. Snow cover receded and most of the winter wheat lay exposed to potential wind damage but very little blowing was reported. Winter wheat in the Northwest lacked snow cover and sufficient soil moisture.

The Kansas winter wheat crop was unchanged and remained in only poor to fair condition with little vegetative cover. In Oklahoma the wheat crop was also unchanged and was in fair condition. Rainfall was too light to be of any value. Some greening began in the southwest. Producers irrigated some fields in the Panhandle. Cold weather and dry soils delayed seeding spring small grains. In Texas dormant wheat on the High Plains furnished only limited grazing. Snow provided very little surface moisture and usually disappeared rapidly. Dryland stands were vulnerable to wind erosion. In New Mexico dryland winter wheat condition was poor. Irrigated fields in the south were good but only fair elsewhere.

The Montana winter wheat crop rated only poor to fair under the influence of short soil moisture. Snow protection was poor but farmers reported only light to no wind damage. In California cold, dry weather hampered small grain development and some growers replanted poor stands. Insufficient snow cover and short soil moisture concerned Washington wheat farmers. In the Southern States subnormal temperatures limited growth. The Mississippi crop was in poor condition.

OTHER CROPS: In Florida sugarcane harvest was very active. Young cane was in poor condition. Rains slowed sugarcane harvest in the Texas Lower Rio Grande Valley. In Arizona, sugarbeets were in good condition. In California growers planted sugarbeets in some areas and harvested the crop in other areas.

Subnormal temperatures kept tobacco grower preparations to a minimum. South Carolina growers prepared plant beds. In Georgia tobacco plants look poor. In Kentucky bad weather slowed tobacco marketing.

FRUITS AND NUTS: Growers pruned deciduous orchards

in South Carolina, Utah, Oregon, Washington and New Jersey. In Texas peach trees burst into bloom in the south and along the coast. Buds began swelling in central areas of Texas.

In Florida citrus trees recuperated from the freeze. Young tree defoliation started but very little wood damage was evident at this time. Early and midseason oranges started dropping. Rains interrupted the Texas citrus harvest. In Arizona growers finished the Navel and sweet orange harvests. The lemon harvest was also nearly complete and producers harvested only a limited amount of grapefruit. In California the lemon, tangerine, grapefruit and Navel orange harvests continued.

VEGETABLES: In Florida warmer temperatures benefited the growth of recently planted vegetable crops and recovery of freeze damaged crops. Pruned eggplant and green pepper plants began suckering out. Growers finished picking all the salvageable tomatoes from the freeze. A very light supply of staked tomatoes moved to market. Only a light volume of snap beans, sweet corn, cucumbers, eggplant, green peppers and squash will be available until late March. Shipments also declined for cabbage, celery, escarole-endive and radishes. Chinese cabbage supplies were steady and volume increased for carrots, strawberries and potatoes. A good volume of strawberries will reach market in March and April. Normal supplies of all vegetable crops should be available in April.

In Texas rains interrupted harvests of spinach, carrots and cabbage in the Lower Rio Grande Valley and the San Antonio-Winter Garden area. Wet conditions delayed land preparation and planting of cucumbers, melons and bell peppers in the Coastal Bend and Lower Rio Grande Valley. Texas growers planted onions and potatoes as the weather permitted. In California growers harvested artichokes, asparagus, broccoli, cabbage, carrots, cauliflower, lettuce and winter potatoes mostly from the desert valleys. Farming activity gradually increased in all vegetable areas.

PASTURE AND LIVESTOCK: Hay shortages became more critical throughout most of the Nation and some individual farmers fed the last of their supply. Snows clogged rural roads in parts of the Northeast preventing feed and milk trucks from reaching some farmers. Most livestock producers fed extra rations of feed. In those areas of the Nation that normally have grazing for cattle at this time of the year earlier freezes damaged pastures in Florida, wet and cold weather deteriorated grasslands across the south and drought curtailed California forage production. A few Mountain States had an open winter with more grazing available than normal.

In Florida winter pastures showed very little sign of recovery. Ranchers in the north areas exhausted feed supplies and ranchers in the south watched supplies dwindle rapidly. In Texas native grasses and winter pasture crops provided limited grazing. Ranchers maintained cattle condition with heavy feeding. The drought continued in California. Ranchers culled herds for lack of feed. Water supplies were far below normal.

Calving and lambing increased but cold weather exacted a heavier than normal death loss from the calf and lamb crop in the northern areas of the Nation.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., February 6, 1977

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 . . .	35	-10	.1	-1.1	La. Baton Rouge . . .	44	-8	2.3	+1.2	Youngstown . . .	15	-10	.6	0
Mobile . . .	43	-9	1.1	0	Lake Charles . . .	46	-8	1.1	+1	OKLA. Okla. City . . .	39	0	T	-.3
Montgomery . . .	35	-14	.5	-.4	New Orleans . . .	44	-10	1.6	+5	Tulsa . . .	40	+1	0	-.4
ALASKA. Anchorage . . .	36	+21	.3	+1	Shreveport . . .	41	-8	.3	-.6	OREG. Astoria . . .	45	+2	.8	-1.3
Barrow . . .	---	---	---	---	MAINE. Caribou . . .	10	-1	.3	-.2	Burns . . .	27	-1	T	-.4
Fairbanks . . .	---	---	---	---	Portland . . .	16	-5	.1	-.7	Medford . . .	40	+1	T	-.6
Juneau . . .	43	+17	1.1	+2	MD. Baltimore . . .	28	-5	T	-.6	Pendleton . . .	30	-6	.1	-.2
Kodiak . . .	39	+8	2.6	+1.3	MASS. Boston . . .	24	-5	.2	-.6	Portland . . .	39	-2	.1	0
Nome . . .	13	+7	T	.2	Chatham . . .	23	---	.6	---	Salem . . .	40	-1	T	-.1
ARIZ. Flagstaff . . .	30	+1	0	-.4	MICH. Alpena . . .	14	-3	.1	-.3	PA. Allentown . . .	22	-6	.2	-.5
Phoenix . . .	57	+4	0	-.1	Detroit . . .	18	-7	.2	-.2	Erie . . .	17	-7	.5	0
Tucson . . .	53	+1	T	-.1	Flint . . .	15	-7	.1	-.3	Harrisburg . . .	23	-8	.1	-.5
Winslow . . .	35	-1	0	-.1	Grand Rapids . . .	17	-6	.2	-.2	Philadelphia . . .	23	-9	T	-.6
Yuma . . .	57	-1	0	-.1	Houghton Lake . . .	11	-6	.1	-.2	Pittsburgh . . .	16	-12	.3	-.3
ARK. Fort Smith . . .	36	-5	.3	-.4	Lansing . . .	14	-8	.2	-.2	Scranton . . .	18	-8	.1	-.4
Little Rock . . .	39	-2	.4	-.7	Marquette . . .	14	-4	.1	-.3	R.I. Providence . . .	21	-7	.5	-.3
CALIF. Bakersfield . . .	48	-2	0	-.3	Muskegon . . .	17	-6	.3	-.2	S.C. Charleston . . .	39	-10	.3	-.4
Eureka . . .	49	+1	T	-1.5	S. Ste. Marie . . .	9	-5	.9	+5	Columbia . . .	39	-7	T	-.8
Fresno . . .	46	-2	T	-.4	MINN. Duluth . . .	8	-1	T	-.2	Greenville . . .	36	-7	0	-1.0
Los Angeles . . .	60	+3	0	-.8	Internatl Falls . . .	2	-1	.1	-.1	S.D. Aberdeen . . .	11	0	T	-.1
Red Bluff . . .	50	+2	T	-.9	Minneapolis . . .	10	-3	.1	0	Huron . . .	16	+1	T	-.1
San Diego . . .	60	+4	0	-.4	Rochester . . .	7	-7	.1	0	Rapid City . . .	25	+1	T	-.1
San Francisco . . .	50	0	T	-.9	St. Cloud . . .	8	-2	T	-.2	Sioux Falls . . .	16	0	T	-.2
Stockton . . .	46	-1	0	-.6	MISS. Jackson . . .	39	-9	.3	-.8	TENN. Chattanooga . . .	32	-9	T	-1.3
COLO. Denver . . .	35	+4	T	-.1	Meridian . . .	39	-9	.5	-.6	Knoxville . . .	31	-10	T	-1.1
Grand Junction . . .	34	+4	T	-.2	MO. Columbia . . .	19	-12	T	-.4	Memphis . . .	37	-5	T	-1.2
Pueblo . . .	35	+2	T	-.1	Kansas City . . .	21	-9	.1	-.2	Nashville . . .	31	-8	T	-1.1
CONN. Bridgeport . . .	26	-4	.4	-.2	St. Louis . . .	21	-12	T	-.5	TEX. Abilene . . .	42	-4	.1	-.2
Hartford . . .	20	-5	.3	-.5	Springfield . . .	28	-7	0	-.5	Amarillo . . .	39	+1	.1	0
D.C. Washington . . .	30	-6	0	-.6	MONT. Billings . . .	34	+9	0	-.1	Austin . . .	45	-6	.3	-.4
FLA. Apalachicola . . .	45	-9	1.3	+5	Glasgow . . .	13	+1	0	-.1	Beaumont . . .	48	-5	.3	-.8
Daytona Beach . . .	51	-8	1.9	+1.3	Great Falls . . .	36	+12	0	-.2	Brownsville . . .	54	-8	1.1	+7
Ft. Myers . . .	61	-3	.2	-.2	Havre . . .	20	+6	0	-.1	Corpus Christi . . .	51	-7	.7	+2
Jacksonville . . .	44	-11	2.4	+1.6	Kalispell . . .	29	+7	T	-.1	Dallas . . .	---	---	---	---
Key West . . .	69	-2	T	-.5	Miles City . . .	22	0	T	-.3	Del Rio . . .	48	-5	T	-.2
Lakeland . . .	54	-7	1.6	+1.0	Missoula . . .	20	+2	T	-.1	El Paso . . .	44	-2	T	-.1
Miami . . .	67	0	T	-.5	NEBR. Grand Island . . .	25	0	T	-.1	Fort Worth . . .	39	-8	.4	-.1
Orlando . . .	54	-7	.8	+1	Lincoln . . .	22	-3	T	-.2	Galveston . . .	48	-7	.2	-.5
Tallahassee . . .	44	-9	.7	-.3	Norfolk . . .	22	+1	T	-.1	Houston . . .	46	-8	.5	-.4
Tampa . . .	54	-7	1.2	+6	N. Platte . . .	24	-2	T	-.1	Lubbock . . .	40	-1	T	-.1
W. Palm Beach . . .	65	0	1	-.5	Omaha . . .	22	-1	T	-.2	Midland . . .	45	-1	0	-.1
GA. Atlanta . . .	33	-11	.1	-.9	Valentine . . .	21	-1	T	-.1	San Angelo . . .	45	-3	T	-.2
Augusta . . .	37	-10	.1	-.7	NEV. Ely . . .	25	-1	T	-.1	San Antonio . . .	46	-6	.2	-.3
Macon . . .	38	-11	.3	-.7	Las Vegas . . .	50	+3	0	-.1	Victoria . . .	49	-6	.8	+3
Savannah . . .	42	-9	.3	-.3	Reno . . .	36	+1	0	-.2	Waco . . .	42	-7	.4	-.2
HAWAII. Hilo . . .	75	+4	.3	-2.4	Winnemucca . . .	34	+2	0	-.2	Wichita Falls . . .	40	-4	.1	-.2
Honolulu . . .	77	+5	.3	-.4	N.H. Concord . . .	12	-9	.1	-.5	UTAH. Blanding . . .	31	0	0	-.3
Kahului . . .	73	+2	.2	-.5	N.J. Atlantic City . . .	23	-10	.1	-.7	Salt Lake City . . .	27	-4	.1	-.2
Lihue . . .	73	+2	.7	-.5	Trenton . . .	23	-9	.1	-.5	VT. Burlington . . .	13	-4	.2	-.2
IDAHO. Boise . . .	22	-11	T	-.3	N.MEX. Albuquerque . . .	38	0	T	-.1	VA. Lynchburg . . .	28	-9	T	-.6
Lewiston . . .	34	-1	T	-.2	Roswell . . .	42	+1	.1	0	Norfolk . . .	34	-6	T	-.8
Pocatello . . .	17	-9	T	-.2	N.Y. Albany . . .	16	-6	.3	-.2	Richmond . . .	32	-6	T	-.7
ILL. Cairo . . .	29	-9	T	-.9	Binghamton . . .	14	-8	.2	-.4	Roanoke . . .	32	-6	T	-.7
Chicago . . .	15	-10	.3	-.1	Buffalo . . .	17	-6	.8	+1	WASH. Colville . . .	23	-4	0	-.4
Moline . . .	12	-11	.2	-.1	New York . . .	24	-8	.3	-.4	Omak . . .	27	+1	T	-.4
Peoria . . .	13	-12	.2	-.2	Rochester . . .	17	-7	.3	-.3	Quillayute . . .	45	+5	2.9	-.2
Rockford . . .	9	-12	.3	0	Syracuse . . .	17	-6	.4	-.3	Seattle-Tacoma . . .	46	+5	.1	-1.1
Springfield . . .	14	-14	T	-.4	N.C. Asheville . . .	30	-8	T	-.8	Spokane . . .	26	-3	.1	-.4
IND. Evansville . . .	19	-15	T	-.8	Charlotte . . .	34	-9	0	-.9	Walla Walla . . .	31	-6	.1	-.3
Ft. Wayne . . .	14	-12	.2	-.3	Greensboro . . .	32	-7	0	-.8	Yakima . . .	30	-2	T	-.3
Indianapolis . . .	14	-15	.1	-.5	Hatteras . . .	37	-8	0	-1.0	W. Va. Beckley . . .	20	-12	.1	-.7
South Bend . . .	16	-8	.5	0	Raleigh . . .	31	-10	0	-.8	Charleston . . .	22	-13	.2	-.6
IOWA. Burlington . . .	14	-11	.1	-.2	Wilmington . . .	38	-9	.1	-.7	Huntington . . .	24	-11	.1	-.6
Des Moines . . .	18	-3	T	-.2	N. DAK. Bismarck . . .	13	+3	T	-.1	Parkersburg . . .	20	-13	.2	-.5
Dubuque . . .	10	-9	.1	-.2	Fargo . . .	5	-2	.1	0	WIS. Green Bay . . .	10	-6	.1	-.1
Sioux City . . .	19	-1	T	-.2	Williston . . .	15	+4	T	-.1	La Crosse . . .	11	-6	.2	0
KANS. Concordia . . .	27	-1	T	-.2	OHIO. Akron-Canton . . .	16	-10	.3	-.3	Madison . . .	10	-8	.2	0
Dodge City . . .	34	+1	T	-.1	Cincinnati . . .	21	-11	.1	-.7	Milwaukee . . .	14	-6	.2	-.1
Goodland . . .	31	+1	0	-.1	Cleveland . . .	16	-11	.6	0	WYO. Casper . . .	30	+5	T	-.1
Topeka . . .	22	-9	T	-.2	Columbus . . .	15	-14	.4	-.2	Cheyenne . . .	31	+3	0	-.1
Wichita . . .	34	0	T	-.2	Dayton . . .	15	-14	.3	-.3	Lander . . .	28	+5	T	-.1
W. Lexington . . .	22	-11	.1	-.7	Toledo . . .	16	-9	.4	0	Sheridan . . .	26	+2	0	-.2
Louisville . . .	24	-10	.1	-.7						P.R. San Juan . . .	77	+2	.3	-.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 SRS State offices in cooperation with the National Weather Service, NOAA.

