

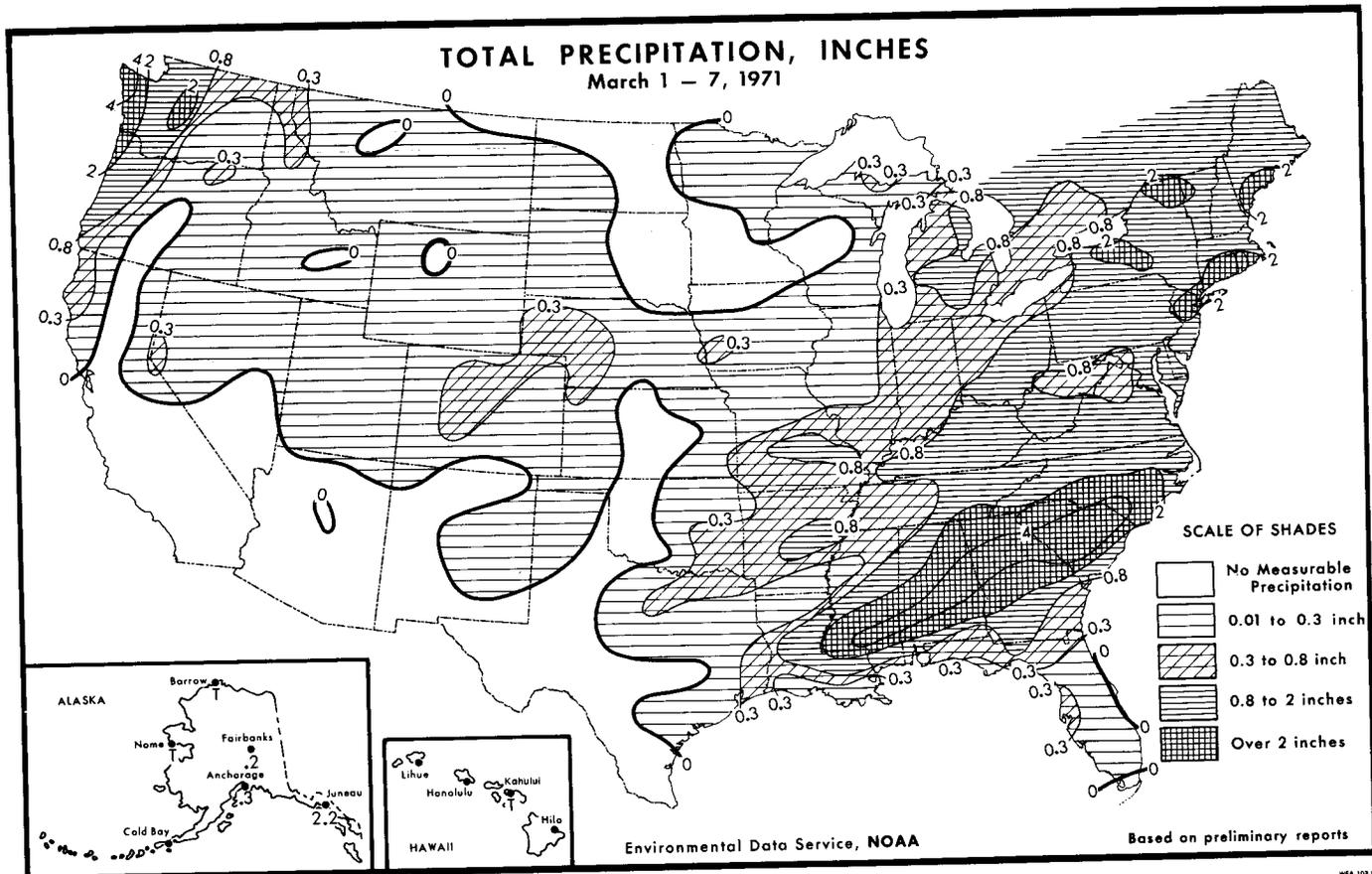
Weekly Weather & Crop Bulletin

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Edited by Lucius W. Dye

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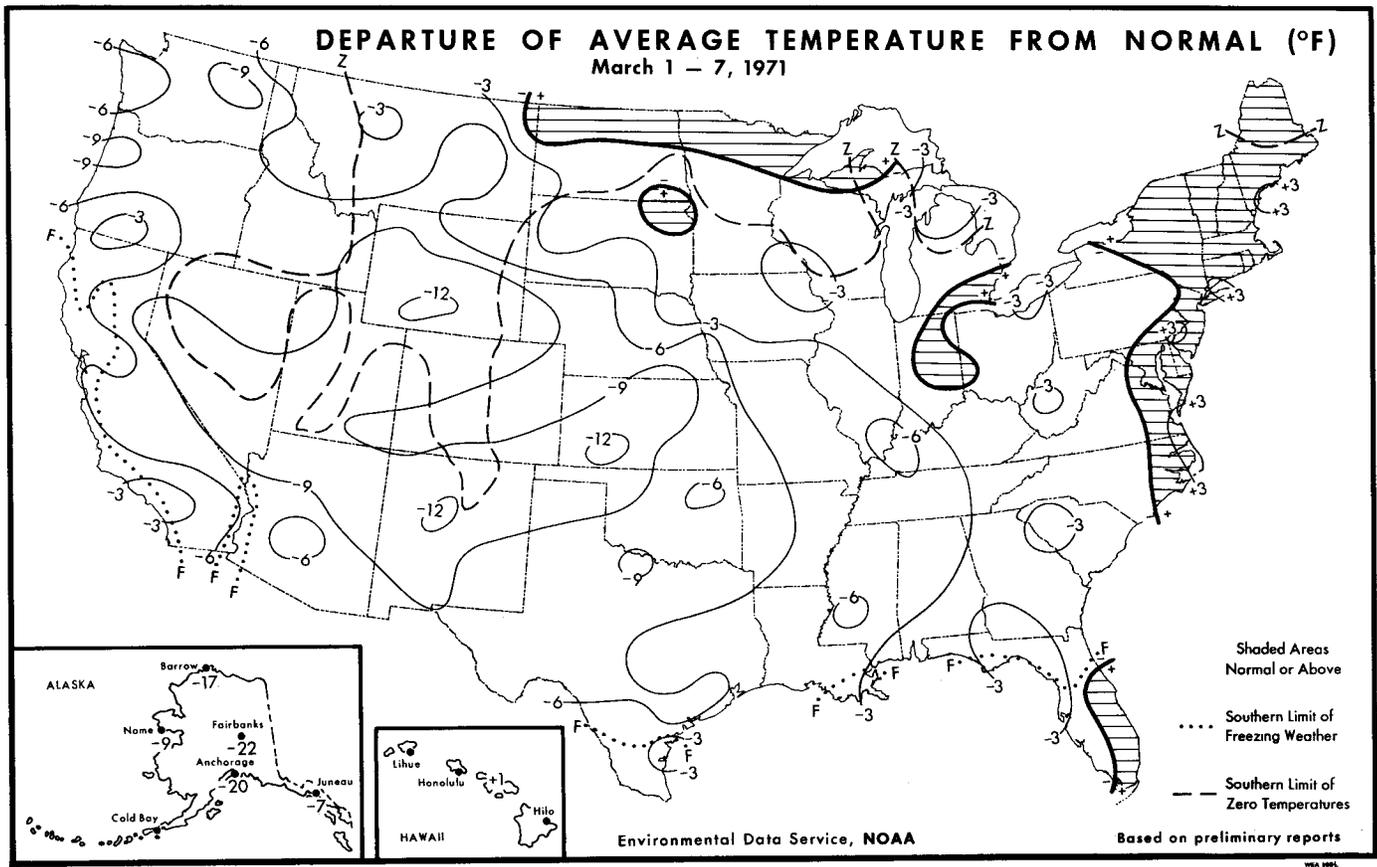
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Winter temperatures prevailed over most of the Nation. Heavy snow fell in the central Great Plains and Northeast. Severe thunderstorms and a few tornadoes occurred in the Deep South.

PRECIPITATION: A generous variety of stormy weather occurred in the 1st week of March. Early in the week cold gusty winds filled the air with dust and sand in the deserts of California and Arizona and by Tuesday blowing sand and blowing dust had spread to southern New Mexico and western Texas. Snowy windy weather spread from the Rocky Mountains and southwestern Great Plains to the middle Mississippi River Valley. Rain and showers occurred southeast of the snow belt. Violent thunderstorms and a few tornadoes struck the Deep South. A broad band of rain fell Tuesday in connection with a stationary front that stretched

from southern Texas to southern California. Some spots in central Mississippi and central Alabama received 24-hour totals exceeding 4.00 inches. A tornado leveled trees in southern Alabama. Snow fell from New Mexico to Arkansas; showers were common from northeastern Texas to the Ohio River Valley and onward to the central Appalachians.

Early Wednesday, a storm in the Southeast deepened and spread disagreeable weather over the eastern half of the Nation. Tornadoes occurred in South Carolina and the Tampa, Fla., area. Showers fell along the Atlantic coast. A wide band of snow or snow mixed with sleet or freezing rain fell from the Ohio River Valley to Maine and southward to northern Alabama and the Carolinas. The storm center deepened. The pressure at Portland, Maine, dropped to 28.44 inches, the lowest pressure in their century of records. Winds



Thursday afternoon gusted to 75 m.p.h., hurricane force. A foot or 2 of snow fell in parts of New York and New England. Portland, Maine, received 11 inches of new snow in 6 hours early Friday morning bringing their seasonal total to 116.5 inches. This is more snow than has fallen in any season in the 20th Century. Light rain and snow flurries fell in the Pacific Northwest, mostly late in the week.

As the deep storm in the Northeast moved out over the Atlantic Ocean over the weekend, another storm moved from the southern Great Plains to the Northeast. It produced inclement weather over the eastern half of the Country, heavy snow, sleet, and freezing rain in the Northeast, severe thunderstorms and a few tornadoes in the Deep South. As the week ended a weak storm brought snow flurries to the intermountain region and northern Rocky Mountains.

