

# Weekly Weather & Crop Bulletin

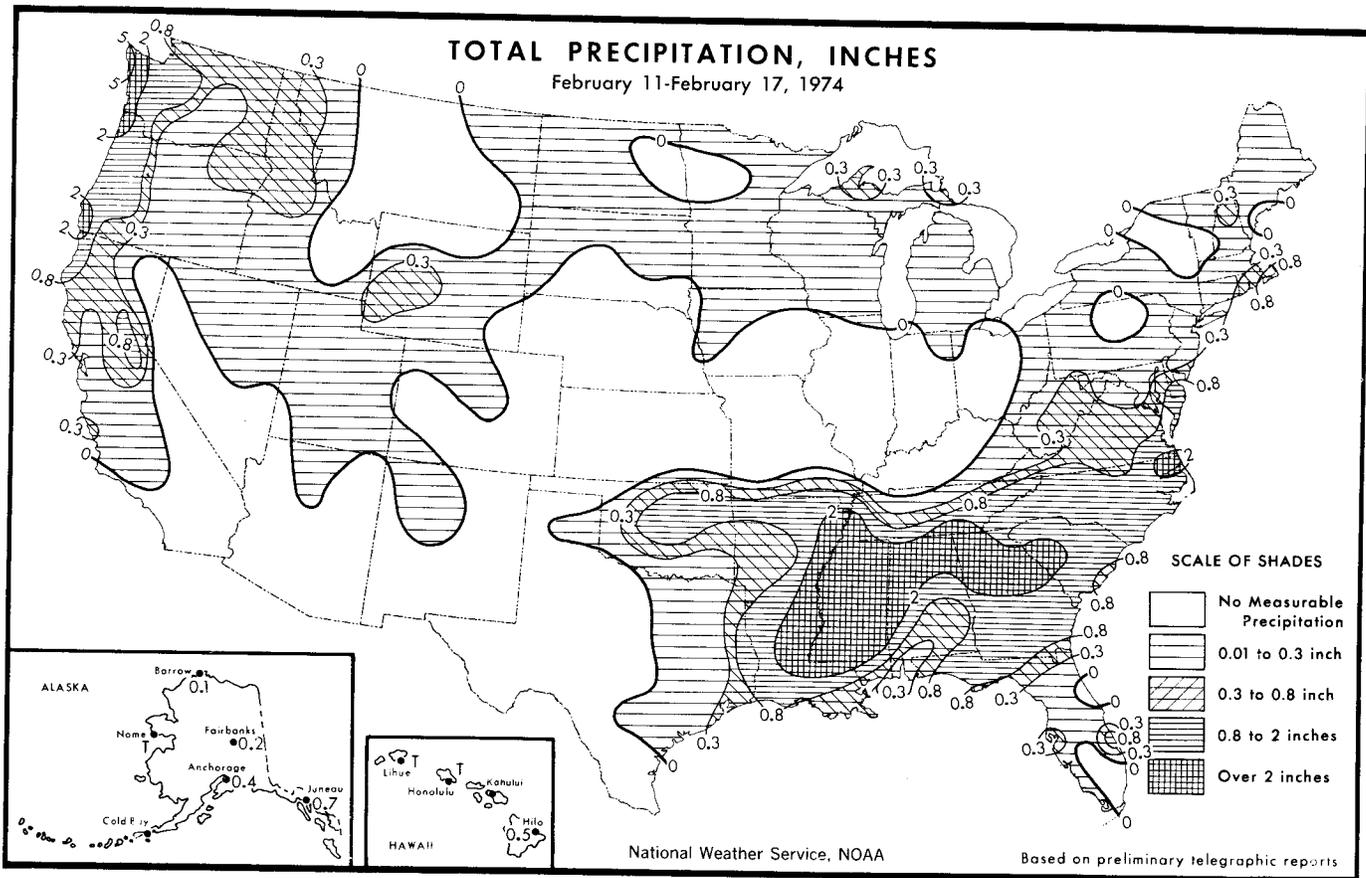
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## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** Fair skies and mild temperatures dominated most of the nation early in the week. Montana southeastward through South Dakota reported temperatures 12° to more above normal with Havre, Mont., recording the highest variance of 19° above normal. Typical February weather returned on Thursday and continued through the weekend when thunderstorms and snow delivered 0.14 in. to over 4.00 in. of precipitation in sections of New England and the Gulf Coast States.

**PRECIPITATION:** While most of the nation remained dry and mild, heavy precipitation pelted sections of the southeast soaking the Mississippi Valley with over 2.00 in. of rain. Continuous rain dampened the Pacific Northwest throughout the week measuring twice the expected amount. The low pressure system which produced rain over the Mississippi Valley finally drifted out over the Atlantic bringing snow to New England on Sunday.

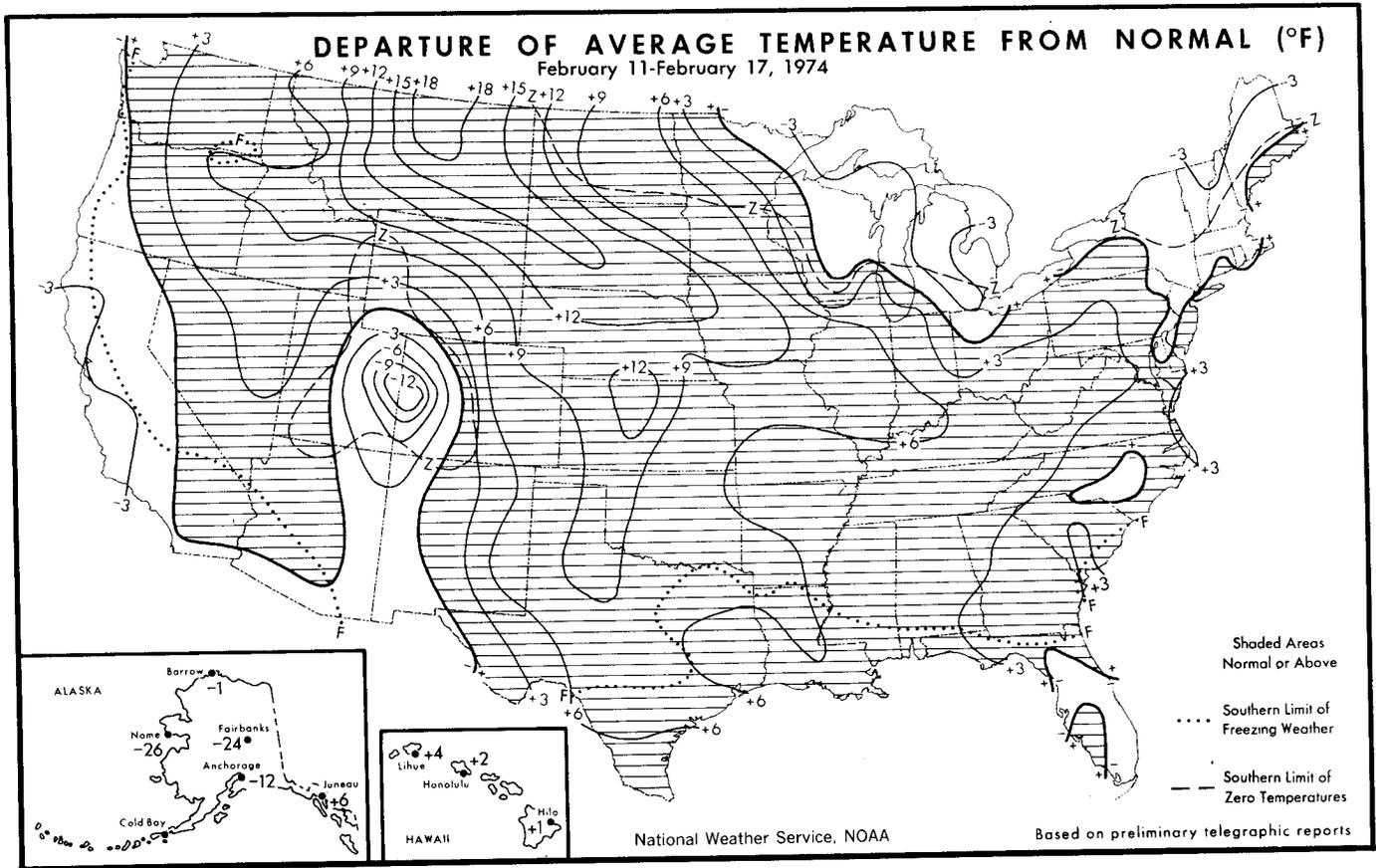
Monday, scattered snow fell over the Great Lakes,

parts of New England and the Northern and Central sections of the Appalachians. Boonville, N. Y., received 4.00 in. of precipitation in just three and a half hours. In the Midwest, Akron, Ohio, measured 2 in. of new snow.

Light precipitation fell along the shores of the Eastern Great Lakes and the northern borders of New England on Tuesday. Buffalo, N. Y. received an inch of snow during the night for a total of 13 in. on the ground. Eastport, Me., accumulated 6 in. of snow in only 6 hours.

Wednesday, a cloud mass covering northern New England produced scattered rain and snow showers. Caribou, Me., received 1 in. of snow during the day. Cloudy conditions over the Pacific Northwest brought rain to western Washington and Oregon. Quillayute, Wash., recorded 0.84 in. within only six hours.

Heavy thunderstorms pelted Arkansas, northern sections of the central Gulf Coast States and the western Carolinas on Thursday. Friday, thunder-



storms and rain continued in Oklahoma and southern Texas through much of the lower Mississippi Valley and to the southern portions of the central gulf coast. Thunderstorms dumped 1.50 in. at Baton Rouge, La., 1.40 in. at Meridian, Miss., and 0.82 in. on Jackson, Miss.

Saturday, a cloud cover blanketed the Pacific Coast and produced rain from western Washington to northern California. Cape Blanco, Ore., received 1.33 in. of rain in a six-hour period and more than 3.00 in. in 24 hours. Sault St. Marie, Mich., received over 3 in. of snow during a six-hour period.

An intense winter storm brought locally heavy snow to sections of southern New England on Sunday. In a six-hour period 4 in. fell on Providence, R. I., with 2 in. in Boston, Mass. Heavy snow squalls left 4 in. around Logan, Utah, and some snow fell in the northern Rockies with rain along the Washington coast.

**TEMPERATURE:** Mild and warm weather characterized the weather pattern compared to previous weeks bitter cold temperatures. While most of the nation averaged normal or above normal temperatures, the upper Great Lakes region and New England along with the West Coast averaged 3° below normal. Large areas in the Midwest recorded temperatures 5° to 12° above normal.

Monday, a cold wave invaded the upper Great Lakes area sending temperatures dipping below 10° in Minnesota, Wisconsin and northeast Iowa. Gunnison, Colo., recorded the Nation's lowest temperature this morning, 28° below zero. Sioux City, Iowa, set a new record high at 60°, while Palm Beach, Fla., reported a record-breaking low temperature of 38°.

Tuesday, unseasonably warm weather sent temperatures soaring 20° above normal into the 60's as far north as Kansas and southern Iowa. By midafternoon temperatures ranged from 79° at McAllen, Tex., to 7° at Minot, N. D.

A cold front moved southward Tuesday night causing Wednesday morning temperatures to dip below zero in sections of North Dakota and Minnesota. Ahead of the front, Mississippi Valley temperatures remained in the 30's and 40's. Temperatures climbed into the 70's from S. C. to the Texas Panhandle while Devil's Lake, N. D., reported a high of 5° below zero.

Thursday, cold winter air invaded the Nation from Maine Southwest through the Ohio Valley and into the Central Plains. Harrisburg, Pa., recorded a record-breaking high of 57°. Temperatures remained below 10° along the northern border of U. S. and in the 30's from Kansas to western Maryland.

Friday morning temperatures fell below the freezing mark across northern half of nation from the Rockies eastward. The upper Mississippi Valley and east across the upper Great Lakes and into northern New England averaged below zero readings. Southern sections of Florida reached 80°, Gulf Coast and southern California reached into the 70's.

By 2:00 p.m. Saturday temperatures ranged from 15° at Thief River Falls, Minn., to 80° at West Palm Beach, Fla. Clear skies dominated the Nation from Arizona to Texas through the Plains and upper Great Lakes area. Temperatures reached 50's and 60's over much of the Plains and Mississippi Valley.