ALABAMA: Temperatures 9° below normal. Light rainfall central and south on 4th.

Soil moisture adequate to surplus. Farm activities limited to care and feeding of livestock and poultry. Limited growth of small grains and winter grazing crops. Livestock poor to fair condition. Hay supplies becoming short.

ARIZONA: Mostly dry weather. Temperatures near normal.

Wheat, barley planting virtually complete. Earlier planted grains, good stands. Sugarbeets good growth. Limited safflower planting. Lettuce harvest continued Yuma. Planting central areas lettuce nearing completion. Harvest mixed vegetables continued. Preparation, planting cantaloup, watermelon increasing. Harvest Navels, sweet oranges complete. Grapefruit harvest limited scale. Lemon harvest nearly completed. Range conditions higher elevations generally improved. Conditions lower ranges mostly fair. Limited supplemental feeding required. Cattle, calves, sheep, lambs mostly fair to good condition.

ARKANSAS: Temperatures departures 3 to 11° below normal. Precipitation spotty north, widespread south; 0.25 in. central and 1.25 in. extreme south.

No fieldwork or plant growth. Moderating temperatures easier on cattle. Hay supplies very short.

CALIFORNIA: Weak weather system deposited very small amounts of precipitation along northwest coast. Otherwise high pressure produced another dry week. Temperatures along the north and central coastal areas and in the central valley near or slightly below normal while readings in the mountain areas and in the southern portion above normal.

Small grain growth hampered by cold dry weather, some replanting occurring. Sugarbeets being planted and harvested. Ground preparation in progress for row crops. Alfalfa treated for weed and blue aphid. Irrigation active where water available. Lemon, tangerine, desert grapefruit, and Navel orange harvest continues. Artichokes, asparagus, broccoli, cabbage, carrots, cauliflower, lettuce, and winter potatoes being harvested. Most harvest activities in desert valleys but agricultural activity gradually increasing in all vegetable areas. Extreme drought conditions continue. Supplemental feeding needed all areas. Ranchers decrease herd size because of lack of feed. Cattle remain fair to poor. Sheep grazing alfalfa fields. Water supplies far below normal.

COLORADO: Dry, mild weather dominated week except 1st and early 2d. Up to 6 in. snow fell in mountains but only scattered light amounts fell elsewhere. Temperatures ranged 2 to 8° above normal in west and mountains; above normal northeast. In southeast temperatures were normal to 5° below normal.

FLORIDA: Scattered light rains 31st through 2d. Amounts generally less than 0.25 in. cold front 3d triggered 1.00 to 2.00 in. rains north, and 0.50 to 1.00 in. central but up to 2.50 in. some areas. South portion received little or no rain. Clear and cooler weather weekend with temperatures returning below normal most areas. North portion averaged 10 to 15° below normal while the extreme south was near normal.

Soil moisture adequate south, central; adequate to excessive, north, west. Fieldwork 2 to 3 weeks behind schedule. Small grains making no growth. Sugarcane harvest very active. Young cane poor condition. Small grain, other winter pastures showing very little sign of recovery. Ranchers, panhandle, north about exhausted feed supplies. Central, south area ranchers indicate supplies dwindling. Condition cattle, calves very poor to fair. Citrus trees recuperating from freeze, young tree defoliation started, very little wood damage to date. Fruit drop started, early and midseason oranges. Soil moisture very good. Warmer temperatures beneficial to growth of newly planted vegetable crops and recovery of freeze damaged crops. Some mowed, eggplant and green pepper acreage beginning to sucker out. Tomato salvage harvest mostly over. Very light supply staked tomatoes continues. Light volume snap beans, sweet corn, cucumbers, eggplant, green peppers, squash until late March. Shipments also decreased cabbage, celery, escarole-endive, radishes. Steady supplies chinese cabbage. Volume increased carrots, strawberries, potatoes. Good volume strawberries expected March, April. Most crops expect normal supplies in April.

GEORGIA: Temperatures 12 to 14° below normal. Precipitation less than 0.10 in. north, 0.50 in. south. Snow the 31st central area 1 to 2 in. Cold and dry weekend.

Wet and cold conditions restricted farm activities. Little progress on unharvested corn, cotton, pecans and soybeans. Small grains poor to fair condition. Pastures poor condition. Cattle poor to fair condition. Low hay stocks causing concern. Tobacco plants mostly poor.

HAWAII: Weather generally dry. Some light showers windward and higher elevations.

Irrigation water restrictions continue some sections of Maui. Reservoir levels continue below normal all islands. Vegetables supplies sufficient. Banana supply moderate to heavy. Sugar harvesting light. Pasture poor to fair. Forage parched Kona and Kau areas Hawaii. Supplemental feeding continuing some ranches.

IDAHO: Moisture situation serious. Snow pack for date, record low. Precipitation since October 1, 20 to 30% of normal. Temperatures 5 to 13° below normal. Extremes: 46 and -14°. Farm activities: Maintenance, feeding livestock and marketing commodities. Conditions favorable for early calving and early lambing.

ILLINOIS: Temperatures 8° below normal extreme south, 12 to 17° below normal elsewhere. Precipitation less than 0.33 in. north, trace south.

Soil moisture mostly short. Winter wheat and other small grains mostly fair. Livestock doing fairly well most areas. Feed consumption heavy. Main farmwork: Caring for livestock.

INDIANA: Temperatures averaged 12° below normal and ranged from -15 to 40°. Most roads in north and central now opened but with much difficulty. Some freezing rain in central at midweek. Snow cover about 6 in. foot central and south, up to 18 in. extreme north.

Little farm activity except snow removal and livestock care. Snow clogged roads delayed trans-

portation of feed and milk. Difficulties were experienced getting feed and water to livestock. Hay use heavy and shortages reported in some areas. Above normal livestock losses reported.