TEMPERATURE: Cold windy weather prevailed in Far West early in the week. Temperatures dropped to 32° or lower along the coast of Washington and Oregon and at spots along the California coast. Sandberg, Calif., registered 16° Tuesday morning. Subfreezing weather occurred on Tuesday over the Trans-Pecos in Texas, the Panhandle, western

Oklahoma, the central Great Plains and most of the area north of the Ohio River and the Mason-Dixon Line. The cold blustery winds held midday temperatures below freezing as far south as Lubbock, Tex., and the Great Lakes on Tuesday and on Wednesday most of Kentucky remained below freezing throughout the day. By Friday morning the subfreezing temperatures were common in northern Florida with Tallahassee setting a new March record with a reading of 23°.

Temperatures at spots in the southern Rocky Mountains dropped to below zero Wednesday morning but warming occurred in the West as the weekend approached and afternoon temperatures in the 40's and 50's were common in the mountains in Colorado and New Mexico.

A weekend storm moved from the southern Great Plains to the Northeast. Cold winds on the back side of the storm dropped the temperatures to the low 30's as far south as the Gulf States. Birmingham, Ala., registered 32° Sunday morning.

Temperatures averaged below normal over most of the Nation. The central and southern Rocky Mountains and southern Great Plains averaged 5 to 12° colder than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Recent rain and snow improved winter wheat prospects. However, cold temperatures limited growth. Cotton planting started in Arizona. Freezing temperatures retarded or damaged fruit and vegetable crops in many States.

SMALL GRAINS: Recent rain and snow in the Great Plains improved winter wheat prospects. Temperatures were well below normal for the week and only minimum growth and greening occurred. Crop prospects are dim in Texas as fall-planted grains continue to suffer from the drought. In the Northern Plains fall-plowed fields are bare and vulnerable to wind damage. The presence of green bugs increased in Oklahoma and spraying for control was necessary.

It was a cold windy week in the Pacific Northwest and fall-seeded grains remained dormant. However, fields look good except for some spotty stands in Washington. Light wind damage occurred to wheat in Colorado and Montana. Moving to warmer climate, grains made satisfactory development in the Southwest, but rain would be extremely helpful. California grain crop development was slow as the weather was cold and moisture lacking.

Soil moisture is adequate for small grain growth in the South. Heavy rains put many growers behind schedule in topdressing grain acreage with fertilizer.

Seeding of spring grains made little progress in Kansas and Oklahoma as fields were wet. Acreage seeded is well behind last year. Some farmers in drought-plagued Texas are dry-planting while others wait for more moisture. Farmers in southern Washington continue to seed spring grains despite unfavorable weather.

OTHER CROPS: For the second straight week heavy rains halted land preparation and early planting from Louisiana to the Middle Atlantic States. In other sections of the Country, farm activity increased during the first week in March. Cotton and sorghum planting got underway in Arizona with California farmers preparing fields for planting. Lack of moisture for germination is hindering seeding efforts of Texas growers. California sugar beet growers are busy harvesting their overwintered crop and also seeding new crop acreage. Maryland and Virginia tobacco growers were busy preparing and seeding plant beds. While South Carolina growers were concerned about excess moisture destroying some plant beds. Tapping of maple trees started in the southern New England area, but high snow depths will delay tapping in the north.

Fruits and Nuts: For the second straight week, freezing temperatures occurred in California's fruit districts. Only light damage is expected. Picking of the navel orange crop is over half completed. Freezing temperatures also dipped into South Texas and caused some damage to early-blooming fruit trees. The cold also hit Arizona with new growth damaged or retarded in both the Yuma and Salt River Valley areas. Most Florida citrus trees returned to good to excellent condition. Orange harvest declined during the week, but grapefruit picking continues heavy. South Carolina orchard growers had to rely on airplanes to maintain their spray schedule.

Vegetables: Cool weather reduced vegetable shipments from California. Light cutting of asparagus occurred as many spears were discarded due to frost damage. Strawberry harvest was light in California and Louisiana as frost damaged small berries and blooms. The March 4 frost retarded vegetable growth in both Arizona and Texas. Cutting of lettuce and cabbage continued in both States, but ice delayed early morning cutting in Arizona. Florida vegetables suffered from strong gusty winds that damaged tender plants and uncovered seeds.

Potato planting was active as far north as Maryland's Southern Shore. Some frost damage hit the Hasting's Florida area.

PASTURES AND LIVESTOCK: Pasture growth was slow in most sections of the Nation as cold temperatures limited growth. Very little winter feed is being provided by snow-covered pastures in the northern section of the Country. Livestock herds in central Alabama had to be evacuated from lowland pastures due to heavy rains. Pastures remain fair to good in other Southern areas, but Florida grasses could use some moisture. Livestock condition declined in northern Oklahoma and Texas as shrinkage occurred in many herds following the snowstorm. Temperatures across the Nation were below normal, but calving, lambing, and farrowing were well underway. Cold wet conditions caused some calf losses in Nebraska.