On Sunday mild winter readings dominated most of the Nation. A high pressure zone, in central U. S., influenced mild temperatures -- 60's as far north as Iowa and Nebraska while the 50 degree mark was reached in Illinois and South Dakota.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Unseasonal warmth stimulated growth of winter wheat in much of the southern Great Plains. Dryness has damaged much of the nonirrigated wheat and oat crop in the Texas High and Low Plains. Cotton planting started in Texas and California. Blooming of stone fruit trees increased in California and Texas.

**SMALL GRAINS:** Abnormally warm temperatures brought most winter wheat in the southern Great Plains out of dormancy. Wheat greened throughout the Kansas, Oklahoma, and eastern Colorado area and showed new growth.

Late planted acreage in Kansas is still short on top growth and subject to damage from high winds. There has been some blowing on sandy soils, but no serious damage. Light showers did little to ease topsoil moisture shortages in western Oklahoma and soils in westcentral and southcentral Kansas are drying. Farmers in both States continued to topdress wheat with nitrogen fertilizer. Spring oats and barley seeding in Oklahoma is nearly half complete.

In Texas, wheat and oats continued to decline from the high plains to the Edwards Plateau due to dry soils. Much of the nonirrigated crop acreage is dead or beyond recovery while irrigated acreage is providing some grazing. In southern and eastern Texas, small grains are making satisfactory growth.

Small grains in other areas--northern Great Plains, much of the Corn Belt, the South Atlantic States and West--are in generally good condition. Very little acreage is under the protection of snow cover except in the northern tier of States from North Dakota to New England. Farmers in Washington seeded and re-seeded some acreage of winter wheat last week, but this activity in Oregon is about completed.

**OTHER CROPS:** Scrapping operations for the 1973 cotton crop were in the final stages in Texas and Arizona. Cotton planting started in the Lower Rio Grande Valley of Texas and California.

Corn and sorghum seeding started on a small scale in the southern half of Texas.

Tobacco plantbed work was active in North Carolina with seeding spreading to the Piedmont and some mountain areas. Tobacco bed preparation gained momentum in Virginia.

Digging of overwintered sugar beets began last week in the San Joaquin Valley of California and planting was underway. In Arizona, sugar beets for spring harvest made favorable progress.

Sugarcane harvesting remained active in Florida, but frost damaged some new cane growth. Maple syrup production increased in Virginia.

**FRUITS AND NUTS:** Citrus harvesting for processing in Florida was very active. New growth is abundant on citrus trees, cool weather has delayed full bloom.

In California, fruit and nut growers made good progress with orchard work. Early almond trees are in full bloom and stone fruit trees are heavy with buds or early bloom. The Navel orange harvest remained active, lemon picking increased. Citrus tree blooming is widespread in southern California.

Valencia orange harvesting began in Arizona last week while grapefruit picking was limited. Early citrus blooming increased there and in Texas where the citrus harvest remained active.

Pruning and orchard care made good progress in Washington, Oregon, and in the mid-Atlantic States.

**VEGETABLES:** Frost damage to vegetables in Florida last week was very light to moderate. Cabbage loadings there were about steady at a heavy level while celery and lettuce increased sharply. Tomato shipments were steady but sweet corn and peppers were down substantially.

Harvest was active in the Texas Lower Rio Grande Valley for lettuce, celery, cabbage, turnips, and carrots. Cantaloupe and honeydew melon planting got underway. Onions made good growth with harvest to begin in a few weeks.

In California, carrots moved steadily from the Imperial Valley but lettuce harvesting was moderate.

**PASTURES AND LIVESTOCK:** Pastures in the South Atlantic States are providing above normal amounts of grazing for February, but wetness in the Mid-South continues to restrict pasture utilization. Melted snow and thawing have caused muddy feedlots and fields in much of the Corn Belt. California pastures need more warm days in the north and more moisture in the south.

Cattle remain in good condition with mild weather favorable for weight gains and calving underway in the northern Great Plains.

Temperature and Precipitation Data for the Week Ending Midnight, l.s., Feb. 17, 1974

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 . . .	52	+ 5	1.9	+ .6	La. Baton Rouge . . .	60	+ 6	1.5	+ .3	Youngstown . . .	27	+ 1	T	-.6
Mobile . . .	59	+ 5	.3	-.9	Lake Charles . . .	60	+ 5	1.5	+ .3	OKLA. Okla. City . . .	49	+ 8	.9	+ .5
Montgomery . . .	54	+ 4	.5	-.6	New Orleans . . .	60	+ 4	.4	-.8	Tulsa . . .	47	+ 6	.9	+ .5
ALASKA Anchorage . . .	6	-12	.4	+ .2	Shreveport . . .	56	+ 6	1.5	+ .5	OREG. Astoria . . .	43	- 1	2.3	+ .3
Barrow . . .	-20	- 1	.1	0	MAINE. Caribou . . .	9	- 3	.1	-.5	Burns . . .	36	+ 5	.1	-.2
Fairbanks . . .	-27	-24	.2	+ .1	Portland . . .	23	+ 1	.2	-.9	Medford . . .	40	- 1	.4	-.1
Juneau . . .	34	+ 6	.7	-.1	MD. Baltimore . . .	34	0	.2	-.5	Pendleton . . .	45	+ 6	.5	+ .2
Kodiak . . .	---	---	---	---	MASS. Boston . . .	28	- 2	.2	-.7	Portland . . .	44	+ 1	1.4	+ .4
Nome . . .	-21	-26	T	---	Chatham . . .	30	---	1.4	---	Salem . . .	43	0	1.8	+ .6
ARIZ. Flagstaff . . .	32	+ 1	.2	-.2	MICH. Alpena . . .	15	- 3	.1	-.2	PA. Allentown . . .	31	+ 2	T	-.7
Phoenix . . .	57	+ 2	0	-.1	Detroit . . .	23	- 2	T	-.4	Erie . . .	27	+ 2	T	-.5
Tucson . . .	53	0	T	-.2	Flint . . .	21	- 2	T	-.4	Harrisburg . . .	33	+ 1	T	-.6
Winslow . . .	39	- 0	T	-.1	Grand Rapids . . .	22	- 2	T	-.4	Philadelphia . . .	32	- 1	.2	-.4
Yuma . . .	58	- 1	0	-.1	Houghton Lake . . .	15	- 3	.2	-.1	Pittsburgh . . .	32	+ 3	T	-.6
ARK. Fort Smith . . .	49	+ 6	.4	-.4	Lansing . . .	20	- 4	T	-.4	Scranton . . .	25	- 2	T	-.5
Little Rock . . .	49	+ 6	.6	-.6	Marquette . . .	17	- 2	.3	-.1	R.I. Providence . . .	28	- 1	.5	-.3
CALIF. Bakersfield . . .	50	- 2	1.6	+ .3	Muskegon . . .	21	- 3	T	-.4	S.C. Charleston . . .	52	+ 2	.7	-.1
Eureka . . .	47	- 2	.6	-.3	S. Ste. Marie . . .	10	- 5	.3	-.1	Columbia . . .	50	+ 3	2.0	+1.1
Fresno . . .	47	- 3	.1	-.3	MINN. Duluth . . .	14	+ 2	.1	-.1	Greenville . . .	46	+ 2	.9	-.2
Los Angeles . . .	56	- 2	0	-.7	Internatl Falls . . .	5	- 2	.2	0	S.D. Aberdeen . . .	24	+ 9	T	-.2
Red Bluff . . .	47	- 3	.4	-.4	Minneapolis . . .	21	+ 5	.1	-.1	Huron . . .	31	+13	T	-.2
San Diego . . .	57	0	T	-.4	Rochester . . .	22	+ 5	.1	0	Rapid City . . .	39	+13	T	-.1
San Francisco . . .	48	- 3	.3	-.5	St. Cloud . . .	19	+ 6	.1	-.1	Sioux Falls . . .	32	+13	T	-.3
Stockton . . .	48	- 1	.4	-.1	MISS. Jackson . . .	55	+ 5	3.9	+2.4	TENN. Chattanooga . . .	47	+ 4	2.6	+1.3
COLO. Denver . . .	41	+ 8	.2	+ .1	Meridian . . .	55	+ 5	2.7	+1.5	Knoxville . . .	47	+ 4	1.6	+ .4
Grand Junction . . .	20	-14	T	-.1	MO. Columbia . . .	41	+ 7	T	-.4	Memphis . . .	49	+ 5	2.3	+1.1
Pueblo . . .	42	+ 7	0	-.1	Kansas City . . .	41	+ 8	0	-.3	Nashville . . .	46	+ 5	0	-.9
CONN. Bridgeport . . .	30	0	T	-.6	St. Louis . . .	42	+ 7	0	-.5	TEX. Abilene . . .	57	+ 9	0	-.2
Hartford . . .	28	+ 2	.1	-.8	Springfield . . .	43	+ 5	0	-.6	Amarillo . . .	48	+ 8	.1	0
D.C. Washington . . .	40	+ 3	.1	-.5	MONT. Billings . . .	41	+13	0	-.1	Austin . . .	62	+ 9	T	-.8
FLA. Apalachicola . . .	60	+ 4	.3	-.3	Glasgow . . .	31	+16	0	-.1	Beaumont . . .	59	+ 4	.4	-.7
Daytona Beach . . .	59	0	0	-1.0	Great Falls . . .	40	+13	0	-.1	Brownsville . . .	67	+ 4	T	-.4
Ft. Myers . . .	66	+ 1	.1	-.4	Havre . . .	37	+19	0	-.1	Corpus Christi . . .	65	+ 5	T	-.5
Jacksonville . . .	57	+ 1	.1	-.8	Helena . . .	38	+12	T	-.1	Del Rio . . .	62	+ 6	0	-.3
Key West . . .	69	- 2	.1	-.4	Kalispell . . .	33	+ 8	.2	0	El Paso . . .	47	- 1	0	-.1
Lakeland . . .	62	0	.1	-.5	Miles City . . .	38	+16	T	-.1	Fort Worth . . .	57	+ 3	T	-.6
Miami . . .	66	- 2	0	-.5	Missoula . . .	32	+ 5	T	-.2	Galveston . . .	63	+ 7	.7	0
Orlando . . .	59	- 2	.1	-.7	NEBR. Grand Island . . .	39	+11	T	-.2	Houston . . .	61	+ 6	.2	-.7
Tallahassee . . .	56	+ 1	1.7	+ .5	Lincoln . . .	37	+ 9	T	-.2	Lubbock . . .	52	+ 9	T	-.1
Tampa . . .	60	- 2	.4	-.3	Norfolk . . .	36	+12	T	-.2	Midland . . .	54	+ 6	0	-.1
W. Palm Beach . . .	64	- 2	0	-.6	N. Platte . . .	38	+10	T	-.1	San Angelo . . .	58	+ 8	0	-.2
GA. Atlanta . . .	48	+ 3	2.9	+1.8	Omaha . . .	36	+11	T	-.2	San Antonio . . .	61	+ 7	T	-.6
Augusta . . .	50	+ 2	2.8	+1.9	Valentine . . .	37	+13	T	-.1	Victoria . . .	64	+ 7	T	-.6
Macon . . .	52	+ 2	1.5	+ .4	NEV. Ely . . .	31	+ 3	.2	+ .1	Waco . . .	57	+ 6	T	-.6
Savannah . . .	55	+ 3	1.1	+ .4	Las Vegas . . .	51	+ 2	0	-.1	Wichita Falls . . .	54	+ 8	0	-.3
HAWAII. Hilo . . .	72	+ 1	.5	-2.8	Reno . . .	36	- 1	T	-.2	UTAH. Blanding . . .	29	- 4	T	-.2
Honolulu . . .	74	+ 2	T	-.6	Winemucca . . .	37	+ 3	T	-.2	Salt Lake City . . .	34	+ 1	.3	0
Kahului . . .	---	---	---	---	N.H. Concord . . .	20	- 2	T	-.6	VT. Burlington . . .	17	- 1	T	-.4
Lihue . . .	75	+ 4	T	-1.1	N.J. Atlantic City . . .	35	+ 2	.3	-.5	VA. Lynchburg . . .	41	+ 3	.5	-.2
IDAHO. Boise . . .	40	+ 4	.1	-.2	Trenton . . .	34	+ 1	.1	-.6	Norfolk . . .	45	+ 4	1.3	+ .5
Lewiston . . .	43	+ 5	.6	+ .4	N.MEX. Albuquerque . . .	42	+ 2	T	-.1	Richmond . . .	40	+ 1	.5	-.3
Pocatello . . .	33	+ 3	T	-.2	Roswell . . .	49	+ 6	0	-.1	Roanoke . . .	41	+ 3	.6	-.2
ILL. Cairo . . .	44	+ 5	0	-.9	N.Y. Albany . . .	22	- 2	T	-.5	WASH. Colville . . .	36	+ 5	.7	+ .3
Chicago . . .	30	+ 3	T	-.4	Binghamton . . .	23	+ 1	.1	-.5	Omak . . .	35	+ 5	.3	0
Moline . . .	32	+ 7	T	-.3	Buffalo . . .	23	- 1	.2	-.4	Quillayute . . .	42	0	6.7	+3.7
Peoria . . .	34	+ 7	T	-.4	New York . . .	33	0	T	-.8	Seattle-Tacoma . . .	45	+ 2	.8	-.3
Rockford . . .	28	+ 4	T	-.3	Rochester . . .	25	+ 1	.2	-.4	Spokane . . .	35	+ 3	.7	+ .3
Springfield . . .	38	+ 8	0	-.4	Syracuse . . .	24	0	.1	-.6	Walla Walla . . .	45	+ 5	.4	0
IND. Evansville . . .	43	+ 7	0	-.8	N.C. Asheville . . .	43	+ 4	1.0	+ .1	Yakima . . .	40	+ 4	.1	-.1
Ft. Wayne . . .	28	+ 1	T	-.5	Charlotte . . .	44	0	1.1	+ .1	W.Va. Beckley . . .	37	+ 5	.1	-.7
Indianapolis . . .	35	+ 5	T	-.6	Greensboro . . .	42	+ 2	.8	0	Charleston . . .	41	+ 5	.3	-.5
South Bend . . .	30	+ 4	T	-.5	Hatteras . . .	49	+ 3	1.6	+ .5	Huntington . . .	41	+ 5	.1	-.6
IOWA. Burlington . . .	35	+ 8	T	-.3	Raleigh . . .	42	0	.8	0	Parkersburg . . .	39	+ 5	.1	-.6
Des Moines . . .	35	+11	T	-.3	Wilmington . . .	49	+ 1	1.5	+ .7	WIS. Green Bay . . .	17	- 1	.1	-.2
Dubuque . . .	24	+ 2	T	-.3	N.DAK. Bismarck . . .	21	+ 8	.1	0	La Crosse . . .	22	+ 2	T	-.2
Sioux City . . .	36	+13	T	-.2	Fargo . . .	16	+ 6	T	-.1	Madison . . .	20	0	T	-.2
KANS. Concordia . . .	43	+12	0	-.2	Williston . . .	26	+12	.1	0	Milwaukee . . .	26	+ 4	.1	-.2
Dodge City . . .	46	+11	0	-.1	OHIO. Akron-Canton . . .	28	+ 1	T	-.5	WYO. Casper . . .	33	+ 6	T	-.1
Goodland . . .	41	+ 9	0	-.1	Cincinnati . . .	37	+ 4	T	-.8	Cheyenne . . .	37	+ 8	T	-.1
Topeka . . .	41	+ 8	0	-.2	Cleveland . . .	29	+ 2	T	-.5	Lander . . .	30	+ 4	.4	+ .3
Wichita . . .	43	+ 7	0	-.2	Columbus . . .	33	+ 3	0	-.6	Sheridan . . .	39	+13	0	-.2
KY. Lexington . . .	40	+ 5	0	-.8	Dayton . . .	31	+ 1	T	0	P.R. San Juan . . .	77	+ 2	.3	-.4
Louisville . . .	42	+ 7	T	-.8	Toledo . . .	24	- 3	T	-.4					