IOWA: Temperatures only 1 or 2° subnormal west to 10 or 11° below normal east. Light precipitation fell at midweek over east.

Snow cover diminished to 1 to 4 in. east and south and much bare ground elsewhere. Soil erosion now prevalent. Soil moisture shortages and subnormal temperatures causing deep frost penetration averaging 50 in. Water lines are freezing.

KANSAS: Temperatures low to mid-30's west, 1 to 2° above normal and mid-20's northeast, 5 to 6° below normal. Precipitation averaged 0.03 in. south central to northeast with trace or less elsewhere.

Cold weather and supplemental feeding may strain existing feed supplies which are adequate to short. Wheat remains unchanged with little vegetative cover.

KENTUCKY: Precipitation mostly snow occurring on 4th and 5th with amounts ranging from a trace in west to near 0.10 in. water equivalent east. Snow cover varied from no snow to 3 or 5 in. northeast and east. Temperatures averaged 8 to 10° below normal.

Little outside activities except care and feeding of livestock. Cold causing heavy drain on hay and roughage supplies. Water still low with many ponds frozen solid. Tobacco marketings slowed by bad weather.

LOUISIANA: Temperatures 5 to 9° below normal. Extremes: 63 and 18°. Light to moderate rain 3d.

Farm activity mainly feeding and care of livestock. Hay supply short.

MARYLAND & DELAWARE: Temperatures much below normal. Highs, low 40's; lows in teens. No precipitation except less than 0.50 in. in western Maryland. Weekend sunny, windy and cold.

Farmers confined to doing normal winter chores and inside work.

MICHIGAN: Temperatures ranged from 3 to 9° below normal. Precipitation locally heavy along the north shore of Upper ranging from 1.57 to 0.86 in. Amounts of 0.50 in. common along the western shore of Lower. Less amounts of 0.05 to 0.20 in. fell over central and east Lower.

The cold weather and snow stopped all but essential farm chores and feeding of livestock. No shortages of natural gas, fuel oil or electricity.

MINNESOTA: Temperatures near normal, warmest midweek. Extremes: 43 and -24°. Precipitation near normal to 0.10 in. below normal except 0.10 to 0.20 in. below normal east central and northeast. New snow, trace southwest and 1 to 2 in. elsewhere except 3 in. extreme north. Snow on the ground from a trace southwest to 14 in. northeast.

MISSISSIPPI: Temperatures 12 to 15° subnormal. Extremes: 6 and 70°.

Soil moisture adequate to surplus. Fieldwork: 0.8 days suitable. Winter wheat and oats in very poor to poor condition. Livestock in mostly poor condition. Hay and roughage supplies very short to short. Feed grain supplies short to very short.

MISSOURI: Temperatures averaged from 8° below normal Ozarks to 11° below normal northeast prairie. Elsewhere temperatures averaged 9° below normal. Precipitation very light averaging less than 0.10 in.

Farming activities: General management and livestock care.

MONTANA: Warm, dry. Temperatures from 1° below normal to 9° above. Central area warmest, with western and eastern areas near normal. No measurable precipitation. Frequent fog and low clouds in west and parts of east.

Soil moisture short. Winter wheat poor to fair. Wind damage none to light. Snow cover protection poor. Livestock condition good. Grazing open most areas but nearly all livestock on supplemental feed.

NEBRASKA: Temperatures 3 to 18° above normal through midweek and 9 to 19° below normal 6th. Little or no precipitation.

Winter wheat condition mostly fair but many areas poor. Cattle continue to need supplemental feed. Open winter allowed more extended grazing. Half of corn and milo stalks pastured.

NEVADA: Skies mostly clear, warm daytime temperatures, nights rather cold. Temperatures averaged 1 to 5° above normal. Extremes: 69 and -6°.

Usual winter chores. Lack of snow easing supplemental feeding requirements.

NEW ENGLAND: Temperatures fluctuated from near normal to well below normal. Northern Maine readings slightly below normal while southern areas averaged more than 5° below normal. Precipitation was light except over portions of southern areas. Up to 8 in. snow fell on 5th. On 4th light snow fell ranging from a trace over southeast to 4 in. over northern and western mountains.

NEW JERSEY: Temperatures very cold, averaging 20° north, 24° south and 26° coastal areas. Extremes: 2 and 44°. Precipitation well below normal, averaging 0.21 in. north, 0.14 in. south and 0.13 in. coastal sections.

Farmers pruning fruit, caring for livestock and doing other winter chores.

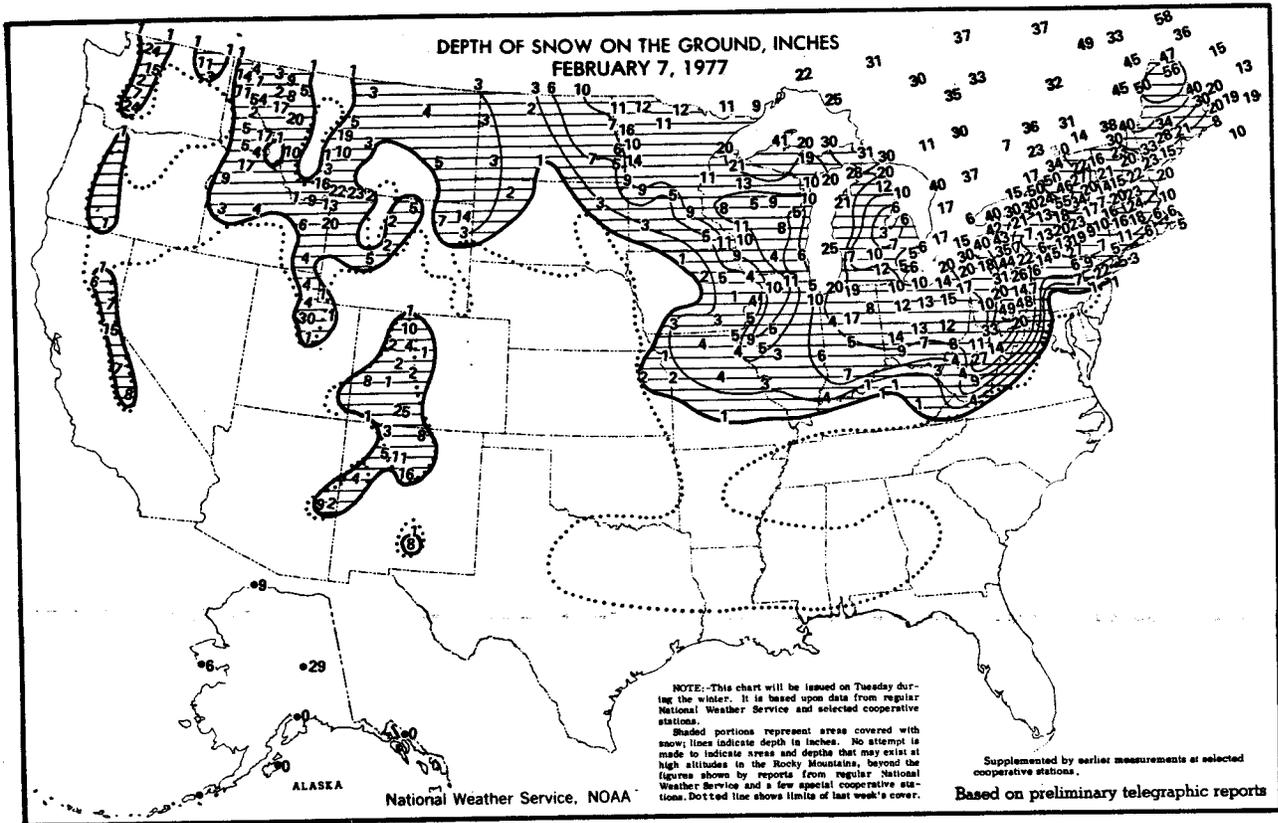
NEW MEXICO: A storm brought token amounts of snow and rain on 2d and substantial amounts central highlands and south central mountains. Liquid equivalents these sections to near 0.50 in. and snow depths to 6 in.

Soil moisture mostly short, ranges generally fair, some poor in northeast. Livestock fair with some supplemental feeding. Fieldwork proceeded in the open weather. Dryland winter wheat poor, irrigated crop good south, fair elsewhere. Irrigated barley good southern areas. Pecan harvest 85% complete.

NEW YORK: Temperatures ranged from near zero to low 20's. Temperatures near normal extreme north, 6 to 8° below normal elsewhere. Extremes: -18 and 40°. Precipitation 0.50 in. or less. Ground snow depths varied from 2 to 7 in. in Lower Hudson Valley to 40 to 60 in. lee of Great Lakes.

NORTH CAROLINA: Temperatures 5 to 10° below normal. Precipitation below normal except some new snow in the mountains.

NORTH DAKOTA: Temperatures ranged from 1° below



normal to 7° above normal. Extremes: -35 and 51°. Precipitation ranged from 0.01 to 0.11 in. below normal. Snow cover from 1 to 11 in.

Livestock good condition. Farm activities: Caring for livestock and limited grain marketing.

OHIO: Frequent snow flurries and general snow 4th. Strong winds caused considerable drifting. Temperatures much below normal. Cold early in week, slightly moderate middle of week and very cold 5th and 6th. Record lows 6th.

Snow drifted roads created problems for mild pickups and feed and fuel delivery.

OKLAHOMA: Temperatures from 1° above normal Panhandle to 7° below normal south central and southeast. Precipitation ranged from few hundredths Panhandle to slightly over 1.00 in. southeast.

Wheat condition showed little change, as rainfall amounts were too light to be of value. Some greening late week in southwest. Irrigated acres in Panhandle receiving water. Cold weather and dry soils delaying progress of seeding spring small grains. Topsoil moisture short. Care of livestock principal activity, as supplemental feed demands of livestock continues heavy. Orchards in eastern areas receiving dormant sprays. Ranges in mostly poor condition. Cattle fair to poor, with marketing active.

OREGON: Dry spell continued with rainfall along coast from 0.30 to 0.50 in. The Willamette Valley had about 0.10 in. Elsewhere less than 0.10 in. reported. Temperatures slightly above normal along coast, 3° below normal in western valleys and 6 to 13° below normal in east. Extremes: mid-60's, high teens west; mid-40's, subzero east. Soil moisture short. Lack of snow pack in

mountains causing much concern for irrigation supplies. Farm activity light. Dry weather allowed some early land preparation and seeding in the west. Pruning orchards and training berries. Apples continue to move from storage, but pears are slow. Feed supplies adequate. Calving and lambing continue. Livestock in good condition. Pastures need moisture.