Steve J. Pscodna
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., March 7, 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 . . .	48	- 4	2.1	+ .8	New Orleans . . .	57	- 3	.1	- .9	OKLA,Oklahoma City . . .	39	- 6	.1	- .2
Mobile . . .	56	- 2	.8	- .6	Shreveport . . .	50	- 4	.1	- .7	Tulsa . . .	40	- 5	.1	- .3
Montgomery . . .	51	- 2	4.6	+3.3	MAINE,Caribou . . .	20	+ 2	1.3	+ .9	OREG,Astoria . . .	38	- 6	2.3	- .0
ALASKA,Anchorage . . .	1	-20	.3	+ .2	Portland . . .	30	+ 3	2.9	+2.0	Burns . . .	27	- 8	.1	- .2
Barrow . . .	-34	-17	T	0	MD,Baltimore . . .	40	+ 1	1.0	+ .2	Medford . . .	40	- 3	T	- .5
Fairbanks . . .	-18	-22	.2	+ .1	MASS,Boston . . .	35	+ 1	1.7	+ .8	Pendleton . . .	36	- 7	.3	0
Juneau . . .	22	- 7	2.2	+1.5	Chatham . . .	36	- 1	1.3	- .1	Portland . . .	38	- 7	1.1	+ .1
Nome . . .	- 3	- 9	T	- .2	MICH,Alpena . . .	19	- 3	1.2	+ .8	Salem . . .	35	-10	1.4	+ .2
ARIZ,Flagstaff . . .	25	- 9	.2	- .2	Detroit . . .	32	+ 1	.7	+ .2	PA,Allentown . . .	33	0	2.0	+1.2
Phoenix . . .	52	- 5	0	- .2	Flint . . .	27	+ 1	1.0	+ .5	Erie . . .	29	0	.7	+ .1
Tucson . . .	48	- 8	0	- .2	Grand Rapids . . .	27	- 1	.8	+ .3	Harrisburg . . .	37	0	1.3	+ .5
Winslow . . .	32	-11	T	- .1	Houghton Lake . . .	10	- 4	.6	+ .2	Philadelphia . . .	40	+ 3	1.6	+ .8
Yuma . . .	54	- 7	0	- .1	Lansing . . .	28	0	1.2	+ .7	Pittsburgh . . .	31	- 2	1.2	+ .5
ARK,Fort Smith . . .	42	- 6	.3	- .5	Marquette . . .	23	0	.4	0	Scranton . . .	31	- 1	1.2	+ .6
Little Rock . . .	43	- 6	1.3	+ .3	Muskegon . . .	27	- 2	.8	+ .4	R.I.Providence . . .	36	+ 2	2.2	+1.3
CALIF,Bakersfield . . .	50	- 4	.8	- .6	S.Ste.Marie . . .	16	- 4	.2	- .2	S.C.Charleston . . .	52	- 2	1.6	+ .8
Eureka . . .	44	- 4	.8	- .5	MINN,Duluth . . .	17	0	.1	- .2	Columbia . . .	48	- 3	5.2	+4.2
Fresno . . .	47	- 6	0	- .6	Internatl Falls . . .	16	+ 2	T	- .2	Greenville . . .	45	- 3	2.4	+1.3
Los Angeles . . .	58	- 1	0	- .6	Minneapolis . . .	20	- 1	T	- .3	S,DAK,Aberdeen . . .	24	+ 2	T	- .2
Red Bluff . . .	46	- 7	T	- .7	Rochester . . .	19	- 4	T	- .3	Huron . . .	20	- 3	T	- .2
San Diego . . .	54	- 4	0	- .4	St. Cloud . . .	15	- 5	T	- .2	Rapid City . . .	25	- 3	.1	0
San Francisco . . .	47	- 6	T	- .7	MISS,Jackson . . .	48	- 6	2.1	+ .9	Sioux Falls . . .	24	- 2	T	- .3
Stockton . . .	47	- 5	T	- .6	Meridian . . .	49	- 5	2.9	+1.5	TENN,Chattanooga . . .	45	- 3	2.4	+1.2
COLO,Denver . . .	25	- 9	.5	+ .3	MO,Columbia . . .	34	- 5	.2	- .2	Knoxville . . .	45	- 1	1.5	+ .3
Grand Junction . . .	27	-12	T	- .2	Kansas City . . .	34	- 6	T	- .4	Memphis . . .	43	- 4	.7	- .3
Pueblo . . .	30	- 8	.1	0	St. Louis . . .	34	- 5	.6	+ .1	Nashville . . .	41	- 5	.7	- .4
CONN,Bridgeport . . .	37	+ 3	2.0	+1.9	Springfield . . .	35	- 6	.7	+ .3	TEX,Abilene . . .	45	- 7	T	- .2
Hartford . . .	34	+ 1	2.2	+1.4	MONT,Billings . . .	25	- 6	.1	- .1	Amarillo . . .	36	- 9	.1	- .1
D.C.Washington . . .	42	+ 1	1.0	+ .3	Glasgow . . .	16	- 6	T	- .1	Austin . . .	53	- 4	T	- .5
FLA,Apalachicola . . .	56	- 3	.3	- .7	Great Falls . . .	26	- 2	T	- .2	Beaumont . . .	55	- 4	.6	- .2
Ft. Myers . . .	66	- 1	.5	- .1	Havre . . .	19	- 4	T	- .1	Brownsville . . .	61	- 5	0	- .3
Jacksonville . . .	58	- 2	.3	- .5	Helena . . .	23	- 5	T	- .1	Corpus Christi . . .	61	- 2	T	- .3
Key West . . .	72	0	T	- .4	Kalispell . . .	25	- 4	T	- .2	Dallas . . .	47	- 7	.3	- .3
Lakeland . . .	63	- 2	.5	- .4	Miles City . . .	19	- 8	.3	+ .2	Del Rio . . .	54	- 6	T	- .2
Miami . . .	71	+ 1	T	- .5	Missoula . . .	28	- 3	.2	0	El Paso . . .	44	- 9	0	- .1
Orlando . . .	65	+ 1	.3	- .4	NEBR,Grand Island . . .	26	- 6	T	- .2	Fort Worth . . .	46	- 7	.3	- .3
Tallahassee . . .	54	- 5	.9	- .5	Lincoln . . .	27	- 7	.1	- .3	Galveston . . .	55	- 5	.3	- .4
Tampa . . .	62	- 3	.4	- .4	Norfolk . . .	26	- 3	.1	- .2	Houston . . .	51	- 6	.2	- .4
GA,Atlanta . . .	47	- 2	4.9	+3.7	North Platte . . .	25	- 7	.5	+ .3	Lubbock . . .	39	- 8	0	- .1
Augusta . . .	49	- 3	6.0	+5.0	Omaha . . .	24	- 7	.3	0	Midland . . .	45	- 7	T	- .1
Macon . . .	52	- 2	2.2	+1.1	Valentine . . .	25	- 3	.2	0	San Angelo . . .	49	- 5	T	- .2
Savannah . . .	55	- 1	.7	- .2	NEV,Ely . . .	22	- 9	T	- .2	San Antonio . . .	53	- 6	T	- .3
HAWAII,Hilo . . .	---	---	---	---	Las Vegas . . .	43	-10	0	- .1	Victoria . . .	54	- 7	.1	- .4
Honolulu . . .	---	---	---	---	Reno . . .	30	-10	.3	+ .1	Waco . . .	52	- 3	.1	- .4
Kahului . . .	73	+ 1	T	-1.8	Winnemucca . . .	28	- 8	.1	- .1	Wichita Falls . . .	41	- 9	.1	- .2
Lihue . . .	---	---	---	---	N.H.Concord . . .	29	+ 1	1.2	+ .6	UTAH,Blanding . . .	28	- 8	T	- .3
IDAHO,Boise . . .	32	- 7	.1	- .2	N.J.Atlantic City . . .	39	+ 1	.9	0	Salt Lake City . . .	29	- 9	T	- .1
Lewiston . . .	35	- 6	.1	- .2	Trenton . . .	40	+ 3	2.0	+1.2	VT,Burlington . . .	23	+ 1	2.2	+1.8
Pocatello . . .	24	- 9	T	- .2	N.MEX,Albuquerque . . .	32	-12	T	- .1	VA,Lynchburg . . .	41	- 1	1.1	+ .5
ILL,Cairo . . .	39	- 6	.8	- .1	Roswell . . .	40	- 6	.1	0	Norfolk . . .	49	+ 4	1.2	+ .4
Chicago . . .	31	- 1	.6	+ .1	N.Y.Albany . . .	29	0	1.9	+1.3	Richmond . . .	44	0	1.1	+ .4
Moline . . .	29	- 2	.1	- .3	Binghamton . . .	27	0	.2	- .4	Roanoke . . .	40	- 2	1.2	+ .4
Peoria . . .	30	- 3	.2	- .3	Buffalo . . .	28	0	.9	+ .1	WASH,Colville . . .	28	- 6	4.4	+ .1
Rockford . . .	28	- 2	.2	- .3	New York . . .	39	+ 2	2.0	+1.1	Omak . . .	26	- 9	.5	+ .3
Springfield . . .	33	- 4	.2	- .2	Rochester . . .	28	0	2.4	+1.8	Quillayute . . .	36	- 6	4.1	+1.5
IND,Evansville . . .	36	- 6	.6	- .2	Syracuse . . .	29	+ 1	1.9	+1.1	Seattle-Tacoma . . .	37	- 6	1.8	+ .8
Fort Wayne . . .	32	0	.6	+ .1	N.C.Asheville . . .	41	- 2	1.5	+ .7	Spokane . . .	27	- 9	.1	- .3
Indianapolis . . .	32	- 4	.6	0	Charlotte . . .	45	- 2	2.6	+1.5	Walla Walla . . .	38	- 6	.8	+ .4
South Bend . . .	31	0	.6	+ .1	Greensboro . . .	42	- 2	1.6	+ .8	Yakima . . .	32	- 8	.2	0
IOWA,Burlington . . .	29	- 5	.1	- .4	Hatteras . . .	53	+ 4	1.9	+ .8	W.VA,Beckley . . .	35	- 2	1.1	0
Des Moines . . .	27	- 2	.2	- .2	Raleigh . . .	44	- 3	1.9	+1.1	Charleston . . .	37	- 4	.9	- .1
Dubuque . . .	23	- 4	.3	- .2	Wilmington . . .	52	0	2.4	+1.4	Huntington . . .	39	- 2	1.2	+ .4
Sioux City . . .	27	- 1	T	- .3	N,DAK,Bismarck . . .	19	- 2	T	- .1	Parkersburg . . .	37	- 2	.7	0
KANS,Concordia . . .	26	-11	T	- .3	Fargo . . .	18	+ 1	T	- .1	WIS.Green Bay . . .	21	- 2	.1	- .2
Dodge City . . .	27	-12	T	- .2	Williston . . .	21	+ 1	T	- .1	La Crosse . . .	22	- 3	T	- .4
Goodland . . .	26	- 8	.3	+ .1	OHIO,Akron-Canton . . .	32	0	.9	+ .2	Madison . . .	24	- 1	.3	- .1
Topeka . . .	31	- 7	T	- .4	Cincinnati . . .	35	- 4	.9	+ .2	Milwaukee . . .	25	- 2	.3	- .2
Wichita . . .	33	- 8	T	- .3	Cleveland . . .	29	- 3	.6	0	WYO,Casper . . .	20	-10	.2	0
KY,Lexington . . .	38	- 2	1.0	0	Columbus . . .	33	- 2	1.1	+ .5	Cheyenne . . .	21	-10	.2	0
Louisville . . .	38	- 2	.7	- .3	Dayton . . .	35	0	.7	+ .1	Lander . . .	18	-12	T	- .2
LA,Baton Rouge . . .	51	- 7	1.5	+ .2	Toledo . . .	30	- 1	.8	+ .4	Sheridan . . .	23	- 5	.1	- .1
Lake Charles . . .	54	- 5	.1	-1.0	Youngstown . . .	29	- 2	1.0	+ .2	P.R. San Juan . . .	78	+ 3	.4	- .7

* 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: Temperatures unusually warm at beginning of week followed by colder weather latter portion. Generally heavy rains over State first part of period resulted in flooding of rivers and small streams in lowland areas. Livestock evacuated from many lowland pastures central Alabama. Fieldwork caring for livestock, poultry and routine maintenance. Small grains fair to good growth. Growers behind schedule topdressing acreage for grain. Frost nipped late spring Irish potatoes. Growers concerned about effects of hard rain and standing water on unemerged fields. Livestock fair to good.

ALASKA: Near-normal temperatures prevailed during February in contrast to extreme cold in January. Largest deviations were in Lower Tanana Valley where Fairbanks area was about 2° below normal. New seasonal snowfall records were set in lower half of Tanana Valley and measurements for February heavy all areas, particularly Kenai Peninsula. Livestock good condition during February. Few milk cows lost to poor quality feed. Several horses lost to starvation and lack of adequate protection from low temperatures. Locally produced feed supply short most areas. Major farm activities include farm chores, repair and maintenance of equipment, and preliminary preparations for new crop year.

