

# Weekly Weather & Crop Bulletin

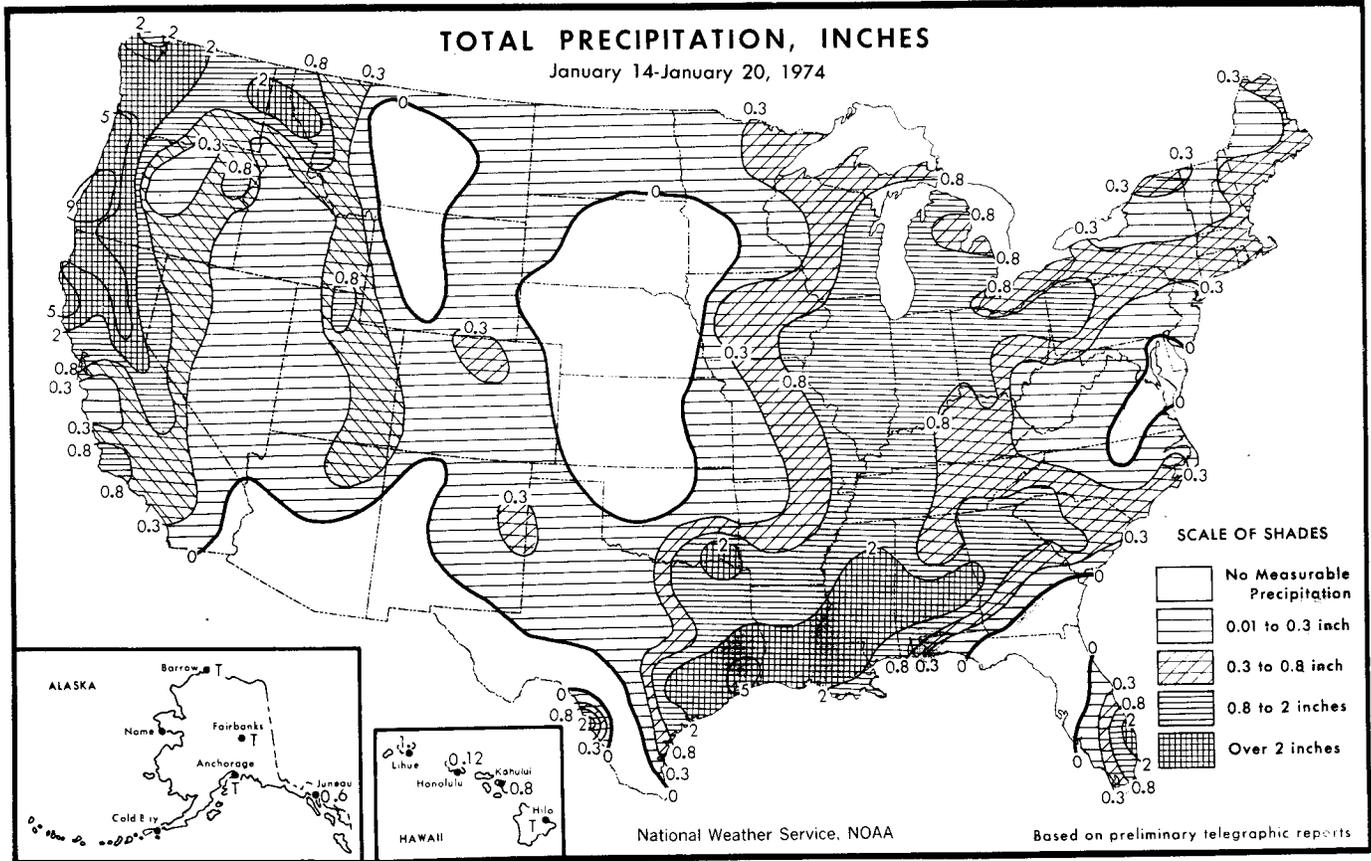
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## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** An exceptionally warm, relatively dry week. Most of the Nation, from the Sierras to the Appalachians, averaged 9° to 23° above normal, except over the Desert Southwest. New England was the only area much colder than normal. Heavy precipitation was confined to northern California, western Oregon and most of Washington early in the week, and southeastern Texas and Louisiana over the weekend.

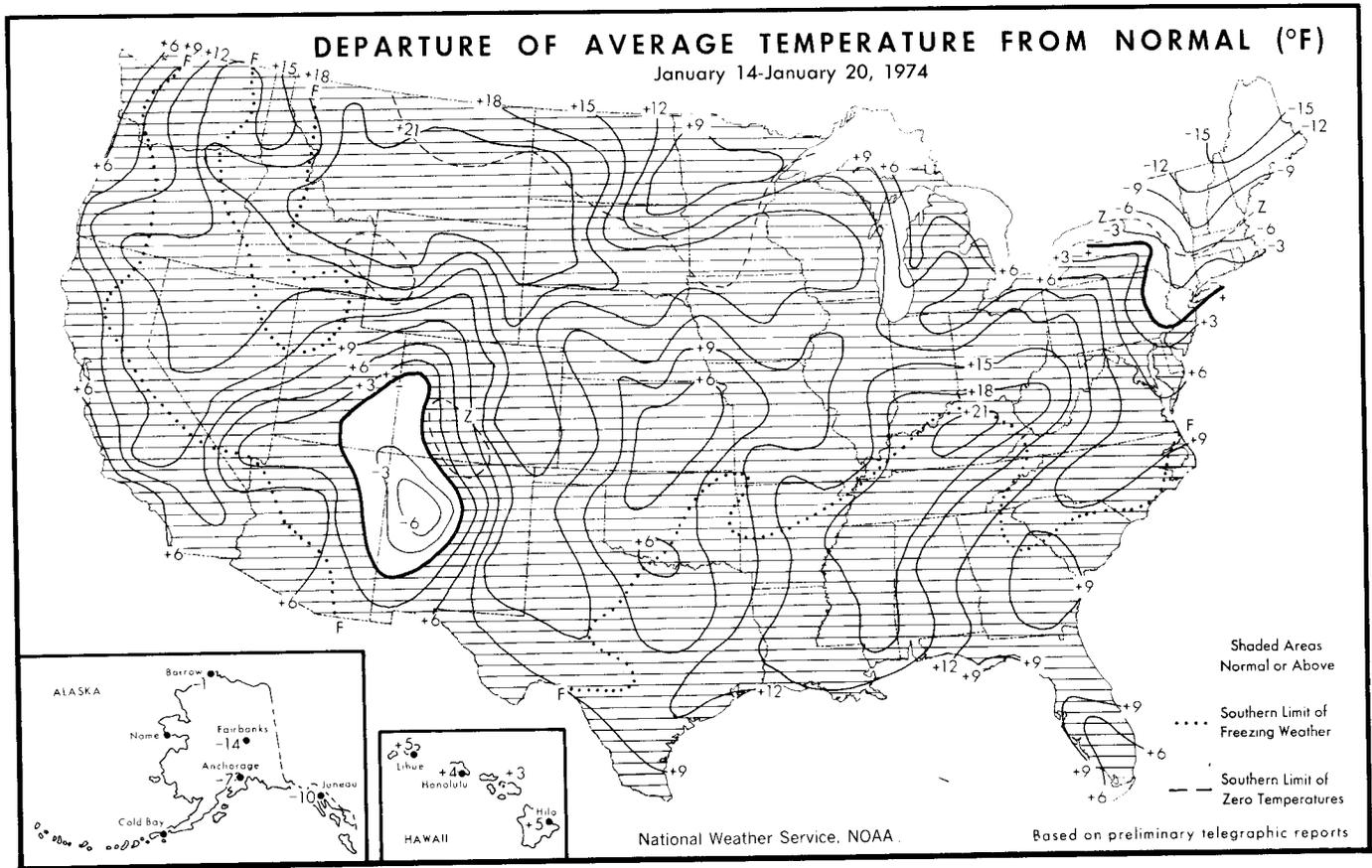
**PRECIPITATION:** Most of the Nation received only light precipitation during the week. Precipitation amounts of 0.80 in. or more were limited to two general areas: an area from the Great Lakes to the Gulf, and in the western tier of States. No measurable precipitation fell in most of the Plains States, southern Arizona, New Mexico and southwestern Texas, and parts of Florida, Virginia, and Maryland.

The week began with a large High pressure system located over Washington, D.C., which kept

the East Coast clear. Most of the precipitation was confined to a 10 State area stretching from the Carolinas to the Texas Gulf Coast, and the Pacific Northwest. Rainfall amounts were excessive in parts of Mississippi and Texas as 2.00 in. or more fell: Houston, Texas, received 3.04 in. Another storm moving into the Pacific Northwest dropped 1.00 to 4.00 in. of moisture from San Francisco northward.