Based on 1941-70 normals.

## CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

**ALABAMA:** Open weather and subnormal temperatures early week, followed by warmer temperatures and general rains, Thursday through early Saturday. Drier air over State Saturday brought clearing and cooler weather Sunday and Monday.

Farmers made fair progress preparing land for spring planting early week. Rains limited fieldwork over State late week. Other main activities: Soil testing and application of fertilizer and lime. Small grains continued to make satisfactory development. Nitrogen applied to acreage for grain as weather permitted. Cattle grazed driest fields early week. Livestock remain fair to good. Clover and fescue pastures providing limited grazing few localities south and central.

**ARIZONA:** Temperatures averaged within a couple degrees of normal. Highs near 80° Monday lower deserts. Gusty winds, low humidity preceded cooling Tuesday, again Sunday. Very light precipitation southeast Tuesday; light showers, snow north Wednesday--4 to 5 in. snow Canyon De Chelly. Showers, snow across north late Saturday, Sunday--amounts mostly less than 1 in. and mostly above 5,000 ft.

Limited planting small grains continued, some replant activity. Early planted grains reached tillering stage. Safflower continued good growth, some planting remaining. Cotton crop in last stages clean-up. Many fields have seedbeds prepared, ground treatments applied, preplant irrigation started for 1974 crop. Spring harvest sugar beet crop continued favorable progress. Most alfalfa fields winter pasture, haying minimal.

Lettuce harvest continued Yuma area; supplies, quality good. Lettuce for later harvest good progress central, southcentral, southeast. Earlier planted fields good stands. Mixed vegetable harvest continued active central, west. Planting for later harvest underway. Lemon harvest Yuma, Salt River Valley areas virtually complete. Grapefruit harvest continued limited basis. Harvest Valencia oranges began past week. Early bloom increased, groves good condition.

Range conditions statewide poor to fair. Southeast dry, little feed remaining. Stockwater adequate Maricopa, Pinal Counties, short elsewhere. Soil moisture short statewide. Feed supply below average desert, mountain ranges. Cattle, calves poor to good. Sheep, lambs fair.

**ARKANSAS:** Abnormally warm week. Temperatures 5° to 11° above normal. Warm early week, cool midweek, warming trend end of week. Extremes: 79° at Texarkana on 13th and 22° at Gilbert on 17th. Rain period midweek with amounts generally less than 0.75 in., but 4 stations north and east got 1.50 in. Greatest was 1.72 in. at Black Rock.

Farmers were able to prepare lighter, better drained soils during first part of week. Rains later prevented field activity. Livestock producers most areas fed hay to their cattle. Pasture growth southern areas produced only a little grazing. Most farmers also busy with record keeping and ordering supplies.

**CALIFORNIA:** Precipitation from two weather fronts, one about midweek and second at weekend produced rainfall ranging from 0.25 to 1.00 in.

over most of north. Remainder of State generally dry except near 0.50 in. over southern Sierra Nevada. Temperatures averaged slightly subnormal. All areas statewide reported some morning lows freezing or lower.

Favorable weather helped speed fieldwork. Fall planted small grains showed continued growth. Late small grain plantings and seedbed preparations continued. Sugarbeet planting underway. Digging overwintered beets began San Joaquin Valley. Cotton planting preparations underway. Alfalfa fields planted. First cuttings in south. Fruit and nut growers made good progress spraying, pruning, cultivating, fertilizing during week. Desert table grapes pushing buds. Early almonds full bloom. Other stone fruits heavy with bud or in early bloom. Navel orange harvest continued active San Joaquin Valley and south. Tangerine harvest continued slow. Lemon picking increased. Desert grapefruit harvest on schedule Winterhaven area. Southern avocado harvest continued full swing. Considerable bloom on southern citrus and avocados.

Artichokes light. Asparagus increased desert, steady south coast. Broccoli steady central coast. Cabbage continued desert. Carrots steady Imperial Valley. Cauliflower steady. Celery slow. Lettuce moderate Imperial Valley. Strawberries light, good quality, lower prices. Canning tomatoes planting continued.

Range, pasture feed in abundant supply but most areas need warm weather to strengthen grasses. Stockwater, soil moisture supplies adequate. Muddy conditions continued to plague producers in north. Southern ranges will need additional moisture soon. Livestock good. Calving, lambing continued, near completion central, south. Young stock healthy few losses to predators. Sheep, lambs being moved from alfalfa pasture to native pastures. Movement of cattle to market generally light. Milk, egg production generally stronger as weather conditions improve.

**COLORADO:** Generally fair, dry weather prevailed until late week. Light to moderate snow much of State from late week storm. Precipitation totals mostly 0.05 to 0.25 in. Denver had 5 in. snow and up to 9 in. fell along mountains in north-east. Temperatures averaged 5° to 6° above normal east and about 7° subnormal in mountains and west. Highs in mid-60's locally southeast on 11th.

Warm, dry weather eastern plains allowed small grains to green. Some field preparation for spring wheat, barley, and oats. Light to moderate snow Sunday night will slow field activity. West slope remains cold with snow cover. Livestock generally good.

**FLORIDA:** Temperatures averaged a few degrees below normal. Rainfall mostly light to locally moderate.

Land preparation for spring planting active. Soil moisture adequate except central. Sugarcane harvest active, new cane growth damaged by frost and below freezing temperatures. Small grains good. Pastures poor to good. Cattle and calves fair to good. Citrus tree condition excellent, new growth abundant, additional moisture needed, cool temperatures holding back full bloom. Citrus

harvest for processing very active. Vegetable crop damage from frost very light to moderate.

Cabbage loadings about steady at a heavy volume. Celery, lettuce increased sharply. Escarole shipments up some. Tomatoes steady. Sweet corn, peppers down substantially. Carrots, Chinese cabbage, eggplant, radishes in seasonal supply. Strawberries declined. Potatoes loadings increasing gradually.

GEORGIA: Dry until rain late in week with 0.50 to 1.50 in. north and central and about 0.20 in. south except little or none south border. Temperatures averaged 1° to 4° subnormal. Freezing temperatures entire State morning of 10th. Rain statewide early in weekend with 0.50 to 1.00 in. followed by clearing and cold.

Soil moisture excessive. Small grains mostly good with continued concern about excessive small grain growth. Nitrogen, lime and fuel in short supply in some areas. Pastures mostly good. Cattle good condition with reports of grass tetany some areas.

HAWAII: Weather generally favorable except island of Hawaii. Progress of crops fair to good. Harvest prospects most crops improved. Supplies of bananas and papayas decreasing. Pastures and cattle in good condition. Sugar operation slack. Active harvesting pineapple for fresh fruit market.

IDAHO: High pressure weakened midweek to allow several weak Pacific fronts to move in bringing cloudy skies and widely scattered showers, some light snow north and mountains. Temperatures averaged above normal. Precipitation light north and southwest, none southcentral and east.

Main activities: Caring for livestock; attending sales and farm meetings; and marketing of livestock, potatoes, hay, and grain crops. Livestock generally good condition despite wet, sloppy feeding areas. Calving and lambing continued with high percentage saved. Feed supplies adequate for present needs. Active movement of potatoes from farm storages.

ILLINOIS: Mild, relatively dry week. Temperatures 6° above normal. Highs 30's and 40's north, 50's and 60's south. Lows ranged from 20's north to 30's and 40's south. Trace amounts precipitation midweek.

Winter wheat, other small grains, legumes good condition. Topdressing nitrogen on winter wheat. Current fertilizer supplies adequate, future supplies remain uncertain. Livestock good to excellent. Recent mild temperatures improved livestock gains and benefitted young livestock. Muddy feedlots problem many areas. Soil moisture adequate 83%, surplus 17%. Main activities: Machinery repair, grain marketing, livestock care, fertilizer application, planning for spring crops.

INDIANA: Warm, sunny, dry week. Temperatures averaged 5° above normal and ranged from 13° at Ft. Wayne on 15th to 65° in southeast on 13th. Precipitation slight.

Soils frozen in top layers in extreme north. Some early season fieldwork accomplished last week, including plowing and chopping stalks. Other activities were routine chores and caring for livestock. Transportation strike slowed movement of farm commodities. Wheat good condition most of State.

IOWA: Sunny, mild weather early week gave way to clouds and colder temperatures midweek, followed

by a sunny, warm weekend. Temperatures averaged 6° to 12° above normal. Extremes: 66° at Council Bluffs on 17th, 8° at Dubuque on 15th. Precipitation subnormal, ranging from less than 0.10 in. northeast corner to only a trace elsewhere.

KANSAS: Generally dry week. Temperatures averaged 8° to 12° above normal. Precipitation amounts limited to 0.10 in. or less, occurring morning of 18th.