PENNSYLVANIA: Temperatures 6 to 12° below normal. Bitter cold beginning and end of period when highs mostly in teens and lows near zero. Some moderation midperiod when temperatures climbed to slightly above thawing. Extremes: 41 and -12°. Light snow and snow flurries almost daily west and north. Abundant sunshine southeast except 4th when storm brought 1 to 5 in. snowfall. Melted precipitation from 0.10 in. east and 0.40 to 0.90 in. west.

Severe winter weather still creating problems for farmers in caring for livestock and hay transportation.

PUERTO RICO: Island average rainfall 0.34 in. or 0.36 in. below normal. Temperatures averaged about 76° on coasts and 70° interior. Extremes: 89 and 48°.

SOUTH CAROLINA: Temperatures ranged from 5 to 11° below normal. Extremes: 10 and 68°. Precipitation non-existent except for 0.20 in. in southern area. Some light snow southern area.

Peach, apple trees pruned. Tobacco beds prepared. General farm maintenance underway.

SOUTH DAKOTA: Temperatures above normal. Afternoon highs upper 30's northeast, 40's and 50's elsewhere. Extremes: -20 and 52°. Only scattered traces of moisture received.

Farm activity remains slow. Caring for live-

stock, few repairs were main activities.

TENNESSEE: Unusually cold dry weather continued. Temperatures near 33°; about 8° below normal. Little or no precipitation.

Feeding and caring livestock main farm activity.

TEXAS: Mild to cool temperatures prevailed. Rainfall above normal eastern half; little to no precipitation west. Extreme east over 1.00 in. rain; 0.25 to 0.50 in. north and south. Cold fronts 1st, again 6th; result below normal temperatures most portions. Readings 3 to 6° normal except Panhandle where near normal temperatures.

Cold fronts cut short warming trend southern half and ended early return to fieldwork. Snow covered parts north and northeast where heavy feeding underway since early fall. Hay supplies getting short. Planting dates at hand Lower Rio Grande Valley but many fields saturated. Land preparation hopelessly behind schedule. Livestock moving into feedlots High Plains where grazing short. Wheat dormant High Plains but furnishing limited grazing most areas. Snow provided little surface moisture usually disappearing rapidly. Dryland stands vulnerable to wind erosion. Oats far behind schedule, grazing restricted most areas. Some response to several days warm weather south noted, but fields too wet to graze. Spring applications fertilizer also behind schedule. Flax growth poor Coastal Bend, upper Gulf Coast, south.

Lower Rio Grande Valley, harvest of vegetables and citrus interrupted by rain. Coastal Bend land preparation delayed by wet conditions. Laredo onions progressing well. Producers preparing land for melons, cantalope. Eagle Pass broccoli and spinach harvest continued. San Antonio-Winter Garden area had only couple days suitable for harvest spinach, carrots, cabbage. Showers prevalent in most areas. Potato planting active as weather permits. Peaches beginning to bloom in south along coast. Buds swelling in central areas. Pecan producers applying dormant oil spray.

Livestock fair to good High and Low Plains and western areas. Native pastures short; wheat, oats grazing limited. Ranchers maintaining condition with heavy feeding. Blacklands, east coastal areas, stock poor continue lose weight. Losses to cold weather and malnutrition above normal. Lambing underway Edwards Plateau.

UTAH: Scattered areas snow central section. Accumulations generally light but locally moderate. Drought conditions continue to increase in severity. Temperatures extremely variable ranging from 10° below normal to 8° above.

Some farm flock lambing started. Early plowing and ditch cleaning begun southern areas.

Orchard pruning started. Some marketing of potatoes, dry onions and apples from storage continues.

VIRGINIA: Temperatures 10° below normal. Moderation of temperatures middle of period. Extremes: 58 and 4°. Light snow flurries in scattered areas.

Fieldwork extremely limited by adverse conditions. Topsoil moisture adequate to surplus. Snow cover present in some regions. Winter grain and grazing crops in poor condition. Livestock receiving almost no forage from grazing. Hay supplies exhausted on some farms in a few areas. Feeding and care of livestock and routine chores major activities. Small amount of liming and fertilizing done on frozen fields.

WASHINGTON: West: Temperatures 3° above normal coastal area to 1° above normal San Juan, near normal Puget Sound and 1° below normal east Cascade foothills. Precipitation averaged 0.50 in. below normal San Juan to about 1.00 in. below normal elsewhere.

Local hay supplies available, some coming from east.

East: Temperatures from 3° above normal Palouse/Blue Mountain to near normal elsewhere. Precipitation about 0.40 in. below normal.

In central area farmers pruning grapes and fruit trees. Wheat farmers concerned about insufficient snow cover and lack of moisture. Calving and lambing underway. Spring pasture outlook poor, ranges very dry.

WEST VIRGINIA: Temperatures below normal. Extremes: 48 and -5°. Precipitation below normal.

Soil moisture short to adequate. Hay supply short. Maintaining water supply for livestock critical some areas. Above normal death loss in early calves. Farm activities limited to feeding and care of livestock. Small grains covered with snow.

WISCONSIN: Temperatures near normal in the 20's until weekend when arctic air returned. Highs on 5th and 6th were single digits except for lower teens southeast. Overnight lows on 6th to 7th were zero to -20° south and -15 to -25° north. Precipitation light with snowfall less than 1 in. except on 4th when south had 1 to 3 in., and north lesser amounts.

WYOMING: Above normal temperatures and below normal precipitation. Temperatures from 6° below normal to 9° above normal. Minimum temperatures upper teens to mid-20's. Precipitation scarce, ranging from 0.03 to 0.57 in. below normal.

Weather dry. Moisture conditions may be critical in spring. Snow cover light most areas. Livestock doing well. Open winter helped stretch feed supplies which are still adequate.

World Weather and Crop Update

(February 1-7)

HIGHLIGHTS: Bitter cold continued to blast the United States east of the Rocky Mountains, and there has been little change in the moisture deficits in the Corn Belt, Plains States and the Pacific Coast. Temperatures have returned to a more seasonal mode in the winter wheat areas of the European USSR. Showers brought some badly needed moisture as well as relief from the heat wave to Australia's southeast coast. The outlook for spring crops in South Africa continue to improve as heavy rains swept the principal agricultural areas. Scattered light showers fell in some of the wheat growing regions of Northern India. Near normal temperatures prevailed in the People's Republic of China, except in the northeast, but most of that country continued seasonally dry.

NORTH AMERICA. Bitter cold continues to dominate most of the United States east of the Rockies. Only light precipitation fell over parts of the Corn Belt and in the Plains States where moisture reserves are well below normal. There has been no improvement in the severe drought situation on the west coast. Spotty drought conditions in the Caribbean Islands, especially in sugar-producing Cuba, have been alleviated somewhat by heavy showers.

USSR. More seasonal temperatures have returned to the winter grain areas of European USSR following the recent warm spell that raised temperatures by 6 to 10 degrees C. above normal. More importantly, there were no sharp temperature changes to threaten winter grains in areas of light or no snow cover, especially in the North Caucasus and extreme southern Ukraine.

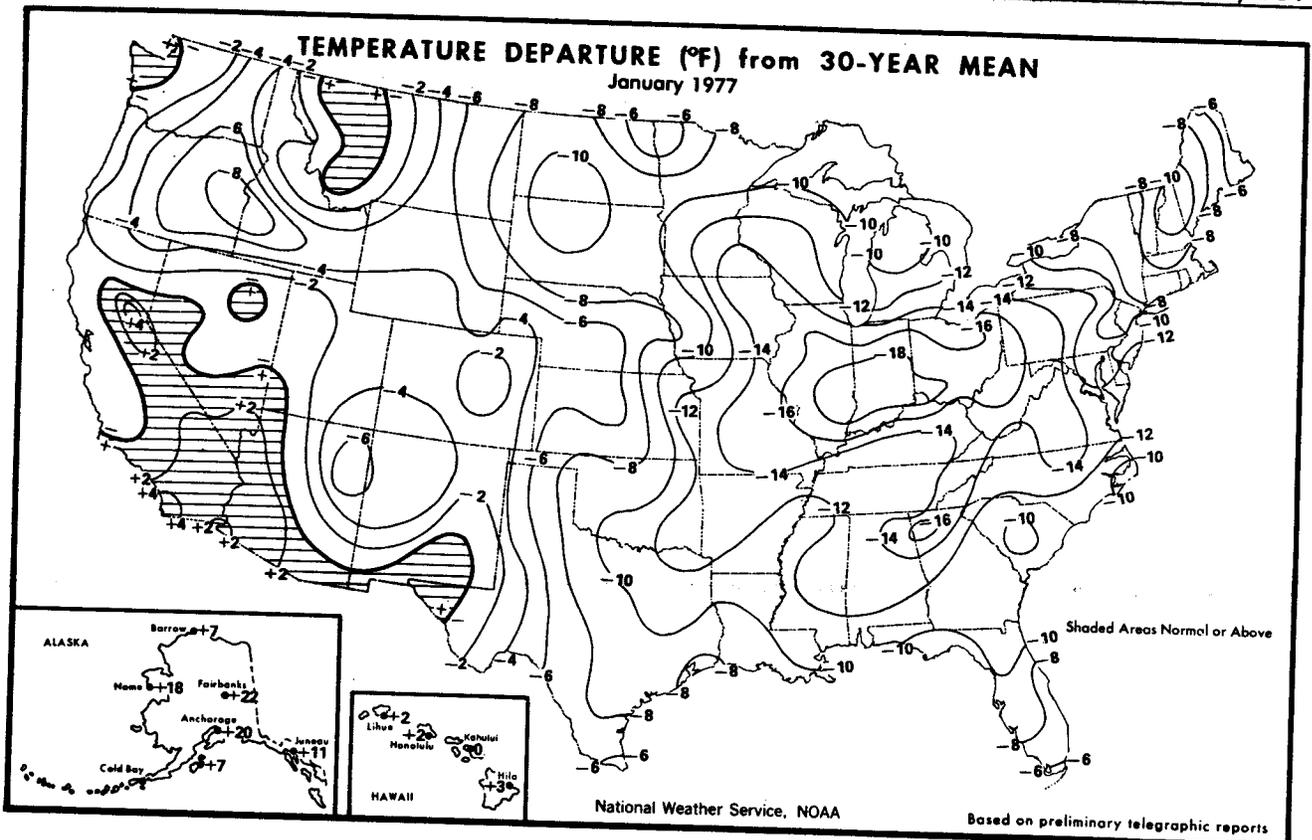
ASIA. Australia's heat wave was broken as showers brought relief from the heat and some badly needed

moisture to the coastal area of New South Wales and into Victoria. Elsewhere, except in the northeast which has been drenched as the result of seasonal tropical activity, unirrigated crops and pastures continue to suffer from the moisture shortage. Rainfall has been sparse over India although light showers fell on some northern wheat growing regions. Light to moderate precipitation fell along the southeast coast, but elsewhere the PRC was seasonally dry. Temperatures have moderated to near normal for most areas of that country except in the northeast which continues cold and dry.