On Tuesday, precipitation was light and scattered in the southeast except at Houston which received another 1.03 in. rain. The storm in the Pacific Northwest continued to intensify, dropping another 2.00 in. to 4.00 in. Wind gusts topped 80 mph. at Cape Blanco, Ore. Strong winds lashed the Pacific Coast from central California northward.

Wednesday, precipitation was confined to the western tier of States and the New England area. High coastal winds continued in the west due to the combination of two Lows in southwestern



Canada and a High over Colorado. Wind gusts at Livingston, Mont., reached 83 mph. Rains of 2.00 to 5.00 in. fell within 12 hours in southern Oregon, aggravating already serious flood conditions. By late Wednesday the rains finally subsided in the Northwest. Most of the precipitation which fell over New England was in the form of snow.

Precipitation was scattered but very light across the Nation on Thursday. However, by Friday major rainfall patterns had developed, and heavy rains fell through Texas and Louisiana, the Ohio River Valley, New England, and another major storm system was moving into the Pacific Northwest. Heavy rains in the Northwest continued through Saturday.

Friday and Saturday considerable rain and freezing drizzle caused glazed highways in many North Atlantic States. Thunderstorms were heavy and severe at times in the southeastern Plains and the lower Mississippi River Valley. Record fog conditions have existed at Shreveport, La., since the first of the year. Visibilities have remained less than 3 miles and only 8 percent of the total possible sunshine has struggled through the clouds.

Sunday was wet and cloudy in the eastern half of the Country. Rain and drizzle fell from Tennessee to the Great Lakes. The Plains were generally clear and warm.

**TEMPERATURE:** The entire Nation enjoyed an exceptionally warm week as temperatures averaged 9° to 23° above normal from the Sierras to the Appalachians. This exceptionally warm weather broke one of the long cold spells on record in

many Plains States.

The week began with a general warming trend over the entire Nation except in northern Montana and North Dakota where a sharp cold wave was moving in. While Sheridan, Wyo., reached a record breaking 60°, temperatures dropped 28° in one hour at Bismarck, N.D., dropping the readings into single figures. The cold wave was associated with a Low over Saskatchewan which was rapidly moving eastward.

The combination of storm systems that brought the high winds to the Northwest on Tuesday and Wednesday also brought very warm temperatures. Records for the date were set at Sheridan, Wyo., 70°, and Lander, 60°. Pendleton, Ore., recorded it's highest temperature ever for January, 68°. The cold front which remained across the Dakotas provided sharp temperature contrasts. Rapid City, S.D., reached 63°, while Grand Forks, N.D., could only reach 2°.

Thursday was very warm over much of the Nation except in New England where one of the coldest nights of the winter was expected. A High located just east of James Bay was bringing the frigid air southward. Meanwhile, many record high temperatures were set in the South: Midland, Texas, 84°; Abilene, 80°; Lake Charles, La., 77°; Meridian, Miss., 79°; and Mobile, Ala., 78°.

Friday morning temperatures lived up to expectations in the New England area. Massena, N.Y., reached -35°; Burlington, Vt., -23°.

The weekend continued moderate. A large Low over Lake Superior lowered temperatures in that area. A high over the Gulf continued to moderate temperatures through the Plains areas.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Springlike temperatures provided a respite from winter's icy grip for most of the Nation last week, but the warmth melted snow cover from many winter wheat fields. The cotton harvest reached the clean-up stage. Severe flooding plagued the Northwest.

**SMALL GRAINS:** Winter wheat remained in good shape in Kansas and Nebraska while unseasonably warm temperatures dominated the Nation causing snow cover to melt rapidly. Most Kansas wheat fields are now devoid of snow and top growth is short, but so far little wind or insect damage has occurred. Moisture supplies are adequate to surplus.

The warmer temperatures stimulated some growth in Oklahoma wheat pastures, but topsoil moisture is short in the western third and greenbugs are evident in some areas. Moisture continues to become critically short in Texas from the Edwards Plateau to the High Plains curtailing wheat growth.

Warm temperatures and heavy precipitation have either eliminated or greatly reduced snow from most winter wheat fields in South Dakota, Montana, and eastern Washington. Snow cover also disappeared from most Corn Belt winter wheat fields last week. Cool, wet weather slowed small grain growth in California and interrupted planting. Most Southern small grain crops are improving and growing well with adequate to excessive soil moisture.

**COTTON:** Cotton harvesting is almost complete in Texas at 98% done compared to 83% done a year earlier while seedbed preparations for the 1974 crop are active in South Texas. The late Oklahoma cotton harvest was active last week in the southwest area. Cotton harvesting in California, Arizona, and New Mexico is in the clean-up stage.

**OTHER CROPS:** Tobacco seedbed preparation continued actively from Georgia to North Carolina and just started last week in Virginia. Tobacco stripping is running ahead of usual progress in Maryland.

Rains in California hampered potato digging for the second straight week. Land preparation for planting spring potatoes in Baldwin County, Alabama are about complete, but just started in the Knox-Haskell area of Texas. Potato seeding

is already started in Frio County, Texas.

Rain caused some delay in the active Florida sugarcane harvest.

**FRUITS AND NUTS:** Heavy rains in northern California damaged many orchards while wet, foggy weather in citrus areas of the State slowed picking of Navel oranges, lemons, grapefruit, and tangerines.

Florida citrus fruit and tree condition is rated very good to excellent, but rain is needed in all areas. Warm weather is generating new growth which would be vulnerable to frost.

The Texas citrus harvest continued actively. Some fruit droppage which began to occur in Valencia oranges is attributed to the December freeze.

Pruning was active in many orchards throughout the South and in the Pacific Northwest.

**VEGETABLES:** Cabbage moved in greater volume than other Florida vegetables last week, while tomato shipments were down sharply as is usual for this time of year. Supplies of celery, sweet corn, escarole, and lettuce were about steady and peppers declined.

Carrot digging increased in California at Imperial and Coachella. Lettuce and cabbage harvesting continued at Imperial, but asparagus supplies were light.

Harvest of winter lettuce was active in the Yuma, Arizona area as was the harvest of a variety of other winter vegetables.

In Texas, harvest of lettuce, cabbage, and carrots continued in the Lower Rio Grande Valley and onions showed good growth. Cabbage and carrot harvesting was also active at Laredo and in the San Antonio-Winter Garden area.

**PASTURES AND LIVESTOCK:** Livestock producers welcomed a week of springlike weather over the Nation following several weeks of bitter, sub-zero cold. The mercury climbed well above freezing in most northern States, melting snow cover and permitting some grazing.

Rain and boggy ground continued to restrict grazing of winter pastures in the South from East Texas to Georgia while flooding plagued stockmen in the Northwest. The shortage of grazing on the Texas High and Low Plains is increasing cattle movement into feedlots.