Winter wheat greened and showed growth. Late planted wheat still short. Some blowing on sandy soils but no serious damage. Nitrogen topdressing applied to wheat and cool season grasses. Fertilizer in short supply. Insect damage minimum. Preparation underway for spring planted crops. Early irrigation underway. Westcentral and southcentral topsoil drying. Livestock grazed stalk fields and early planted wheat. Calving, lambing and farrowing continued. Death loss normal.

KENTUCKY: Cold Monday, unseasonably mild Tuesday and Wednesday, cool Thursday through Sunday. Temperatures averaged 5° to 10° above normal. Light showers east 13th and 16th totaled less than 0.25 in. Dry all week central and west.

Minimal field activity, but machinery preparation and securing seed and fertilizer active. Fertilizer in tight supply and high priced. Winter wheat mostly green, but little growth. Livestock satisfactory condition. Early spring calving beginning.

LOUISIANA: Temperatures averaged 3° to 7° above normal with a warming trend followed by a cooler weekend. Extremes: 78° at several stations on 13th or 14th and 32° at Shreveport on 17th. Precipitation confined to mostly moderate to heavy showers which accompanied cooler air 14th or 15th. Totals ranged from less than 0.50 in. south to more than 3.00 in. northeast. Greatest 24-hour total 2.03 in. at Monroe Friday morning.

Wet soils continued to delay fieldwork. Livestock generally good. Feed supplies adequate.

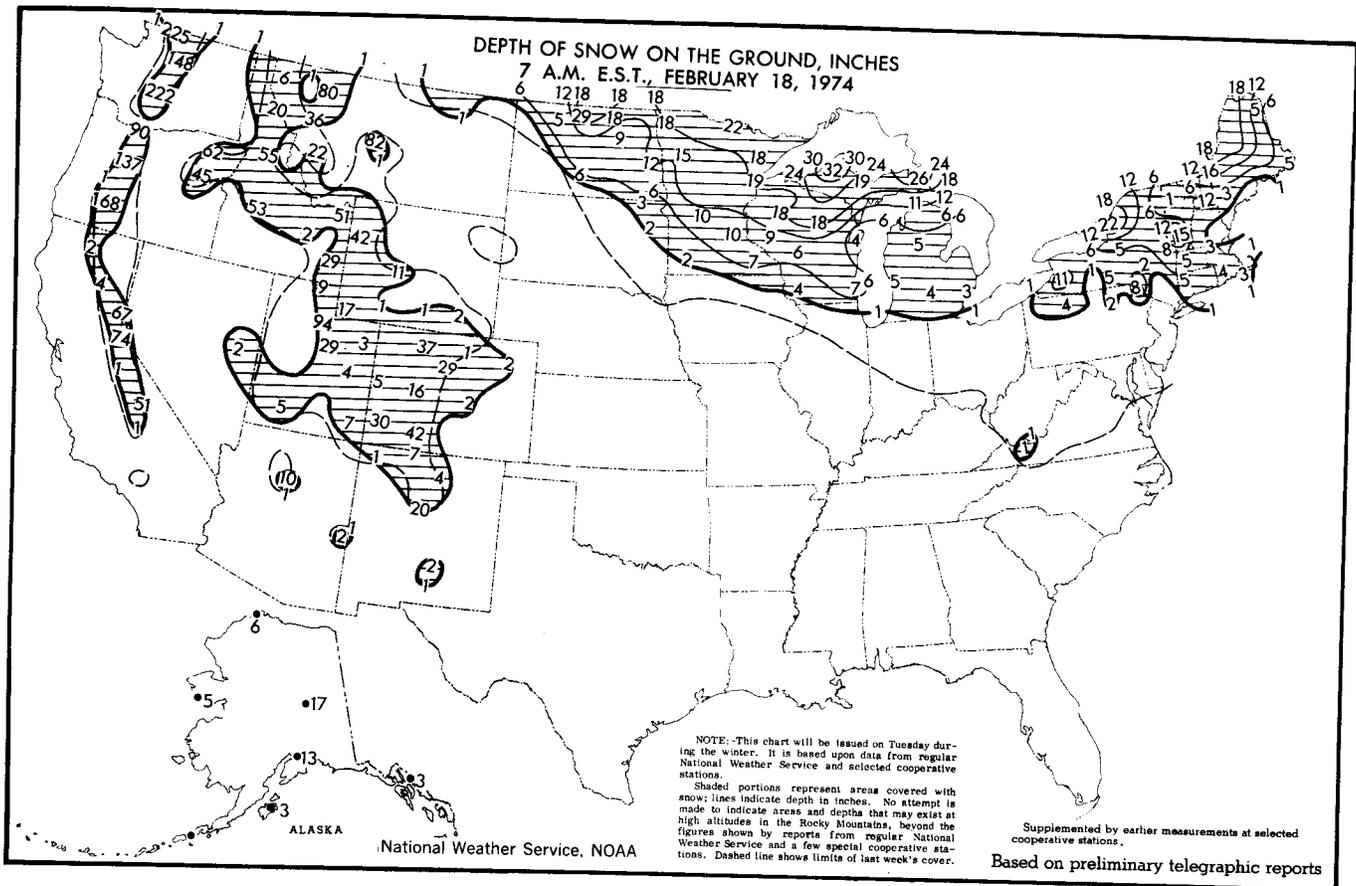
MARYLAND AND DELAWARE: Cold, temperatures varied from near normal to 5° subnormal. Highs from low 50's to mid-60's. Lows from zero to 10° west of Chesapeake Bay, 10° to 20° east of Bay. Precipitation light and scattered, less than 0.50 in. except more in southern Maryland.

Winter grains good, winter kill very light. Ground too wet for pasturing. Nitrogen topdressing starting on well drained soils. Seeding tobacco beds starting sandy areas, otherwise too wet. Tree pruning and orchard care good progress, little winter damage to date. Livestock roughage, feed supplies adequate.

MICHIGAN: Cold high pressure dominated weather picture over State 12th through 15th. Precipitation generally totaled 0.20 to 0.50 in. over upper and extreme north lower peninsula and 0.10 in. or less remainder lower peninsula where most precipitation fell 11th and 16th.

Temperatures averaged near normal to 4° subnormal over lower and 3° to 5° subnormal over upper peninsula. Below zero readings reported over upper peninsula Sunday morning, over upper and north lower Wednesday and Thursday morning and much of south lower Thursday morning. Highs in lower 40's much of lower peninsula Monday.

MINNESOTA: Temperatures averaged normal to 2° below northern tier of counties and all of Arrowhead; elsewhere temperatures 2° to 8° above normal as afternoon highs mostly in 30's and 40's



and overnight lows  $10^{\circ}$  to  $20^{\circ}$  except for some subzero readings on 14th and 15th. Precipitation subnormal totaling 0.08 to 0.22 in. New snowfall 1 to 4 in. Snow depths: Patches to 4 in. southwest, 6 to 12 in. central 10 to 24 in. north.

Farm activities routine, but farmers becoming more concerned about fertilizers and other supplies needed for other spring preparation.

**MISSISSIPPI:** Cold and dry until warming trend began on 13th. Temperatures a few degrees subnormal. Extremes:  $78^{\circ}$  week,  $17^{\circ}$  on 9th and 10th. Greatest 24-hour rainfall reported 4.04 in. Rain ended Saturday morning. Mild days, cool nights over weekend.

Soil moisture adequate to surplus. Major farm activities: Feeding livestock shredding stalks and preparing land. Fieldwork averaged 2.0 days suitable. Hay and roughage supplies mostly adequate. Feed grain supplies mostly short. Wheat, oats, pastures mostly fair. Livestock fair to good.

**MISSOURI:** Temperatures about  $3^{\circ}$  to  $7^{\circ}$  above normal, except  $1^{\circ}$  above in Bootheel. Rainfall very light except for spotty amounts of 0.25 to 0.50 in. extreme south.

**MONTANA:** Temperatures above normal all divisions through week. Weak Pacific storms brought some precipitation to west. However, all areas east of Divide remained generally dry. Frequent windy periods along east slopes and into central.

Warm weather extending hay supplies. Livestock mostly good, shrinkage about normal except some

less southeast and southcentral. Calving 7%, lambing 8% done. Shearing nearly 9% complete. Grazing mostly open except in northwest. Winter wheat fair to good, snow protection mostly poor statewide.

**NEBRASKA:** Unseasonably warm week. Temperatures  $10^{\circ}$  to  $15^{\circ}$  above normal. Precipitation very sparse; only a few stations reported traces, most reported none.

Livestock good although muddy lots and fields are a problem caused by melting snow and thawing of ground.

**NEVADA:** High temperatures averaged  $2^{\circ}$  above normal, lows  $3^{\circ}$  below normal. Extremes varied from  $70^{\circ}$  Las Vegas to  $12^{\circ}$  Lovelock. Precipitation again sparse, Ely only station with snow on ground.

Major farm activities feeding and caring livestock. Some fieldwork underway southern valleys. Early calving and lambing progressing well.

**NEW ENGLAND:** Week began with near normal temperatures. Light snow or snow flurries occurred on Monday and Tuesday. A prolonged southwesterly flow brought warm air across area by Thursday with highs in 40's, and few readings of  $50^{\circ}$ . Only north Maine in 30's. Warm spell short-lived. Outbreak of cold air arrived late Thursday. Temperatures about  $10^{\circ}$  below normal on Friday. The only big storm occurred on Sunday passing southeast of area, bringing snow and rain to southeast portion. Mostly 1 to 4 in., no significant amounts north.

**NEW JERSEY:** Dry week. Precipitation averaged 0.30 in. coastal sections and less than 0.20 in. elsewhere. Temperatures averaged 2° subnormal north and near normal coastal and southern sections. Extremes: 62° on 13th at Lakehurst and 9° on 16th at Newton.

**NEW MEXICO:** Continued dry south third. Showers and light snows north two-thirds midweek. Precipitation less than 0.33 in. Temperatures averaged 5° to 9° warmer than normal eastern plains and near normal elsewhere except continued cold north-west plateau. Day-to-day changes relatively slight. Moderate weather. Soil moisture short, very short some areas. Ranges fair, poor some areas. Livestock fair to good. Wheat, barley fair to good. Some aphids persist in wheat, barley, and alfalfa. Field preparation continued.

**NEW YORK:** Temperatures averaged nearly normal but varied widely. Below zero readings on 12th, 14th, 15th, and 16th while 22° below zero at Saranac Lake was lowest. Mild weather on 13th in 40's and 50's. Precipitation generally light and averaged well under 0.50 in. most sections. Snow cover continued subnormal and most major cities had less than 4 in. at week's end.

**NORTH CAROLINA:** Snow flurries in mountains early week. Fair and cold elsewhere, followed by fair and warmer Tuesday and Wednesday, ending mostly cloudy and colder Thursday and Friday. Rain over State Thursday.

Fieldwork averaged about 2.3 days. Tobacco plant bed work active, seeding spreading to Piedmont and some mountain areas. Topdressed small grains and pastures. Prepared land for spring potato planting coastal counties. Cabbage setting Pamlico County. Small grains 80% good to excellent 20% fair. Growth caused by warm January temperatures subject to freeze damage. Hay and grain supplies adequate. Pastures supplying more than normal amount feed.

**NORTH DAKOTA:** Temperatures well above normal. Highs of 51° at Watford City and 50° at Dickinson and Ft. Yates to lows of 19° below zero Grand Forks and 18° below at Bisbee and Riverdale. Scattered precipitation over most of State. Minot had greatest amount of 0.23 in. Southwest received very little, Dickinson got only 0.01 in. Most precipitation fell as snow. Snow depths ranged from 30 in. at Bisbee to 5 to 10 in. elsewhere with very little or no snow southwest.

Weather cold but generally favorable for farm activity. Some early calving getting started. Hay continued to be moved to areas of short supply. Farmers busy with chores and securing fertilizer and seed supplies for spring planting.

**OHIO:** Temperatures above normal, precipitation below normal. Snow flurries north and 2 in. snow northeast on 11th. Sunny and warmer midweek, temperatures 60's south to 50's north. Lows 10° north to 20's south. Cloudy, warmer and light precipitation end of week.

Warm days, cool nights enabled some maple syrup camps to open past week. Farmwork limited to chores and farm auctions.

**OKLAHOMA:** Temperatures averaged 1° to 6° above normal. Precipitation averaged from trace panhandle to 0.36 in. westcentral. Weekend mild with scattered rains, mostly light amounts.

