

Weekly Weather & Crop Bulletin

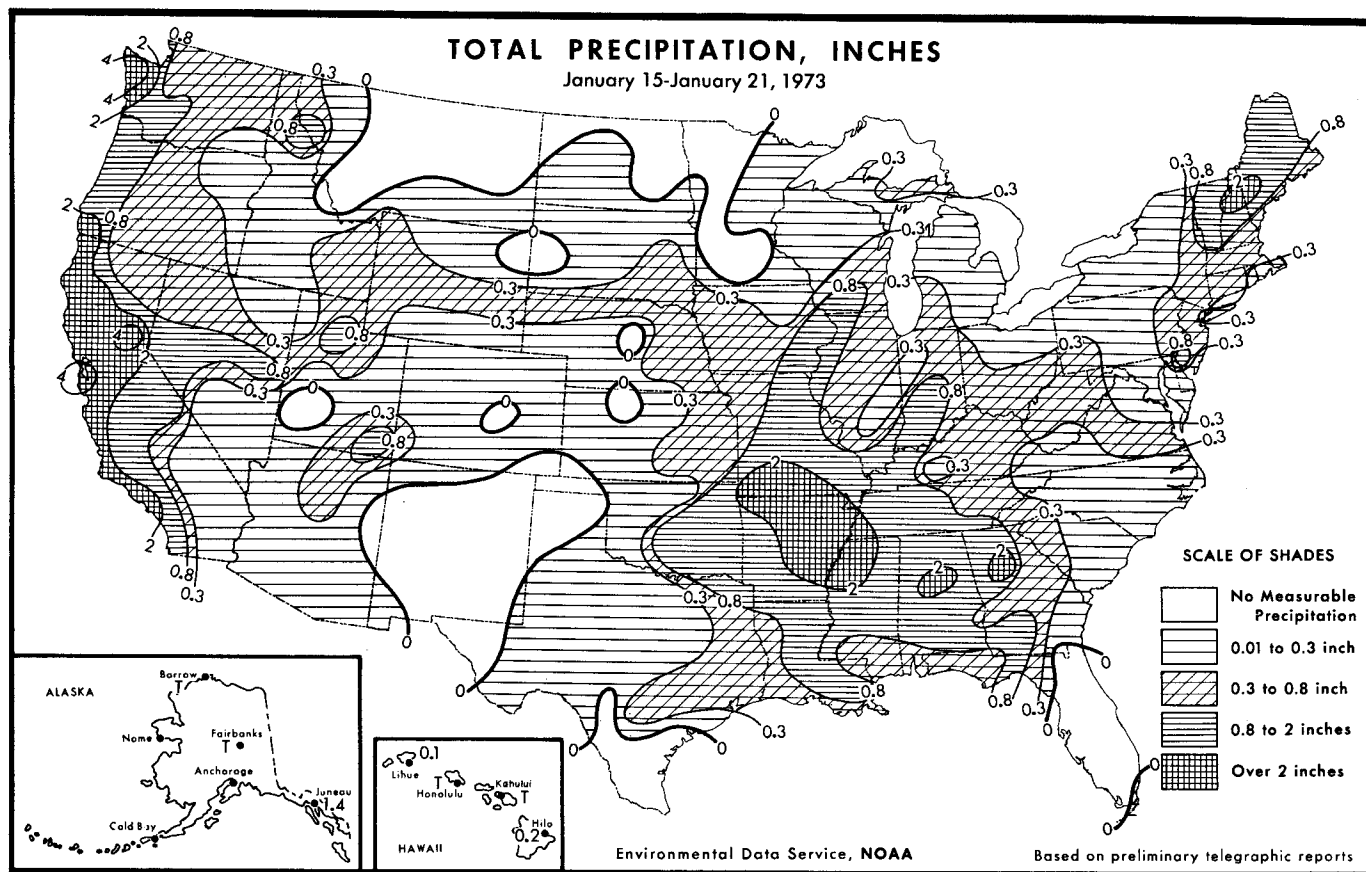
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Edited by Lucius W. Dye