AFRICA. Crop prospects in S. Africa have received a boost as excellent rains have fallen over the principal agricultural areas. Some flooding may have resulted from locally heavy showers.

SOUTH AMERICA. The main soybean and corn areas in Brazil continue to receive generally adequate precipitation for good crop development. Seasonally heavy rains associated with tropical activity have fallen over the northern coastal area. Data for Argentina are incomplete for the reporting period, but that which is available indicates the southern portion of the corn belt at least has received generally good precipitation.

EUROPE: Under mild temperatures, Western Europe continued to make up the moisture deficit resulting from last summer's drought with light to moderate precipitation, mainly rainfall, throughout much of the area. The generally mild weather extended into Eastern Europe where light precipitation occurred in the northern countries--East Germany, Poland, and Czechoslovakia. Heavier precipitation occurred in the Balkans with more than 2 inches in parts of Yugoslavia.



January Weather Summary

HIGHLIGHTS: January was a month for setting records. Record low temperatures were reported all during the month in nearly all areas east of the Rockies. For the month as a whole the largest negative departures from normal encompassed the States of Illinois, Indiana, Ohio, northern Kentucky and western Pennsylvania where average temperatures for the month were 16 to 19° below normal. Many cities in this area and in the South reported average January temperatures to be the coldest of record. Shortly after midmonth the cold air swept over Florida; meanwhile Alaska experienced unusually balmy weather. Snow fell as far south as Miami Beach. Precipitation was below normal in a large portion of the U.S. The central Rockies and areas west of the Plateau had much less than normal precipitation. The Pacific Northwest, northern California and Nevada had one third or less of their normal precipitation, further intensifying extremely dry conditions.

January began with a storm in the Southwest moving eastward into a very cold air mass. Snow fell on the Plateau, the southern Rockies and from the central Plains southward to northern Texas. The storm continued eastward and a variety of precipitation fell along the Gulf Coast from Texas to northern Florida. Rain along the Coast, freezing rain from northeast Texas through northern Alabama, and snow north of this area resulted from the storm.

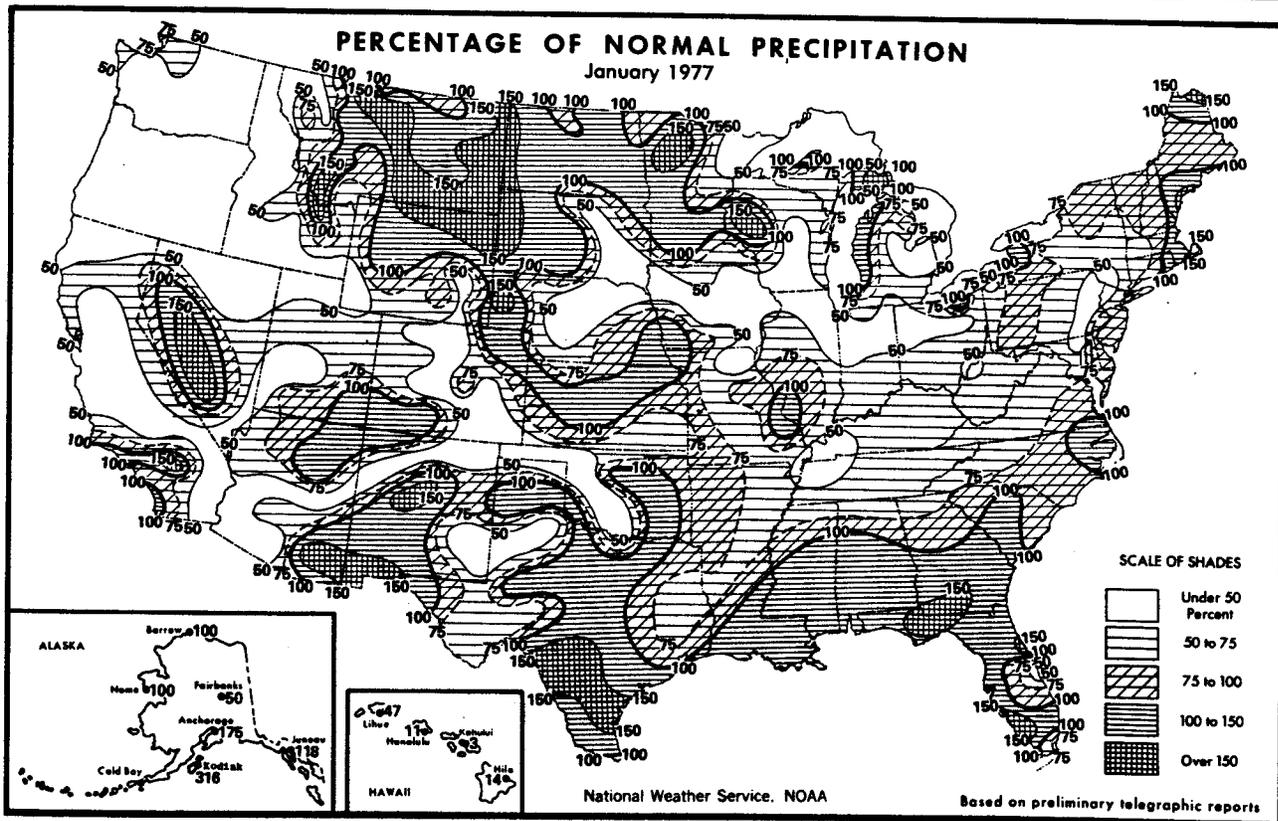
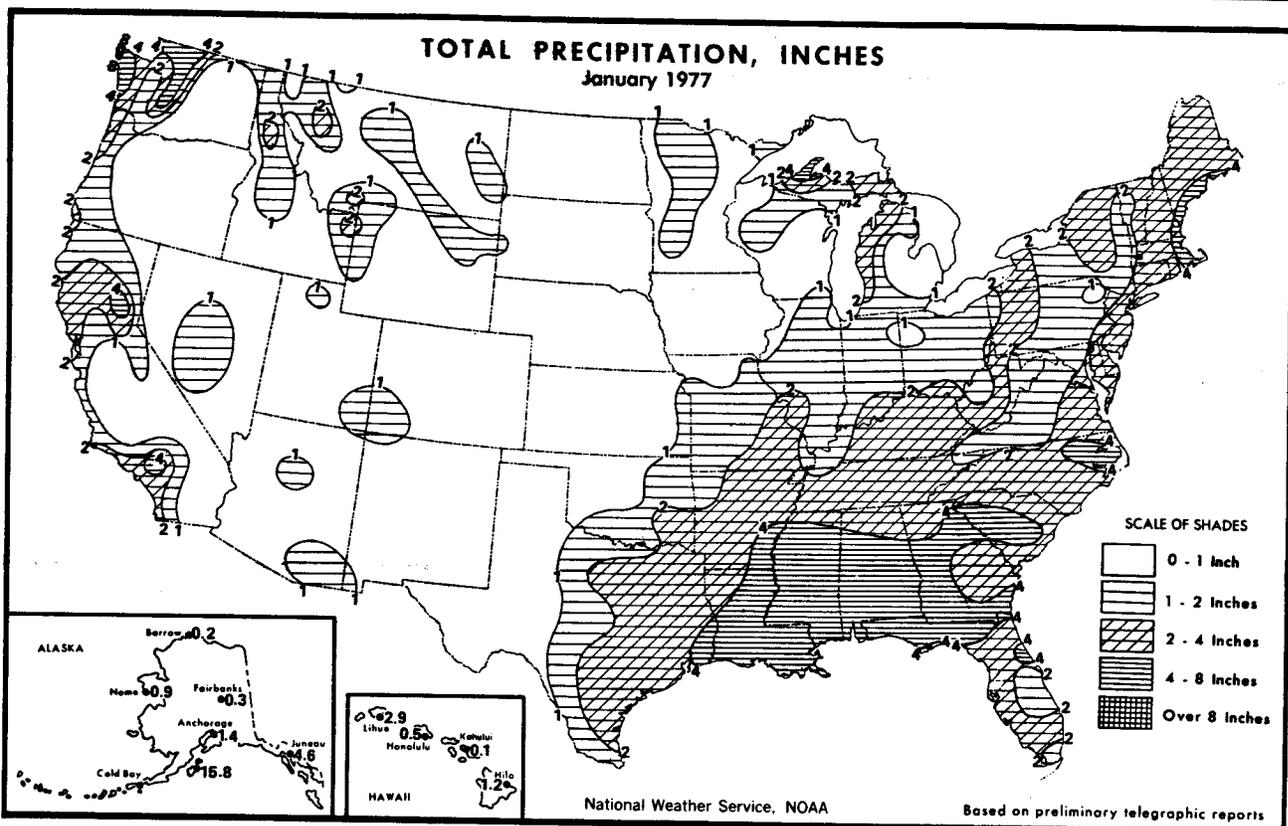
A series of cold outbreaks continued to pour cold air into the U.S. east of the Rockies and on January 8th the cold air swept westward from the Plains and enveloped most of western U.S. in colder than normal temperatures.

At midmonth the cold air still enveloped most of the nation although the area west of the Rockies was not as cold as the previous week. East of the

Rockies it was 20 to 24° colder than normal from North Dakota to Illinois. Precipitation excluded the Southwest and was very light in the Plains. The South, the lower Mississippi Valley and New England reported significant amounts of snow or rain.

In the week following midmonth the cold air was pooled in the Ohio Valley where temperatures were 22 to 26° below normal. Average temperatures ranged from 5 to 10° in this area. A lull in the input of cold air into the northern Plains allowed some warming in the Plains. However the Southeast was not so fortunate. Temperatures in Florida were as much as 18 to 20° below normal and freezing temperatures occurred for five successive nights. Severe damage to fruit and vegetable crops resulted. Snow fell as far south as the Everglades. Snow also covered areas in Alabama and Georgia. During the latter part of the week rain with snow at higher elevations fell from the California Sierras into Arizona and the central Rockies.

The short lull in the flow of cold air from central Canada came to an abrupt halt during the last week of the month when an extremely cold arctic air mass plunged southward and eastward. High wind, snow, blowing snow and bitter cold temperatures combined to create severe blizzard conditions along and behind the advancing cold air as it moved through the northern Plains, the Lakes area, the north central States and the Northeast. The extreme cold and penetrating winds caused most activities to come to a halt and a number of storm related deaths were reported. Elsewhere, as the cold air penetrated the deep South snow, sleet and freezing rain fell from north central Texas to Georgia and northern Florida. Light rain or drizzle was reported along the north Pacific Coast but otherwise dry weather persisted in the West.