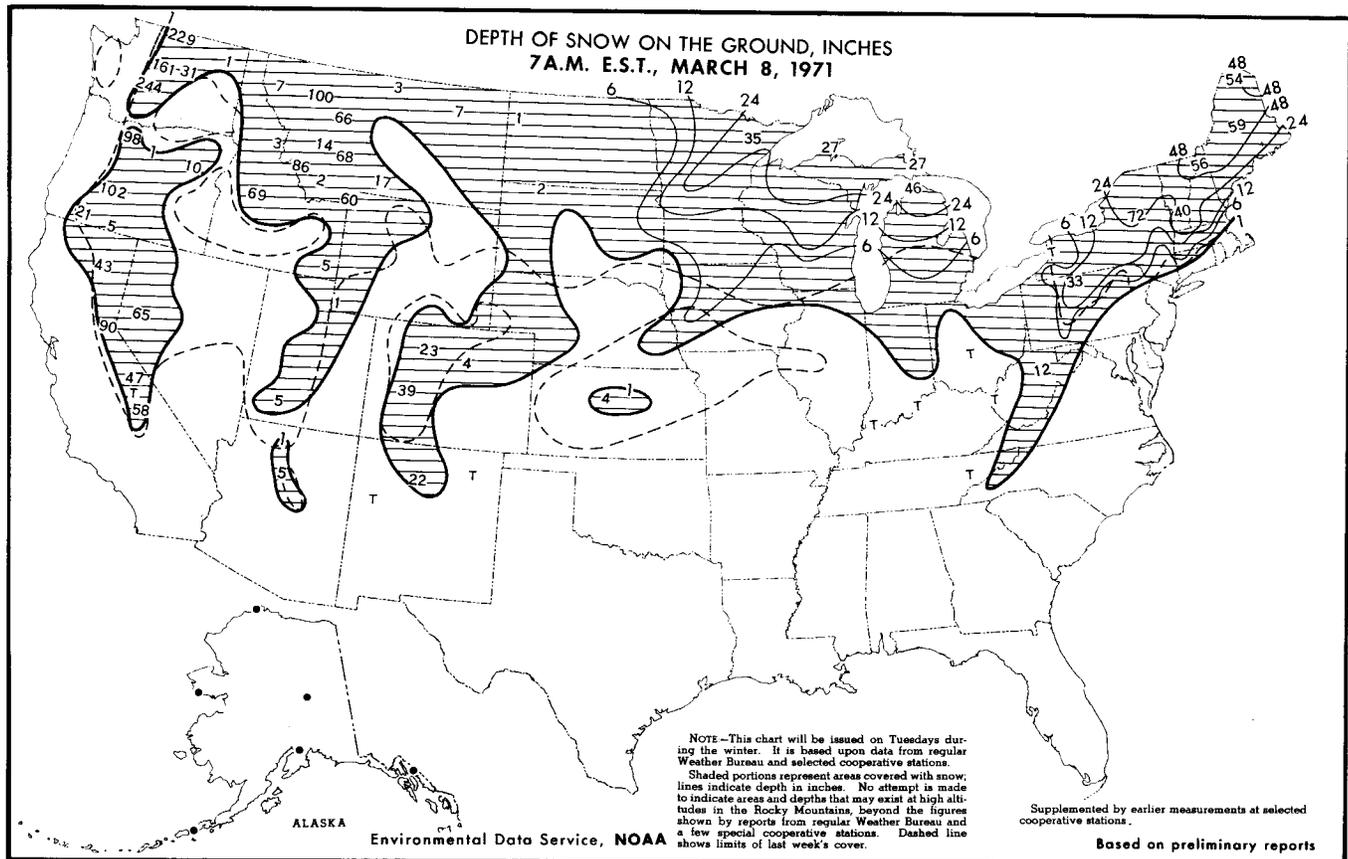
ARIZONA: Temperatures below normal and strong winds and blowing dust were reported many sections. Light widely scattered showers Monday but most water totals were quite small even at higher elevations in northern part of State. Planting underway limited basis Yuma area. Small grains showing satisfactory development. Heads have emerged early-planted fields. Safflower generally good. Alfalfa hay making good growth warmer desert areas, limited cutting underway. Lettuce, cabbage harvest continued Yuma area, early cutting delayed by ice in heads. Cantaloupe planting making good progress. Early planting set back by subfreezing temperatures. Spring lettuce making good progress Salt River Valley, Pima, Pinal counties. Subfreezing temperatures retarded growth some early-planted fields. Limited valencias, few kinnows, and grapefruit picked Salt River Valley. Limited valencias and grapefruit Yuma. Subfreezing temperatures Yuma, Salt River Valley damaged or retarded new growth colder areas. Heavy bloom underway Yuma. Ranges fair. Gusty winds accelerated drying of range soils. Early calving reported. Lambing underway northern Indian reservations.

ARKANSAS: Weekly temperatures averaged 6° to 7° below normal ranging from upper 30's extreme north to the mid- and upper 40's central and south. Daily extremes 10° to 74°. Snow early in week and light showers over weekend. Adverse weather limited fieldwork northern half State. Some land preparation other areas. Application of fertilizer on fescue pastures active south. Topdressing small grains about finished. Small grains and cool season grasses and clovers providing some grazing, but cattle feeding continues. Livestock mostly good.

CALIFORNIA: Average temperatures 4° to 10° below normal. Minimums below freezing on most days in central, coastal, and desert valleys. Very strong winds on several days and light precipitation in northern half. Cold dry weather with winds retarded development most crops. Some spotty freeze damage. Small grains slow development; need surface moisture. Harvest over-wintered sugar beets full swing; planting new crop where moisture adequate. Land preparation and irrigation active for planting rice, cotton, other spring crops. Winter cultural activities deciduous orchards nearing completion. Extent freeze damage tree fruits and almond expected light. Navel orange harvest over 50% complete; quality good. Valencia oranges good development. Lemons and grapefruit harvest continues. Livestock in good flesh; some supplemental feeding. Range feed growth slowed by cold winds, drought. Some sheep movement to ranges. Egg production down due colder weather. Cutting asparagus Imperial Valley, Orange, Riverside very light. Light harvest Delta district; many spears discarded due frost damage. Broccoli harvest continues Santa Maria-Salinas; reduced volume cool weather. Cabbage harvest almost complete Imperial Valley; fair quality. Pulling carrots Imperial and San Joaquin Valleys; large sizes scarce. Harvest cauliflower very light Central Coast. Cutting celery active Southern California. Lettuce harvest almost complete Imperial Valley; quality fair to good. Palo Verde active and increasing. Potato digging very slow Kern; movement fall crop northern California continues slow. Strawberry harvest South Coast very light; early blooms damaged and lost portion early crop. Cold nights caused loss and damage tomato plants; replanting occurring as plants become available.

COLORADO: Temperatures very cold except for 1 or 2 warmer days just before general storm on Friday. Moderate to heavy snow north and central mountains; lighter other areas. High winds and heavy snow drifting some areas. Precipitation totals 0.50 to 1.00 inch in mountains. Winter wheat and barley good to excellent. Little greening past week. Most fields still dormant. Moderate to heavy snows improved soil moisture. Blowing soil and snow caused minor damage to wheat. Most ranges and pastures snow covered. Supplementary feeding general. Hay supply adequate. Livestock good. Some death loss of newborn calves and lambs from storm of February 18 to 20.

FLORIDA: Temperatures fell rapidly this week as unseasonably high temperatures during early part of week were quickly offset by 2 cold frontal passages on 3d and 4th and on weekend. Average weekly temperatures near normal, well down from 5° to 9° above normal last week. Precipitation mainly in showers accompanying frontal passages and averaged 0.30 to 0.60 inch north and central Florida and 1.50 inches Panhandle. South Florida received light showers mainly on weekend. Small grains sustained freeze burning March 4 and 5. Corn planting and tobacco transplanting started. Moisture short for pastures South. Growth central and north limited by freeze. Cattle improving.



Most citrus trees returned good to excellent condition. Cold-damaged trees improving slowly. Rain beneficial. Irrigation discontinued. Bloom buds opening; not full yet. Orange harvest declining, grapefruit heavy. Strong gusty winds adversely affected vegetable plants. Shifting topsoil, blowing sand damaged tender plants, uncovered seed. Frost damaged tender vegetables. Potatoes up in North Florida. Hastings potato damage erratic. Some too large to cover in colder locations killed back, should come out. South Peninsula areas damage mostly confined to foliage burn, ruffled plants. Transplanting, seeding, continued as weather permits. Replanting as necessary. Shipments increased. All commodities except melons, cucumbers available.

GEORGIA: Heavy to excessive rains first of week caused flash floods along numerous small streams and overflow of some major rivers. Heaviest rain in west-central section where some 3-day totals exceeded 8.00 inches. Most of northern 2/3 of State received over 2.00 inches during week and many areas had more than 4.00 inches. Totals were less than 1.00 inch only in extreme south and southeast. Mild beginning of week turning cold late Wednesday and continued cool remainder of period. Hard freeze north and light freeze along lower coast Friday morning. Averages ranged from near normal southeast to slightly below normal remainder of State. Heavy rains and wet fields delayed land preparation and early planting. Pastures and small grains remain fair to good. Farm activities mainly care of livestock, poultry, and plant beds.

HAWAII: Weather fair to good with rainfall light on Maui, Oahu, and Kauai. Windward Hawaii moderate to occasional heavy showers; leeward area clear and dry. Winds stronger than usual causing bruise damage to tender crops exposed areas. March 5. 18 of 23 sugar mills in operation. Progress of pineapple plantings fair to good with light harvesting, mainly for fresh market. Supplies bananas and papaya light. Disease and cool weather affecting papaya yields. Vegetable supplies adequate. Cattle and pastures fair to good.

IDAHO: Temperature lowered to average 7° to 12° below normal for week. Light precipitation except moderate north measured generally less than normal. Livestock care became more difficult with snow and cold. Forage supplies limited some areas. Livestock generally good. Pruning operations active southwest.

ILLINOIS: Precipitation totals 0.50 to 0.75 south and near Lake Michigan, 0.25 to 0.50 central and less than 0.25 most of north. No snow on ground except 1 to 2 inches near Lake Michigan. Temperature averaged 1° to 3° below normal north, 3° to 5° below central, and 4° to 6° below south. Soil moisture adequate. Most livestock good condition. Farm chores include general livestock care and machine maintenance.

INDIANA: Temperatures below normal 1° to 6° with average 30° to 38°. Warmest on 1st. 58° recorded in south. Coldest on 4th with 12° in north. Precipitation ranged from 0.40 inch northwest to 0.60 inch southeast as rain changed to snow over weekend. Snow cover ranges from trace in south to 4

inches near Lake Michigan. Soils frozen 1 inch deep in south, 3 inches central, and 4 inches north. A 2d deeper layer frozen in north. Farm activity mainly care of livestock.

IOWA: Temperatures averaged around 5° subnormal most localities and precipitation fell mostly on 5th. Amounts were light to negligible northern counties and light to moderate elsewhere. Heavy snow of 5 to 8 inches fell in a zone 50 to 100 miles wide centered from Council Bluffs to Marshalltown. Snow cover at weekend is 1 inch or less over most southern, east-central, and western counties. Deepest snow around 10 inches in Cerro Gordo, Franklin Counties to Allamakee County.

KANSAS: Several weak storm systems during 7-day period. Locally moderate precipitation northwest and extreme southeast, generally light elsewhere. Weekly mean temperatures averaged much below normal. Minima below zero parts of central Kansas early on 3d. Snow cover melted most areas during week. Four inches still on ground parts central early on 8th. Oats and barley seeding delayed by wet fields and progress well behind normal. Oats 4% seeded, 31% last year; 12% average. Spring barley 1% seeded, 12% last year; 6% average. Wheat showed a little growth and greening. Surface moisture supplies mostly adequate, but some western counties still short. Many wheat fields too soft for grazing. Supplemental feeding of livestock continued. Hay supplies reduced and running short local areas. Shrinkage of livestock heavy during recent storms and cold weather. But death losses were generally not excessive.