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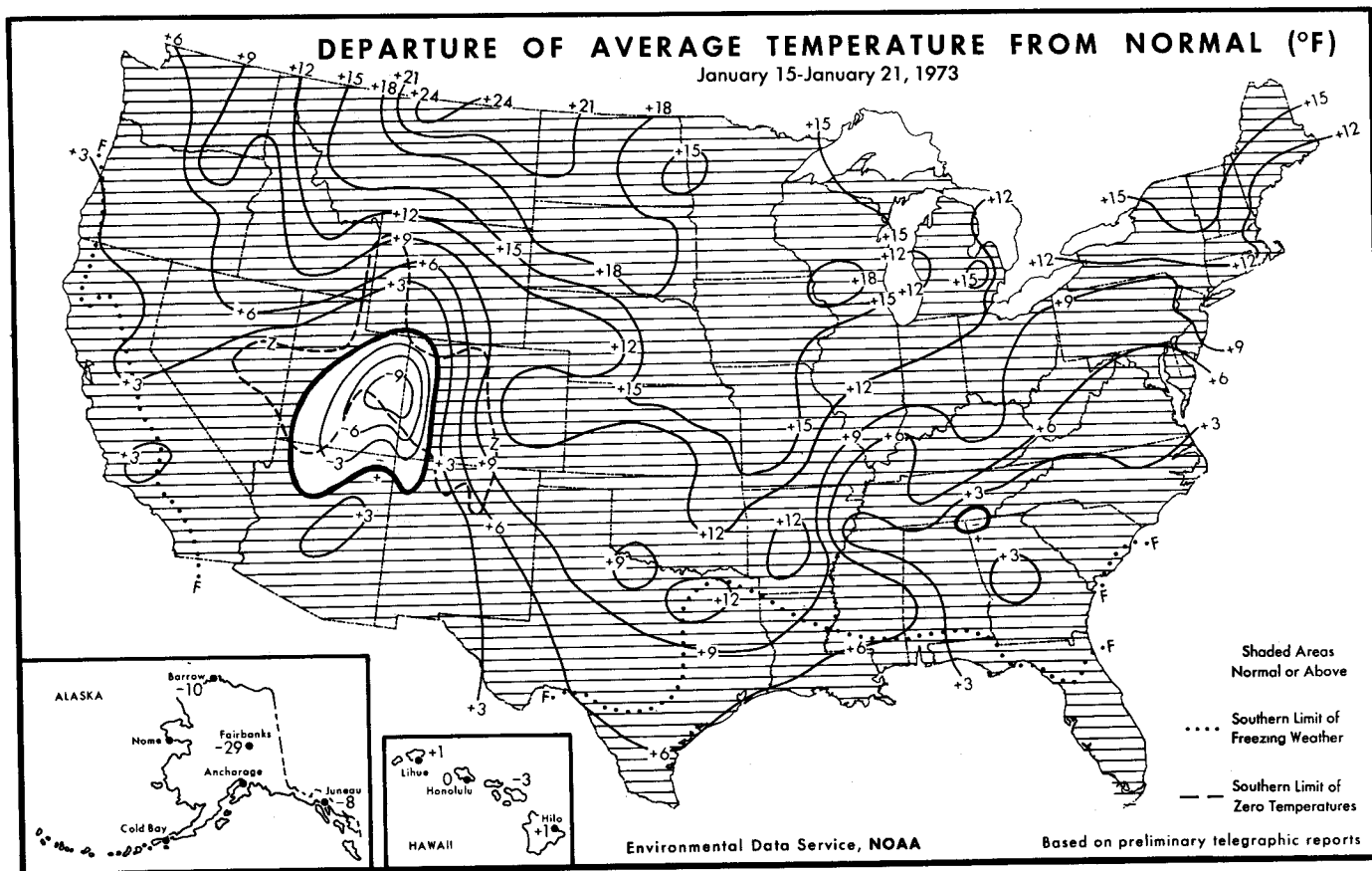
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Most of the Nation averaged warmer than normal. Heavy rains fell over parts of the Far West. Tornadoes dotted parts of the South.

PRECIPITATION: A Pacific storm caused gales to the northern Pacific Coast early in the week. The storm intensified bringing rain, heavy at times, to the Oregon and California Coast and heavy snow accompanied by gales inland. By midweek, the precipitation area covered the western third of the Nation. Rain fell along the coast and over the Intermountain Region with snow in the higher elevations and eastward to the Continental Divide. As

the rain and snow slackened Wednesday afternoon and evening, another Pacific storm brought more rain and wind to the western coast. The rains swelled many California rivers and streams.

