

# Weekly Weather & Crop Bulletin

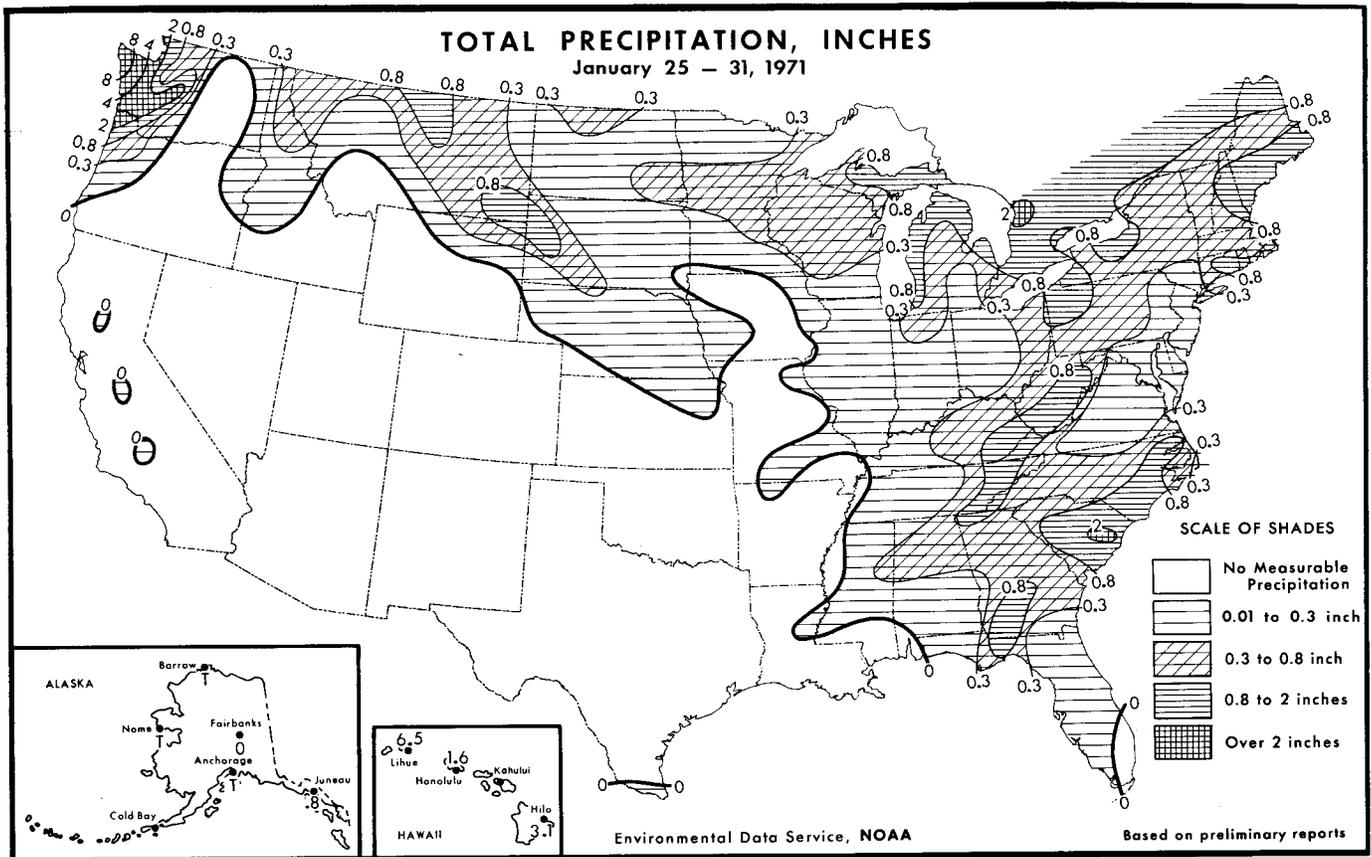
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U. S. DEPARTMENT OF AGRICULTURE  
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Edited by Lucius W. Dye

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## NATIONAL WEATHER SUMMARY

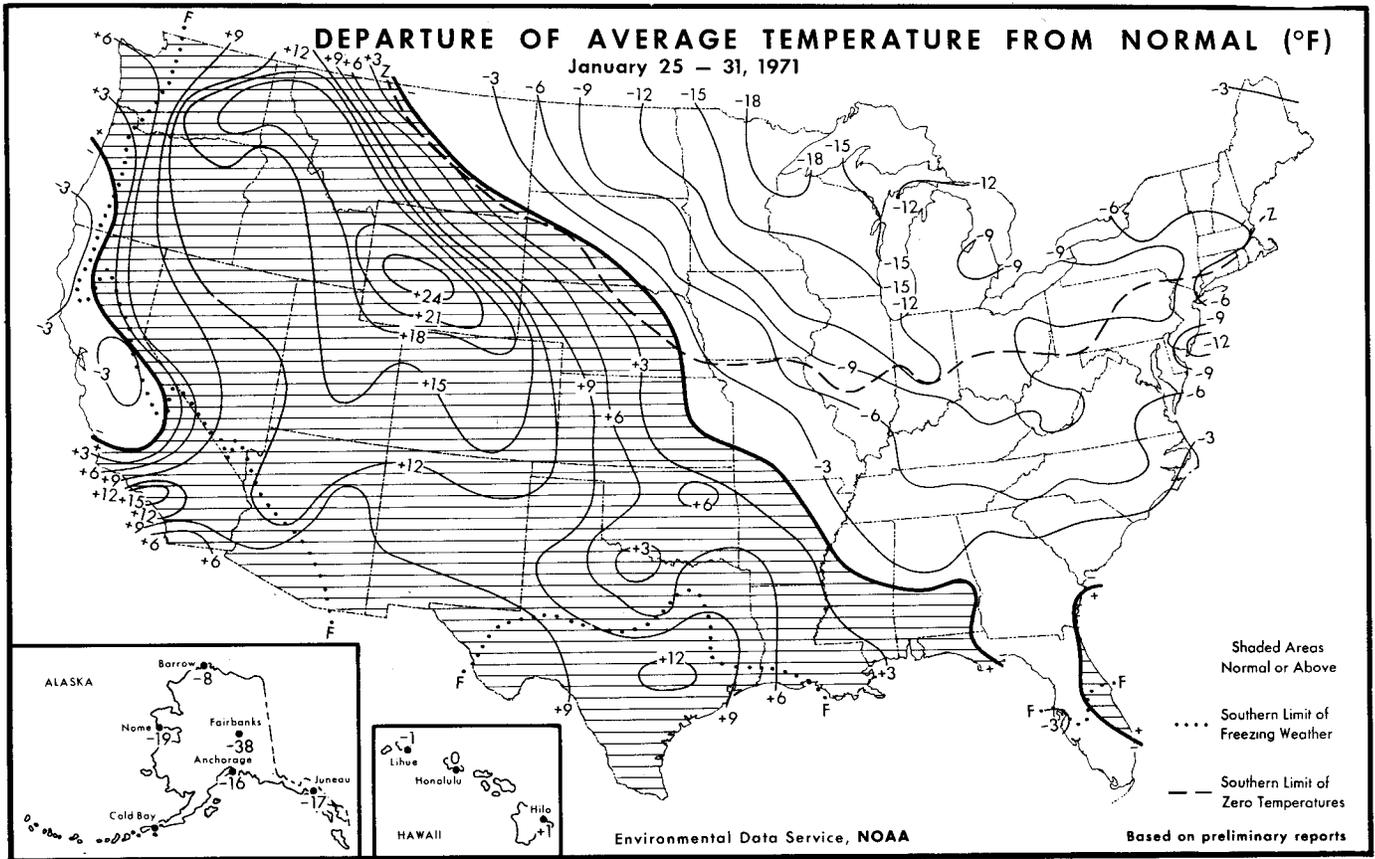
**HIGHLIGHTS:** The West was mostly fair and mild. The East was cold, windy, and stormy.