KENTUCKY: Precipitation moderate to heavy, 0.50 inch to 1.80 inches, mostly on 3d and 6th. One- to 4-inch snowfall on 3d, melting on 4th. General showers on 6th with heavy thunderstorms. Snow flurries on 7th. Temperatures above normal 1st, 2d and 6th; much below normal on 3d, 4th and 7th. Cold and wet with little field activity. Corn growers still scrambling for blight-resistant seed. Burley growers in quandary because of Government program uncertainty.

LOUISIANA: Widely fluctuating temperatures as strong cold fronts on Tuesday and Saturday displaced warm tropical air. Temperatures averaged 3° to 4° below normal west and 5° to 7° below central and east. Extremes: 84° Hammond Tuesday and 19° Cotton Valley Thursday. Temperatures below freezing 4 days north, 2 or 3 days central, 1 or 2 days coast. Showers and scattered thunderstorms with cold fronts. Some light snow Tuesday with flurries as far south as Covington and De Ridder. Weekly precipitation amounts locally less than 0.30 inch north and west to locally more than 1.50 inches east half. Activities included repairing equipment, field drainage, topdressing pastures. Some land breaking and herbicide applications, but surplus soil moisture limited fieldwork. Bedding sweet potatoes continued. Small acreage rice water planted. Spraying, cultivating, and fertilizing sugarcane fairly active; shoving continued. Strawberry harvest light with significant freeze damage to blooms and small berries. Peaches suffered little freeze damage as most varieties not yet blooming. Small grains good. Pasture feed supply average. Livestock mostly good.

MARYLAND AND DELAWARE: Second wet week. Temperatures averaged 1° to 2° above normal. Extremes 60's, 20's except 10° to 20° in west. Precipitation mostly on 3d, 4th; totaled 1.00 inch or more. Snow on same dates in northern portion of both

States; 1 to 6 inches east and 5 to 15 inches west. Some fieldwork early week on well drained fields. Chief job spreading lime and fertilizer. Some green peas seeded southern shore. Tobacco beds being seeded where soils permit. Muddy lots add work to livestock care.

MICHIGAN: Temperatures average near normal to 2° below normal in southern Lower Michigan and from 2° to 6° below normal in northern Lower Michigan and the Upper Peninsula. Mild Friday; otherwise quite chilly most of week. Precipitation less than 0.25 inch in Upper Peninsula but Lower Michigan received from 0.65 to around 1.50 inches of moisture, mostly as snow Saturday and Sunday. Some rain in extreme south Saturday. Heaviest amounts in Thumb area and northeast.

MINNESOTA: Temperatures averaged near normal across State. Some light snow showers across north. Snow depth generally less than 6 inches in western counties and southwest, 6 to 18 inches elsewhere except along a 100-mile-wide strip from Alexandria northeast which generally has from 24 to 30 inches.

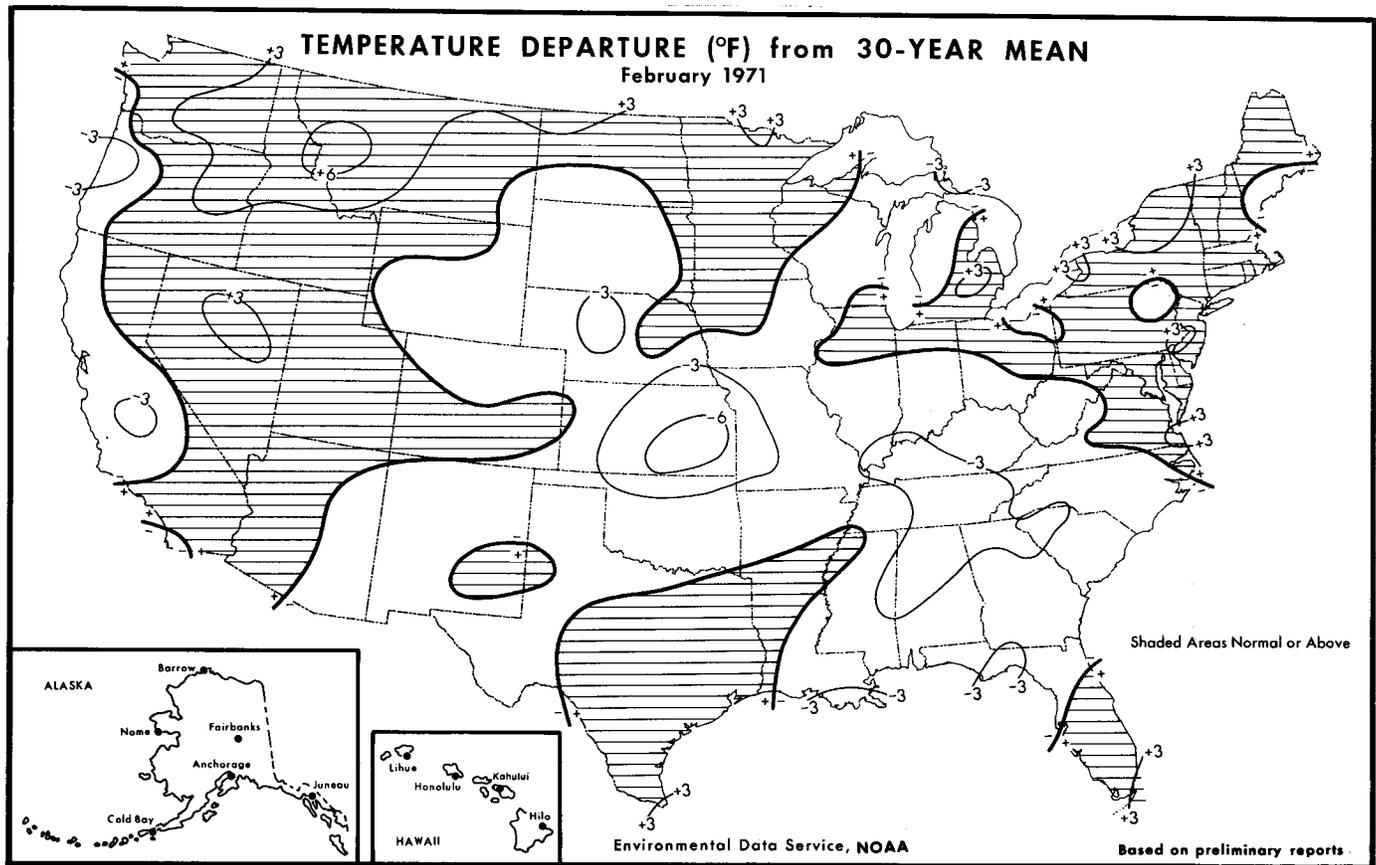
MISSISSIPPI: Small tornadoes February 26: 3 injured Rose Hill, only timber damage 8 miles west of Leakesville, and straight line wind damage Wiggins and Benndale. Flooding parts central and southern Mississippi on 26th and March 1 and 2. One-day rain total of 4.65 inches Shubuta measured Tuesday morning. Small tornado Tuesday at Moss, no casualties, damages \$137,000. Some snow northern and central sections Wednesday, Clarksdale reported over 2 inches. Weekly precipitation totals under 0.75 inch in northern 1/3 ranging to mostly over 2.00 inches in southern half. Weekly temperature averages mostly 3° to 6° below normal. Weekend precipitation light, mostly on Saturday, ranging from none at Tupelo to 0.51 at Columbia. Soil moisture surplus over State adequate some local areas north and southeast. Wet soils held fieldwork near standstill. Winter wheat, oats, livestock fair to good. Pastures mostly fair. Spring plowing 16% complete. Average 1 day suitable for fieldwork.

MISSOURI: Cold windy week. Cold air surged across State on Sunday, Wednesday, and Saturday. Temperatures averaged 4° to 6° below normal. Extremes: 6° above zero at Bethany Wednesday and 63° at Springfield Friday. Light precipitation throughout week with totals mostly less than 0.50 inch, with heaviest amounts reported in Ozark, Bootheel, and northern counties.

MONTANA: Cold at first. Turning warmer west. Continued cool east. Temperatures averaged 5° below normal. Coldest -33° West Yellowstone 2d. Light snow middle of week except heavier extreme south and western mountains. Newborn calf and lamb losses below normal. Supplemental feeding widespread. Ninety-five percent range cattle and sheep receiving supplemental feed. Hay supplies adequate, winter ranges fair. Calving 20% complete. Lamb crop 15% dropped and 20% sheep now sheared. Wind damage winter wheat light.

NEBRASKA: Cold week. Four to 9 inches of snow in southern Panhandle and southwest without much drifting. Frequent snow flurries elsewhere. Moisture in west beneficial to fall-sown crops. Muddy roads and feedyards many central and eastern areas. Some cattle being moved to drier fields. Bedding supplies in good demand, especially for young stock. Calving, lambing, and farrowing

(Continued on page 10)