Warm temperatures brought most wheat out of dormancy and new growth was reported. Light showers late week did little to ease topsoil mois-

ture shortage in western areas. Spring oats and barley mostly fair with seeding both crops near half complete. Earlier plantings emerging. Farmers continued to topdress small grains, make early seedbed preparations for row crops, and care for livestock. In warmer areas of State, gardens plowed and early vegetables planted. Cured grass on pastures and ranges mostly short. Supplemental feeding of cattle general and keeping cattle in good condition.

**OREGON:** Temperatures averaged near normal west, but 3° to 7° above normal east of Cascades. Highs near 50° to mid-60's statewide. Brookings, North Bend warmest with 65°. Lows mostly in teens, lower 20's east of Cascades; upper 20's to upper 30's west. Early week dry, precipitation falling during remainder of week. Coastal sections reported 0.80 to 2.00 in. East areas got less than 0.03 in.

Planting winter wheat near end. Spring plowing, seeding, spraying, fertilizing in areas dry enough to support equipment. Orchard pruning continued. Onion deal completed. Potatoes continued movement from storage. Some activity in seed potato market. Livestock continued good most areas. Feed adequate, some low quality being fed. Rate of feeding moderate. Some farmers considering plowing up alfalfa and planting wheat.

**PENNSYLVANIA:** Rather mild, dry week. Temperatures 10° above previous week, averaged 2° to 4° above normal west and south, near normal central and 2° to 4° subnormal north. Mildest Wednesday when temperatures reached 50's and low 60's. Highs rest of week mainly 30's and 40's. Lows mainly teens and 20's north, 20's and 30's south. Extremes: 65° and 3°.

Precipitation very light, snow north, rain and snow south. Most areas received less than 0.10 in. total. Few thunderstorms Wednesday evening with cold frontal passage. Snowfall 6 to 9 in. Monday morning confined to northeast.

**PUERTO RICO:** Rainfall well distributed islandwide with some south coastal eastern and western-interior sections receiving over 1.00 in. Rainfall averaged 0.53 in. or 0.18 in. below normal. Highest weekly and daily totals 3.54 and 2.76 in. both at Corral Viejo near Ponce. Temperatures averaged 75° on coasts and 70° interior. Extremes: 90° San Sebastian, 53° Cerro Maravilla. Weather favorable sugarcane harvest most sections. Coffee field operations performed under favorable weather. Abundant flowering some western areas. Tobacco zones weather favored cultivation harvest and curing operations. Pastures need more rain for good development. Good weather benefited planting and fertilizing operations most zones and soil preparation and planting of food crops. Good abundance of citrus, bananas, and plantains on market.

**SOUTH CAROLINA:** Weather near normal, although coldest week this year. Rainfall less than 0.50 in upstate, 1.00 in. or more east. Cold weather front on 11th preceded and accompanied by scattered shower activities. High pressure area stayed until late week when another front approached. Farmers pruned peach trees and maintained tobacco beds as weather permitted. Some vegetables planted.

**SOUTH DAKOTA:** Very pleasant week. Temperatures averaged 9° to 18° above normal. Several areas west and southwest had highs in 60's. Extremes: 63° at Pickstown on 17th, 3° below zero at Leola

(Continued on Page 18)

#### WORLD AGRICULTURAL WEATHER WATCH

The occurrence of several detrimental weather events in various parts of the world during the past several crop seasons has made everyone aware of the importance of weather to food production. Weather events thousands of miles away can influence the availability and cost of food products at the local supermarket. From both the humanitarian and economic point-of-view, there is a definite need to have a means to evaluate potential crop production around the globe. One obvious means to do this is to have available weather information in the crop production areas. For this reason, the World Agricultural Weather Watch was established within the National Weather Service, NOAA. The purpose of the effort was to collect and publish weather information which was already available on the World Weather Wires in a form which would be useful to agriculture. The first results of this effort are published on the following pages.

In the first phase of the World Agricultural Weather Watch, we will publish monthly summaries of temperature and precipitation in map form. The maps on the following pages show the average temperature and total precipitation for the month of January. Additional maps will be prepared in the future to include the departures of normal for both parameters. Once sufficient information has been collected, antecedent moisture will also be mapped as the cumulative deficit or excess for the six previous months.

The data used to prepare these maps are routinely prepared by the individual countries and sent out on the World Weather Wires, as cooperatively agreed to under the auspices of the World Meteorological Organization. By international convention, all information is sent in metric units, and we have used the metric units in our map. For those unfamiliar with these, the following conversion formulas are useful. To convert from °C (Celsius) to °F (Fahrenheit), use the following:

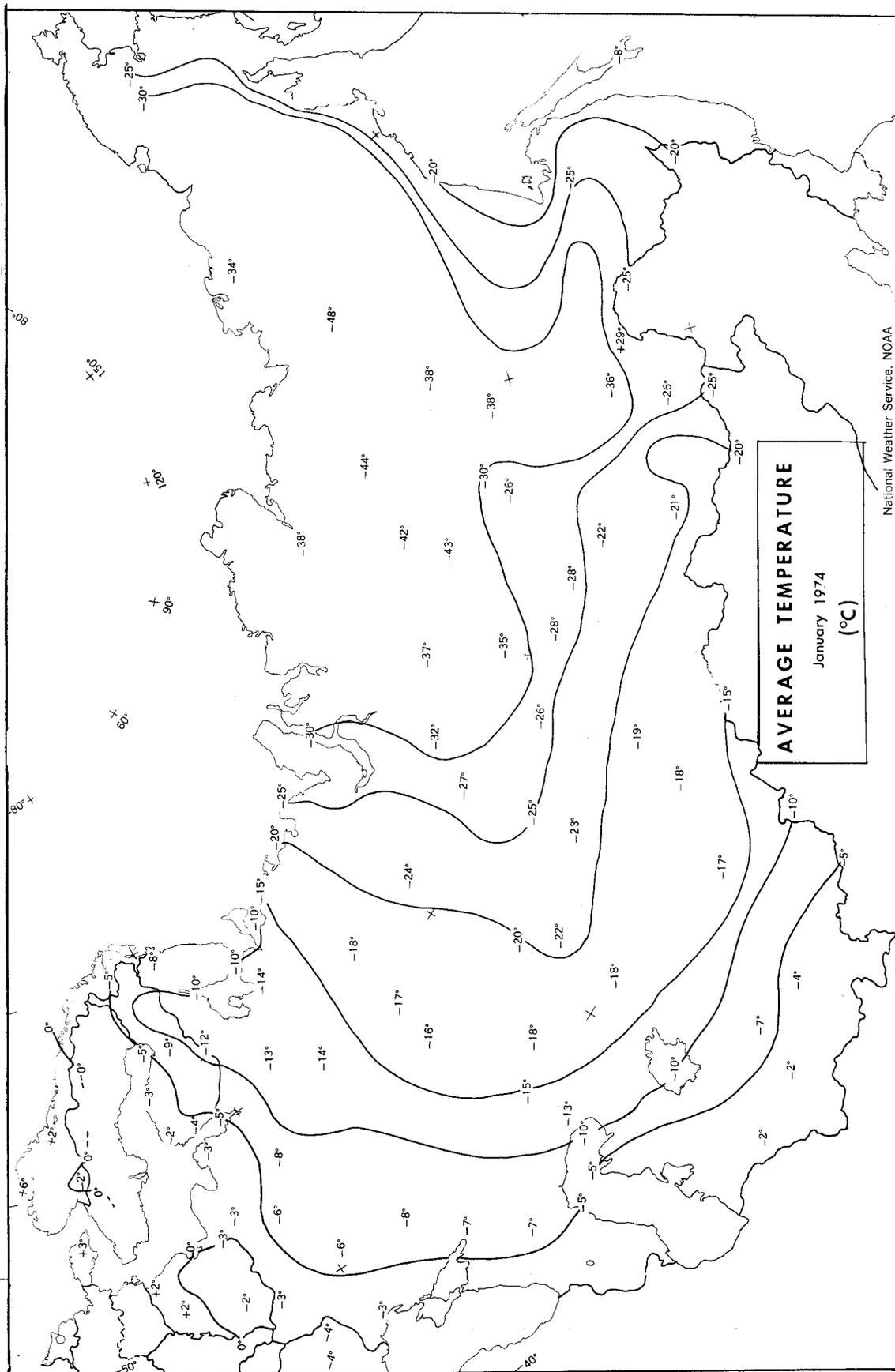
$$^{\circ}\text{F} = 9/5(^{\circ}\text{C}) + 32^{\circ}$$

32°F is the equivalent of 0°C.

To convert precipitation, 25.4 mm. is equal to 1 inch of rainfall.

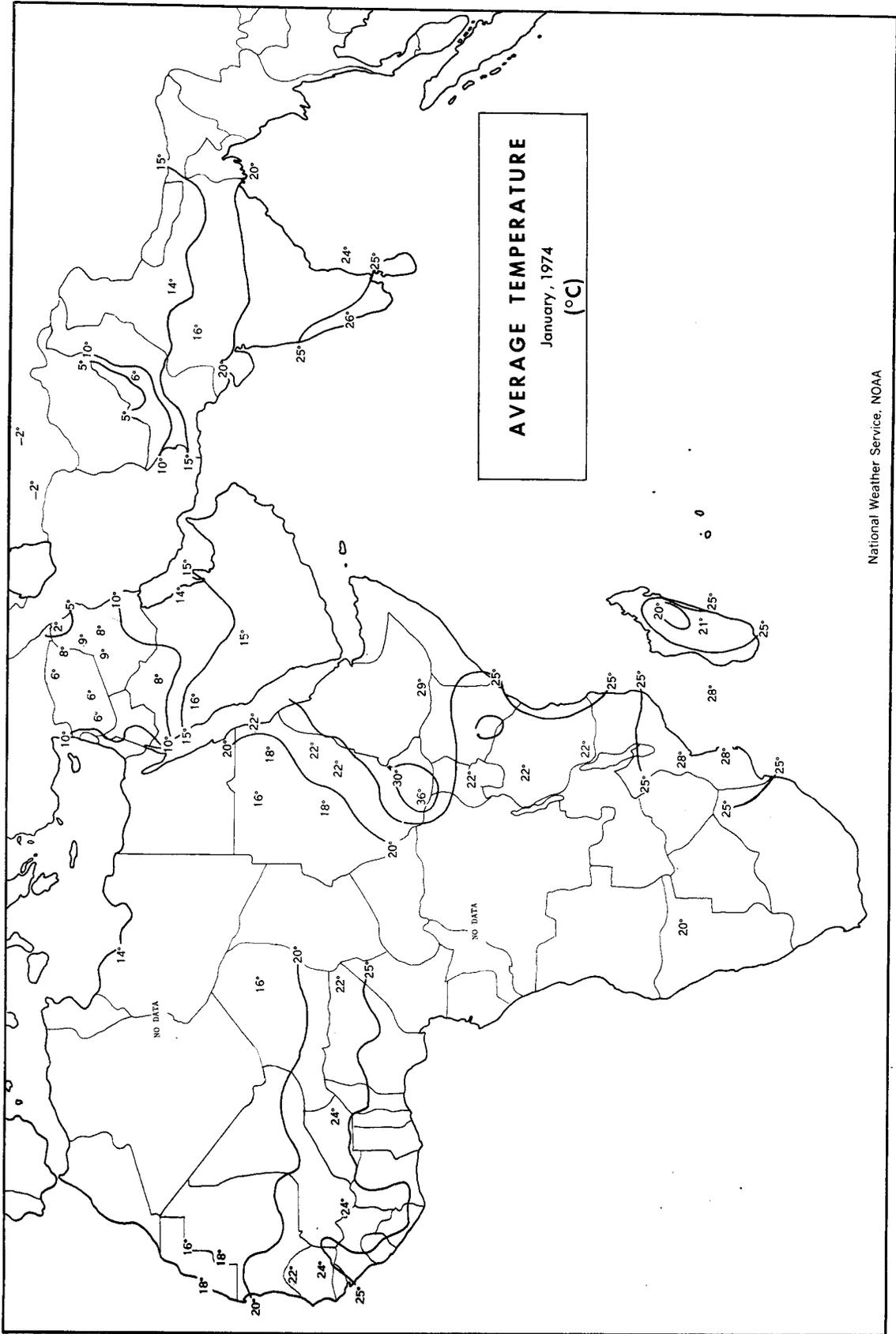
Your comments and suggestion regarding this effort will be greatly appreciated.