**PRECIPITATION:** Rain, heavy at times, fell along the northern Pacific coast. Quillayute, Wash., received 6.60 inches in the 24-hours period ending at noon Tuesday. Heavy snow fell in the nearby hills and the Cascades. The snow depth at Stampede Pass, Wash., reached 215 inches Monday evening and it was still snowing. Paradise Ranger Station, Wash., on the south side of Mt. Rainier, received 88 inches of snow in 3 days, Friday to Sunday, bringing their snow depth to 232 inches.

A massive winter storm centered over the northern Great Plains on Monday, moved to Ontario, Canada, during the week spreading miserable weather from the northern Great Plains to New England. Winds gusted to 50 to 70 m.p.h. at times, being especially strong on Tuesday. The strong winds, accompanied by heavy snow and poor

visibility made automobile travel impossible at some places and extremely hazardous at many others. Early in the week, thunderstorms occurred along the Atlantic coast and dense fog covered parts of the Deep South. As the weekend approached, the rains slackened in the Northwest. More snow fell in the Northeast. Boonville, N.Y., with 10 inches of new snow, measured a recordbreaking 60 inches on the ground Saturday morning. Strong winds, gusting to 60 m.p.h. or more drifted the snow badly and closed roads in the area. Week-end showers brought additional rain to the Southeast.

A large area from southern Oregon and California to the Mississippi River received no precipitation or only widely scattered light sprinkles during the week. Rains along the Washington coast ranged from 2.00 to almost 9.00 inches. Totals elsewhere ranged mostly from 0.10 inch to about 1.00 inch.



**TEMPERATURE:** Arctic air poured into the north-central States and spread eastward and southward. The mercury at International Falls, Minn., plunged to 30° below zero Tuesday morning. By Thursday, subzero weather had been experienced in more than a dozen States from Montana to Maine and as far south as Iowa and Illinois. Subfreezing temperatures occurred in all of the Continental States Thursday morning and midday maximums were below zero in parts of Minnesota and in the northern portions of New York and New England. Gainesville, Fla., registered 25° Thursday morning.

Mild temperatures occurred across the South from California to Florida. Some of the higher readings were 88° at Cotulla, Texas, on Monday, 85° at Vero Beach, Fla., on Tuesday, and 90° at Thermal, Calif., and 83° at Phoenix, Ariz., on

Wednesday.

The weekend brought contrasting temperatures to the Nation. On Saturday morning subzero temperatures occurred from eastern Montana to the Great Lakes and as far south as central Illinois. In the afternoon recordbreaking warmth covered southern Texas and parts of Washington and Oregon. In general, weekly mean temperatures were above normal over the West and South-Central and below normal from the northern Great Plains to the Atlantic Ocean and southward to Georgia and Florida. The Great Basin and the northern and central Rocky Mountains averaged 12° to 24° warmer than normal. The Great Lakes region averaged 12° to 18° colder than normal.

L. W. Dye

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Warm weather caused some greening of small grains in the central and southern Great Plains. Livestock in the northern section of the Country suffered from the cold, windy weather.

**SMALL GRAINS:** Dry and unseasonably mild temperatures prevailed over most of the Great Plains. Winter wheat in the central and southern Great Plains showed some greening, but the lack of moisture held growth to a minimum. The condition of the crop is below last year in some States and moisture would be more than welcome over the area.

In Kansas, wind erosion has been light to date, but sparsely covered and dry fields are subject to blowing should high winds occur. Strong winds did cause some blowing in central and southwestern Nebraska, but damage was limited to unprotected fields. Warm temperatures reduced snow cover in South Dakota permitting the strong winds to cause damage in some grain fields.

In Texas and Oklahoma, dryland small grain prospects deteriorated as the dry weather prevailed in the western 2/3 of both States. Irrigated small grain growth was stimulated by the warm temperatures in Texas. Seedbed preparation for spring-planted grains continued in Oklahoma, but rain in needed before seeding.

Small grains in the Pacific Northwest have ample to excessive moisture (some flooding) and are making satisfactory progress. Growth is good in California and Arizona with some growers still seeding wheat and barley. Fall-seeded grains are wintering well in the Corn Belt, despite a very limited snow cover. Grains are fair to good in the South, with fieldwork for spring planting being delayed by the weather. Topdressing is beginning in many areas as soils become dry enough to support machinery.

**OTHER CROPS:** Irish potato planting was active in Alabama and Louisiana while in California digging was slow in the San Joaquin Valley. Fog usually delayed the start of cotton picking in California's southern San Joaquin valley until noon. In Arizona fall-planted sugar beets are in good condition with safflower also making good growth. Grinding of the sugarcane crop in Hawaii continued despite wet conditions.

**Fruits and Nuts:** Florida citrus growers are harvesting rapidly after last week's severe

freeze. The condition of both citrus trees and fruit ranges from good to poor, with the most damage occurring to younger trees and to fruit in some cold areas. Citrus harvest progressed rapidly under clear skies in both Texas and Arizona. Freeze damage to fruit trees is evident in Arizona and northern New Mexico. California growers are preparing orchard heaters in case cold weather should return. Navels are being picked with some frost damage showing up and this fruit being sent for processing. Orchardmen in more northern areas of the Nation continue to prune and care for their trees as weather permits.

**Vegetables:** Shipments declined from Florida as the damage caused by the two late January freezes has started to take its toll. The re-seeding of sweet corn, tomatoes and watermelons is active on many farms. Movement of California vegetables is light to moderate, however, a good supply of lettuce is available from the Imperial Valley. In Arizona, spring vegetables are growing well under favorable conditions. Harvest of various commodities continued in the Salt River Valley.

A large volume of lettuce, cabbage and carrots is available from South Texas. Early emerged spring crops are making good progress. Louisiana strawberries are starting to bloom.

**PASTURES AND LIVESTOCK:** Below normal temperatures, snow and strong winds made it an uncomfortable week for livestock in the northern section of the Country. The bitter cold forced livestock producers to put cattle on heavy feed rations to maintain body heat. However, warmer temperatures in the West and central areas improved the condition of livestock. Mild weather reduced the snow cover in the northern Rockies allowing livestock to do more field grazing and thus reducing the need for extra feed. Pastures continue to decline in the Southwest as conditions remained very dry. Fall-seeded small grains are able to furnish only limited grazing in Texas and Oklahoma. Pastures in the South are mostly fair with normal winter feeding required.

Caring for new born animals was given top priority on many farms during the cold week. Some livestock deaths in South Dakota were attributed to pneumonia.