WEATHER - FEBRUARY 1971

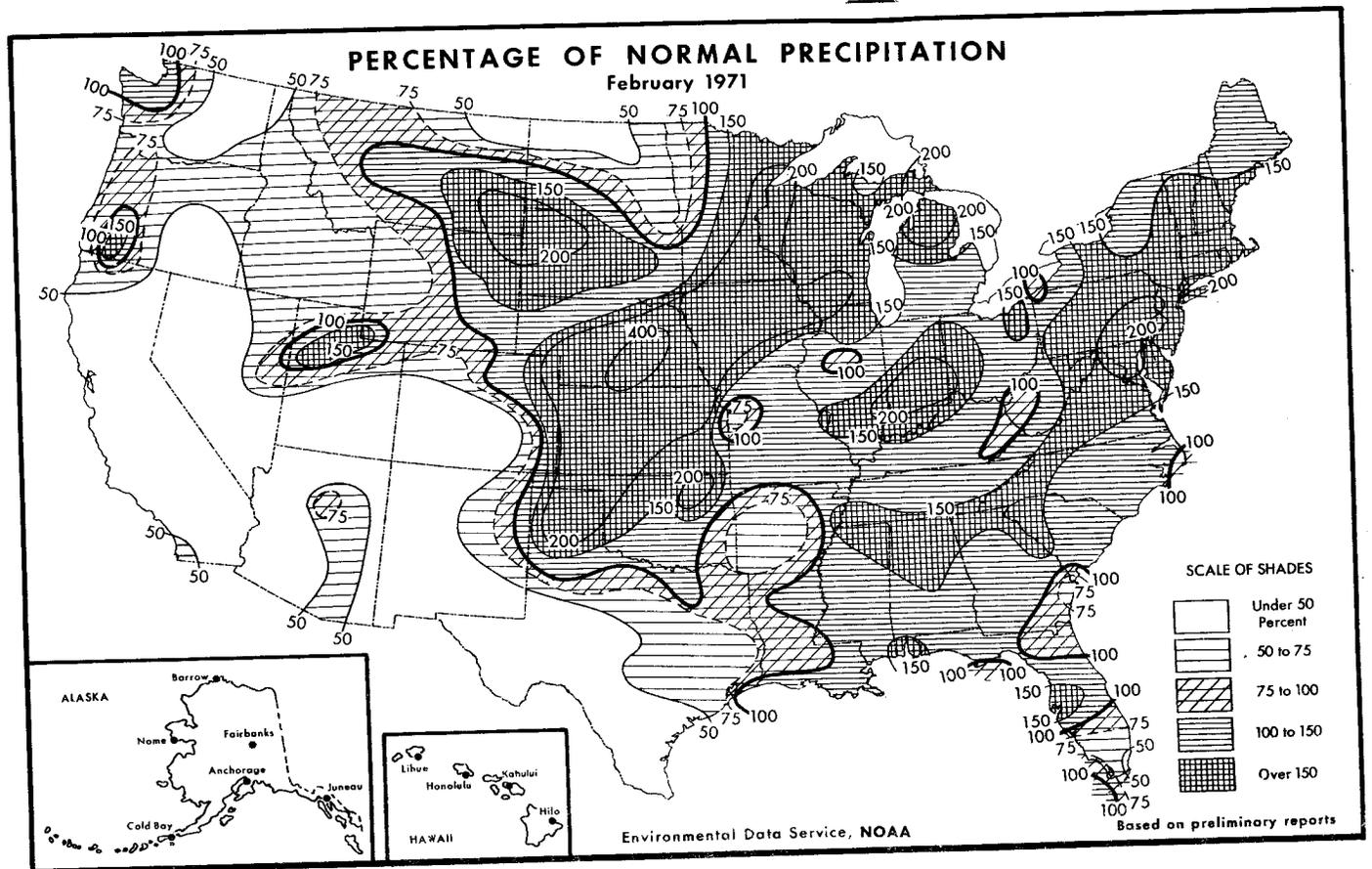
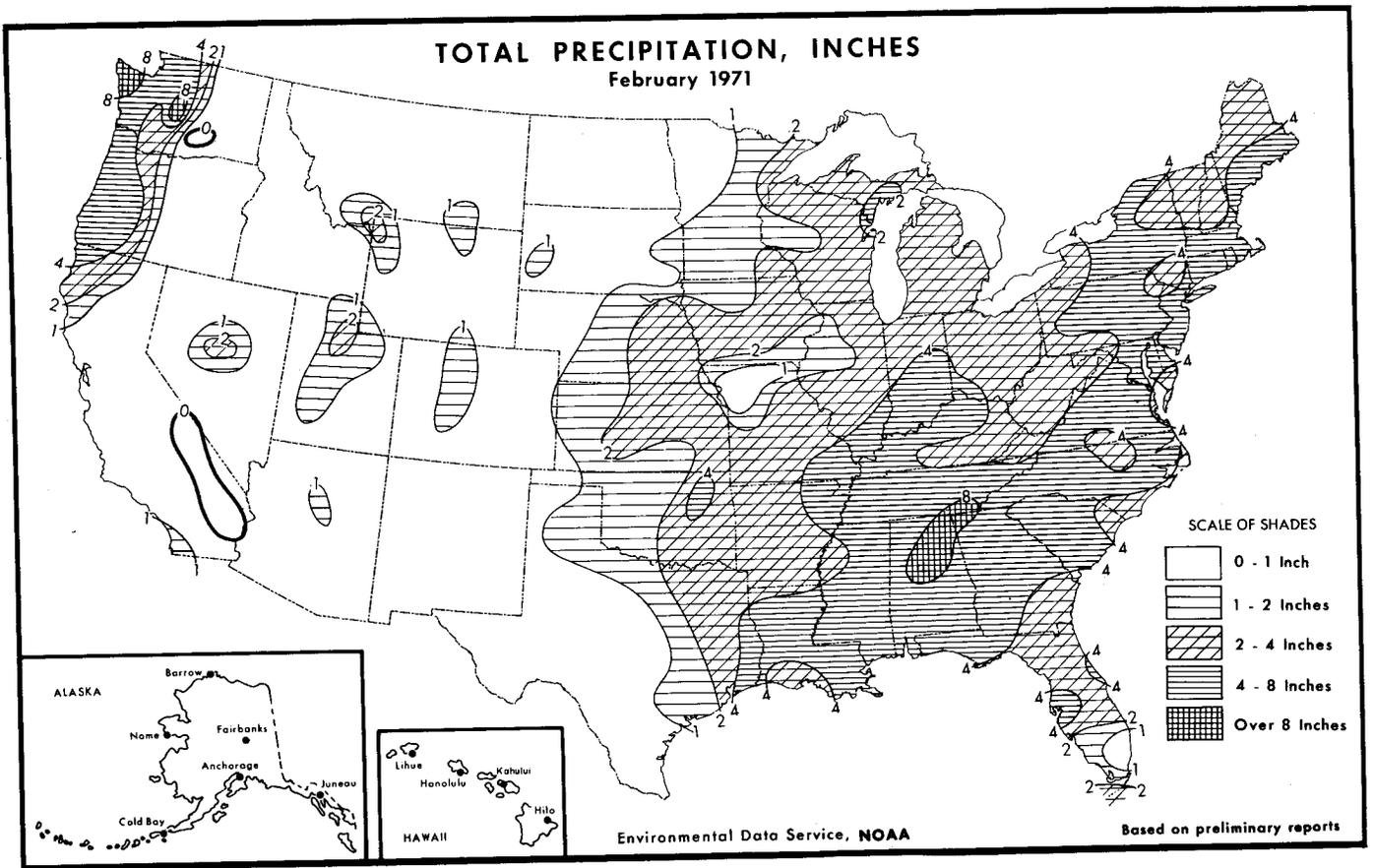
TEMPERATURE: Temperatures averaged warmer than normal over the western half of the Nation during the first half of February and cooler than normal over the East. The situation was reversed in the last week. Warm weather prevailed over almost the entire country in the 3d week. Monthly mean temperatures were 3° to 7° above normal in the northern Rockies and 3° to 7° cooler than normal in eastern Kansas, western Missouri and from the Lower Ohio River to the southern Appalachians.

Subzero temperatures occurred on several mornings in the northern half of the Nation in the first half of February. Eagle River, Wis., registered 40° below zero on the 2d. Waterloo, Iowa, recorded 20° below zero on the 8th. At the other extreme, Thermal, Calif., registered 94° on February 11. On the 25th, the mercury at Orlando and Tampa, both in Florida, climbed to 88°. This set a new February record for Tampa. On the same date, bitter cold hit the Northeast and Greenville and Houlton, both in Maine, registered 12° below zero. On the last day of the month, subzero weather occurred in the central Rocky Mountains, -6° at Eagle, Colo.

PRECIPITATION: A large storm began shaping up in the central Rocky Mountains on February 3. By the end of the 1st week of February, it had produced widespread precipitation over much of the eastern half of the Nation. Snow from the northern and central Rocky Mountains across the Great Plains to the upper Mississippi River Valley, freezing rain and freezing drizzle from the central Great Plains to New Jersey, and

scattered thundershowers from Oklahoma to the Ohio River Valley and southward to the Gulf of Mexico. Severe weather occurred over much of the eastern half of the Nation in the 2d week of February. Heavy snow fell in parts of New York and New England, showers and thunderstorms occurred south of the snowbelt and tornadoes occurred in Georgia and Florida. At midmonth, heavy snow fell from eastern Tennessee to New Jersey. Strong winds drifted the snow badly and east of the snowbelt iced the highways. The strong winds, deep snow, and icy roads made travel difficult and in some places, impossible. Numerous streams in Pennsylvania rose to above flood stage but the cold weather prevented rapid thawing and major flooding. However, one person in Berks County was drowned when high water swept his automobile off the highway.

More inclement weather occurred over the eastern half of the Nation in the 3d week of February. More snow in the Northeast and rain showers along the Atlantic seaboard. A storm in the West dumped 9 inches of snow at Cedar City, Utah. A number of tornadoes hit Colorado, Kansas, Oklahoma, and Texas. Near the end of the 3d week of the month, heavy snow fell in parts of the Texas Panhandle and nearby portions of Oklahoma. Strong winds and drifting and blowing snow halted traffic in some areas. Numerous tornadoes occurred in the South from Texas to Georgia. They were most numerous in Mississippi where scores of persons were killed, hundreds injured, and property damage ran into millions of dollars.



Blizzards raged in the northern States in the last week of February. As one big storm moved out over the Atlantic Ocean another began to take shape in the Northwest. It moved to the northern Great Plains spreading mixtures of rain and snow as it advanced. Sand and dust storms occurred in Arizona and thunderstorms became widespread in the South from Georgia to Texas.

L. W. Dye

(Nebraska, continued from page 7)

making good progress, but cold wet weather has caused some calf losses.

NEVADA: Temperatures below normal entire State, from 3° below normal at Las Vegas to 17° below normal at Wells. Windy midweek. Light precipitation all stations except extreme south. Scattered snowfall northern part of State. One inch at Ely to 7 inches at Owyhee. Calving and lambing activity starting to increase. Livestock wintering with normal death losses. Ranges fair, but supplemental feeding remains major source of feed. Farming activity confined to southern area. Planting of tomatoes on limited acreage continues, while harvesting green onions in progress Moapa Valley.