Temperature and Precipitation Data for January 1977

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 . . .	32	-12	5.1	+ .3	La. Baton Rouge . . .	42	- 9	6.5	+ 2.1	Youngstown . . .	10	-16	1.5	- 1.4
Mobile . . .	41	-10	5.5	+ .8	Lake Charles . . .	43	- 9	4.9	+ .9	OKLA. Okla. City . . .	29	- 8	.3	- .8
Montgomery . . .	36	-12	4.9	+ .9	New Orleans . . .	43	-10	5.6	+ 1.1	Tulsa . . .	27	-10	1.4	0
ALASKA. Anchorage . . .	32	+20	1.4	+ .6	Shreveport . . .	37	-10	3.0	- 1.0	OREG. Astoria . . .	40	- 1	3.2	- 6.5
Barrow . . .	- 8	+ 7	.2	- .1	MAINE. Caribou . . .	6	- 5	3.4	+ 1.4	Burns . . .	19	- 6	.7	- 1.1
Fairbanks . . .	10	+22	.3	- .3	Portland . . .	15	- 7	6.5	+ 3.1	Medford . . .	34	- 3	1.2	- 2.3
Juneau . . .	35	+11	4.6	+ .7	MD. Baltimore . . .	23	-10	1.4	+ 1.5	Pendleton . . .	26	- 6	.5	- 1.1
Kodiak . . .	37	+ 7	15.8	+10.8	MASS. Boston . . .	23	- 6	4.4	+ .7	Portland . . .	36	- 2	1.1	- 4.8
Nome . . .	24	+18	.9	0	Chatham . . .	24	- 7	5.9	-----	Salem . . .	38	- 1	.9	- 6.0
ARIZ. Flagstaff . . .	27	- 1	1.9	0	MICH. Alpena . . .	10	- 8	.7	- 1.0	PA. Allentown . . .	19	- 9	1.4	- 1.6
Phoenix . . .	54	+ 3	.4	- .3	Detroit . . .	13	-12	1.0	- .9	Erie . . .	13	-12	1.1	- 1.4
Tucson . . .	51	0	1.8	+ 1.0	Flint . . .	11	-11	.6	- 1.1	Harrisburg . . .	20	-10	1.4	- 1.2
Winslow . . .	27	- 6	.4	0	Grand Rapids . . .	13	-10	1.6	- .3	Philadelphia . . .	20	-12	2.6	- .2
Yuma . . .	56	+ 1	T	- .4	Houghton Lake . . .	9	- 8	.6	- .9	Pittsburgh . . .	11	-17	2.1	- .7
ARK. Fort Smith . . .	27	-12	1.9	- .5	Lansing . . .	11	-12	1.0	- .9	Scranton . . .	15	-12	.9	- 1.2
Little Rock . . .	28	-12	3.1	- 1.1	Marquette . . .	10	- 8	1.0	- .5	R. I. Providence . . .	21	- 7	3.9	+ .4
CALIF. Bakersfield . . .	47	- 1	.6	- .4	Muskegon . . .	14	-10	2.9	+ .6	S. C. Charleston . . .	39	-10	2.7	- .2
Eureka . . .	47	0	1.9	- 5.5	S. Ste. Marie . . .	6	- 8	2.7	+ .8	Columbia . . .	36	- 9	4.2	+ .8
Fresno . . .	44	- 1	.7	- 1.1	MINN. Duluth . . .	0	- 9	.4	- .8	Greenville . . .	31	-11	3.5	- .6
Los Angeles . . .	58	+ 1	2.8	- .2	Internatl Falls . . .	- 6	- 8	.7	- .2	S. D. Aberdeen . . .	1	- 9	.3	- .2
Red Bluff . . .	45	0	2.7	- 1.8	Minneapolis . . .	0	-12	.7	0	Huron . . .	5	- 8	.2	- .2
San Diego . . .	60	+ 5	2.4	+ .5	Rochester . . .	- 2	-15	.4	- .3	Rapid City . . .	13	- 9	.8	+ .3
San Francisco . . .	47	- 1	2.2	- 2.2	St. Cloud . . .	- 2	-11	.6	- .2	Sioux Falls . . .	5	- 9	.2	- .4
Stockton . . .	44	- 1	.8	- 2.1	MISS. Jackson . . .	35	-12	6.2	+ 1.7	TENN. Chattanooga . . .	29	-11	3.1	- 2.3
COLO. Denver . . .	29	- 1	.2	- .4	Meridian . . .	35	-12	5.6	+ 1.3	Knoxville . . .	27	-14	2.6	- 2.1
Grand Junction . . .	24	- 3	.4	- .2	MO. Columbia . . .	14	-15	1.4	- .3	Memphis . . .	31	-10	2.6	- 2.3
Pueblo . . .	28	- 2	.1	- .2	Kansas City . . .	16	-12	1.2	- .1	Nashville . . .	25	-13	2.5	- 2.3
CONN. Bridgeport . . .	24	- 6	2.4	- .3	St. Louis . . .	15	-16	2.4	+ .5	TEX. Abilene . . .	36	- 8	1.2	+ .2
Hartford . . .	19	- 6	2.4	- .9	Springfield . . .	19	-14	1.5	- .2	Amarillo . . .	30	- 6	.6	+ .1
D. C. Washington . . .	25	-11	1.5	- 1.1	MONT. Billings . . .	18	- 4	1.4	+ .7	Austin . . .	42	- 8	2.3	+ .4
FLA. Apalachicola . . .	45	- 9	3.9	+ .8	Glasgow . . .	3	- 6	.4	0	Beaumont . . .	45	- 7	4.9	+ .8
Daytona Beach . . .	51	- 7	4.7	+ 2.6	Great Falls . . .	22	+ 1	1.0	+ .1	Brownsville . . .	55	- 5	1.2	- .2
Ft. Myers . . .	56	- 8	3.5	+ 1.9	Havre . . .	10	- 2	.8	+ .3	Corpus Christi . . .	50	- 6	3.1	+ 1.5
Jacksonville . . .	44	-11	3.0	+ .2	Helena . . .	18	0	.6	0	Dallas . . .	-----	-----	-----	-----
Key West . . .	66	- 5	1.4	- .3	Kalispell . . .	19	0	.8	- .7	Del Rio . . .	46	- 5	.9	+ .3
Lakeland . . .	52	- 9	2.2	- .1	Miles City . . .	8	- 7	.7	+ .2	El Paso . . .	45	+ 1	.6	+ .2
Miami . . .	61	- 6	1.4	- .8	Missoula . . .	19	- 2	.7	- .5	Fort Worth . . .	35	-10	2.4	+ .6
Orlando . . .	51	- 9	1.8	- .5	NEBR. Grand Island . . .	17	- 5	.4	- .1	Galveston . . .	47	- 7	3.4	+ .4
Tallahassee . . .	44	- 9	6.4	+ 2.7	Lincoln . . .	13	- 9	.6	0	Houston . . .	43	- 9	2.7	- .9
Tampa . . .	51	- 9	2.8	+ .5	Norfolk . . .	13	- 6	.3	- .3	Lubbock . . .	35	- 4	.2	- .4
W. Palm Beach . . .	59	- 7	3.5	+ .9	N. Platte . . .	17	- 6	.2	- .3	Midland . . .	41	- 3	.6	0
GA. Atlanta . . .	29	-13	3.5	- .8	Omaha . . .	13	- 7	.9	+ .2	San Angelo . . .	40	- 6	.6	- .2
Augusta . . .	36	-10	3.7	+ .3	Valentine . . .	11	- 9	.3	0	San Antonio . . .	44	- 7	3.1	+ 1.4
Macon . . .	37	-11	3.7	0	NEV. Ely . . .	22	- 2	.4	- .2	Victoria . . .	46	- 8	2.4	+ .6
Savannah . . .	40	-10	3.1	+ .2	Las Vegas . . .	46	+ 2	.1	- .4	Waco . . .	38	- 9	1.8	- .1
HAWAII. Hilo . . .	74	+ 3	1.2	- 7.9	Reno . . .	32	0	.7	- .5	Wichita Falls . . .	32	-10	1.1	0
Honolulu . . .	74	+ 2	.5	- 3.9	Winnemucca . . .	27	- 1	.3	- .7	UTAH. Blanding . . .	23	- 5	1.5	+ .4
Kahului . . .	72	0	.1	- 3.5	N. H. Concord . . .	11	-10	2.2	- .5	Salt Lake City . . .	27	- 1	.8	- .5
Lihue . . .	73	+ 2	2.9	- 3.3	N. J. Atlantic City . . .	20	-13	3.5	- .1	VT. Burlington . . .	11	- 6	1.6	- .1
IDAHO. Boise . . .	19	-10	.7	- .8	Trenton . . .	22	-10	2.3	- .5	VA. Lynchburg . . .	23	-14	1.8	- 1.0
Lewiston . . .	29	- 2	.3	- 1.0	N. MEX. Albuquerque . . .	30	- 5	.9	+ .6	Norfolk . . .	29	-12	3.3	- .1
Pocatello . . .	17	- 5	.7	- .4	Roswell . . .	39	+ 1	1.1	- .3	Richmond . . .	25	-13	2.2	- .7
ILL. Cairo . . .	22	-14	1.8	- 2.2	N. Y. Albany . . .	16	- 6	1.5	- .7	Roanoke . . .	24	-12	1.5	- 1.2
Chicago . . .	10	-14	.7	- 1.2	Binghamton . . .	12	-10	1.7	- .6	WASH. Colville . . .	19	- 5	.7	- 1.4
Moline . . .	8	-14	.9	- .8	Buffalo . . .	14	-10	3.4	+ .5	Osak . . .	20	- 1	.1	- 1.1
Peoria . . .	9	-15	1.2	- .6	New York . . .	22	-10	2.0	- .9	Quillayute . . .	39	0	8.3	- 6.3
Rockford . . .	6	-14	.6	- 1.2	Rochester . . .	16	- 8	1.5	- .8	Seattle-Tacoma . . .	39	+ 1	1.8	- 4.0
Springfield . . .	10	-17	1.5	- .3	Syracuse . . .	16	- 8	1.8	- .9	Spokane . . .	22	- 3	.8	- 1.7
IND. Evansville . . .	15	-18	1.9	- 1.5	N. C. Asheville . . .	25	-13	2.1	- 1.3	Walla Walla . . .	26	- 7	.6	- 1.5
Ft. Wayne . . .	8	-17	.5	- 2.0	Charlotte . . .	30	-12	2.7	- .8	Yakima . . .	25	- 3	.1	- 1.2
Indianapolis . . .	10	-18	1.5	- 1.4	Greensboro . . .	27	-12	2.3	- .9	W. Va. Beckley . . .	17	-14	2.0	- 1.5
South Bend . . .	12	-12	1.6	- .8	Hatteras . . .	36	- 9	4.5	+ .2	Charleston . . .	19	-16	1.9	- 1.5
IOWA. Burlington . . .	9	-14	.6	- 1.0	Raleigh . . .	27	-14	2.8	- .4	Huntington . . .	20	-14	2.4	- .8
Des Moines . . .	10	- 9	.5	- .6	Wilmington . . .	36	-10	2.9	- .3	Parkersburg . . .	17	-16	1.3	- 1.8
Dubuque . . .	3	-15	.8	- .9	N. DAK. Bismarck . . .	- 2	-10	.6	+ .1	WIS. Green Bay . . .	3	-12	.7	- .4
Sioux City . . .	9	- 9	.3	- .4	Fargo . . .	- 3	- 9	.6	+ .1	La Crosse . . .	3	-13	.9	- .1
KANS. Concordia . . .	19	- 7	.6	- .1	Williston . . .	0	- 8	1.0	+ .4	Madison . . .	4	-13	.5	- .8
Dodge City . . .	24	- 7	.5	0	OHIO. Akron-Canton . . .	11	-15	1.2	- 1.5	Milwaukee . . .	8	-11	.9	- .7
Goodland . . .	23	- 5	.4	0	Cincinnati . . .	12	-19	1.9	- 1.4	WYO. Casper . . .	20	- 3	.4	- .1
Topeka . . .	15	-13	.9	- .1	Cleveland . . .	11	-16	2.9	+ .3	Cheyenne . . .	22	- 5	.1	- .4
Wichita . . .	25	- 8	.5	- .4	Columbus . . .	11	-17	1.6	- 1.3	Lander . . .	16	- 4	.5	0
W. Va. Charleston . . .	18	-15	2.3	- 1.7	Dayton . . .	12	-16	1.6	- 1.2	Sheridan . . .	16	- 5	1.5	+ .8
LOUISIANA. Louisville . . .	19	-14	2.3	- 1.2	Toledo . . .	10	-15	1.3	- .8	P. R. San Juan . . .	77	+ 2	7.6	+ 3.9