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Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Jan. 20, 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 . . .	58	+ 14	.6	- .5	La. Baton Rouge . . .	68	+17	2.5	+1.4	Youngstown . . .	37	+11	1.5	+ .7
Mobile . . .	69	+ 18	1.3	+ .2	Lake Charles . . .	67	+15	4.2	+3.2	OKLA. Okla. City . . .	43	+ 7	0	- .3
Montgomery . . .	59	+ 12	2.2	+1.3	New Orleans . . .	69	+16	2.0	+1.1	Tulsa . . .	45	+ 9	.1	- .3
ALASKA. Anchorage . . .	4	- 7	T	- .2	Shreveport . . .	59	+12	1.9	+ .8	OREG. Astoria . . .	46	+ 6	4.6	+1.9
Barrow . . .	-15	- 1	T	- 0	MAINE. Caribou . . .	-6	-17	.4	- .1	Burns . . .	39	+14	.4	0
Fairbanks . . .	-26	- 14	T	- .2	Portland . . .	13	- 8	.5	- .5	Medford . . .	50	+14	3.3	+2.6
Juneau . . .	13	- 10	.6	- .3	MD. Baltimore . . .	37	+ 4	T	- .8	Pendleton . . .	50	+19	.3	0
Kodiak . . .	---	---	---	---	MASS. Boston . . .	22	- 7	.7	- .2	Portland . . .	47	+ 9	5.6	+4.4
None . . .	---	---	---	---	Chatham . . .	31	---	.8	---	Salem . . .	46	+ 8	5.6	+4.1
ARIZ. Flagstaff . . .	35	+ 7	.3	- .1	MICH. Alpena . . .	24	+ 6	1.0	+ .6	PA. Allentown . . .	26	- 2	.1	- .6
Phoenix . . .	59	+ 8	T	- .1	Detroit . . .	32	+ 8	.9	+ .5	Erie . . .	34	+ 9	.5	- .1
Tucson . . .	56	+ 5	T	- .2	Flint . . .	31	+ 9	1.1	+ .7	Harrisburg . . .	33	+ 3	.1	- .5
Winslow . . .	34	+ 2	.1	0	Grand Rapids . . .	32	+ 9	1.3	+ .9	Philadelphia . . .	32	0	T	- .7
Yuma . . .	62	+ 7	0	- .1	Houghton Lake . . .	25	+ 8	.7	+ .3	Pittsburgh . . .	42	+14	.9	+ .2
ARK. Fort Smith . . .	49	+ 10	T	- .6	Lansing . . .	32	+10	1.2	+ .7	Scranton . . .	25	- 1	.4	- .2
Little Rock . . .	55	+ 16	.7	- .5	Marquette . . .	25	+ 7	.5	+ .1	R. I. Providence . . .	24	- 4	.6	- .3
CALIF. Bakersfield . . .	60	+ 13	.7	+ .4	Muskegon . . .	30	+ 6	1.1	+ .6	S. C. Charleston . . .	59	+10	T	- .5
Eureka . . .	54	+ 7	4.6	+3.1	S. Ste. Marie . . .	16	+ 2	.7	+ .2	Columbia . . .	56	+11	.6	- .1
Fresno . . .	56	+ 11	.5	0	MINN. Duluth . . .	17	+ 9	.4	+ .1	Greenville . . .	52	+10	.8	- .1
Los Angeles . . .	61	+ 4	.6	0	Internat'l Falls . . .	12	+11	.3	+ .1	S. D. Aberdeen . . .	18	+ 9	T	- .1
Red Bluff . . .	54	+ 9	2.7	+1.7	Minneapolis . . .	27	+16	.1	- .1	Huron . . .	27	+16	T	- .1
San Diego . . .	61	+ 6	T	- .4	Rochester . . .	29	+17	.2	- 0	Rapid City . . .	44	+23	T	- .1
San Francisco . . .	56	+ 8	.9	0	St. Cloud . . .	21	+13	T	- .2	Sioux Falls . . .	28	+15	T	- .2
Stockton . . .	56	+ 12	.5	- .1	MISS. Jackson . . .	64	+17	2.2	+1.1	TENN. Chattanooga . . .	54	+14	1.0	- .3
COLO. Denver . . .	41	+ 11	.4	+ .3	Meridian . . .	65	+18	2.2	+1.2	Knoxville . . .	54	+13	.4	- .7
Grand Junction . . .	24	+ 2	.2	+ .1	MO. Columbia . . .	39	+10	.6	+ .2	Memphis . . .	59	+19	1.1	- .3
Pueblo . . .	46	+ 16	.2	+ .1	Kansas City . . .	35	+ 8	1	- .3	Nashville . . .	57	+19	.8	- .5
CONN. Bridgeport . . .	28	- 2	.4	- .4	St. Louis . . .	44	+13	1.3	+ .9	TEX. Abilene . . .	53	+10	.1	- .1
Hartford . . .	21	- 3	.4	- .4	Springfield . . .	46	+13	.3	- .2	Amarillo . . .	47	+11	T	- .1
D. C. Washington . . .	42	+ 6	T	- .7	MONT. Billings . . .	43	+22	T	- .1	Austin . . .	59	+10	.9	+ .3
FLA. Apalachicola . . .	62	+ 8	0	- .7	Glasgow . . .	28	+20	T	- .2	Beaumont . . .	66	+14	4.4	+3.4
Daytona Beach . . .	68	+ 10	.1	---	Great Falls . . .	38	+18	T	- .2	Brownsville . . .	67	+ 7	T	- .3
Ft. Myers . . .	72	+ 9	T	- .4	Havre . . .	31	+20	T	- .1	Corpus Christi . . .	66	+10	.7	+ .4
Jacksonville . . .	65	+ 10	T	- .6	Helena . . .	40	+23	T	- .1	Dallas . . .	---	---	---	---
Key West . . .	76	+ 5	T	- .4	Kalispell . . .	37	+19	.8	+ .5	Del Rio . . .	60	+ 9	T	- .2
Lakeland . . .	68	+ 7	0	- .5	Miles City . . .	37	+23	T	- .1	El Paso . . .	49	+ 6	T	- .1
Miami . . .	72	+ 5	2.0	+1.5	Missoula . . .	38	+18	1.2	+1.0	Fort Worth . . .	52	+ 8	.8	+ .4
Orlando . . .	70	+ 10	T	- .5	NEBR. Grand Island . . .	35	+13	T	- .1	Galveston . . .	61	+ 8	2.2	+1.3
Tallahassee . . .	64	+ 11	T	- .8	Lincoln . . .	31	+ 9	T	- .2	Houston . . .	65	+13	3.7	+2.8
Tampa . . .	69	+ 9	T	- .5	Norfolk . . .	33	+15	0	- .2	Lubbock . . .	52	+13	T	- .2
W. Palm Beach . . .	71	+ 7	4.4	---	N. Platte . . .	33	+10	0	- .1	Midland . . .	55	+12	.1	- .1
GA. Atlanta . . .	52	+ 10	1.4	+ .4	Omaha . . .	31	+11	T	- .2	San Angelo . . .	58	+12	T	- .3
Augusta . . .	53	+ 7	.7	0	Valentine . . .	42	+22	0	- .1	San Antonio . . .	60	+10	T	- .4
Macon . . .	57	+ 9	.6	- .2	NEV. Ely . . .	36	+13	.2	0	Victoria . . .	65	+12	.9	+ .4
Savannah . . .	59	+ 9	T	- .6	Las Vegas . . .	47	+ 3	T	- .1	Waco . . .	54	+ 7	.3	- .2
HAWAII. Hilo . . .	76	+ 5	T	-2.8	Reno . . .	46	+14	1.2	+ .9	Wichita Falls . . .	47	+ 6	.2	- .1
Honolulu . . .	76	+ 4	.1	- .7	Winnemucca . . .	45	+17	.3	0	UTAH. Blanding . . .	24	- 2	.7	+ .5
Kahului . . .	75	+ 3	.8	- .2	N. H. Concord . . .	12	- 8	.2	- .5	Salt Lake City . . .	39	+11	.9	+ .6
Lihoa . . .	76	+ 5	1.2	0	N. J. Atlantic City . . .	37	+ 4	.1	- .7	VT. Burlington . . .	5	-12	.3	- .2
IDAHO. Boise . . .	44	+ 16	.2	- .1	Trenton . . .	31	- 1	.1	- .6	VA. Lynchburg . . .	47	+10	T	- .8
Lewiston . . .	44	+ 14	.3	+ .1	N. MEX. Albuquerque . . .	29	- 6	T	- .1	Norfolk . . .	48	+ 7	.1	- .6
Pocatello . . .	41	+ 18	.6	+ .3	Roswell . . .	51	+13	.2	+ .1	Richmond . . .	46	+ 8	0	- .8
ILL. Cairo . . .	50	+ 14	.7	- .2	N. Y. Albany . . .	13	- 8	.2	- .3	Roanoke . . .	48	+12	.1	- .6
Chicago . . .	35	+ 11	1.2	+ .8	Binghamton . . .	25	+ 3	.5	- .1	WASH. Colville . . .	39	+16	1.8	+1.4
Moline . . .	33	+ 12	1.4	+1.0	Buffalo . . .	26	+ 2	.5	- .1	Omak . . .	36	+15	1.0	+ .7
Peoria . . .	35	+ 12	1.1	+ .6	New York . . .	30	- 2	T	- .8	Quillayute . . .	43	+ 5	4.8	+1.3
Rockford . . .	34	+ 14	1.2	+ .7	Rochester . . .	24	0	.2	- .4	Seattle-Tacoma . . .	45	+ 7	3.8	+2.5
Springfield . . .	39	+ 13	1.0	+ .6	Syracuse . . .	20	- 4	.2	- .5	Spokane . . .	40	+15	2.1	+1.5
IND. Evansville . . .	51	+ 19	1.0	+ .1	N. C. Asheville . . .	50	+12	.6	- .1	Walla Walla . . .	50	+17	.5	+ .1
Ft. Wayne . . .	33	+ 8	1.3	+ .7	Charlotte . . .	49	+ 7	.7	- .1	Yakima . . .	40	+13	1.2	+ .9
Indianapolis . . .	44	+ 16	1.0	+ .3	Greensboro . . .	46	+ 7	T	- .8	W. Va. Beckley . . .	48	+17	.1	- .9
South Bend . . .	36	+ 12	1.2	+ .7	Hatteras . . .	54	+10	.1	- .8	Charleston . . .	54	+19	.1	- .9
IOWA. Burlington . . .	34	+ 12	1.0	+ .6	Raleigh . . .	48	+ 7	T	- .7	Huntington . . .	54	+20	.1	- .8
Des Moines . . .	33	+ 14	.7	+ .4	Wilmington . . .	56	+10	.4	- .2	Parkersburg . . .	49	+16	.3	- .5
Dubuque . . .	31	+ 14	.7	+ .3	N. DAK. Bismarck . . .	26	+19	T	- .1	WIS. Green Bay . . .	29	+14	.9	+ .6
Sioux City . . .	31	+ 14	T	- .2	Fargo . . .	12	+ 7	.1	0	La Crosse . . .	32	+16	.2	- .1
KANS. Concordia . . .	35	+ 9	0	- .2	Williston . . .	25	+18	.1	0	Madison . . .	32	+17	.8	+ .5
Dodge City . . .	42	+ 12	0	- .1	OHTO. Akron-Canton . . .	39	+13	.1	- .6	Milwaukee . . .	33	+14	1.2	+ .8
Goodland . . .	40	+ 13	T	- .1	Cincinnati . . .	47	+16	.7	- .1	WYO. Casper . . .	36	+13	.1	0
Topeka . . .	33	+ 5	.2	0	Cleveland . . .	39	+12	.6	0	Cheyenne . . .	42	+16	.3	+ .2
Wichita . . .	34	+ 3	T	- .2	Columbus . . .	42	+14	.7	0	Lander . . .	38	+19	0	- .1
KY. Lexington . . .	54	+ 21	.8	- .4	Dayton . . .	43	+15	.9	+ .1	Sheridan . . .	43	+23	.1	- .1
Louisville . . .	53	+ 20	.6	- .3	Toledo . . .	33	+ 9	.6	0	P. R. San Juan . . .	77	+ 2	.9	- .2