NEW ENGLAND: Wet week with seasonable temperatures. Means 1° to 3° below normal in northwest but mostly 1° to 3° above normal elsewhere. On March 4, a storm center with extremely low pressure traveled northward through eastern sections to set many new low-barometer records near its path, including a sea level mark of 28.36 inches at Worcester, Mass. Boston's near-record 28.47 inches was the second lowest in 100 years. Strong winds with gusts generally 50 to 80 m.p.h. caused widespread damage, especially to trees. Some buildings damaged. This storm brought mixtures of rain, freezing rain, sleet, and snow on March 3 and 4, varying from nearly all rain over Cape Cod to nearly all snow in Vermont. Vermont particularly hard hit by snow with 15 to 30 inches in blizzard conditions, blocking roads with deep drifts. A lesser storm Sunday brought rain in south and snow in north. Precipitation for week mostly 1.50 to 3.00 inches, with new snowfall from up to 3 feet in parts of Vermont to little or none in Cape Cod. Tapping of maple trees has started southern areas with few minor flows reported. High snow depths in northern areas will delay tapping.

NEW JERSEY: Wet week with temperatures mostly averaging a little above normal. Mild afternoons with high readings in 40's or 50's. Nighttime readings mostly at or below freezing. Frequent rains, occasionally mixed with snow, averaged 2.00 inches over northern 1/3 State and 1.60 inches elsewhere.

NEW MEXICO: Light precipitation Monday and Tuesday except in southwest but with 0.50 inch in some northern localities. Temperatures averaged near 10° below normal. Daytime temperatures warmed until Friday and then cooled. Cold nights midweek with below zero in some mountain areas and cold again on weekend. Moisture short to very short. Irrigated wheat good, dryland fair to poor, needs immediate moisture. Early lettuce - onions generally good. General land preparation active. Range condition varies fair to poor. Cattle and sheep fair to good. Calving and lambing well underway.

NEW YORK: Very heavy snowfall on 3d and 4th followed by high wind caused statewide paralysis to travel except in southeast 1/4 and extreme west. Schools and industries closed and many highways impassable through 5th. Snowfall totaled 25 to 45 inches Lake Ontario east to Mohawk Valley and Central Adirondacks and 18 to 24 inches southwest through Finger Lakes to east central interior and in northern valleys. Stillwater 46 inches and Old Forge 36. Twenty-two inches at Ithaca set new storm-total record for March. Amounts decreased to 6 to 12 inches Buffalo area and Lower Hudson Valley. A water equivalent of snow, 1.70 to 2.30 inches where snowfall of 18 inches or more. Precipitation largely as rain coastal sections with totals 1.00 to 1.60 inches. Weekly temperatures averaged near normal with coolest weather midweek and colder trend on 7th. Snow depth by late week mostly 30 to 45 inches Lake Ontario snowbelt to Mohawk Valley and through northern half decreasing to 3 inches or less extreme southeast.

NORTH CAROLINA: Mild at first with strong cold northwesterly winds 4th, 7th, and 8th. Temperatures averaged a little below normal. Scattered minor wind damage. Rain daily through 4th and scattered light showers over weekend. Totals 1.00 to 6.00 inches averaging 2.00 to 4.00 inches Coastal Plain and southern Piedmont and 2.00 inches elsewhere. Some soil erosion and lowland flooding. A little snow and sleet mountains 3d and 4th. Soil moisture mostly surplus. Small grains mostly good, slight improvement. Pastures improving and mostly fair. Tobacco plant beds mostly fair. Irish potatoes poor. Hay and feed grains mostly adequate. Labor demands increasing.

NORTH DAKOTA: Temperatures averaged 1° to 6° above normal north to 4° to 5° degrees below normal south. Precipitation light. Mild temperatures and light precipitation favorable for livestock. Possible freeze-thaw damage to fall-sown grain and legumes. Prospects good for calving and lambing as time approaches. Some summer fallow and fall plowed fields bare and could start blowing unless moisture supplies are adequate.

OHIO: Three to 9 inches of snow fell east of a Cincinnati-to-Akron line on 3d. Rain on 6th generally in 0.30 to 0.90 inch range. Snow flurries especially heavy over northern half of State of 7th. Mild 1st and 6th but temperatures near or below normal remainder of week. Weekly extremes: 63° at Chesapeake on 1st and 12° at Circleville on 4th.

OKLAHOMA: Temperatures averaged 4° to 10° below normal. Extremes 83° and 6°. Precipitation averaged from trace Panhandle, north-central, and west-central, up to 0.50 inch southeast. Snowfall over southeast half State Wednesday averaged 1 to 2 inches. Greatest snowfall 5.3 inches at Stillwell. Recent rain and snow have improved winter wheat. Crop now reported 15% poor, 47% fair, 37% good, 1% excellent. Up slightly from last week, but below year ago. Some limited growth and greening considerably few scattered southern localities. Greenbug population increasing southwest; spraying stepped up. Seeding spring grains made limited progress. Spring oats 53% planted, 61% year ago. Spring barley 73% planted, also behind year earlier. Surface soil moisture continued to improve, but still mostly short western 1/3 State, short to adequate central 1/3 and adequate to surplus east.

Subsoil moisture mostly short western half, adequate elsewhere. Livestock conditions down from week earlier. Mostly fair to good, except northwestern Oklahoma where conditions poor to fair as many cattle lost considerable flesh following snowstorm.

OREGON: Cold windy week. Rain and snow showers with very cold mornings midweek. Weekly temperatures averaged 6° to 11° below normal with 13° below normal central part. Minima ranged -8° to 21° in Cascades and eastward, 14° to 26° western valleys and 22° to 36° along coast. Maxima 37° to 58°. Wet days mostly 2 to 3 east, 5 to 7 west. Precipitation totaled 0.10 to 0.40 inch east of Cascades and in south-western valleys. Totals westside mostly 1.00 to 2.50 inches except 3.50 to 5.10 inches southern coast range and northern Cascades. Cold weather limited farm activity mainly to feeding livestock and repairing machinery. Some orchard pruning. Fall grains still dormant but fields look good. Potatoes being planted Hermiston area.

PENNSYLVANIA: Cool wet week. Major snowstorms with blizzard conditions Wednesday. Temperatures averaged 1° to 2° below normal. Mild at start of week, cold midweek, mild Friday and Saturday, and colder again Sunday. Extremes: 61° and 12°. Deep low center moved through southeastern portion of State Wednesday. Total water equivalent around 1.25 inches at most stations. Heavy snows of 10 to 20 inches fell over most of northwestern 2/3 of State. From 1 to 5 inches recorded along a narrow strip adjacent to Lake Erie and over southeast 1/3 of Commonwealth. Heavy winds drifted snow badly closing highways and forcing widespread shutdown of schools and businesses. Temperatures dropped into 20's and 30's. The combination of over 40 m.p.h. winds, snow, and falling temperatures created blizzard conditions many areas. Weaker low center on Sunday tracked along St. Lawrence Seaway and resulted light snow or rain over weekend. Heaviest water equivalents with latter storm were 0.50 to 1.00 inch in northwest portion. Routine farm chores.

PUERTO RICO: A dry cool week. Little or no rain south coast and only light showers totaling generally less than 1.00 inch in other divisions. Greatest amount 1.61 inches eastern Luquillo Mountains. Crop moisture conditions near normal all divisions except too dry in some south zones. Temperatures averaged 75° on coast and 69° interior with average departure of 0.6° below normal. Highest maximum 89°; lowest minimum 50°. Sugar-cane harvesting and grinding operations made excellent progress in dry weather. Seeding also began some zones. Young coffee crop developing well. All zones active cultivating, pruning and fertilizing. Pastures generally good to excellent, except some southwest zones where more rain needed. New tobacco crop developing well and good progress in curing sheds under dry weather conditions. Minor crops developing well with good abundance of citrus on market.

SOUTH CAROLINA: Rain nearly every day and weekly totals ranged from 3.00 to 7.00 inches. Temperatures averaged near normal except slightly above normal in south. Cold front late on 3d dropped minimum temperatures to freezing and below latter part of week. Soil moisture mostly surplus. Farming activity curtailed by wet weather. Excessive moisture causing concern over mortality of tobacco plant beds. Some orchard owners using airplanes to maintain spray schedule.

SOUTH DAKOTA: Temperatures averaged from near normal to 5° below normal. Extremes ranged from 6° below zero at Newell and Shadehill Dam on 2d to 53° at Wagner on 4th. Precipitation fell as light snow mostly end of week. Amounts generally 2.50 inches or less. Snow cover on 5th ranged mostly from trace to 4 inches but spotty areas reported up to 1 foot or more. Supplemental feeding of livestock continues. Very little winter pasturing of livestock reported, due snow cover. Livestock remain good. Main farm activities caring and feeding livestock.

TENNESSEE: Weak storm moved by to the south of Tennessee Monday night and Tuesday causing light rains followed closely by a stronger storm Tuesday night and Wednesday. The 2d storm caused moderate rain followed by light snow. Temperatures were 4° to 7° below normal middle and west; near normal east. Warm early and toward end of week; cold at midweek. Rains restricted farmwork to routine chores and caring for livestock. Small grains good. Some topdressing started. Freeze damage has been light. Livestock good. Farmers busy planning for this year's crops. Few reports of seed corn storage.

TEXAS: Scattered light to moderate precipitation fell first of week from High Plains southeastward to coast. However most all sections of State continued to suffer from drought. Freezing temperatures dipped deep into South Texas on 4th. Lack of adequate moisture for germination for corn, cotton, sorghum, rice continues major concern to Texas farmers. Moisture South Texas, South-Central, Lower Valley and Coastal Bend areas continues short as farmers begin early seeding. Some farmers dry-planting while others wait for more favorable moisture conditions. Livestock owners on the High Plains continue roundup activities after last week's blizzard. Death losses vary from light to heavy, however heavy shrinkage occurred all livestock. Some freeze damage to early-blooming fruit trees. Cabbage, carrots, lettuce, spinach, and other winter vegetable harvest active South Texas. Early spring onion harvest beginning Lower Rio Grande Valley. March 4 frost nipped tender spring vegetables South Texas areas. Overall damage expected light. Most spring vegetables earlier than normal. Potato, onion planting underway High Plains. Citrus harvest active Lower Valley.