Steve J. Pscodna  
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., January 31, 1971

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 . . . . .	43	- 5	.4	-.8	New Orleans . . . . .	59	+ 4	0	-.9	OKLA. Okla. City . . . . .	42	+ 5	0	-.3
Mobile . . . . .	56	+ 2	T	-1.0	Shreveport . . . . .	56	+ 8	T	-1.0	Tulsa . . . . .	42	+ 6	T	-.4
Montgomery . . . . .	50	+ 1	.1	-.8	MAINE. Caribou . . . . .	8	- 3	.9	+ .4	OREG. Astoria . . . . .	44	+ 3	3.9	+1.2
ALASKA. Anchorage . . . . .	2	-16	T	-.2	Portland . . . . .	17	- 5	.9	-.1	Burns . . . . .	39	+14	T	-.4
Barrow . . . . .	-26	- 8	T	0	MD. Baltimore . . . . .	30	- 6	.1	-.7	Medford . . . . .	36	0	T	-.7
Fairbanks . . . . .	-48	-38	0	-.2	MASS. Boston . . . . .	24	- 6	.6	-.3	Pendleton . . . . .	48	+16	T	-.3
Juneau . . . . .	8	-17	.8	-.1	Chatham . . . . .	25	-10	.9	---	Portland . . . . .	43	+ 4	.4	-.8
Nome . . . . .	-14	-19	T	-.2	MICH. Alpena . . . . .	9	-10	1.1	+ .7	Salem . . . . .	41	+ 2	.4	-1.0
ARIZ. Flagstaff . . . . .	40	+13	0	-.4	Detroit . . . . .	16	-11	.4	-.1	PA. Allentown . . . . .	20	- 9	.1	-.7
Phoenix . . . . .	59	+ 9	0	-.2	Flint . . . . .	15	- 7	.2	-.2	Erie . . . . .	17	-10	.8	+ .2
Tucson . . . . .	57	+ 7	0	-.2	Grand Rapids . . . . .	14	-10	.6	+ .2	Harrisburg . . . . .	25	- 6	.4	-.3
Winslow . . . . .	39	+ 6	0	-.1	Houghton Lake . . . . .	9	-10	.4	+ .1	Philadelphia . . . . .	27	- 6	.1	-.7
Yuma . . . . .	63	+ 9	0	-.1	LaSaug . . . . .	14	-10	.3	-.1	Pittsburgh . . . . .	21	- 8	.5	-.2
ARK. Fort Smith . . . . .	44	+ 3	T	-.7	Marquette . . . . .	6	-13	1.1	+ .6	Scranton . . . . .	17	-10	.2	-.3
Little Rock . . . . .	44	+ 3	T	-1.2	Muskegon . . . . .	17	- 9	1.0	+ .5	R.I. Providence . . . . .	24	- 5	.6	-.3
CALIF. Bakersfield . . . . .	48	0	.5	+ .3	S. Ste. Marie . . . . .	2	-13	1.3	+ .9	S.C. Charleston . . . . .	50	- 1	1.5	+ .9
Eureka . . . . .	44	- 4	0	-1.5	MINN. Duluth . . . . .	-10	-19	.6	+ .3	Columbia . . . . .	45	- 3	1.7	+1.0
Fresno . . . . .	45	- 3	0	-.5	Internatl Falls . . . . .	-15	-18	.1	-.1	Greenville . . . . .	39	- 6	.7	-.2
Los Angeles . . . . .	72	+16	0	-.6	Minneapolis . . . . .	- 2	-15	.5	+ .4	S. DAK. Aberdeen . . . . .	4	- 7	-1	-.1
Red Bluff . . . . .	47	+ 1	T	-1.0	Rochester . . . . .	0	-13	.2	0	Huron . . . . .	7	- 5	T	-.1
San Diego . . . . .	60	+ 5	0	-.5	St. Cloud . . . . .	- 6	-16	.3	+ .2	Rapid City . . . . .	24	+ 3	.9	+ .8
San Francisco . . . . .	48	- 1	0	-1.0	MISS. Jackson . . . . .	51	+ 2	T	-1.2	Sioux Falls . . . . .	7	- 7	T	-.1
Stockton . . . . .	43	- 3	T	-.6	Meridian . . . . .	50	+ 1	.1	-1.0	TENN. Chattanooga . . . . .	39	- 4	1.1	-.1
COLO. Denver . . . . .	46	+17	0	-.2	MO. Columbia . . . . .	28	- 3	T	-.4	Knoxville . . . . .	36	- 6	.9	-.2
Grand Junction . . . . .	39	+12	0	-.2	Kansas City . . . . .	30	- 2	T	-.3	Memphis . . . . .	39	- 3	T	-1.4
Pueblo . . . . .	48	+17	0	-.1	St. Louis . . . . .	28	- 4	T	-.4	Nashville . . . . .	34	- 6	.1	-1.2
CONN. Bridgeport . . . . .	26	- 4	.5	-.4	Springfield . . . . .	34	0	T	-.4	TEX. Abilene . . . . .	53	+ 8	0	-.2
Hartford . . . . .	21	- 6	1.0	+ .1	MONT. Billings . . . . .	29	+ 7	.4	+ .3	Amarillo . . . . .	47	+10	0	-.2
D.C. Washington . . . . .	31	- 6	T	-.7	Glasgow . . . . .	6	- 2	.4	+ .2	Austin . . . . .	65	+14	T	-.5
FLA. Apalachicola . . . . .	57	+ 1	.6	-.1	Great Falls . . . . .	27	+ 6	.1	0	Beaumont . . . . .	62	+ 8	T	-.9
Ft. Myers . . . . .	61	- 3	.2	-.2	Havre . . . . .	11	- 1	1.1	+1.0	Brownsville . . . . .	74	+12	T	-.3
Jacksonville . . . . .	56	- 1	.1	-.5	Helena . . . . .	37	+19	T	-.1	Corpus Christi . . . . .	68	+10	0	-.4
Key West . . . . .	69	- 1	T	-.3	Kalispell . . . . .	38	+18	.4	+ .1	Dallas . . . . .	55	+ 8	0	-.5
Lakeland . . . . .	60	- 3	T	-.5	Miles City . . . . .	14	- 2	.8	+ .7	Del Rio . . . . .	62	+ 9	T	-.2
Miami . . . . .	66	- 1	0	-.4	Missoula . . . . .	39	+19	.1	-.1	El Paso . . . . .	51	+ 7	0	-.1
Orlando . . . . .	62	+ 1	.1	-.3	NEBR. Grand Island . . . . .	26	+ 3	.1	0	Fort Worth . . . . .	51	+ 4	0	-.5
Tallahassee . . . . .	53	- 1	1.0	+ .2	Lincoln . . . . .	23	- 2	.1	-.1	Galveston . . . . .	63	+ 8	0	-.8
Tampa . . . . .	58	- 3	.1	-.4	Norfolk . . . . .	19	0	T	-.2	Houston . . . . .	62	+10	T	-.8
GA. Atlanta . . . . .	44	- 1	.6	-.5	North Platte . . . . .	30	+ 6	.2	+ .1	Lubbock . . . . .	47	+ 7	0	-.1
Augusta . . . . .	46	- 2	.7	0	Omaha . . . . .	17	- 4	.1	-.1	Midland . . . . .	54	+ 9	0	-.2
Macon . . . . .	49	- 1	.6	-.2	Valentine . . . . .	23	+ 3	.4	+ .3	San Angelo . . . . .	57	+ 9	T	-.2
Savannah . . . . .	52	0	.4	-.2	NEV. Ely . . . . .	34	+11	0	-.2	San Antonio . . . . .	62	+10	T	-.4
HAWAII. Hilo . . . . .	72	+ 1	3.1	+ .8	Las Vegas . . . . .	54	+10	0	-.2	Victoria . . . . .	66	+10	T	-.4
Honolulu . . . . .	72	0	1.6	+ .6	Reno . . . . .	39	+ 7	0	-.2	Waco . . . . .	58	+ 9	0	-.5
Kahului . . . . .	---	---	---	---	Winnemucca . . . . .	40	+12	0	-.2	Wichita Falls . . . . .	46	+ 2	0	-.3
Lihue . . . . .	70	- 1	6.5	+5.1	N. H. Concord . . . . .	16	- 6	.8	+ .1	UTAH. Blanding . . . . .	41	+13	0	-.3
IDAHO. Boise . . . . .	41	+12	.1	-.3	N. J. Atlantic City . . . . .	23	-12	.6	-.2	Salt Lake City . . . . .	43	+15	0	-.3
Lewiston . . . . .	46	+15	.2	-.1	Trenton . . . . .	27	- 6	.3	-.5	VT. Burlington . . . . .	12	- 4	.7	+ .3
Pocatello . . . . .	39	+16	T	-.3	N. MEX. Albuquerque . . . . .	46	+10	0	-.1	VA. Lynchburg . . . . .	31	- 7	.1	-.6
ILL. Cairo . . . . .	---	---	---	---	Roswell . . . . .	50	+11	0	-.1	Norfolk . . . . .	38	- 4	.4	-.4
Chicago . . . . .	13	-13	.2	-.2	N. Y. Albany . . . . .	15	- 8	.6	0	Richmond . . . . .	33	- 6	.1	-.7
Moline . . . . .	11	-11	T	-.4	Binghamton . . . . .	13	-11	.4	-.1	Roanoke . . . . .	32	- 7	T	-.7
Peoria . . . . .	16	-10	T	-.4	Buffalo . . . . .	16	- 8	.8	+ .2	WASH. Colville . . . . .	36	+11	.1	-.3
Rockford . . . . .	9	-13	.2	-.2	New York . . . . .	28	- 6	.2	-.6	Omak . . . . .	32	+10	0	-.3
Springfield . . . . .	21	- 7	.2	-.2	Rochester . . . . .	17	- 8	1.7	+1.1	Quillayute . . . . .	45	+ 6	9.0	+5.6
IND. Evansville . . . . .	28	- 6	.1	-.9	Syracuse . . . . .	18	- 6	.8	+ .1	Seattle-Tacoma . . . . .	45	+ 6	.7	-.6
Fort Wayne . . . . .	16	-11	.3	-.3	N. C. Asheville . . . . .	34	- 6	.2	-.5	Spokane . . . . .	44	+19	.1	-.4
Indianapolis . . . . .	17	-13	.1	-.6	Charlotte . . . . .	38	- 5	.5	-.3	Walla Walla . . . . .	52	+19	.1	-.3
South Bend . . . . .	17	- 9	.8	+ .3	Greensboro . . . . .	34	- 7	.3	-.5	Yakima . . . . .	44	+16	0	-.3
IOWA. Burlington . . . . .	15	- 9	T	-.4	Hatteras . . . . .	44	- 2	.3	-.5	W. VA. Beckley . . . . .	24	-10	1.3	+ .4
Des Moines . . . . .	16	- 4	T	-.3	Raleigh . . . . .	35	- 7	.4	-.4	Charleston . . . . .	28	- 9	.8	-.2
Dubuque . . . . .	6	-14	.2	-.2	Wilmington . . . . .	45	- 3	1.0	+ .4	Huntington . . . . .	27	-10	.6	-.3
Sioux City . . . . .	15	- 4	T	-.2	N. DAK. Bismarck . . . . .	1	-10	.3	+ .2	Parkersburg . . . . .	26	- 9	.4	-.4
KANS. Concordia . . . . .	29	+ 1	T	-.2	Fargo . . . . .	6	-12	.5	+ .4	WIS. Green Bay . . . . .	0	-16	.5	+ .2
Dodge City . . . . .	38	+ 6	0	-.2	Williston . . . . .	1	- 6	.1	0	La Crosse . . . . .	2	-14	.5	+ .2
Goodland . . . . .	40	+11	T	-.1	OHIO. Akron-Canton . . . . .	20	- 8	.5	-.1	Madison . . . . .	4	-13	.3	0
Topeka . . . . .	28	- 1	T	-.2	Cincinnati . . . . .	24	-10	.1	-.8	Milwaukee . . . . .	5	-16	.2	-.2
Wichita . . . . .	35	+ 2	T	-.2	Cleveland . . . . .	17	-11	.4	-.2	WYO. Casper . . . . .	41	+18	T	-.2
KY. Lexington . . . . .	26	- 9	.6	-.5	Columbus . . . . .	21	- 9	.2	-.6	Cheyenne . . . . .	44	+19	T	-.1
Louisville . . . . .	28	- 7	.3	-.7	Dayton . . . . .	19	-10	.1	-.7	Lander . . . . .	43	+24	0	-.1
LA. Baton Rouge . . . . .	58	+ 4	0	-1.1	Toledo . . . . .	17	- 9	.2	-.3	Sheridan . . . . .	28	+ 8	.4	+ .3
Lake Charles . . . . .	60	+ 6	T	-1.0	Youngstown . . . . .	16	-11	.9	+ .2	P. R. San Juan . . . . .	77	+ 2	.1	-.9