**AVERAGE TEMPERATURE**  
January 1974  
(°C)

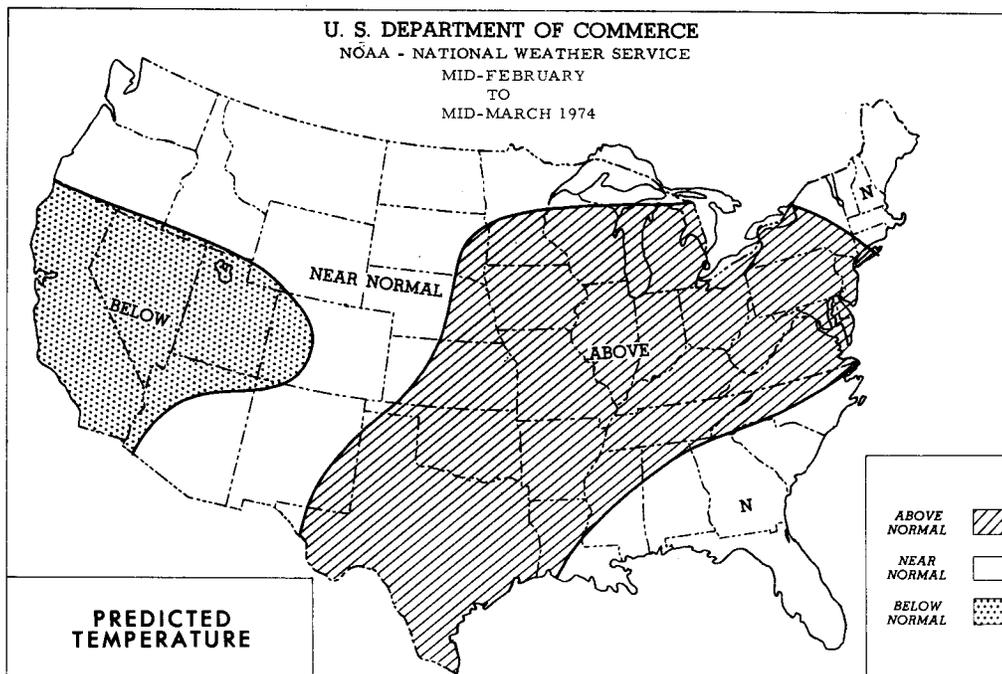
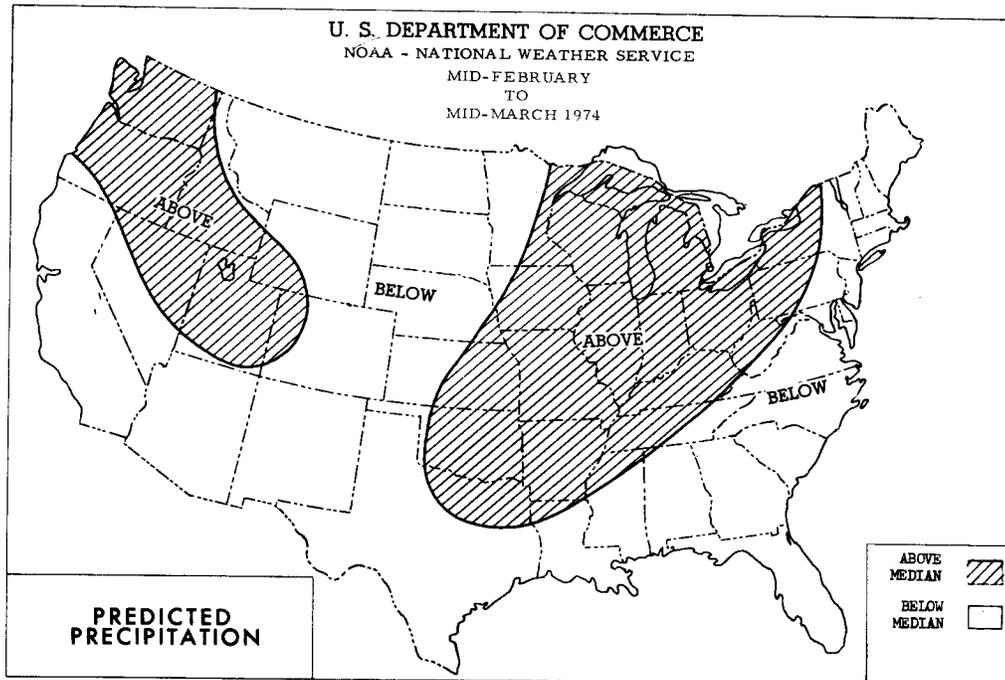
National Weather Service, NOAA



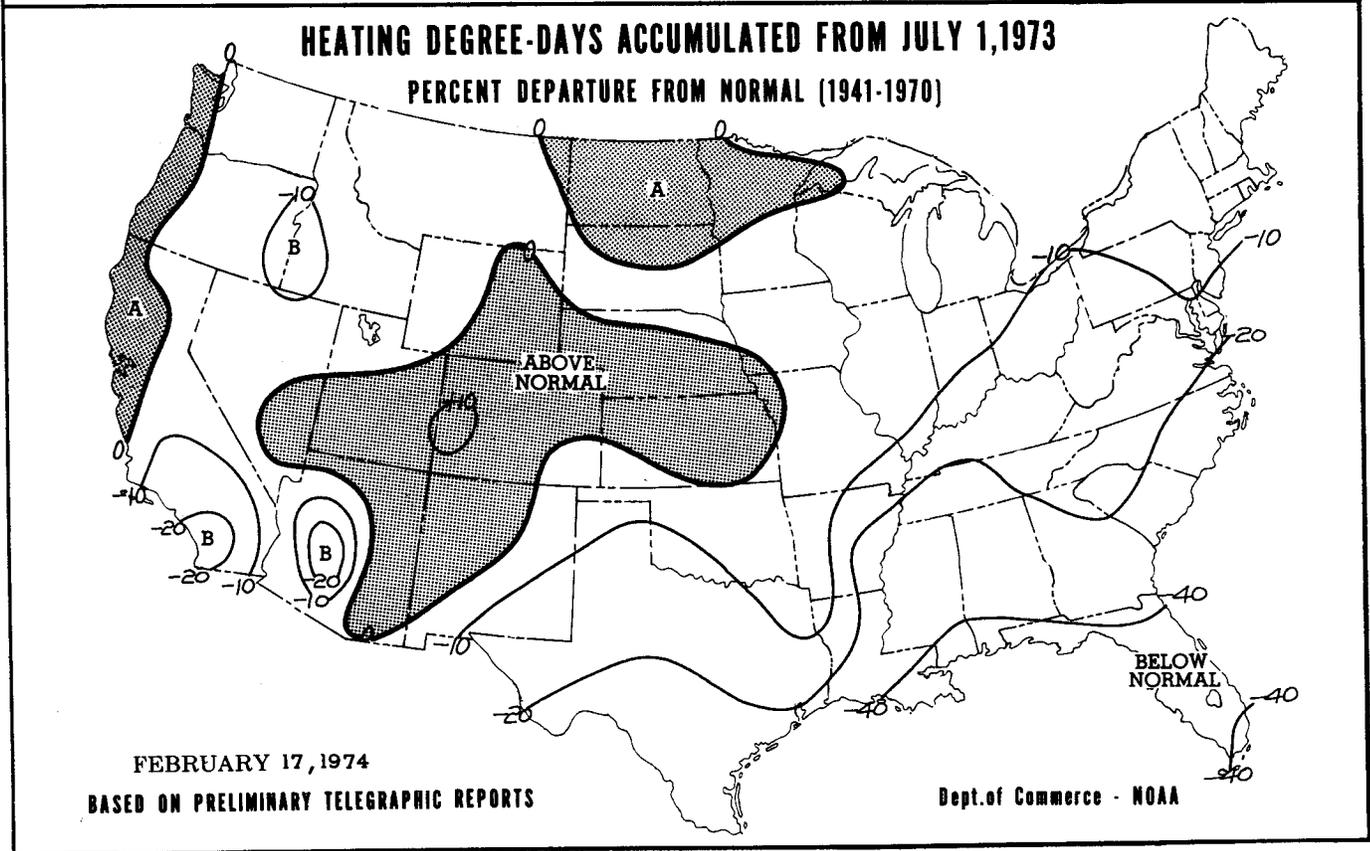
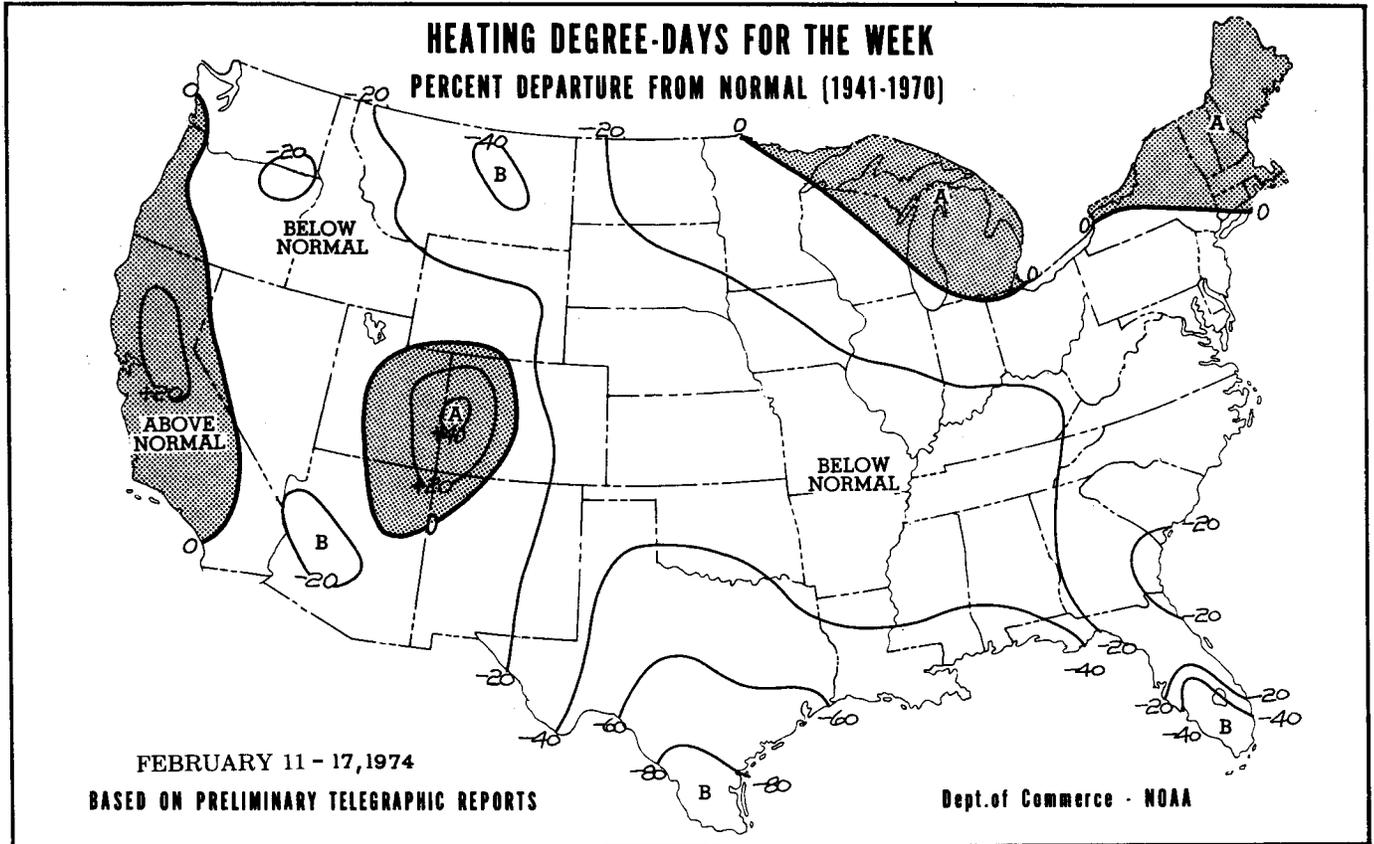