UTAH: Scattered snow forepart of week and again latter part of period. Accumulated moisture light to moderate. Temperatures much below normal 2d week in row. Averages ranged between 10° and 20° below normal except 5° to 10° below Uinta Basin. Soil temperatures at 4-inch germinating depth averaged between 28° and 35° much of State, but in 40's St. George area. Early spring fieldwork at standstill. Farm flock lambing in full progress and some calving started. Fruit outlook good as no alternate warm and cold periods occurred. Care and feeding of milk cows, poultry, beef cattle and sheep on winter ranges, valley farms, and feedlots continue major activities. Some marketing of potatoes and apples from storage continues. Major reservoirs contain 3.2 million acre-feet of useable water as of March 1; most ever for date. In addition, snow-pack poised in high country for spring runoff, average or above most areas. Irrigation water supply for 1971 crops best ever.

VIRGINIA: Warm Monday and Saturday; otherwise cold. Heavy precipitation at midweek and light precipitation over weekend. Several inches of

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snow in north and west. Quite windy Thursday. Some fieldwork underway before rain and snow. Fieldwork early week included plowing, spreading lime and fertilizer, planting potatoes on Eastern Shore, and preparing and planting tobacco seedbeds. Lambing was drawing to close and calving continued. Grazing provided less forage than year ago. Feed supplies lower than last year, but generally adequate.

WASHINGTON: West of Cascades: Average temperatures 5° to 7° below normal. Snow in lowlands beginning of week and throughout week in mountains. Showers of rain and snow latter half week in lowlands. Precipitation amounts 1.00 to 3.00 inches. Farm work delayed by cold, windy, wet weather. Livestock good. East of Cascades: Average temperatures 7° to 12° below normal. Minimums ranged from 5° to 15° recorded on 1 or more nights. Precipitation amounts 0.50 inch extreme eastern counties, less than 0.10 inch elsewhere. Snow cover Palouse, winter wheat area 1 to 6 inches, little or none elsewhere except northern valleys. Hop trellis maintenance, grape pruning and seeding spring grains continue southern counties. Very little activity extreme eastern counties. Reseeding necessary some localities as result wind erosion. Winter wheat looks good, but some stands spotty. Livestock good. Feed supply adequate.

WEST VIRGINIA: Mild springlike weather abruptly ended March 3 by blustery daylong snowstorm which gave entire State 6 inches with up to 14 inches in mountains. Little melting as temperatures in teens followed. Light rain March 6 followed by snow flurries and strong winds March 7, 8. West weather limited field activity. Soil too wet to allow seedbed preparation. Livestock are in good condition with calving and lambing in full swing.

WISCONSIN: Temperatures near normal. Precipitation light. Two to 4 inches new snow south and east with considerable blowing over weekend. Snow depths mostly unchanged from last week and range between 1 to 4 inches in the southern tier of counties to an average of 30 inches across the north. Main farm activities care and feeding livestock. Also getting machinery, seeds, and fertilizers ready.

WYOMING: Light snow fell over most of State. Some stations reported about 0.30 inch of moisture. Temperatures averaged 6° to 13° below normal statewide. Warmest around Wednesday.

Maximums were mostly 30's to low 40's west of Divide and the Upper Platte Drainage, 40's to 50's elsewhere. Minimums mostly -5° to -25° west of Divide and Upper Platte Drainage, -17° to 3° elsewhere. Temperature extremes were 52° at Carpenter and -38° at Bondurant. Calving and lambing on farms gaining momentum. Recent cold weather caused some stress to livestock, but death losses still light. Supplemental feeding general.

Heating Degree Days (Base 65° F.)
 February 1971

ALA. Birmingham . . .	578	MAINE, Caribou . . .	1415	OKLA. Okla. City . . .	718
Mobile . . .	308	Portland . . .	1202	Tulsa . . .	721
Montgomery . . .	445	MD. Baltimore . . .	766	OREG. Astoria . . .	632
ALASKA, Anchorage . . .	1238	MASS, Boston . . .	962	Burns . . .	688
Barrow . . .	2555	Chatham . . .	924	Medford . . .	143
Fairbanks . . .	1949	NICH. Alpena . . .	1298	Pendleton . . .	698
Juneau . . .	1028	Detroit . . .	1647	Portland . . .	615
Nome . . .	2150	Flint . . .	1079	Salem . . .	710
ARIZ. Flagstaff . . .	943	Grand Rapids . . .	1140	PA. Allentown . . .	969
Phoenix . . .	341	Houghton Lake . . .	1289	Erie . . .	1048
Tucson . . .	250	Lansing . . .	1070	Harrisburg . . .	884
Winslow . . .	774	Marquette . . .	1279	Philadelphia . . .	802
Yuma . . .	195	Lincoln . . .	1452	Pittsburgh . . .	961
ARK. Fort Smith . . .	647	S. Ste. Marie . . .	1464	Scranton . . .	1051
Little Rock . . .	571	MINN. Duluth . . .	1464	R. I. Providence . . .	949
CALIF. Bakersfield . . .	420	Internat'l Falls . . .	1550	S. C. Charleston . . .	424
Eureka . . .	518	Minneapolis . . .	1341	Columbia . . .	519
Fresno . . .	480	Rochester . . .	1357	Greenville . . .	643
Los Angeles . . .	184	St. Cloud . . .	1414	S. DAK. Aberdeen . . .	1388
Red Bluff . . .	419	MISS. Jackson . . .	744	Huron . . .	1375
Stockton . . .	477	Meridian . . .	468	Rapid City . . .	1182
San Diego . . .	266	Vicksburg . . .	---	Sioux Falls . . .	1288
San Francisco . . .	414	MO. Columbia . . .	910	TENN. Chattanooga . . .	697
COLO. Denver . . .	958	Kansas City . . .	931	Knoxville . . .	710
Grand Junction . . .	856	St. Louis . . .	866	Memphis . . .	593
Pueblo . . .	835	Springfield . . .	852	Nashville . . .	730
CONN. Bridgeport . . .	893	MONT. Billings . . .	1063	TEX. Abilene . . .	455
Hartford . . .	1001	Glasgow . . .	1416	Amarillo . . .	726
D. C. Washington . . .	772	Great Falls . . .	993	Austin . . .	301
FLA. Apalachicola . . .	303	Haver . . .	1261	Fort Worth . . .	254
Ft. Myers . . .	85	Houston . . .	1013	Brownsville . . .	239
Jacksonville . . .	256	Kalispell . . .	1007	Corpus Christi . . .	151
Key West . . .	20	Miles City . . .	1243	Dallas . . .	403
Lakeland . . .	134	Missoula . . .	911	Del Rio . . .	239
Miami . . .	45	NEBR. Grand Island . . .	1080	El Paso . . .	457
Orlando . . .	115	Lincoln . . .	1076	Fort Worth . . .	440
Pensacola . . .	---	Norfolk . . .	1126	Galveston . . .	223
Tallahassee . . .	335	North Platte . . .	1127	Houston . . .	273
Tampa . . .	134	Omaha . . .	1168	Lubbock . . .	618
GA. Atlanta . . .	572	Valentine . . .	1244	Midland . . .	493
Augusta . . .	532	NEW. Ely . . .	797	Midland . . .	493
Macon . . .	440	Las Vegas . . .	416	San Angelo . . .	359
Savannah . . .	359	Reno . . .	780	San Antonio . . .	329
IDAH. Boise . . .	765	Winnemucca . . .	837	Victoria . . .	251
Louisville . . .	720	N. H. Concord . . .	1165	Waco . . .	349
Pocatello . . .	1034	N. J. Atlantic City . . .	814	Wichita Falls . . .	560
ILL. Cairo . . .	748	Trenton . . .	813	UTAH, Blanding . . .	---
Chicago . . .	1023	N. MEX. Albuquerque . . .	735	Salt Lake City . . .	836
Moline . . .	1088	Roswell . . .	612	VT. Burlington . . .	1257
Peoria . . .	1035	N. Y. Albany . . .	1104	VA. Lynchburg . . .	730
Rockford . . .	1114	Binghamton . . .	1154	Norfolk . . .	567
Springfield . . .	952	Buffalo . . .	1045	Richmond . . .	709
IND. Evansville . . .	874	Dayton . . .	807	Roanoke . . .	719
Fort Wayne . . .	1031	New York . . .	807	WASH. Colville . . .	---
Indianapolis . . .	1006	Rochester . . .	1059	Omak . . .	---
South Bend . . .	1012	Syracuse . . .	1069	Quillayute . . .	673
IOWA, Burlington . . .	1069	N. C. Asheville . . .	707	Seattle-Tacoma . . .	627
Des Moines . . .	1167	Charlotte . . .	655	Spokane . . .	873
Dubuque . . .	1257	Greensboro . . .	728	Walla Walla . . .	653
Sioux City . . .	1133	Hatteras . . .	486	Yakima . . .	754
KANS. Concordia . . .	1071	Raleigh . . .	636	W. VA. Beckley . . .	883
Dodge City . . .	919	Wilmingon . . .	469	Charleston . . .	828
Goodland . . .	958	N. DAK. Bismarck . . .	1458	Huntington . . .	760
Topeka . . .	1065	Fargo . . .	1461	Parkersburg . . .	831
Wichita . . .	1005	Williston . . .	1400	WIS. Green Bay . . .	1391
KY. Lexington . . .	838	OHIO, Akron-Canton . . .	962	Madison . . .	1258
Louisville . . .	833	Cincinnati . . .	890	Milwaukee . . .	1211
LA. Baton Rouge . . .	723	Cleveland . . .	1032	WYO. Casper . . .	1119
Lake Charles . . .	271	Columbus . . .	950	Cheyenne . . .	1095
New Orleans . . .	328	Dayton . . .	975	Lander . . .	1083
Shreveport . . .	398	Toledo . . .	1035	Sheridan . . .	1122
		Youngstown . . .	1055		