\* Departures are from 30-year means (1931-60). Based on preliminary reports

## CONDENSED STATE SUMMARIES

These summaries provide brief descriptions of condition and activities important on a national scale. Detailed reports of crop and weather conditions during the growing season are contained in State issues of Weekly Weather and Crop Bulletins published by field offices of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA State Climatologists.

**ALABAMA:** Cloudy and mild with showers 1st of week, then fair and much colder with freezing temperatures all sections Wednesday and Thursday. Mild with occasional periods of rain Friday and Saturday. Rain ending and much colder Sunday. Temperatures for week averaged about normal with large day-to-day changes. Rainfall generally light. Land preparation underway many southern counties. Other areas, farmers mostly involved with records, planning, care of livestock and poultry. Farmers purchasing production supplies in south. Growth of small grains limited north and central--slight freeze damage sustained. Plant growth in south only fair. Late spring potato planting gained momentum. Cole crops variable due to cold weather effects. Livestock condition mostly fair.

**ARIZONA:** No snow at any stations. Skies mostly clear and temperatures much above normal over State again this week. No precipitation. Small grains making very good growth due recent warm weather. Planting nearly complete, but continues on limited scale central and southwest areas. Cotton shredding and plowing nearing completion. Land preparations, applications of herbicides, furrowing out underway for 1971 cotton crop. Safflower planting nearing completion, earlier-planted fields making good growth. Fall-planted sugar beets good condition. Mixed vegetable harvest continued Salt River Valley. Generally less freeze injury than anticipated. Spring lettuce in Salt River Valley, Pima and Pinal Counties making satisfactory progress. Yuma area young lettuce, cabbage, carrots, and onions growing well under favorable conditions. Preparations for melons and tomatoes continued in full swing. Land preparations active Cochise County for spring planting. Harvest of sweet oranges and lemons virtually complete Salt River Valley. Lemons, grapefruit and sweet and navel orange harvest continued Yuma area, limited scale. Freeze damage evident colder areas both Yuma and Salt River Valley with considerable defoliation. Fruit loss mainly sweets, valencias and grapefruit, but extent undetermined. Range feed and stock water supplies diminishing due to lack of winter precipitation and warm temperatures. Supplemental feeding necessary most areas.