### AVERAGE MONTHLY WEATHER OUTLOOK



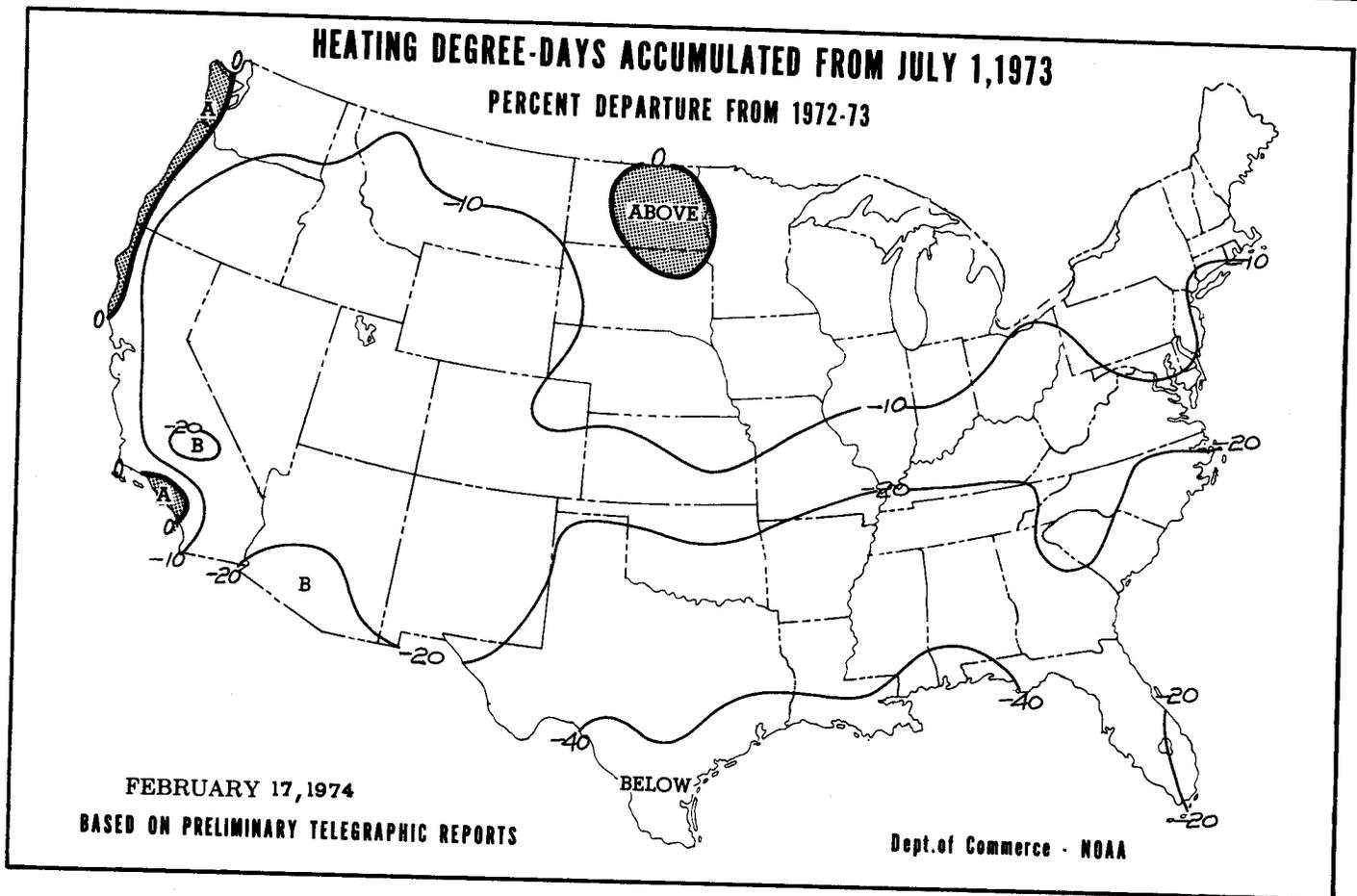
These prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They are taken from the Weather Service's publication Average Monthly Weather Outlook which contains additional information necessary for complete interpretation.



Heating Degree Days (Base 65°) For Week Ending Feb. 17, 1974

States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation			States and Stations	Weekly		Seasonal † Accumulation		
	TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73
ALA. Birmingham	91	-39	1619	-510	-705	Portland	292	-6	4559	-309	-471	Tulsa	126	-40	2613	-91	-607
Mobile	42	-43	742	-562	-579	MD. Baltimore	214	0	3029	-244	-206	OREG. Astoria	152	5	3441	181	184
Montgomery	75	-31	1199	-537	-554	MASS. Boston	258	13	3447	-238	-315	Burns	205	-32	4506	-223	-495
ARIZ. Flagstaff	228	-13	4320	-309	-915	MICH. Alpena	351	22	5249	-214	-250	Medford	172	7	2864	-405	-516
Phoenix	55	-19	944	-262	-258	Detroit	290	19	4175	-126	-223	Pendleton	139	-42	3301	-303	-681
Tucson	79	-4	1314	35	-368	Flint	311	20	4418	-239	-129	Portland	145	-9	2896	-243	-164
Winslow	181	1	3435	79	118	Grand Rapids	300	14	4427	-86	-288	Salem	153	-1	3171	48	-254
Yuma	43	-6	781	-41	-193	Houghton Lake	350	21	5211	-246	-311	PA. Allentown	235	-17	3572	-382	-364
ARK. Fort Smith	109	-43	2348	-146	-698	Lansing	313	23	4557	-37	-301	Erie	269	-11	3979	-431	-373
Little Rock	112	-44	2008	-489	-583	Marquette	337	17	5257	-62	-383	Harrisburg	220	-14	3225	-415	-272
CALIF. Bakersfield	102	14	1395	-238	-349	Muskegon	307	22	4453	-35	-69	Philadelphia	226	5	3051	-283	-229
Eureka	124	9	2915	75	124	S. Ste. Marie	381	29	5919	29	62	Pittsburgh	227	-26	3520	-528	-400
Fresno	125	19	1810	-103	-320	MINN. Duluth	364	-9	6596	153	-449	Scranton	280	13	4162	-81	-269
Los Angeles	74	4	862	-208	23	Internat'l Falls	419	-11	6995	-136	-124	R. I. Providence	258	6	3628	-270	-230
Red Bluff	127	23	1934	55	-394	Minneapolis	303	-41	5480	-201	-365	S. C. Charleston	89	-16	952	-666	-496
San Diego	57	-2	705	-220	-82	Rochester	302	-37	5516	-69	-494	Columbia	101	-24	1160	-801	-690
San Francisco	115	18	1983	77	-34	St. Cloud	324	-41	5989	-56	-469	Greenville	134	-12	1994	-332	-334
Stockton	119	8	1794	-174	-284	MISS. Jackson	73	-39	1275	-472	-614	S. DAK. Aberdeen	288	-63	6144	237	292
COLO. Denver	170	-55	4064	118	-407	Meridian	69	-43	1154	-676	-676	Huron	233	-98	5461	-66	-128
Grand Junction	312	92	4439	449	-371	MO. Columbia	165	-55	3539	-41	-428	Rapid City	183	-91	4770	-24	-514
Pueblo	172	-40	3729	9	-588	Kansas City	165	-58	3653	4	-390	Sioux Falls	232	-89	5298	-89	-355
CONN. Bridgeport	244	2	3198	-313	-561	St. Louis	161	-50	3402	29	-330	TENN. Chattanooga	121	-37	2070	-505	-814
Hartford	259	-11	3905	-363	-272	Springfield	163	-33	3001	-242	-587	Knoxville	128	-32	2089	-452	-589
DEL. Wilmington	211	-11	2977	-400	-99	MONT. Billings	167	-95	4580	-208	-869	Memphis	108	-41	1900	-499	-873
D.C. Washington	172	-25	2368	-600	-438	Glasgow	236	-112	5988	-65	-173	Nashville	134	-36	2137	-566	-536
FLA. Apalachicola	39	-37	573	-479	-363	Great Falls	174	-90	4994	-4	-407	TEX. Abilene	66	-55	1707	-263	-937
Daytona Beach	47	9	360	-326	-217	Havre	197	-131	5696	-266	-179	Amarillo	112	-62	2627	-326	-955
Ft. Myers	20	-13	195	-172	-90	Helena	204	-72	5324	-122	-962	Austin	30	-57	1082	-268	-691
Jacksonville	56	-15	635	-391	-300	Kalispell	220	-58	5204	-482	-659	Brownsville	4	-33	336	-175	-492
Key West	3	-4	30	-20	-19	Miles City	188	-116	5048	-314	-634	Corpus Christi	11	-38	577	-166	-497
Lakeland	24	-18	295	-232	-213	Missoula	227	-36	4978	-344	-571	Del Rio	18	-54	902	-348	-618
Miami	10	-11	112	-55	-2	NEBR. Grand Island	176	-85	4637	206	-200	El Paso	109	-8	1858	-238	-267
Orlando	45	-2	303	-242	-123	Lincoln	194	-66	4627	285	-158	Fort Worth	54	-60	1501	-295	-674
Tallahassee	69	-14	756	-472	-416	Norfolk	202	-87	4772	-35	-383	Galveston	19	-50	579	-341	-582
Tampa	38	-7	311	-247	-188	North Platte	185	-72	4866	290	-431	Houston	24	-50	901	-218	-661
W. Palm Beach	20	5	144	-99	-5	Omaha	203	-74	4610	42	-306	Lubbock	85	-72	2125	-463	-993
GA. Atlanta	115	-26	1680	-594	-564	Valentine	198	-86	4813	-88	-617	Midland	69	-52	1711	-291	-862
Augusta	104	-16	1455	-472	-374	NEV. Ely	234	-26	5020	18	-448	Beaumont	38	-38	860	-317	-708
Macon	91	-16	1128	-588	-490	Las Vegas	93	-21	1983	1	-326	San Angelo	44	-59	1373	-360	-820
Savannah	70	-26	912	-584	-347	Reno	199	5	3685	-258	-740	San Antonio	34	-44	1006	-232	-606
IDAHO. Boise	176	-30	3562	-398	-591	Winnemucca	199	-16	3941	-410	-759	Victoria	18	-47	662	-302	-662
Lewiston	155	-31	3543	-204	-374	N. H. Concord	309	9	4833	-69	-617	Waco	51	-50	1337	-243	-825
Pocatello	225	-23	4610	-99	-583	N. J. Atlantic City	211	-10	2977	-359	-160	Wichita Falls	69	-65	1853	-324	-897
ILL. Cairo	145	-34	2569	-241	-504	Trenton	219	-4	3076	-281	-219	UTAH. Salt Lake C	219	-2	3944	-124	-592
Chicago	243	-22	4068	-105	-273	N. MEX. Albuquerque	159	-16	3287	188	-186	VT. Burlington	333	6	5112	-107	-387
Moline	229	-48	4308	-130	-231	Roswell	111	-44	2401	-379	-463	VA. Lynchburg	170	-20	2608	-392	-392
Peoria	213	-50	4134	-104	-388	N. Y. Albany	316	22	4666	23	-37	Norfolk	141	-27	1893	-537	-364
Rockford	259	-31	4478	-216	-233	Binghamton	294	-5	4428	-355	-507	Richmond	170	-11	2364	-449	-336
Springfield	186	-57	3696	-200	-442	Buffalo	289	-2	4306	-183	-206	Roanoke	164	-27	2550	-480	-466
IND. Evansville	152	-54	2865	-446	-696	New York	222	-4	2993	-279	-381	WASH. Quillayute	159	-5	3918	234	68
Fort Wayne	257	-7	4065	-156	-190	Rochester	282	-3	4149	-252	-151	Seattle-Tacoma	141	-15	3134	-192	-262
Indianapolis	208	-34	3436	-442	-443	Syracuse	288	3	4361	-25	-100	Spokane	206	-22	4482	-124	-156
South Bend	243	-30	3830	-519	-422	N. C. Asheville	154	-27	2369	-614	-446	Walla Walla	141	-31	3186	-205	-517
IOWA. Burlington	208	-57	4141	-141	-391	Hatteras	108	-26	1243	-591	-326	Yakima	174	-30	3949	-247	-398
Des Moines	208	-78	4384	-260	-672	Charlotte	143	-5	2021	-337	-441	W. VA. Beckley	196	-35	3182	-647	-550
Dubuque	285	-18	4887	-103	-332	Greensboro	160	-13	2461	-303	-445	Charleston	169	-33	2743	-497	-468
Sioux City	201	-91	4626	-212	-396	Raleigh	160	-1	2003	-543	-544	Huntington	161	-44	2724	-528	-638
KANS. Concordia	150	-85	3981	62	-331	Wilmington	118	-3	1184	-614	-493	Parkersburg	183	-31	2965	-401	-371
Dodge City	132	-76	3499	-16	-591	N. Dak. Bismarck	309	-53	6570	422	262	WIS. Green Bay	334	2	5200	-210	-114
Goodland	163	-71	4197	84	-537	Fargo	342	-41	6652	323	53	LaCrosse	297	-21	4962	-144	-366
Topeka	166	-55	3775	63	-284	Williston	274	-82	6435	212	-48	Madison	313	-2	5021	-200	-240
Wichita	153	-48	3482	135	-453	OHIO. Akron-Canton	256	-8	3637	-538	-331	Milwaukee	272	-27	4548	-360	-368
KY. Lexington	170	-40	2785	-546	-402	Cleveland	249	-14	3566	-518	-436	WYO. Casper	223	-44	5037	149	-609
Louisville	158	-49	2678	-606	-487	Columbus	220	-27	3416	-514	-402	Cheyenne	191	-61	4694	83	-650
LA. Baton Rouge	42	-43	813	-499	-530	Cincinnati	195	-30	3234	-293	-398	Lander	245	-31	5183	-34	-1190
Lake Charles	42	-35	863	-302	-627	Dayton	234	-10	3536	-342	-349	Sheridan	182	-90	5030	-24	-557
New Orleans	34	-42	667	-476	-640	Toledo	284	16	4248	-66	-180						
Shreveport	66	-39	1517	-140	-489	Youngstown	263	-8	3944	-339	-519						
MAINE. Caribou	391	22	6278	-28	-595	OKLA. Okla City	113	-53	2565	-139	-687						