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:** Much cloudiness and fog entire week. Record-high temperatures for mid-January, 15° to 19° above normal Wednesday through Sunday. Rain over State Sunday, clear skies Monday.

Another week rainy weather limited outdoor activities. Farm work mainly caring for live-stock and poultry, maintenance of fences, build-ings and machinery. Warm temperatures provided favorable conditions for growth of small grains and winter grazing crops, but many fields too wet to support livestock. Land preparation for plant-ing spring potatoes in Baldwin County area about complete, planting should get underway soon. Cattlemen feeding hay daily but stores feed supplies adequate most farms.

**ARIZONA:** Dry, mild except for rain Thursday and Sunday night. Traces south and up to 0.50 in. Mogollon Rim and 1.00 in. White Mountains. Fog, low clouds northeast valleys midweek. Average temperatures 5° to 9° above normal except slightly above northeast. Warmest Tuesday and Wednesday, 70's and low 80's south, to 60's mountains. Cold-est nights Sunday and Monday, near zero White Mountains to upper 30's Salt River Valley.

Wheat, barley seeding continued as ground prepa-ration completed. Seeding more than 75% com-pleted most areas. Recent warm weather boosted early growth. Some fields Yuma area near tiller-ing. Early safflower fields Yuma County making good growth, later fields emerging normally. Cotton harvest, clean-up continued but virtually complete. Farmers beginning preparations for 1974 crop. Early sugar beets making progress under favorable conditions. Fields being prepared for sugar beet planting southeast.

Harvesting winter lettuce active Yuma area, central areas thinning and weeding early planted spring lettuce. Harvest mixed winter vegetables active Yuma, central areas. Harvesting grape-fruit, lemons continued active Yuma and Salt River Valley. Groves both areas good condition. Ranges fair to good most of State. High ranges central, eastern areas snow covered. Low ranges supplying winter grazing but supplemental feed-ing active.

**ARKANSAS:** Abnormal warmth and humidity. Consider-able early morning fog. Mean temperatures mostly in 50's. Extremes: 75° Camden, El Dorado, and Texarkana on 18th; 24° Gilbert on 16th. Warmer early week, turning cooler weekend. Precipitation very light westcentral, northwest and portions northcentral with Mountain Home reporting trace. Heaviest southwest and southcentral with 1.88 in. at Texarkana. Most of southern half got at least 0.50 in. Larger amounts mainly weekend.

Mild temperatures brought fescue and small grain pastures back to provide some grazing. Most farming activities consisted of feeding and caring for livestock and routine maintenance chores.

**CALIFORNIA:** A surge of very warm, near tropical air began flowing over much of State early week. Rainfall totals, in a number of north locations, close to 10.00 in. Flooding on very high water from several rivers in north. Temperatures sharp-ly reversed from as much as 23° below weekly average to as much as 16° above weekly average.

Statewide weekly averages near 10° above normal. Seasonal precipitation totals continues about 200% of normal.

Wet ground, cool overcast days slowed fieldwork and held back growth small grains north half State. Warm, dry weather needed for development and more of planting small grain. Early planted crops doing well. Some excess moisture on poorly drained fields north. Wet weather statewide slowed or completely stopped winter activities. Heavy rains caused flooding north and considera-ble damage to many orchards. Buds on early varieties almonds starting to swell. Navel orange harvest continued, wet weather, fog slowed picking San Joaquin. Picking lemons continued San Joaquin, desert areas as weather permitted. Santa Paula and Santa Barbara districts rains about stopped harvest. Grapefruit, tangerine harvests continued as weather permitted.

Artichokes seasonally light. Asparagus light Imperial, increasing with warm weather. Broccoli, cauliflower Salinas Valley light, mostly for processors. Santa Maria broccoli, heavy. Cab-bage plentiful Imperial. Carrot digging increased Imperial, Coachella. Rain slowed celery harvest, but volume heavy. Lettuce harvest continued Imperial. Rains hampered potato digging.

Excessive moisture, cold virtually halted range grass growth. Supplemental feeding statewide. Many feedlots operating near capacity. All feed lots and dairy premises except in desert very muddy causing slow down or weight gain and loss of production. Lambing normal. Some sheep, lambs lost to predators, cold weather in central, north. Rate of egg production normal or below normal.

**COLORADO:** Weather moderated considerably early in week. Cloudy and foggy western valleys. Variable cloudiness elsewhere ranging from generally fair 14th to mostly cloudy 17th and 18th. Widespread precipitation just after midweek and again late week with snow mountains and northwest. Totals under 0.10 in. eastern third, 0.10 to 0.75 in. west two-thirds. Temperatures averaged above seasonal except western valleys where below normal. Great-est departures east with lows generally 5° to 15° above normal. Few highs in lower 70's that area 16th.

Above normal temperatures across eastern plains melted snow allowing livestock to graze wheat and dry pastures. West slope generally cloudy and cool. Livestock generally good condition. Feed-ing livestock slackened as foraging increased.

**FLORIDA:** Temperatures much above normal. Locally heavy rainfall southeast coast, little or none elsewhere. Land preparation for field crops underway in west, north and central. Soil mois-ture short most of State, excessive west.

Small grains good condition. Sugarcane harvest active but interrupted by rain. Young cane in good condition. Pastures mostly poor to fair. Cattle and calves fair to good. Citrus fruit and tree condition very good to excellent. Warm weather generating vulnerable new growth, rain needed all areas except possibly lower east coast.

Cabbage volume leader, steady supply expected this week. Tomato shipments down sharply, usual pattern this time of year. Celery, sweet corn,

escarole, lettuces about steady. Peppers declined. Potatoes, strawberries up slightly. Other vegetable crops in variable supply.

GEORGIA: Temperatures 8° above normal. Cool early week, otherwise mild to warm. Precipitation averaged 0.25 to 0.75 in. over State falling several days north and on 12th south. Light freezing rain northeast on 14th. Continued warm over weekend with showers most of State Sunday night.

Soil moisture adequate to mostly excessive. Corn, cotton and soybean harvest virtually complete. Small grains mostly good. Fertilizer and fuel in short supply some areas. Tobacco bed preparation continues active. Pastures fair to good. Cattle good.

HAWAII: Weather generally favorable throughout State, crops improved. Rainfall light but farm operations limited due to moisture from previous rains. Banana supply heavy, papayas steady. Vegetables adequate. Pastures and cattle good condition. Most sugar and pineapple operations slack.

IDAHO: Temperatures rose midweek to mid and high 50's over all of State except northeast to bring averages as much as 19° above normal. The sudden warming caused ice-jammed rivers to overflow in southwest. Precipitation moderate except in central mountain areas and north where heavy rains, snow melt, and ice jams caused serious flooding. Mullen in north Idaho, reported 7.00 in. precipitation for period and stations in central mountains reported over 4.00 in. Cooler temperatures end of period brought some relief from flooding all areas.

Lambing, early calving, and feeding operations hindered by muddy conditions resulting from rapid thawing. Feed requirements eased by warm weather, but northern localities short on supplies. Flood damage extensive on a few river-bottom farms north and southwest. Warm weather brought increased potato movement from grower storages. Protective snow cover greatly reduced in north winter grain areas and fields bare most other areas.