Snow fell in the central and southern Rocky Mountains and from the northern Great Plains to New England late in the week. Freezing rain fell in the central Great Plains. Numerous tornadoes and severe thunderstorms occurred Saturday from Texas to Arkansas and Mississippi. Heavy showers accompanied some of the storms in Missouri and Arkansas Saturday.



TEMPERATURE: Pockets of cold air persisted west of the Continental Divide early in the week. Green River, Utah, registered 9° below zero Monday morning, January 15. Subfreezing weather prevailed over most of the Great Basin. The West warmed, however, by midweek.

A large High centered over the western portion of the Gulf of Mexico Monday, January 15, crossed the southeastern States to the middle Atlantic Coast by midweek. It brought sunny skies and mild temperatures to mid-America early in the week and to most of the eastern half of the Nation by Wednesday. Rapid City warmed to 66° Monday and Tuesday afternoons and Baltimore, Md., registered 66° Wednesday afternoon.

The warm temperatures melted the snow rapidly, and by Wednesday morning about the only snow left over the eastern half of the United States lay

from North Dakota to New England.

Winter temperatures returned to the northern Great Plains late in the week. A number of stations in northeastern North Dakota and northern Minnesota registered subzero temperatures Saturday morning. Bemidji, Minn., recorded -9°. The cold spread to the Northeast and temperatures in northern New England remained below freezing Saturday and Sunday afternoons. Subzero weather returned to the high Rocky Mountains Sunday morning.

Weekly mean temperatures averaged above normal over most of the Nation. The main exception was a pocket of air over the Colorado River Valley in southeastern Utah and western Colorado where temperatures averaged 3° to 9° colder than normal. Much of the northern and central Great Plains averaged 15° to 25° warmer than normal.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Mild weather boosted winter wheat growth in the southern Plains and gave livestock a break from winter's severe cold. * Corn harvest nearing completion. * Slow soybean harvest progress continues in most States having unharvested acreage.

SMALL GRAINS: Winter wheat greened and made limited growth in Kansas and Oklahoma under unseasonably mild weather. The warmer temperatures melted snow making wheat fields too soft to graze, but boosting soil moisture. Wheat and oats in Texas are recovering slowly from the record low subfreezing temperatures of the previous week -- melting ice and snow have provided adequate to surplus moisture in most areas. In Colorado, winter wheat and barley are in good to excellent condition with adequate soil moisture. Snow-cover protection for Montana winter wheat is poor, but wind damage has been light. In Washington some acreage of winter wheat is coming out of dormancy -- soil moisture is adequate, except where frozen ground limited penetration of water into the soil.

COTTON: Fair weather early last week in the South permitted several days of cotton harvesting on remaining acreage. Rain later in the week halted harvesting activities. Cotton harvesting resumed in Texas late in the week, but progress was nil at 83 percent complete and more dry weather is needed for full-scale harvesting. About 25 percent of the acreage remains to be harvested in Missouri and Oklahoma while the Mississippi cotton harvest is 90 percent complete. Farmers in other Southern States are trying to wrap up cotton picking for the remaining 5 percent of unharvested acreage, but rain the past weekend idled equipment for several days. Cotton harvesting is complete in Arizona, but rain delayed harvest completion in California.

OTHER CROPS: The Nation's corn harvest made limited headway under mild weather last week at about 95 percent complete compared to 93 percent a week earlier. Harvesting advanced to 95 percent complete in the North Central States and to 98 percent complete in the Southern States. Warm temperatures in the eastern Corn Belt thawed fields and slowed harvesting about midweek.

About 10 percent of the corn acreage remains to be picked in Ohio, Indiana and Missouri; a greater percentage remains in Michigan. Harvesting in other States is either complete or in the mopup stage for scattered fields. Soybean harvesting continued at a very slow pace increasing to about 92 percent complete for the Nation compared with 90 percent a week earlier. The soybean harvest advanced to about 95 percent complete in the North Central States and to 87 percent complete in the South. About one-fourth of the soybean acreage is estimated yet to be combined in Michigan, Mississippi, Tennessee, and

Oklahoma while Ohio, Indiana, Missouri, Kansas, Arkansas, Louisiana, Virginia, and the Carolinas have roughly 10 percent remaining for harvest. Soybean harvesting is complete or nearing completion in other States. Sorghum grain harvesting of remaining fields made very little progress in the Central Plains. Cool weather benefited sugarcane in Florida; harvest is about completed in Louisiana and is increasing in Hawaii. Tobacco stripping in Maryland and Delaware is ahead of normal because of humid weather. Tobacco plant bed preparation continues in the Carolinas while planting of beds has started in Georgia.