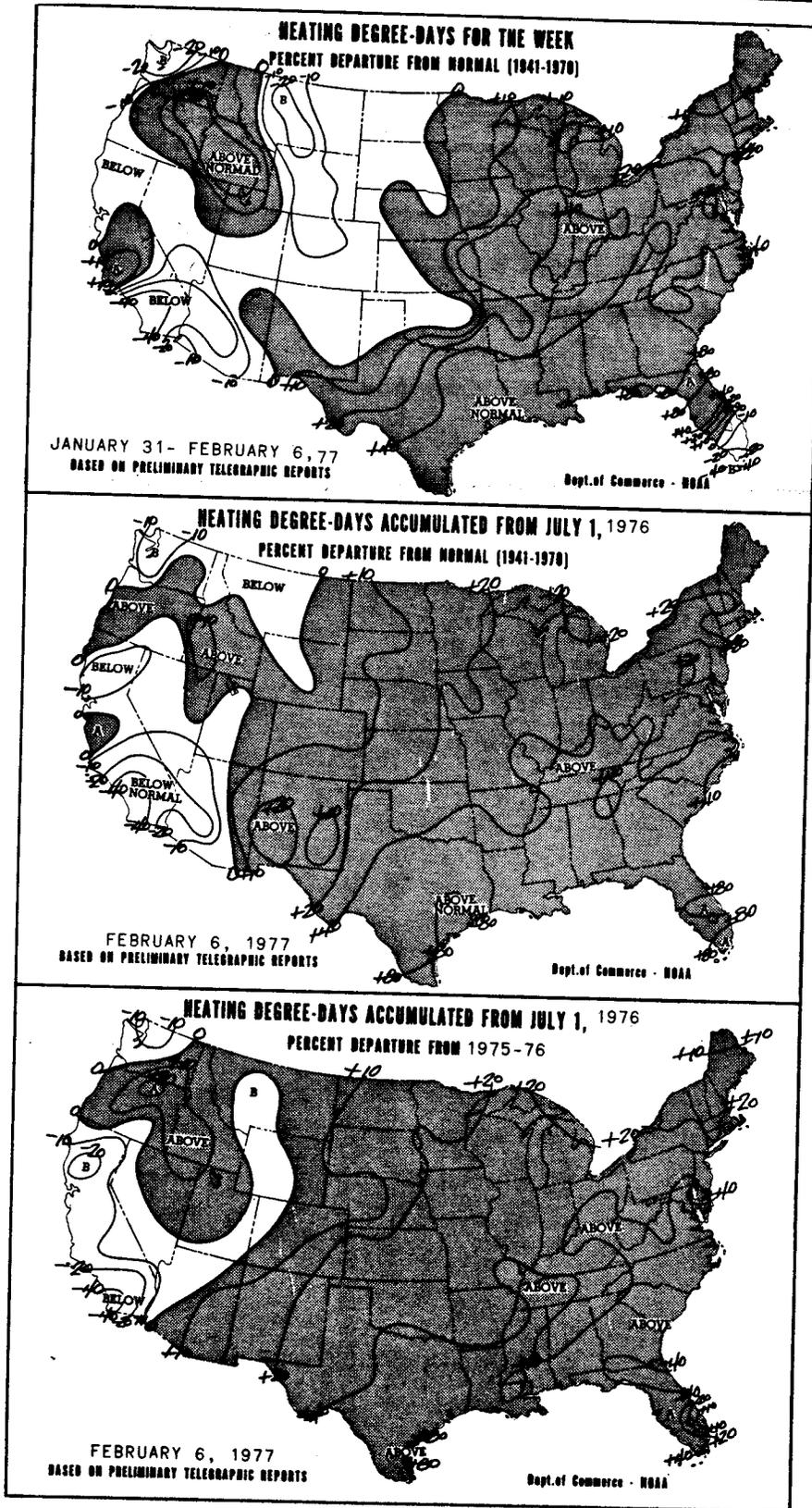
Based on 1941-70 normals

Heating Degree Days (Base 65° F.)

January 1977

ALA. Birmingham . . .	1026	MAINE, Caribou . . .	1828	OKLA. Okla. City . . .	1103
Mobile	738	Portland	1559	Tulsa	1174
Montgomery	894	MD. Baltimore	1297	OREG. Astoria	774
ALASKA, Anchorage . . .	1017	MASS. Boston	1290	Burns U.	1413
Barrow	2269	Chatham	1255	Medford	952
Fairbanks	1709	MICH. Alpena	1696	Pendleton	1192
Juneau	918	Detroit	1609	Portland	901
Nome	1255	Flint	1671	Salem	842
ARIZ. Flagstaff	1177	Grand Rapids	1616	PA. Allentown	1428
Phoenix	339	Houghton Lake	1743	Erie	1620
Tucson	435	Lansing	1666	Harrisburg	1387
Winslow	1186	Marquette U	1695	Philadelphia	1390
Yuma	276	S. Ste. Marie	1818	Pittsburgh	1655
ARK. Fort Smith	1186	MINN. Duluth	2017	Scranton	1546
Little Rock	1101	Internatl Falls	2195	R. I. Providence	1361
CALIF. Bakersfield . . .	559	Minneapolis	2005	S. C. Charleston	811
Eureka U.	537	Rochester	2071	Columbia	901
Fresno	636	St. Cloud	2085	Greenville	1057
Los Angeles U	215	MISS. Jackson	913	S. DAK. Aberdeen	1973
Red Bluff	617	Meridian	932	Huron	1849
Stockton	650	MO. Columbia	1587	Rapid City	1616
San Diego	143	Kansas City	1527	Sioux Falls	1867
San Francisco	549	St. Louis	1541	TENN. Chattanooga	1123
COLO. Denver	1105	Springfield	1421	Knoxville	1166
Grand Junction	1267	MONT. Billings	1452	Memphis	1056
Pueblo	1151	Glasgow	1918	Nashville	1250
CONN. Bridgeport	1274	Great Falls	1339	TEX. Abilene	901
Hartford	1429	Havre	1714	Amarillo	1075
D. C. Washington	1221	Helena	1449	Austin	719
FLA. Apalachicola	617	Kalispell	1405	Beaumont	626
Ft. Myers	281	Miles City	1775	Brownsville	319
Jacksonville	643	Missoula	1431	Corpus Christi	455
Key West	65	NEBR. Grand Island	1461	Del Rio	568
Lakeland U.	400	Lincoln	1604	El Paso	623
Miami	65	Norfolk	1624	Fort Worth	931
Orlando	440	North Platte	1493	Galveston U.	563
Daytona Beach	444	Omaha	1598	Houston	687
Tallahassee	649	Valentine	1672	Lubbock	939
Tampa	422	NEV. Ely	1324	Midland	755
GA. Atlanta	1099	Las Vegas	593	San Angelo	757
Augusta	906	Reno	1002	San Antonio	643
Macon	867	Winnemucca	1176	Victoria	586
Savannah	770	N. H. Concord	1683	Waco	827
IDAHO, Boise	1418	N. J. Atlantic City	1398	Wichita Falls	1022
Lewiston	1116	Trenton U	1333	UTAH, Milford	1217
Pocatello	1478	N. MEX. Albuquerque	1084	Salt Lake City	1175
ILL. Cairo U.	1309	Roswell	808	VT. Burlington	1667
Chicago	1695	N. Y. Albany	1526	VA. Lynchburg	1294
Moline	1755	Binghamton	1636	Norfolk	1104
Peoria	1747	Buffalo	1579	Richmond	1227
Rockford	1830	New York	1316	Roanoke	1275
Springfield	1693	Rochester	1524	WASH. Colville	1362
IND. Evansville	1549	Syracuse	1520	Omak	-----
Fort Wayne	1723	N. C. Asheville	1239	Quillayute	784
Indianapolis	1693	Charlotte	1075	Seattle-Tacoma	786
South Bend	1628	Greensboro	1184	Spokane	1324
IOWA, Burlington	1727	Hatteras R.	900	Walla Walla U.	1202
Des Moines	1700	Raleigh	1183	Yakima	1248
Dubuque	1909	Wilmington	899	W. VA. Beckley	1496
Sioux City	1738	N. DAK. Bismarck	2062	Charleston	1432
KANS. Concordia	1424	Fargo	2119	Huntington	1397
Dodge City	1274	Williston U	2024	Parkersburg U.	1466
Goodland	1296	OHIO. Akron-Canton	1656	WIS. Green Bay	1918
Topeka	1538	Cincinnati U.	1640	Madison	1898
Wichita	1253	Cleveland	1672	Milwaukee	1954
KY. Lexington	1457	Columbus	1659	WYO. Casper	1385
Louisville	1435	Dayton	1651	Cheyenne	1313
LA. Baton Rouge	710	Toledo	1708	Lander	1514
Lake Charles	671	Youngstown	1692	Sheridan	1520
New Orleans	664				
Shreveport	815				