ILLINOIS: Warm and foggy. Temperatures normal at first, warmed to 40's north, 60's south midweek, near normal close of week. Temperatures averaged 11° above normal. Week began dry, rain south Thursday, heavy amounts entire State end of week.

Winter wheat, other small grains, legumes good to excellent. Good stands, heavy snow cover protection. Livestock good. Recent mild temperatures, rainfall caused muddy feedlots. Soil moisture adequate 46%, surplus 54%. Main activities: Machinery repair, grain marketing, livestock care. Fuel supplies reported adequate. Much concern over spring fertilizer supplies, especially nitrogen.

INDIANA: Very warm. Thawing temperatures day and night melted snow, caused flooding of streams and left fields and roads soft. Heavy fog curtailed air and ground travel. Rainfall averaged 1.00 in. Temperatures averaged from 30's North to low 50's south and was 7° to 19° above normal. Warmest 69° at Evansville on 19th.

Soils not frozen except for 1 or 2 in. deep extreme north. Major activities: Normal chores and caring for livestock. By weekend, crops no longer snow covered. Conditions muddy.

IOWA: Temperatures averaged 12° above normal. Precipitation negligible west, near normal north and much above southeast third from weekend rain. Total snow depth generally reduced 2 to 4 in. during week. Warmest 50° on 16th at Corning, coldest 1° on 19th at Spencer.

KANSAS: Well above normal temperatures. Dry weather generally, few showers northeast Saturday and early Sunday. Temperatures 5° above normal eastcentral, 12° to 14° above normal west.

Extra care and supplemental feeding maintained as wheat pasture, other fields too wet to graze. Livestock condition and rate of gain improved. Winter wheat in good condition, much snow cover melted. Top growth short, little growth made during January. Little wind or insect damage. Some fertilizer applied. Moisture supplies adequate to surplus.

KENTUCKY: Cold beginning of week, warming 20° to 30° above normal from Tuesday through Sunday. Rain Friday, Saturday and Sunday averaged 1.00 to 2.00 in. over State.

Mild temperatures could cause problems in fruit trees if continues too many days. Recent rains have saturated soils, caused some flooding and ponding. Agricultural activity minimal. Tobacco markets closing. Supplemental feeding necessary, yards and lots muddy.

LOUISIANA: Very mild week. Heavy fog several nights and mornings. Temperatures ranged 10° to 16° above normals. Weather turned slightly cooler over weekend with locally heavy to excessive thunderstorm rainfall Saturday and Sunday. Temperature extremes: 80° at Alexandria and Baton Rouge Friday, 37° at Shreveport this morning.

Weekly rain totals mostly 2.00 in. to more than 4.00 in. Greatest 1-day total reported: 4.63 in. at Longville Sunday morning. Soils saturated. No fieldwork possible. Routine livestock chores.

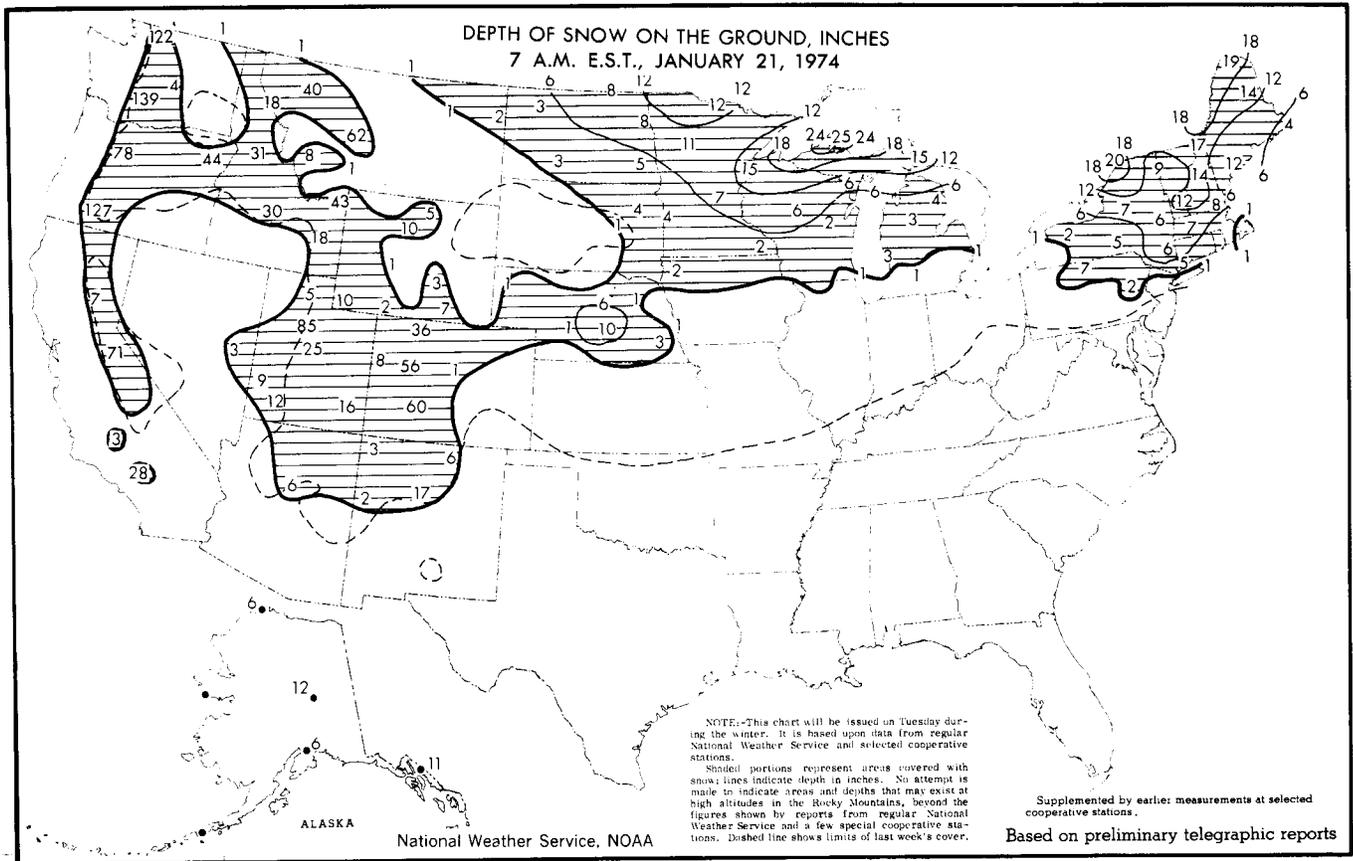
MARYLAND-DELAWARE: Mild week. Temperatures averaged above normal western Maryland, subnormal northern Delaware and near normal remainder of two States. Highs ranged from mid-50's to mid-60's and lows from low teens to low 20's except in Garrett County with a low of 2°. Precipitation scattered and very light, amounts less than 0.30 in.

Winter wheat 27% fair, 53% good, 20% excellent. Winter barley 46% fair, 31% good, 23% excellent. Rye mostly good to excellent. Fair prospects mostly late seeded acreage. Orchard work progressing normally. Tobacco stripping ahead of usual progress. Livestock feed generally adequate.

MICHIGAN: Only light snow amounts. Storm moved northeastward over lower peninsula Sunday night bringing rain and freezing rain to State Sunday. Weekly precipitation totaled 1.00 to 1.50 in. much of lower Michigan and 0.20 to 0.70 in. upper peninsula.

Temperatures averaged 2° to 6° above normal over eastern upper and extreme northwest lower and 6° to 11° above normal elsewhere. Near or above normal temperatures over State most of week. Lows 5° to 15° Monday morning, warming Sunday to 40's most of southern lower peninsula.

MINNESOTA: Temperatures warmed up. Temperatures averaged 9° to 17° above. Most afternoon highs on 16th and 17th in 40's with some as high as 51° along southern tier of counties. Precipitation only snow flurries until weekend when a mixture of freezing drizzle or freezing rain turning to snow fell over southwest corner. Water content ranged



from 0.10 to 0.40 in. except 1.00 to 3.00 in. along Iowa border and southeast. Farm chores normal.

**MISSISSIPPI:** Average temperatures from 2° to 14° above normal. Extremes: 18°, 79°. Precipitation began midweek although slight amounts recorded earlier on coast. Rainfall amounts north third ranged from 0.50 to 1.00 in., while south and central sections ranged from 1.00 to 2.00 in. and coast averaged less than 0.50 in. Cloudy, mild, and rainy through weekend. Rainfall heaviest south half, amounts from 0.50 to 1.50 in. much of north and central. Local amounts in excess of 3.00 in. south.