Fruits: Florida citrus trees continue in excellent condition with only slight foliage burn from the January 14 frost. Fruit condition has not been materially affected by the cold. The Texas citrus harvest is back in full swing; cold weather coupled with rain aided in both coloring and sizing of fruit. Valencia orange harvest is just getting underway in the Yuma, Arizona area while the lemon harvest is nearing completion. Rain and wet conditions slowed navel orange harvesting in California. Harvesting is expected to become more active in the San Joaquin Valley; damaged fruit is dropping and cullage continues high. Frost damage hampered citrus grading and packing in southern California as picking increased. Pruning of fruit trees continues active in many States.

Vegetables: The January 14 cold spell did only minor damage to Florida vegetables. Tomato supplies are at a low level, but should increase around February; most other commodities are in normal seasonal supply. Vegetable harvesting in Texas is gaining back momentum lost from adverse weather a week earlier. Most onions in the Lower Rio Grande Valley escaped damage from the cold weather as did the lettuce crop at Laredo. Harvesting of lettuce and other mixed vegetables continued in the Yuma, Arizona area. Wet, cool weather slowed vegetable harvesting in some areas of California; some loss of broccoli and cauliflower may result. Lettuce cutting is increasing in the Imperial Valley.

PASTURES AND LIVESTOCK: Unseasonably mild weather brought relief to livestock under stress from several weeks of severe cold.

Care and feeding of livestock continued to be a major agricultural activity. Muddy feedlots are causing problems and muddy conditions have greatly restricted grazing of winter wheat and small grain pastures.

However, livestock remain in fair to good condition in most areas with supplemental feeding continuing.

Arlon M. Scott
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., Jan. 21, 1973