**ARKANSAS:** Temperatures for week generally above normal though Mountain Home and Jonesboro slightly below normal. Greatest departure was +5° at Camden. Extremes: 76° at Camden and Texarkana on 30th and 15° at Mountain Home on January 28 and at Gilbert on February 1. Rainfall very light with only 4 regular reporting stations having measurable amounts. Greatest was 0.07 inch at Harrison. Numerous stations reported traces. Very little fieldwork activity, wet fields. Limited cotton and soybean harvest northeast. Mild temperatures stimulated growth of small grains and cool season pastures. Livestock good condition, normal winter feeding required.

**CALIFORNIA:** Heavy fog in central valley after midweek. Continued warm south of Tehachapi and in interior basins. Average temperatures near normal in San Joaquin Valley and 4° to 10° above in most of rest of State. Dry weather aided drying of saturated fields in north. Planting wheat

and barley resumed. Preparation of land for spring planting underway. Early-seeded small grains doing well Lower Sacramento and San Joaquin Valleys. Fog in southern San Joaquin Valley delayed cotton harvest until midday. Conditions Southern California very good; crops showing very good growth and development. Winter operations continue in orchards. Almonds starting buds swell. Orchard heaters being prepared. Navel orange harvest continues. Frost-damaged roots showing up, but being culled for processing. Packed fruit of good quality. Lemon harvest continues. Harvest of avocados continues with minor frost damage. Grapefruit harvest continues Desert Valley. Date harvest active. Forage growth ahead of normal. Supplemental feeding continued northern valleys, higher elevations. Stock water outlook good. Calving, lambing continue north, coastal areas. Imperial Valley asparagus harvest slowly increasing. Broccoli moderately light. Cabbage volume light because poor market. Carrot harvest light. Cauliflower seasonally light. Good supply celery, market permitting. Imperial Valley lettuce supply good, quality fair. Winter potato digging progressing slowly San Joaquin Valley. Small volume strawberries San Diego, remaining areas continue plant preparation.

**COLORADO:** Second unseasonably warm week. Much cooler eastern plains Sunday as cold front moved in. No precipitation except for light snow scattered mountain areas. Extensive melting of mountain snow cover from warmth and frequent periods of high winds. Winter wheat and barley condition good. Warm weather causing greening isolated areas, but causing little concern at present. Most fields still dormant. Topsoil moisture short most of State. Subsoil moisture short to adequate. Minor wind damage to wheat by blowing soil. Most light soil eastern plains susceptible to high winds. Range and pasture forage ample. Hay supply adequate. Limited supplemental feeding. Livestock condition good.

**FLORIDA:** Temperatures averaged near or above normal, although nighttime low temperatures on 27th and 28th caused 2d cold wave in a week. Low temperatures were in 20's in northern and central Florida, and mainly 30's in southern section. As opposed to last week's freeze, freezing temperatures were only of short duration. Rainfall averaged 0.10 inch in northern and central sections, mainly preceding cold front on 27th. Only widely scattered showers southern section. Cold damage to small grains relatively light. Land preparation active. Pastures further damaged by freeze and frost. Cattle condition declining. Supplemental feeding necessary. Citrus tree and fruit condition good to poor. Severest condition confined mostly younger trees and cold pockets. Rain badly needed, irrigation full swing. Harvest at high level. Vegetable shipments further declined. Damage from 2 periods late January cold general to extensive. Supplies all commodities variable. Growth, maturity slowed. Replanting sweet corn, tomatoes, watermelons active where not too late; other planting as scheduled.

**GEORGIA:** Rain beginning of week and on Friday night and Saturday. Amounts mostly light except in north and extreme southwest where some totals



adequate, but hay and roughage short local areas. Some TGE infection reported in hogs. Land preparation, fertilization and machinery repair underway for new planting.

**KENTUCKY:** Cold except for maximum temperatures near to much above normal 25th and 29th. Averages for week 5° to 10° below normal. Temperatures did not rise to freezing mark most sections 3 days--27th, 28th, 31st. Precipitation totals 0.02 inch to 1.12 inches. Snow, trace or more, 5 days. General snow over weekend. Falls of 1 to 5 inches. Heaviest in east. Scattered thunderstorms with some hail night of 29th, portions of Bluegrass and southeast. Cold temperatures increased need for supplemental feed. Livestock continues in satisfactory condition. Most burley markets closed.

**LOUISIANA:** Daily temperatures varied over large range. Averages near normal northeast, 3° to 6° above normal remainder of State. Extremes: 84° Shreveport Saturday; 25° Ashland and Winnfield Thursday. Precipitation restricted to scattered light showers late in week. Soil moisture short northwest, excessive northeast, generally adequate elsewhere. Plowing more active. Shaving of stubble cane started. Some herbicide applied. Irish potato planting active. Some sweet potatoes bedded. Strawberries beginning to bloom. Winter pastures above average, top dressing continued. Livestock condition good.

**MARYLAND AND DELAWARE:** Temperatures for 5th straight week averaged below normal. This time 6° to 8° below normal. Precipitation light, mostly less than 0.50 inch. Unusually strong gusty winds on 26th, 27th brought damage and injury to 2-State area. January 1971 temperatures averaged much below normal; precipitation below normal except above normal in west; snowfall near normal, except above normal in west. Continued cold with alternate freezing and thawing putting stress on late-seeded grain fields. Orchard work slowed or halted by cold and high winds. Livestock care more difficult, but most herds in good condition with adequate feed supplies.

**MICHIGAN:** Two major snowstorms and bitter cold temperatures. Blizzard or near-blizzard conditions prevailed on 26th and again on afternoon and evening of 29th. The Upper Peninsula and northern and western Lower Michigan were hardest hit. From 1.00 to 1.75 inches moisture reported from those areas, while remainder of State received from 0.25 to 0.50 inch moisture. Temperatures for week averaged from 8° to 10° below normal in Lower Michigan and from 10° to 15° below normal in Upper Peninsula.

**MINNESOTA:** Temperatures averaged 4° to 18° below normal with many areas in northern Minnesota having temperatures below zero since 25th. Precipitation general with heaviest of 0.4 to 0.6 inch water equivalent over east-central and northeast districts. New snowfall of 3 to 12 inches fell over northeast 1/3 on 25th to 26th. Blizzard conditions hit most of State on 29th as 1 to 4 inches of new snow fell and was whipped around by 30 to 50 m.p.h. winds followed by cold wave afternoon and night of 29th. No deaths during storm but 2 died of exposure on 30th. Snow depths generally 10 to 20 inches except 20 to 28 inches Fosston-Grand Rapids-Virginia areas and less than 10 inches southwest district. Very cold week kept farm activities to minimum. Livestock mostly good.

**MISSISSIPPI:** Rain early in week. Temperatures reached 79° on 24th at Wiggins and on 25th at Vicksburg, then dropped to 20° Wednesday at Ripley and Thursday at Holly Springs, Ripley, and University. Weekly precipitation totals Friday morning ranged from 3.55 inches at Charleston to none in parts of coastal area. Weekly temperature averages mostly 2° to 4° or more above normal. Over weekend scattered very light precipitation mostly in central Mississippi. Temperatures rose to 78° Saturday at several places, while this morning 16° was reported at Tupelo. Soil moisture varied from adequate to surplus. Winter wheat, oats and livestock fair to good condition. Pastures mostly fair condition. Hay and roughage supplies generally adequate. Feed grain supplies short to adequate. Average 2 1/2 days suitable for fieldwork.