Soil moisture surplus to flooding some areas. Major farm activities: Feeding livestock, maintenance of farm machinery and making plans for 1974 crop year. Fieldwork averaged 0.4 day. Feed grain supplies short to adequate. Hay and other roughage supplies mostly adequate except short north.

**MISSOURI:** Temperatures made sharp reversal from first two weeks of month. Averages near normal in Bootheel to 5° to 10° above normal over remainder of State. During first two weeks of month, temperatures averaged up to 20° or more below normal, making it the third coldest period for early January since records began.

Precipitation over weekend brought totals for month to date above normal over most of State and especially eastern half. Warming weather plus general rain melted heavy snow cover from previous week and most rivers and tributaries were near bankful or above flood state. Flooding thus far has been mostly limited to lower flat plain area.

**MONTANA:** Temperatures above normal with highs in 50's. Slightly cooler with precipitation tapering off end of week. Strong southwest winds east slopes. Precipitation below normal except southwest and west. Heavy rains up to 4.00 in. received at some stations western division. Warmer weather created mud problems in feedlots. Most snow-cover thawed from winter wheat fields. Routine chores and livestock care main farm activities.

**NEBRASKA:** Temperatures 10° to 20° above normal week long after Pacific air moved into State instead of Arctic air. No precipitation occurred except for trace amounts over eastern end. Winter wheat remains in good condition. However snow cover has melted rapidly and many areas are exposed to wind. Livestock doing well with supplemental feeding, but some cattle lost due to local flooding along Missouri River. Rapid thaw and ice jams caused flooding.

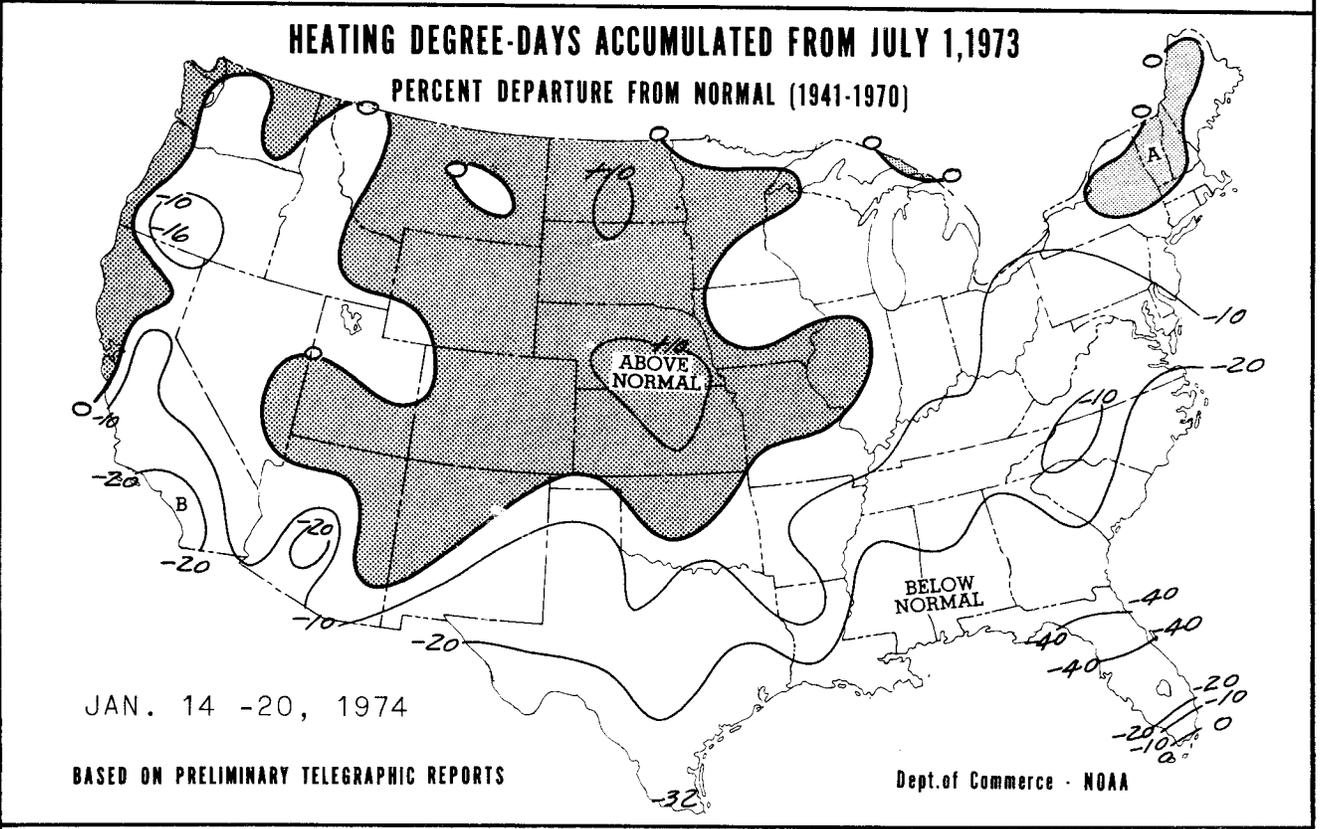
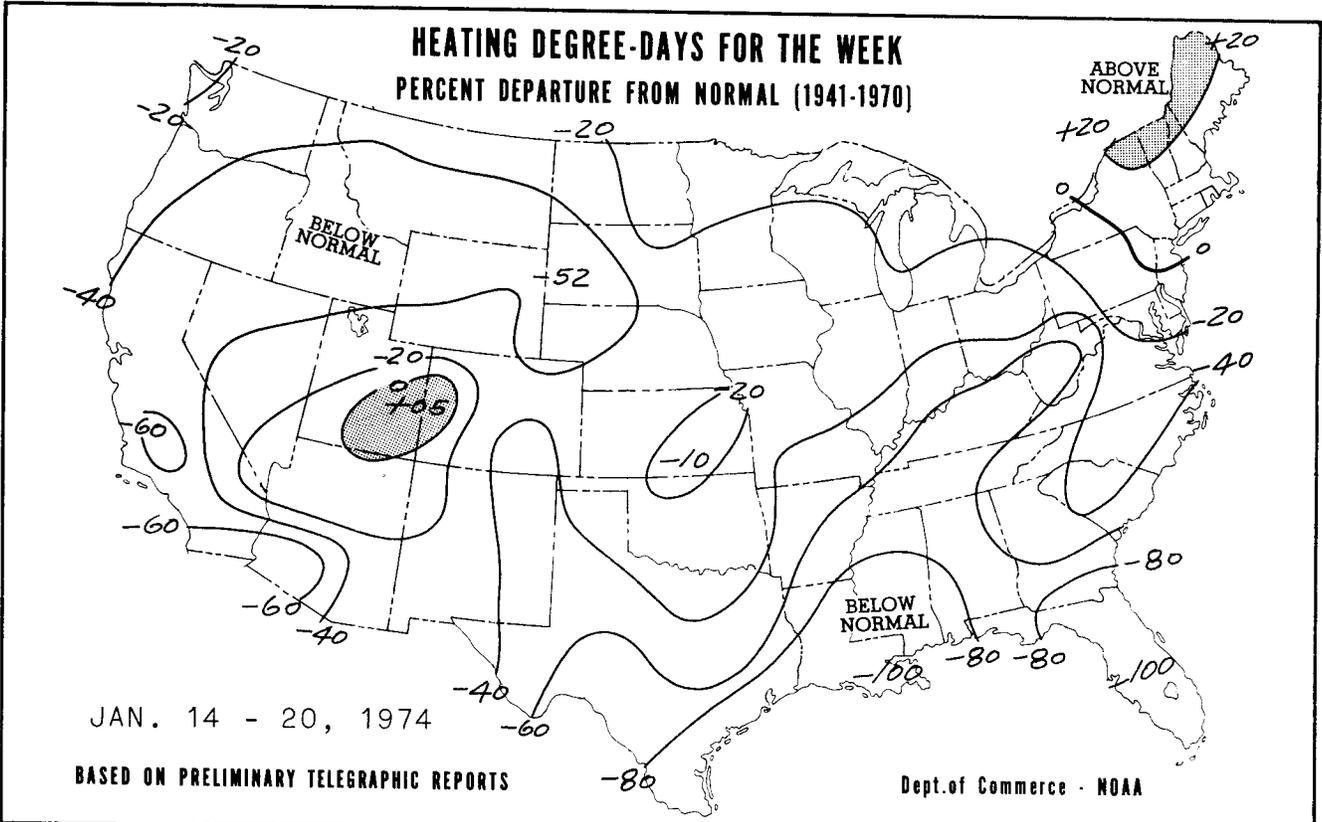
**NEVADA:** Mild weather. Temperatures extremes: 70° Yerington to 15° Tonopah. Light precipitation most stations, heaviest 1.60 in. at Yerdi, Las Vegas got 0.01 in. Livestock good condition. Water and feed supplies adequate.