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



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING FEB. 6, 1977.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76		TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76	TOTAL	DEPARTURE*	DEPARTURE FROM 1975-76
ALA. BIRMINGHAM...	207	67	2723	886	77	77	MAINE CARIBOU...	40	26	6431	710	497	YOUNGSTOWN.....	448	69	5186	1330	1284		
MOBILE.....	185	59	2497	824	77	77	PORTLAND.....	42	34	5196	798	720	OKLA. OKLAHOMA CITY	180	12	3035	597	736		
MONTGOMERY.....	188	59	2420	824	77	77	MD. BALTIMORE.....	260	38	3689	754	977	TULSA.....	72	12	3187	749	766		
ARIZ. FLAGSTAFF.....	24	24	40	22	22	22	MASS. BOSTON.....	287	35	3840	543	772	OREG. ASTORIA.....	1	1	1	238	98		
PHOENIX.....	24	24	40	22	22	22	MICH. ALPENA.....	660	60	5547	604	666	BURNS.....	1	1	1	29	98		
TUCSON.....	24	24	40	22	22	22	BETROIT.....	660	60	5547	604	666	MEDFORD.....	1	1	1	29	98		
HINSLON.....	24	24	40	22	22	22	FLINT.....	660	60	5547	604	666	PENDLETON.....	1	1	1	29	98		
YUMA.....	24	24	40	22	22	22	GRAND RAPIDS.....	660	60	5547	604	666	PORTLAND.....	1	1	1	29	98		
ARK. FORT SMITH.....	204	64	2740	900	78	78	HOGHTON LAKE.....	660	60	5547	604	666	SALEM.....	1	1	1	29	98		
LITTLE ROCK.....	204	64	2740	900	78	78	LANSING.....	660	60	5547	604	666	PA. ALLENTOWN.....	503	44	4301	747	939		
CALIF. BAKERSFIELD.....	11	1	201	134	134	134	MARQUETTE.....	660	60	5547	604	666	ERIE.....	503	44	4301	747	939		
EUREKA.....	11	1	201	134	134	134	MUSKOGON.....	660	60	5547	604	666	HARRISBURG.....	503	44	4301	747	939		
FRESNO.....	11	1	201	134	134	134	S. ST. MARIE.....	660	60	5547	604	666	PHILADELPHIA.....	503	44	4301	747	939		
LOS ANGELES.....	11	1	201	134	134	134	MINN. DULUTH.....	99	10	10	99	99	PITTSBURGH.....	503	44	4301	747	939		
RED BLUFF.....	11	1	201	134	134	134	INTERNAT. FALLS.....	99	10	10	99	99	SCRANTON.....	503	44	4301	747	939		
SAN DIEGO.....	11	1	201	134	134	134	MINNEAPOLIS.....	99	10	10	99	99	R. I. PROVIDENCE.....	506	47	4357	857	878		
SAN FRANCISCO.....	11	1	201	134	134	134	ROCHESTER.....	99	10	10	99	99	S. C. CHARLESTON.....	506	47	4357	857	878		
STOCKTON.....	11	1	201	134	134	134	ST. CLOUD.....	99	10	10	99	99	COLUMBIA.....	506	47	4357	857	878		
COLO. DENVER.....	209	22	3630	164	164	164	MISS. JACKSON.....	111	11	11	111	111	GREENVILLE.....	506	47	4357	857	878		
GRAND JUNCTION.....	209	22	3630	164	164	164	MONT. BILLINGS.....	111	11	11	111	111	ABERDEEN.....	506	47	4357	857	878		
PUEBLO.....	209	22	3630	164	164	164	GLASGOW.....	111	11	11	111	111	UTAH. SALT LAKE CITY	269	27	3685	31	88		
CONN. BRIDGEPORT.....	279	52	3762	633	776	776	GREAT FALLS.....	111	11	11	111	111	VT. BURLINGTON.....	366	27	5499	799	763		
HARTFORD.....	279	52	3762	633	776	776	HAVRE.....	111	11	11	111	111	VA. LYNCHBURG.....	366	27	5499	799	763		
DEL. WILMINGTON.....	281	50	3753	728	847	847	HELENA.....	111	11	11	111	111	NORFOLK.....	366	27	5499	799	763		
D. C. WASHINGTON.....	244	41	3343	688	998	998	KALISPELL.....	111	11	11	111	111	ROANOKE.....	366	27	5499	799	763		
FLA. APALACHICOLA.....	439	53	1549	617	482	482	MILES CITY.....	111	11	11	111	111	WASH. QUILLAVUTE.....	334	39	3188	236	168		
BAYTONA BEACH.....	439	53	1549	617	482	482	MISSOULA.....	111	11	11	111	111	SEATTLE-TACOMA.....	334	39	3188	236	168		
FORT MYERS.....	439	53	1549	617	482	482	NEBR. GRAND ISLAND.....	111	11	11	111	111	SPOKANE.....	334	39	3188	236	168		
JACKSONVILLE.....	439	53	1549	617	482	482	LINCOLN.....	111	11	11	111	111	HALLA HALLA.....	334	39	3188	236	168		
KEY WEST.....	439	53	1549	617	482	482	NORFOLK.....	111	11	11	111	111	YAKIMA.....	334	39	3188	236	168		
LAKELAND.....	439	53	1549	617	482	482	NORTH PLATTE.....	111	11	11	111	111	W. VA. BECKLEY.....	221	90	4634	116	1402		
MIAMI.....	439	53	1549	617	482	482	ORAMA.....	111	11	11	111	111	CHARLESTON.....	221	90	4634	116	1402		
ORLANDO.....	439	53	1549	617	482	482	VALENTINE.....	111	11	11	111	111	HUNTINGTON.....	221	90	4634	116	1402		
TALLAHASSEE.....	439	53	1549	617	482	482	NEV. ELI.....	111	11	11	111	111	WARKERSBURG.....	221	90	4634	116	1402		
TAMPA.....	439	53	1549	617	482	482	LAS VEGAS.....	111	11	11	111	111	WIS. GREEN BAY.....	39	6	166	128	1261		
WEST PALM BEACH.....	439	53	1549	617	482	482	RENO.....	111	11	11	111	111	LACROSSE.....	39	6	166	128	1261		
GA. ATLANTA.....	222	72	2997	948	917	917	MINNEAPOLIS.....	111	11	11	111	111	MADISON.....	39	6	166	128	1261		
AUGUSTA.....	222	72	2997	948	917	917	W. VA. CHARLESTON.....	111	11	11	111	111	MILWAUKEE.....	39	6	166	128	1261		
Macon.....	222	72	2997	948	917	917	NE. H. CONCORD.....	111	11	11	111	111	WYO. CASPER.....	39	6	166	128	1261		
SAVANNAH.....	222	72	2997	948	917	917	J. ATLANTIC CITY.....	111	11	11	111	111	CHEYENNE.....	39	6	166	128	1261		
IDAHO. BOISE.....	307	80	4077	446	515	515	TRENTON.....	111	11	11	111	111	LANDER.....	39	6	166	128	1261		
LEHISTON.....	307	80	4077	446	515	515	N. MEX. ALBUQUERQUE.....	111	11	11	111	111	SHERIDAN.....	39	6	166	128	1261		
POCATELLO.....	307	80	4077	446	515	515	ROSAM.....	111	11	11	111	111								
ILL. CAIRO.....	278	86	3757	1231	1269	1269	N. Y. ALBANY.....	111	11	11	111	111								
CHICAGO.....	278	86	3757	1231	1269	1269	BINGHAMTON.....	111	11	11	111	111								
MOLINE.....	278	86	3757	1231	1269	1269	BUFFALO.....	111	11	11	111	111								
PEORIA.....	278	86	3757	1231	1269	1269	NEW YORK.....	111	11	11	111	111								
ROCKFORD.....	278	86	3757	1231	1269	1269	ROCHESTER.....	111	11	11	111	111								
SPRINGFIELD.....	278	86	3757	1231	1269	1269	SYRACUSE.....	111	11	11	111	111								
IND. EVANSVILLE.....	320	102	4070	1086	1087	1087	N. C. ASHEVILLE.....	111	11	11	111	111								
FORT WAYNE.....	320	102	4070	1086	1087	1087	CHARLOTTE.....	111	11	11	111	111								
INDIANAPOLIS.....	320	102	4070	1086	1087	1087	GREENSBORO.....	111	11	11	111	111								
SOUTH BEND.....	320	102	4070	1086	1087	1087	MATERS.....	111	11	11	111	111								
IOWA. BURLINGTON.....	60	77	5105	1245	1354	1354	RALEIGH.....	111	11	11	111	111								
DES MOINES.....	60	77	5105	1245	1354	1354	WILMINGTON.....	111	11	11	111	111								
DUBUQUE.....	60	77	5105	1245	1354	1354	N. DAK. BISMARCK.....	111	11	11	111	111								
STOIX CITY.....	60	77	5105	1245	1354	1354	FARGO.....	111	11	11	111	111								
KANS. CONCORDIA.....	64	11	4117	572	757	757	MILLISTON.....	111	11	11	111	111								
DOBGE CITY.....	64	11	4117	572	757	757	OHIO. AKRON-CANTON.....	111	11	11	111	111								
GOODLAND.....	64	11	4117	572	757	757	CINCINNATI.....	111	11	11	111	111								
TOPEKA.....	64	11	4117	572	757	757	CLEVELAND.....	111	11	11	111	111								
NICHITA.....	64	11	4117	572	757	757	COLUMBUS.....	111	11	11	111	111								
KY. LEXINGTON.....	90	82	4187	1190	1084	1084	DAYTON.....	111	11	11	111	111								
LOUISVILLE.....	90	82	4187	1190	1084	1084	TOLEDO.....	111	11	11	111	111								
LA. BATON ROUGE.....	440	45	588	480	480	480														
LAKE CHARLES.....	440	45	588	480	480	480														
NEW ORLEANS.....	440	45	588	480	480	480														
SHREVEPORT.....	440	45	588	480	480	480														

* BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1976.

Agricultural Climatology Service Office
South Building Mail Unit
U. S. Department of Agriculture
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

POSTAGE AND FEES PAID
U.S. DEPARTMENT OF COMMERCE

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