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 . . .	49	+ 2	2.9	+1.8	New Orleans . . .	58	+ 3	.8	-.1	OKLA,Okla. City . .	48	+11	1.0	+ .7
Mobile . . .	58	+ 5	.5	-.6	Shreveport . . .	57	+10	.6	-.5	Tulsa . . .	49	+13	1.0	+ .6
Montgomery . . .	52	+ 3	1.0	+ .1	MAINE,Caribou . . .	27	+16	.8	+ .3	OREG,Astoria . . .	44	+ 4	1.1	-1.6
ALASKA,Anchorage . .	---	---	---	---	Portland . . .	32	+10	.5	-.5	Burns . . .	30	+ 5	.5	+ .1
Barrow . . .	-27	-10	T	0	MD,Baltimore . . .	40	+ 5	.3	-.5	Medford . . .	39	+ 4	.6	-.1
Fairbanks . . .	-41	-29	T	-.2	MASS,Boston . . .	41	+11	.4	-.5	Pendleton . . .	42	+11	.1	-.2
Juneau . . .	17	- 8	1.4	+ .5	Chatham . . .	36	---	T	---	Portland . . .	43	+ 5	.9	-.3
Nome . . .	---	---	---	---	MICH,Alpena . . .	32	+12	.2	-.2	Salem . . .	43	+ 5	1.4	-.1
ARIZ,Flagstaff . . .	27	0	.7	+ .3	Detroit . . .	37	+11	T	-.4	PA,Allentown . . .	38	+ 9	.5	-.2
Phoenix . . .	53	+ 3	.1	0	Flint . . .	38	+16	T	-.4	Erie . . .	39	+14	.4	-.2
Tucson . . .	50	0	T	-.2	Grand Rapids . . .	36	+12	.5	+ .1	Harrisburg . . .	39	+ 7	.2	-.4
Winslow . . .	35	+ 4	.1	0	Houghton Lake . . .	33	+14	.2	-.2	Philadelphia . . .	40	+ 8	.5	-.2
Yuma . . .	55	+ 1	T	-.1	Lansing . . .	37	+13	.1	-.4	Pittsburgh . . .	37	+ 8	.4	-.3
ARK,Fort Smith . . .	49	+ 9	1.4	+ .8	Marquette . . .	33	+14	.3	-.1	Scranton . . .	36	+ 8	.3	-.3
Little Rock . . .	53	+13	2.8	+1.6	Muskegon . . .	36	+10	.3	-.2	R.I,Providence . . .	41	+12	.2	-.7
CALIF,Bakersfield . .	51	+ 4	1.2	+ .9	S.Ste,Marie . . .	29	+13	.6	+ .1	S.C,Charleston . . .	53	+ 3	.2	-.3
Eureka . . .	48	+ 1	3.0	+1.5	MINN,Duluth . . .	24	+16	T	-.3	Columbia . . .	49	+ 2	.2	-.5
Fresno . . .	47	+ 1	1.0	+ .5	Internatl Falls . .	19	+16	0	-.2	Greenville . . .	46	+ 2	.4	-.5
Los Angeles . . .	55	0	3.7	+3.1	Minneapolis . . .	29	+17	T	-.2	S.DAK,Aberdeen . .	28	+18	.2	+ .1
Red Bluff . . .	46	+ 1	2.4	+1.4	Rochester . . .	30	+17	T	-.2	Huron . . .	33	+21	.6	-.5
San Diego . . .	56	+ 1	.9	+ .5	St. Cloud . . .	25	+15	T	-.2	Rapid City . . .	40	+18	T	-.1
San Francisco . . .	50	+ 1	4.5	+3.6	MISS,Jackson . . .	56	+ 8	1.0	-.1	Sioux Falls . . .	31	+17	.3	+ .1
Stockton . . .	49	+ 4	2.7	+2.1	Meridian . . .	55	+ 7	1.6	+ .6	TENN,Chattanooga .	41	- 1	1.7	+ .4
COLO,Denver . . .	40	+12	.9	+ .8	MO,Columbia . . .	44	+15	1.6	+1.2	Knoxville . . .	45	+ 3	.6	-.5
Grand Junction . . .	17	- 9	.2	+ .1	Kansas City . . .	46	+15	.7	+ .3	Memphis . . .	44	+ 2	2.4	+1.0
Pueblo . . .	42	+12	T	-.1	St. Louis . . .	43	+11	.7	+ .3	Nashville . . .	48	+ 8	1.1	-.2
CONN,Bridgeport . . .	37	+ 7	.4	-.4	Springfield . . .	48	+15	2.8	+2.3	TEX,Abilene . . .	53	+ 9	.1	-.1
Hartford . . .	40	+12	.5	-.3	MONT,Billings . . .	37	+15	.1	0	Amarillo . . .	46	+10	0	-.1
D.C.Washington . . .	42	+ 5	.3	-.4	Glasgow . . .	30	+21	T	-.2	Austin . . .	59	+ 9	.3	-.3
FLA,Apalachicola . .	57	+ 2	1.2	+ .5	Great Falls . . .	39	+18	0	-.2	Beaumont . . .	58	+ 4	.5	-.5