**NEW ENGLAND:** Some precipitation occurred on 5 of past 7 days and this mostly as snow, sleet and freezing rain, but mostly rain along southern areas. No heavy amounts reported, liquid content of 0.25 to 0.50 in. general on Wednesday and Saturday, lesser amounts on other days. Snow depths end of week

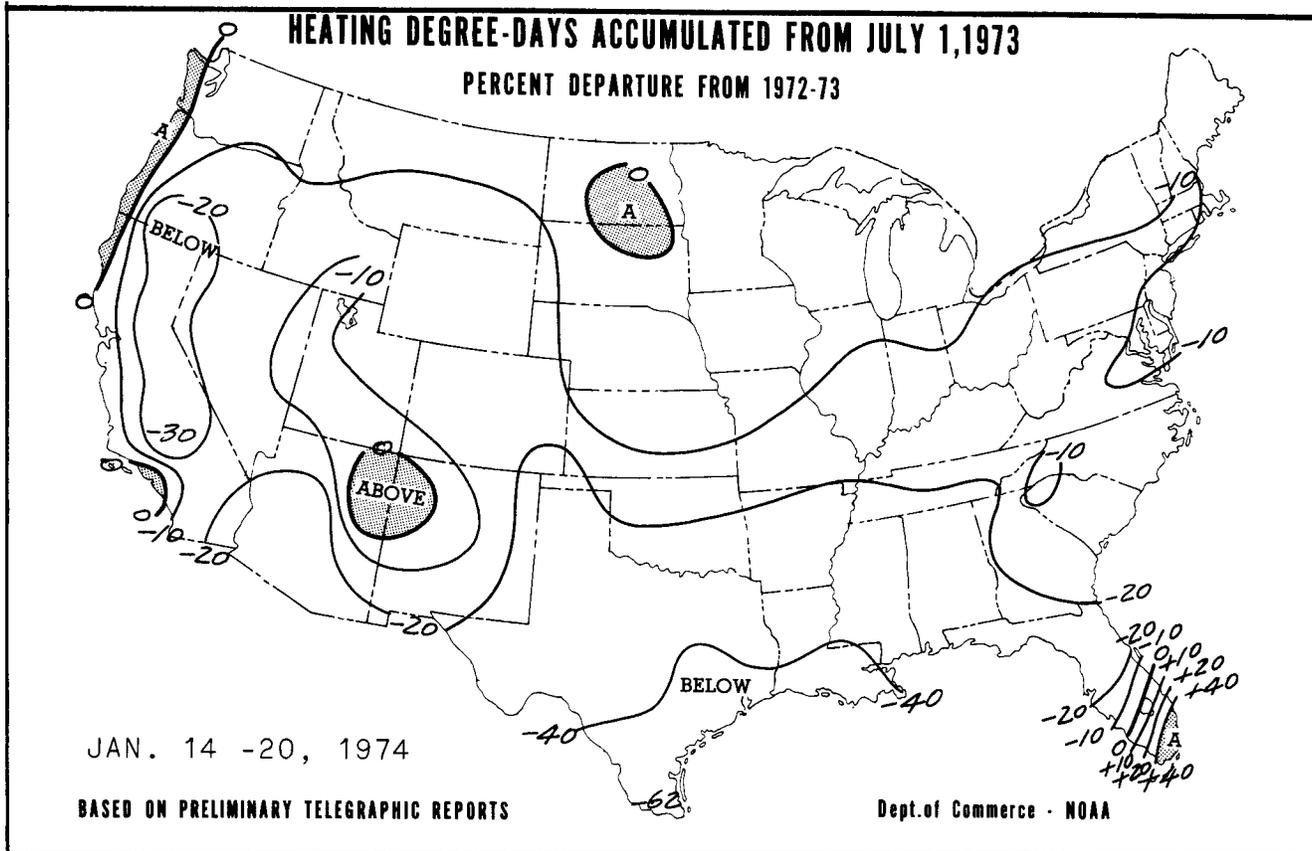
(Continued on Page 10)

FAX CHART 136

OCT 73







(Continued from Page 7)  
ranged from about 1 ft. north to less than a half-foot south.

Mildest weather on Tuesday, but week below normal with some of coldest temperatures of season on Thursday and Friday. Friday, a new record low temperature of 3° below zero recorded at Boston Airport.

**NEW JERSEY:** Week of weather contrasts. Temperatures in 40's and 50's on 16th. Extremes: 58° at Millville, 4° below zero at Newton on 18th. Morning of 21st temperatures back into lower 50's over south. Precipitation light, weekly totals ranged from a trace to 0.50 in.

**NEW MEXICO:** Very warm week all sections except San Juan Basin. Average temperatures ranged from about 5° to 14° warmer than normal. San Juan Basin near normal to 7° colder than normal with persistent fog and low clouds. Light rain and snow all sections except southwest Thursday night and Friday. Amounts of moisture a few hundredths to near 0.33 in.

Moisture short, ranges fair. Livestock fair to good. Wheat, barley fair to good, aphids in a few wheat areas. Cotton harvest near completion all areas. Stockmen preparing for calving. Farmers irrigating prior to plowing.

**NEW YORK:** Consistent cold of past several weeks gave way to changeable weather. Average temperatures varied around normal southwest but remained well below normal northeast. Precipitation averaged near to below normal. Cold Monday, milder Tuesday,

colder with light sleet and snow across State Wednesday. Elmira had 46° for week's high. Very cold Thursday, near to below zero all day northeast.

Friday morning well below zero northeast half, Massena 35° below zero. Warmer air, sleet and freezing rain spread slowly northeastward across State Friday. Precipitation gradually changed to rain southwest half before ending early Saturday. Seasonable weather followed. Rain and moderate temperatures extreme west late Sunday.

Snow depths Sunday ranged from 7 to 20 in. north of Mohawk River, 5 to 10 in. interior southeast, and 4 in. or less west.

**NORTH CAROLINA:** Cold over previous weekend, lows in 20's and 30's, highs in 30's and 40's. Gradual warming trend Tuesday, unseasonably warm over State Wednesday and Thursday. Cooler Friday. Very light precipitation statewide for week.

Soil moisture generally adequate, scattered surpluses. Fieldwork 2.4 days. Small grains, pasture improving and growing. Grain, roughages, adequate: Supplemental feeding continued. Farming activities: Coastal and Piedmont growers prepared, grassed and some seeded tobacco beds. Fruit trees pruned in Piedmont and mountains. Cabbage transplanting coastal counties. Main farm activities: Feeding, caring for livestock; machinery repairs.

**NORTH DAKOTA:** Bitter cold early week, unseasonably warm later. Bismarck recorded 42° below zero on January 12 for Nation's low that day and also a record low for that day for Bismarck. Temperatures in 40's and 50's end of period with Ft. Yates 57°, Dunn Center 54° and Dickinson 52°. Precipitation

mainly north and northeast with Cooperstown recording 0.21 in. and Bottineau and Grand Forks recording 0.19 in. Snow cover heaviest northeast, Pembina had 11 in. on ground, Grand Forks and Devils Lake 8 in. Extreme southwest portion had from trace to no snow cover.

Marketing of crops and livestock accelerated at end of week with some transportation shortages. No major weather problems. Livestock in good to fair condition depending on local supplies of feed. Melting snow some areas opened up a few winter ranges.

OHIO: Snow flurries and freezing drizzle north and light rain and drizzle elsewhere early week. High pressure system midweek caused warm air flow and January thaw. Rain end of week caused minor flooding. Temperatures averaged much above normal for week, in 30's and 40's Monday, 50's and low 60's common Wednesday. By Saturday 20's northwest and 50's southeast. Record high 62° at Akron Sunday.

Absence of snow cover and warm temperatures could cause problems to the 1974 wheat and fruit crops. Farm activities included care and feeding of livestock, machinery maintenance, and attending farm auctions.

OKLAHOMA: Temperatures averaged from 1° below normal southeast to 5° above normal eastcentral. Precipitation light with greatest average of 0.10 in. southeast. Weekend mild and mostly dry except few showers in eastern third. Wheat pastures made some growth. Topsoil moisture plentiful east third, short west third. Greenbugs evident southwest and westcentral. Cotton stripping active southwest, some stripping westcentral, central. Some topdressing of wheat westcentral, southwest, southcentral. Southcentral counties harvested pecans, small acreage seeded to spring oats. Range grasses fairly plentiful east, quality low. Range feed supplies continued to diminish west as moisture low. Cattle mostly good, supplemental feeding necessary.