\* Based on 1941-70 Normals. † Accumulated from July 1, 1973.



(Continued from Page 8)

on 14th. Precipitation very light and total for season well below normal statewide.

Snow cover nearly gone except few scattered counties mostly in northeast. Fall seeded grains good most areas. Some blowing due to lack of snow cover. Hay supplies mostly adequate but price high. Feed grains adequate. Easy winter helped stretch feed. Fuel supplies no problem yet, but farmers concerned. Early lambing and calving underway. Livestock good. Main farm activities: Buying seed and fertilizer and caring for livestock.

**TENNESSEE:** Fair weather prevailed across entire State first part of week. Cold front moved southward across State Thursday accompanied by rain and thundershowers. Temperatures averaged 3° to 8° above normal for week. Rainfall amounts averaged around 1.50 in. Chattanooga received over 3.00 in.

Major activities included care of livestock, preparation of gardens and tobacco beds for planting, and topdressing pastures and small grains. Fields too wet in most areas for large scale land preparation. Peach producers becoming concerned about trees not reaching their cold requirement. Livestock and small grains mostly good.

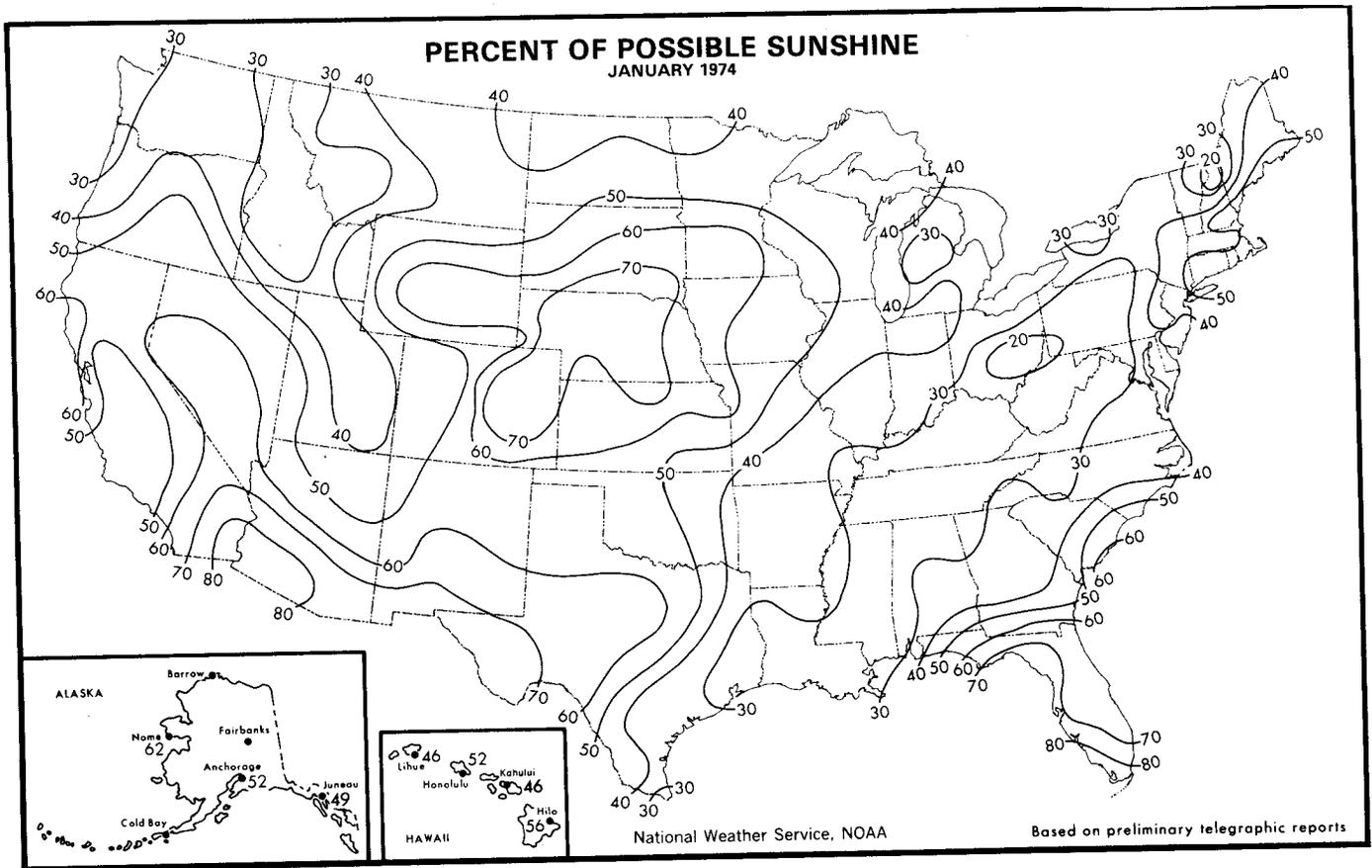
**TEXAS:** Fair, warm weather dominated. Temperatures statewide generally 5° to 10° above normal. Precipitation subnormal. Warm temperatures prevailed first three days. A cold front Thursday produced scattered showers over panhandle and portions of central and east before passing out of State Friday. Somewhat cooler through weekend although 80's reached in far south Texas on Saturday.

Wheat and oats continue to decline from high

plains to Edwards Plateau. Only grazing available coming from irrigated fields. Much of dryland crop dead or past recovery. Wheat and oats in south and east making satisfactory growth and grazing adequate. Cotton harvest in final scrapping stage on low plains. Planting started in Lower Rio Grande Valley. Corn and sorghum seeding also started on small scale southern half. Land preparation underway across State, most farmers ready to plant as weather and moisture conditions permit.

**Lower Rio Grande Valley:** Lettuce, celery, cabbage, turnips, greens, carrots harvest active. Cantaloupe, honeydew melon planting underway. Onions made good growth, harvest to begin in few weeks. **Laredo:** Late carrage, carrots, onions satisfactory progress. **Coastal Bend:** Cucumbers, watermelons planted. **Spinach** harvest underway. **San Antonio-Winter Garden:** Planted spring vegetables. Carrot, cabbage, spinach harvest continued. Onions made good growth. **Trans-Pecos:** Late onions planted El Paso County. Land prepared for spring vegetables. **East Texas:** Land prepared, planted where dry enough. **Knox-Haskell:** Potato planting begun. **High Plains:** Land prepared, fertilized for summer vegetables.

Peaches blooming many areas south Texas. Dormant oil spraying, pruning later areas. Citrus harvest active, tree conditions vary, many groves blooming. Most groves fertilized, irrigated. Harvest grapefruit about one-half complete. Early orange harvest complete, picking late oranges well along. Livestock condition continued to hold up well State-wide. Heavy supplemental feeding still underway most areas. Edwards plateau moisture extremely short. Dry grazing available but causing fire hazards many localities. Goat shearing underway



for several weeks. First confirmed screwworm cases in 1974 in southcentral and coastal bend.

**UTAH:** Few widely scattered snow showers early week. Snow northwest over weekend. Moisture totals light to moderate. Temperatures averaged near normal to 15° below in west and southcentral and 6° to 20° below in Uintah Basin and southeast.

Harsh winter weather still limiting farm activities. Very little early plowing. Lambing continued. Turkey poult placements increased. Marketing potatoes, apples, and dry onions from storage continued. No unusually warm periods have occurred to date in February to false start fruit tree development. Pruning started in some orchards. Care of livestock and poultry major activities. Preparation of machinery for spring fieldwork increased.

**VIRGINIA:** Precipitation averaged 0.60 in. falling as light snow in mountains on Monday, mixed precipitation south on Friday and Saturday, and mostly snow in north and west Saturday. Temperatures averaged near to normal. Unseasonably warm on 13th. Extremes: 70° and 12°.

Soil moisture remained excessive most areas limiting fieldwork to an average of 1.4 days. Liming, fertilizing and tobacco bed preparations picked up momentum as soils dried. Care and feeding of livestock and orchard pruning remained active. Maple syrup production increased in special producing areas, a sure sign that spring is not far away. Feed supplies appear adequate most areas. Winter grains and grazing crops good to excellent. Potato land preparation and cabbage setting became more active as some fields dried out on lower Eastern Shore.

**WASHINGTON:** West: Temperatures averaged near normal. Highs mostly 40's, lows 30's. Precipitation subnormal. Pruning, tying canberries continued with activity slowing. Lifted raspberry stock. Harvest forced rhubarb, daffodils, tulips underway. Pruned orchards, applying dormant sprays active. Cabbage seed fields made growth. Fall seeded grains good. Livestock on full feed.

East: Temperatures warmer than normal. Highs 40's, lows mid-20's, 30's. Local showers 0.30 to 0.80 in. Prepared land for spring planted crops. Seeded, reseeded some winter wheat. Applied limited amounts fertilizer. Pruning orchards active. Bark splitting showing on some fruit trees. Installation orchard heating, irrigation systems Yakima Valley. Livestock good. Feed short to adequate depending on location. Calving, lambing active.

**WEST VIRGINIA:** Temperatures averaged 3° to 4° sub-normal. General warming trend until midweek. Highs Monday 20's and 30's reaching 50's and 60's Wednesday. Highs Thursday and Friday down to 30's and 40's, up to 40's and 50's weekend. Lows 20's and 30's early week, 30's and 40's midweek, back to 20's and 30's Friday. Only precipitation light showers 13th and scattered rain and snow 16th. Mostly sunny skies Sunday.

Some scattered gardening getting started. Some grass remained green all winter. Cattle have wintered well. Hay supplies more than adequate assuming normal spring.

**WISCONSIN:** Temperatures averaged near or slightly above normal. Sub-zero readings morning of 11th, 14th, and 15th some parts. Extremes: 19° below



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210

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zero at Land O'Lakes on 14 and 15th, 50° at Port Edwards on 12th. Daytime highs rather chilly except afternoon readings on 12th in 40's most areas.

Precipitation light, ranging from 0.10 to 0.20 in. water equivalent. Snow 1 to 2 in. fell over north on 15th, less than 1 in. south. Snow depths average 10 in. statewide, northern areas have up to 2 ft. Mild temperatures the 12th and over weekend settled snow cover considerably south. Frost depths average 12 inches statewide.

WYOMING: Generally dry week statewide. Precipitation subnormal except in Belle Fourche drainage area which reported 0.40 in. at Alva. Temperatures generally above normal except southwest and south-central. Extremes: 57° at Sheridan, 15° below zero at Big Piney. Feeding livestock and repairing machinery principal activities. Some sheep shearing and calving, lambing. Winter wheat looks good; however, some may have been damaged by high winds and sifting soils.

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