**MISSOURI:** Pleasant week characterized by strong warming midweek and rapid cooling on weekend. Temperatures averaged near normal north to 4° above normal south. Temperature extremes were 82° at Doniphan on Friday and 1° below zero at Memphis on Wednesday. Precipitation for week was light. Measurable amounts were small and were in southeast and extreme northeast.

**MONTANA:** Alternating cold and warm periods east. Very warm west. Temperature averages ranged slightly below normal east to 25° above normal southwest. Snowfall heavy western mountains and in plains area east of Havre to Billings. Nearly all livestock receiving supplemental feed with heavy feeding eastern Montana. Grazing closed most of eastern and north-central district. Calving to begin 7 to 10 days. Winter wheat snow covered eastern and north-central areas.

**NEBRASKA:** Several windy days. Frequent sharp temperature changes. Strong winds caused some local blowing dust in central, southwest, and southern Panhandle. Erosion control field operations performed especially on lighter soil. Damage to fall-sown wheat and rye limited to unprotected areas. Warm temperatures in west caused some greening of wheat fields. Livestock grazing stalk fields, thus reducing demands for supplemental feeding. Young stock requiring extra care but no abnormal losses.

**NEVADA:** Temperatures all stations above average. Extreme south 9° above average to 14° above in north. No precipitation. 1 inch snowfall in Ely. Snow ground cover in mountains. Melting snow created some problems in State making it difficult to feed and care for livestock. Open ranges in fair to good condition with grass starting to grow due mild weather. Livestock fair to good condition with death losses light. Radishes being planted in Moapa Valley.

**NEW ENGLAND:** Another very cold week except mild at beginning and briefly again on Saturday. Temperatures averaged 3° to 8° below normal. Coldest mostly on Monday morning with -31° at Greenville, Maine, and Chester, Massachusetts. Precipitation variable but mostly 0.50 to 1.00 inch, with heaviest on January 26 and 30. Precipitation on 26th mostly as rain much of area. New snowfall mostly 1 to 10 inches, but locally to over 15 inches in north.

**NEW JERSEY:** Sixth consecutive week of below-normal temperatures. Readings averaged from 4° to 9° below normal with extremes ranging

from 51° at Atlantic City Airport on 26th to -6° at Long Valley on 28th. Precipitation averaged 0.30 inch melted with about 1 inch of snow over northern 1/3 of State. Snow cover on morning of 1st from 1 to 5 inches over north and little or none over central and south Jersey.

**NEW MEXICO:** Continued dry with no precipitation. Continued mild daytime temperatures with average temperatures for week from 5° to 12° above normal. Warmest on weekend with 81° at Carlsbad Saturday. Cooling Sunday in east. New Mexico continues very dry. Top and subsoil moisture very short to short. Range and livestock conditions declined. Ranges poor to good. Livestock fair. Field activity increasing. Land preparation, irrigating, pecan pruning active. Heavy freeze damage to fruit trees northern areas.

**NEW YORK:** Severe wintry weather midperiod marked 5th straight week of below normal temperatures. Last above-normal week entire State occurred in early December. Mild 25th and 26th before cold wave 27th to 29th and another cold period by 31st. Coldest minimums 15° to 20° below zero northern half and east-central on 28th with near zero parts of Long Island. Rain and scattered thunderstorm activity on 26th with precipitation totaling mostly 0.30 to 0.70 inch. Gale-force winds, snow, and severe drifting crippled interior upstate 27th to 30th as gale and low chill index affected coastal sections. Snow emergency in many Counties near Great Lakes snow belt as schools, industries closed and travelers stranded over wide interior area. Snow accumulations 12 inches or more lee of great Lakes but elsewhere weekly amounts light. Boonville reports snow depth of 55 as of February 1.

**NORTH CAROLINA:** Temperatures changeable, averaging below normal. Highest mostly in 60's on 26th. Lowest 27th and 28th, 10° to 20° except colder mountains with highest elevations zero to 10° below zero. Rain daily through 26th and at weekend with total amounts 1.00 to 4.00 inches mostly 1.00 to 2.00 inches. Very windy 26th to 28th. Soil moisture increased slightly during week and continued mostly adequate. Some surplus across State. Condition of small grains improved somewhat and remained mostly good. Pastures are mostly fair. Hay and feed grain supply mostly adequate. Inclement weather hindered outside farming operations. High winds caused some damage to farm buildings.

**NORTH DAKOTA:** Cold and snowy. Temperatures averaged 5° to 12° below normal. Occasional snow throughout week. Precipitation amounts mostly 0.20 to 0.40 inch. Snow depths now range from about 8 inches southwest to nearly 20 inches in parts of west-central and northeast. Considerable snowfall received during week accompanied by high winds which caused drifting of roads, driveways, and farmyards. Farmers found it difficult to care for livestock, haul feed, etc. Temperatures turned extremely cold following snow and cattle are on heavy feeding rations. The adverse weather is hard on livestock but no unusual death losses. Farmers busy with yearend bookkeeping work.

**OHIO:** Warm but windy 25th. Cold and very windy remainder of week. From midmorning 26th and 31st temperature climbed above freezing for less than 10 hours. That brief warmup occurred on 29th and 30th. Temperatures averaged 8° to 11° below

normal. Widespread snow squalls and wind resulted in considerable drifting northeast 26th and 27th. Snow especially widespread 29th but much of this snow melted before following morning. Despite limited snow cover wheat still looking good. Livestock in good condition. Feed supplies considered adequate. Farm activities limited to feeding and care of livestock.

**OKLAHOMA:** Temperatures averaged 2° to 10° above normal. Extremes: 79° and 16°. No measurable precipitation. Warm weather continued to prevail, but insufficient soil moisture held growth of wheat to minimum western 2/3 State. Statewide wheat condition 38% poor, 39% fair, 23% good, same as last week, but sharply below year ago. Grazing small grain pastures limited most areas. Seedbed preparation for spring-seeded small grains continues, but moisture needed before planting in western localities. No large scale drought damage, but additional moisture becoming critically needed most western localities. Supplemental feeding required throughout State. Hay supplies adequate, but becoming short several western areas. Range forage generally short and low quality. Livestock made good recovery from cold spell and in fair to good condition. Buildup of greenbugs some western sections with some spraying underway. Top dressing wheat delayed many western localities as result short moisture supplies.

**OREGON:** Continued mild weather with heavy rain northwest first half of week and fog in western valleys at close. Temperatures averaged 3° to 6° above normal west of Cascades and east, 9° to 13° above normal. Minima east ranged from 19° to 30°, western valleys 28° to 33°, coast 35° to 40°. Maxima 49° to 68°. Dry week limited to south border and eastern 2/3 of State. Totals in northeast mountains, south coast 0.10 to 0.25 inch, western valleys 1.00 to 1.25 inch, central coast 2.00 to 4.00 inches, north coast 4.00 to 7.20 inches. Chief farm activities were feeding livestock and caring for new lambs and calves. Feeding heavy some areas, but hay supplies expected to be adequate. Orchard pruning active in tree fruit areas. Farmers pruning and spraying berries Willamette Valley.