OREGON: Precipitation on coast ranged from 4.93 in. at Astoria to 9.15 in. at Brookings. Willamette Valley amounts ranged from 5.68 in. at Portland to 10.20 in. at Eugene, southwest interior valley reported amounts ranging from 3.53 in. at Medford to 9.96 in. at Grants Pass. Amounts varied widely in eastern Oregon--Redmond reported only 0.13 in., Dufur 2.42 in. Week started with minimums in 20's and low 30's west and 5° to 15° range east. Then warm air moved into State pushing temperatures 5° to 15° above normal. Highs in 50's and 60's, Pendleton warmest with 68°. Coldest 45° at Lakeview.

Heavy rain causing mudslides, major flooding western Oregon. Major farm activities limited to livestock care, orchard pruning, and preparing books for taxes. Sheep are lambing. Feed supplies expensive but adequate so far.

PENNSYLVANIA: Seasonably mild and dry through Thursday, very cold Friday with moderating trend thereafter. Weekly temperatures 4° to 6° above normal and 10° to 12° above previous week. Extremes: 4° below zero and 64°. Generally cloudy with precipitation as rain, freezing rain and some snow last half of week. Melted totals from less than 0.25 in. Southeast to 1.00 in. Southwest, 0.40 to 0.80 in. most other areas. Several inches new snow northern counties but significant snow depth 4 to 7 in. confined to Northcentral and Northeast.

PUERTO RICO: Rainfall averaged 0.73 in. or about 0.04 in. subnormal. Moderate to heavy showers east--interior and southeast. Light, scattered showers north with little or no rain most south and west zones. Highest weekly total 3.18 in. eastern mountains. Crop moisture conditions about normal all zones except some very dry areas south and interior. Temperatures averaged 75° coast and 70° interior. Extremes: 89°, 50°.

Sugarcane harvest started in north under favorable weather. Coffee zones had good weather for clean up pruning and insect control. Coffee trees flowering some areas. Some tobacco zones active planting. Pastures excellent north and east due rains but growth retarded by short days. Pastures drying up in parts of southwest and interior. Favorable weather for minor crops but lack of rain affecting some areas in southwest and interior. Good abundance of vegetables, bananas, plantains and pigeon peas in northcentral.

SOUTH CAROLINA: Warmer than normal week. Slightly below average early week to unseasonably warm Wednesday, Thursday. Day-time highs in 60's, 70's, lows mostly in 40's, 50's, except 30's early week. Rainfall confined to early week with amounts around 0.50 in. west, less than 0.50 in. elsewhere.

Soil generally too wet for fieldwork throughout most of State. Peach tree pruning in full swing. Tobacco seedbed preparation continued. Harvesting limited amounts of mixed greens, cabbage along coast.

SOUTH DAKOTA: Milder weather replaced cold of past several weeks. Temperatures averaged 7° to 24° above normal. Spring-like weather Wednesday and Thursday most areas. Southcentral temperatures in the 70's. Mission had State's high of 75°, Leola in northeast had State's low of 6° below zero. Precipitation limited to higher elevations or Black Hills area, and generally less than 0.05 in.

Warming trend relieved stress on livestock but reduced protective snow cover in major winter wheat areas. Livestock marketing heavy past week.

TENNESSEE: Weak high pressure ridge caused early morning, dense fog and unseasonably warm temperatures. Cold front producing rain moved across State on 20th. Precipitation amounts moderate ranging from 0.33 in. to 1.00 in. across State. Temperatures averaged 14° above normal east and 15° to 20° above normal middle and west. Farm activity restricted to routine chores and care of livestock. Fall sown grain still in good condition.

TEXAS: West Texas had cool nights, record warm days under clear skies while eastern sections blanketed by clouds, fog, above normal rainfall. Temperatures averaged well above normal across entire State even though cool periods common. Cool, dry air brought fair skies west early week. A moist flow off Gulf brought fog and drizzle to east. Daytime warming dissipated most of these clouds daily, but they reformed with dense fog during night and early morning hours. Rainshowers accompanied cold front across State Friday and Saturday, touching off thunderstorms, central and east. Hail reported over central, baseball size stones fell near Temple. It cleared and warmed behind front over weekend.

Wheat made little growth, grazing limited across State. Some grazing available Blacklands, East Texas where moisture adequate for satisfactory growth. Moisture critically short from Edwards



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Plateau to High Plains. Oats responded to warm weather with fair growth but moisture short most areas. Cotton harvest almost complete at 98% harvested, 83% a year ago. Trailer shortages causing problems Low Plains where most farmers picked part of the crop. Seedbed preparations underway southern half. Flax poor growth, much of crop damaged by recent freezing weather. Lower Rio Grande Valley: Harvest of lettuce, cabbage and carrots continued. Onions showed good growth, few acres have adverse effects from freeze. Laredo: Carrots and cabbage being harvested. Onions made satisfactory growth. San Antonio-Winter Garden: Onions made good growth. Spinach, cabbage and carrot harvest remained active. Potato seeding underway in Frio County. Knox-Haskell: Land preparation and fertilization for Irish potato crop underway. High Plains: Land preparation continued for summer vegetables. Citrus harvest continued active. Some fruit reported losing weight due to freeze damage. Fruit droppage beginning to occur in Valencia oranges. On High and Low Plains, livestock moving to feedlots because short grazing. Livestock condition generally good statewide. Feeding underway every area. Pastures holding up well south half.

UTAH: Temperatures rose early in week to well above normal over much of northwest but continued cold in Uintah Basin and southeast. Rain in valleys and snow in mountains persisted late week, changed to snow northwest over weekend. Farmers and ranchers took advantage of thaw to get caught up on some delayed chores but winter returned in full force late week. Some early farm flock lambing may start next week. Care and feeding of livestock main activities. Marketing of potatoes, apples, and dry onions from storage continued.

VIRGINIA: Warmer and milder from midweek with some record daytime highs latter part. Averaged 4° above normal. Extremes: 74° at Kerr Dam, 12° at Bluefield. Rainfall light statewide averaging less than 0.02 in., greatest 0.16 in. at Washington, Va.

Fieldwork averaged 1.2 days. Soil moisture 61% surplus, 39% adequate. Lime and fertilizer spreading and soil testing increasing. Preparations for tobacco plant beds started. Eastern Shore potato land preparation began--potato seed arrivals active. Orchard pruning continued. Livestock feed supply adequate. Calving and lambing active. Winter grains and grazing crops in good condition.

WASHINGTON: West: Temperatures averaged about 5°

above normal. Total precipitation between 2.00 and 8.00 in. Heavy precipitation caused local flooding. Tulip, daffodil fields in good condition Skagit Valley. Harvest forced tulip, daffodils active King-Pierce counties. Forced rhubarb harvest active. Pruning caneberreries. Minimal freeze damage to seed cabbage fields. East: Average temperatures 9° to 15° above normal. Heavy precipitation caused local flooding. Total precipitation between 0.50 and 3.00 in. Snow cover gone. Flood damage many areas. Pruning vineyards, feeding livestock. Some freeze damage to peach buds. Trunk splitting of cherry trees showing.

WEST VIRGINIA: Temperatures above normal 3° in north and eastern panhandle to 6° south. Highs early week 30's and 40's, increasing to 60's and 70's by Sunday. Lows Monday in teens and 20's increasing to 40's and 50's by end of week. Charleston had spring-like, sunny 73° Sunday afternoon. Precipitation mostly light, scattered showers with no significant accumulation.

Excellent week for farmers to make fence repairs and other outdoor chores. Soils too wet for any plowing. Mild weather helping stretch feed supplies.

WISCONSIN: Weather turned mild and many places had January thaw. Temperatures averaged 10° to 40° above normal, no below zero readings recorded. Warmest Wednesday, parts south in the 50's.

Precipitation light Monday through Friday with extreme north getting 1 to 2 in. Snow Monday and southern areas less than 0.10 in. drizzle Friday. Heavier precipitation statewide on weekend. Weekly total precipitation ranged from near 0.50 in. water equivalent northwest to 1.25 in. southeast. Frost depths increased first half January to average 1 ft. statewide. Snow depths settled substantially south half during thaw but showed little change north. Average snow depth statewide 6 in.

WYOMING: Unseasonably warmer temperatures statewide. Early week temperatures below normal. Warmer air then moved eastward bringing very little moisture, except few rain or snow showers higher elevations. Below normal precipitation most areas. Considerable amount of snow cover melted over flatlands. Most lower elevation stations in open areas have no snow cover.

Livestock feeding continued, but ranges clear and more range feed available. Livestock gained back some of weight lost during cold weather. High winds caused some damage to buildings and haystacks. Also some soil blowing. Winter wheat looks good.