**PENNSYLVANIA:** Very cold week with blizzard or near-blizzard conditions over northwestern 2/3 of State midweek. Deep low pressure system moving along. St. Lawrence Seaway, buffeted the Commonwealth with 60 to 70 mph winds Wednesday and Thursday. The snowfall was not unusual with this storm but the combined effect with snow, extremely high and sustained winds, and temperatures near zero resulted in heavy damages, loss of life and many related injuries across the State. Snow totals in the northwestern 2/3 of State ranged from 2 to 12 inches, the heaviest amounts and worst blizzard conditions in northwest plateau region. Only light rain fell in advance of this system over southeastern 1/3 of State, but wind and cold damages still ran high. Another low center tracked through State Friday night dumping 2 to 6 inches of new snow over northwestern 2/3 of State and less than 0.15 inch rain on southeastern 1/3. This second storm was accompanied by winds of 40 m.p.h. Temperatures for week averaged 11° below normal with coldest readings on Monday morning February 1 and -18° was recorded at Hawley and below-zero readings occurred over all but southeast corner of State. Week's high

was 48° at Confluence on 29th. Precipitation was heaviest along windward side of Appalachians in western Pennsylvania with total water equivalent for the week running from 0.75 to 1.50 inches. About 0.50 to 0.75 inch fell over central 1/3 of the Commonwealth. Routine winter farm chores.

**PUERTO RICO:** Rainfall averaged about 0.70 inch or near normal with light to moderate showers early in week and generally little or no rain rest of week. No rain south coast and little or no rain south slopes entire week. Highest total 3.11 inches East Luquillo Mountains. Temperatures averaged 74° to 75° on coast and 68° to 69° interior with average departure of 0.6° below normal. Highest maximum 89°; lowest minimum 46°. Sugarcane harvesting and transporting operations made good progress in favorable week. Coffee plantations busy cleaning and preparing land for new tree plantings. Tobacco harvesting and drying made good progress all zones. Pastures good to excellent islandwide. Minor crops planting and cultivating continues all zones. Good harvest citrus and plantains on market.

**SOUTH CAROLINA:** First half of period was rainy and rain came again on 30th accompanied by severe thunderstorms. Cold and windy latter half of week with most highs only in the 30's on the 27th. Weekly temperatures averaged near normal in outer coastal plain, 3° to 5° below normal elsewhere. Soil moisture adequate all areas. Peach tree pruning continues. Limited harvest of fall vegetables. Seeding of spring cabbage on the way.

**SOUTH DAKOTA:** Weekly temperatures averaged from 8° below normal in east to 4° above normal in west. Extremes ranged from 20° below zero at Aberdeen, Pollock, and near Redfield on 27th to 60° at Oelrichs on 29th. Precipitation fell as light snow scattered through week over most of State with heavy snowfall in west at end of week. Rapid City reported 8 inches of snow morning of 31st with a weekly precipitation total of 0.91 inch. Most areas of State received about 0.30 inch or less. Snow cover end of week ranged from zero to 2 inches in south to about 6 to 20 inches in north. Some blowing of winter grains occurred because warm temperatures first of week reduced snow cover, and strong winds end of week. Condition of livestock unchanged, but stock suffering from cold windy weather. Some losses due to pneumonia. Early farrowing and lambing starting. Main farm activity consists of caring and feeding of livestock.

**TENNESSEE:** Week began mild, changed to cold early in week, Temperatures moderated into weekend and changed to much colder over weekend. Precipitation very light in west where generally less than 0.10 inch. More frequent precipitation in east, with amounts generally 0.10 inch in parts of northeast, increasing to 1.00 inch in southeast. Light snow fell over east half on 31st with snowfalls of 2 to 3 inches in higher elevations and more eastern locales. Mild weather stimulated small grain growth, these crops good to excellent condition. Farmers busy caring for livestock, mending fences, and making plans. Hay being fed at an increased rate, but remains in ample supply.

**TEXAS:** Rainfall limited mostly to small area of South Texas Thursday. Falfurrias received 0.87 inch. Drought or near drought conditions continued relentlessly throughout western 2/3 of State. Record-breaking high temperatures for

month of January occurred Saturday. Corpus Christi recorded 91°, Austin and Brownsville 90°, San Antonio 89°, and Victoria 88°. The hot weather ended abruptly as cold air swept southward across State Sunday. Dryland small grain prospects continue to decline as drought conditions prevail. Irrigated small grains showing signs of recovery as irrigation and warm temperatures stimulate growth. Cattle movement remains strong as livestock operators continue to cull their herds. Spraying of cattle for lice and ticks, preplanting irrigation, bedding and chiseling as moisture permits, pruning and planting peach trees, repair of farm equipment were main farm activities. Large volume lettuce, cabbage, carrots available South Texas. Light supplies broccoli, cauliflower, beets, other winter vegetables available. Winter vegetables and early spring onions making good growth. Early emerged fields spring vegetables good progress. Seeding spring crops continues. Citrus harvest active Lower Valley.

**UTAH:** Fair and mild weather most of State. Few areas of fog some northern valleys. Temperatures 5° to 15° above normal except 14° to 17° above Uinta Basin. Record January temperatures Salt Lake Valley and Uinta Basin over weekend with maximum 61° at Salt Lake City Airport and 60° at Roosevelt. No precipitation. Most of snow cover in lower valleys melted. Some early plowing started last week. Care and feeding of milk cows, poultry, beef cattle, and sheep continue major activities. Death of 1200 sheep from eating halogeton continuing concern to Utah livestock operators. Some early lambing of farm flocks should start this week. Maintenance and repair of farm machinery in preparation for spring field-work underway.

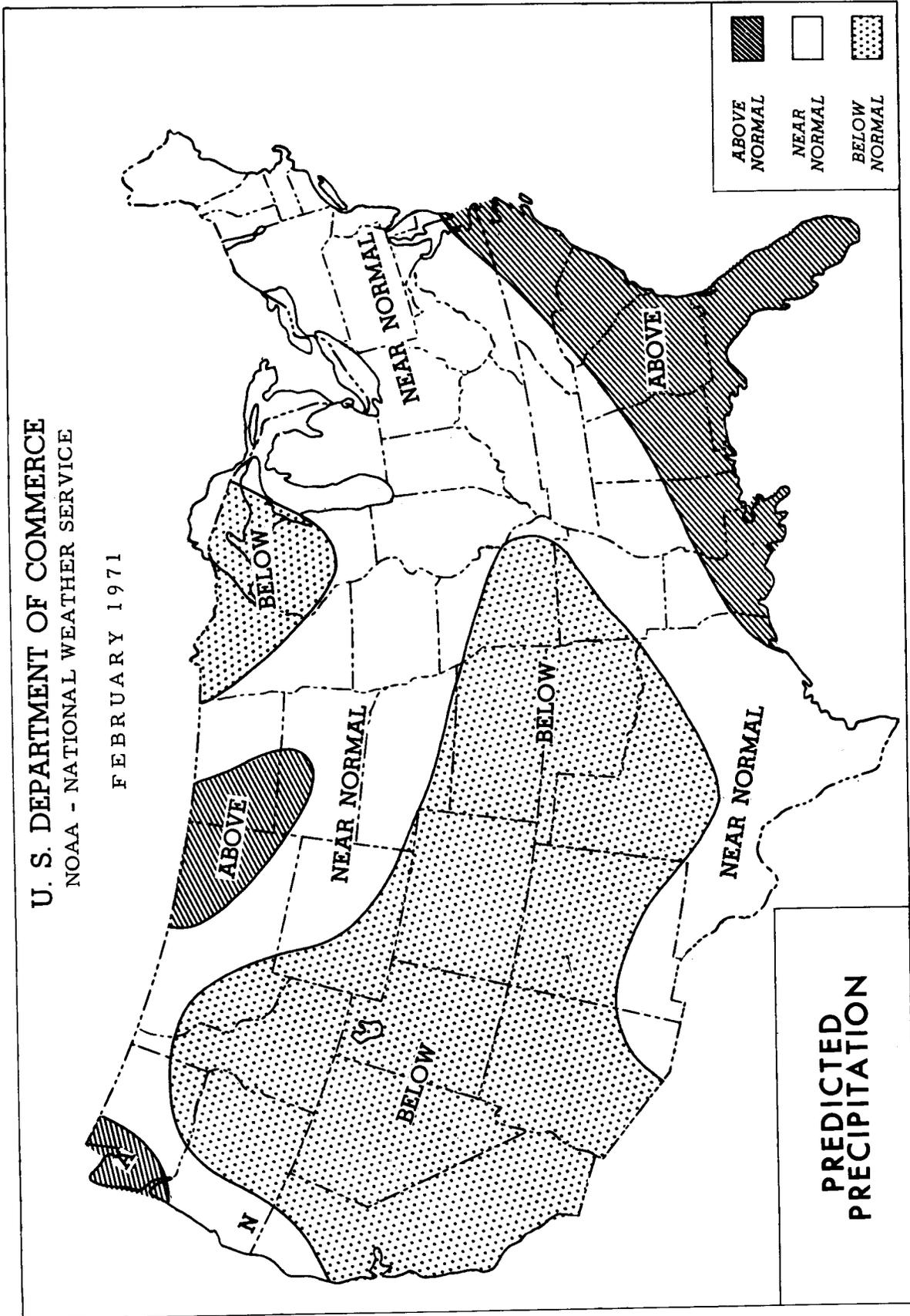
**VIRGINIA:** Two above-normal days, rest below to much below. Extremes: 65° and -3°. Strong damaging winds at midweek. Precipitation at beginning and over weekend. Field activity limited to top dressing small grains and pastures. Supply of soil moisture mostly adequate to surplus. Caring for newborn calves, lambs and pigs took top priority during the cold bitter weather. Few livestock lost in southwest mountains. Low temperatures brought on heavy feeding rates, but hay and grain supplies generally adequate.

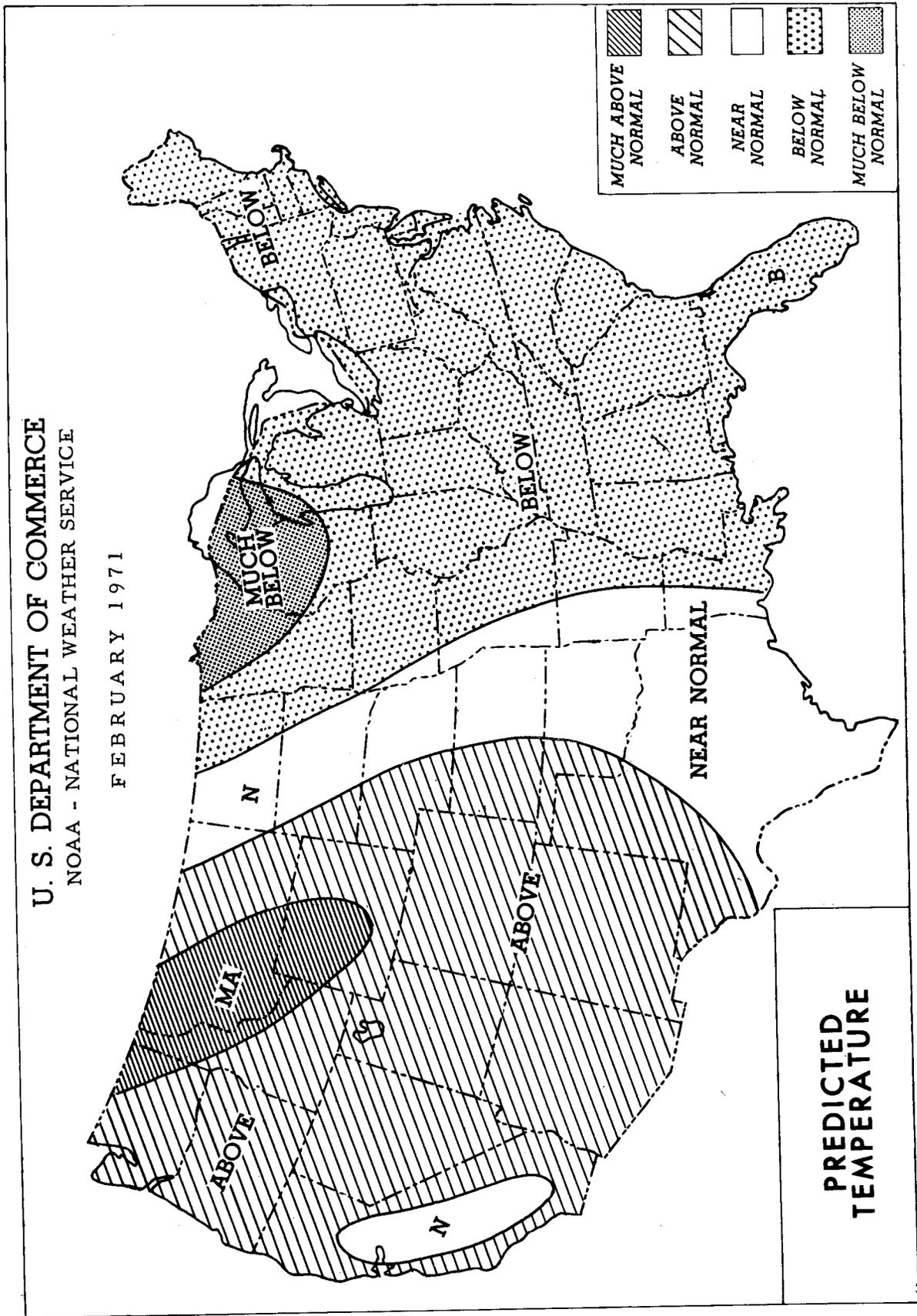
**WASHINGTON:** West of Cascades: Warm and wet. Above-freezing temperatures in mountains and 6 to 10 inches of rainfall on western slopes of Cascades and along coast caused flooding in many lowland areas. Most extensive flooding was in Chehalis River Valley. Harvesting forced rhubarb continued. Work beginning in raspberry fields. Hay supply adequate. Dairy cattle good condition. East of Cascades: Average temperatures 8° to 12° above normal. Maximums in 40's and 50's. Minimums mostly in 30's. Precipitation limited to few showers extreme eastern section. Agricultural areas other than some of Waterville Plateau and northern valleys are without snow cover. Runoff from rapidly melting snow caused severe erosion in some localities. Early spring work beginning in orchards and vineyards central and southern counties. Hay supply adequate. Livestock good condition.

**WEST VIRGINIA:** Damaging winds struck during morning January 26 following strong cold front packed with rare winter thunderstorms. Temperatures dropped 50° during day. Temperatures remained below normal except for evening of January 29 when  
(Continued on back page)

U. S. DEPARTMENT OF COMMERCE  
NOAA - NATIONAL WEATHER SERVICE

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