Ft. Myers . . .	65	+ 2	0	-.4	Havre . . .	38	+25	0	-.1	Brownsville . . .	65	+ 4	0	-.3
Jacksonville . . .	56	0	0	-.6	Helena . . .	34	+16	T	-.1	Corpus Christi . .	63	+ 6	0	-.3
Key West . . .	70	0	T	-.4	Kalispell . . .	33	+14	.1	-.2	Dallas . . .	58	+13	.2	-.3
Lakeland . . .	63	+ 1	0	-.5	Miles City . . .	34	+18	0	-.1	Del Rio . . .	58	+ 6	T	-.2
Miami . . .	69	+ 2	.3	-.2	Missoula . . .	33	+15	.1	-.1	El Paso . . .	---	---	---	---
Orlando . . .	63	+ 2	.3	-.2	NEBR,Grand Island .	36	+14	.3	+ .2	Fort Worth . . .	57	+12	.3	-.1
Tallahassee . . .	54	0	1.0	+ .2	Lincoln . . .	37	+12	T	-.2	Galveston . . .	61	+ 6	.3	-.6
Tampa . . .	62	+ 1	0	-.5	Norfolk . . .	35	+16	.6	+ .4	Houston . . .	59	+ 8	.4	-.5
GA,Atlanta . . .	48	+ 3	2.1	+1.1	North Platte . . .	33	+ 9	T	-.1	Lubbock . . .	48	+ 9	.2	0
Augusta . . .	49	+ 1	.3	-.4	Omaha . . .	37	+16	.5	+ .3	Midland . . .	50	+ 6	.4	+ .2
Macon . . .	53	+ 4	.3	-.5	Valentine . . .	35	+15	.4	+ .3	San Angelo . . .	54	+ 7	.1	-.2
Savannah . . .	54	+ 2	.2	-.4	NEV,Ely . . .	24	+ 2	.9	+ .7	San Antonio . . .	60	+ 8	.3	-.1
HAWAII,Hilo . . .	72	+ 1	.2	+2.6	Las Vegas . . .	45	+ 2	.3	+ .2	Victoria . . .	62	+ 7	0	-.5
Honolulu . . .	73	0	T	-.8	Reno . . .	33	+ 3	1.1	+ .8	Waco . . .	57	+ 9	.1	-.4
Kahului . . .	69	- 3	T	-1.0	Winnemucca . . .	33	+ 6	.4	+ .1	Wichita Falls . . .	51	+ 8	.2	-.1
Lihue . . .	72	+ 1	.1	-1.1	N.H,Concord . . .	34	+13	.7	0	UTAH,Blanding . . .	23	- 3	1.0	+ .8
IDAHO,Boise . . .	37	+ 8	.1	-.2	N.J,Atlantic City . .	44	+ 9	.3	-.5	Salt Lake City . . .	28	+ 2	1.0	+ .7
Lewiston . . .	38	+ 8	.1	-.1	Trenton . . .	42	+ 9	.3	-.4	VT,Burlington . . .	33	+17	1.2	+ .7
Pocatello . . .	31	+ 9	.4	+ .1	N.MEX,Albuquerque .	35	0	T	-.1	VA,Lynchburg . . .	42	+ 4	.3	-.5
ILL,Cairo . . .	46	+ 8	1.9	+1.0	Roswell . . .	---	---	---	---	Norfolk . . .	45	+ 4	.4	-.3
Chicago . . .	39	+13	.6	+ .2	N.Y,Albany . . .	37	+14	.6	+ .1	Richmond . . .	44	+ 5	.3	-.5
Moline . . .	39	+17	1.6	+1.2	Binghamton . . .	35	+11	.3	-.3	Roanoke . . .	43	+ 5	.3	-.4
Peoria . . .	38	+13	.4	-.1	Buffalo . . .	37	+12	.1	-.5	WASH,Colville . . .	33	+10	.7	+ .3
Rockford . . .	37	+15	.5	0	New York . . .	44	+10	.2	-.6	Omak . . .	29	+ 8	.4	+ .1
Springfield . . .	40	+12	.4	0	Rochester . . .	38	+12	T	-.6	Quillayute . . .	44	+ 5	4.5	+1.0
IND,Evansville . . .	40	+ 6	1.2	+ .3	Syracuse . . .	37	+13	.1	-.6	Seattle-Tacoma . . .	43	+ 5	.8	-.5
Fort Wayne . . .	39	+12	.5	-.1	N.C,Asheville . . .	42	+ 2	.6	-.1	Spokane . . .	35	+10	.7	+ .1
Indianapolis . . .	41	+12	1.0	+ .3	Charlotte . . .	44	+ 1	.2	-.6	Walla Walla . . .	45	+12	.2	-.2
South Bend . . .	40	+14	.4	-.1	Greensboro . . .	42	+ 2	.2	-.6	Yakima . . .	33	+ 6	.4	+ .1
IOWA,Burlington . . .	38	+14	1.3	+ .9	Hatteras . . .	47	0	.2	-.7	W.VA,Beckley . . .	39	+ 5	.2	-.8
Des Moines . . .	37	+17	.4	+ .1	Raleigh . . .	45	+ 3	.2	-.5	Charleston . . .	42	+ 5	.4	-.6
Dubuque . . .	35	+16	.9	+ .5	Wilmington . . .	50	+ 2	.2	-.4	Huntington . . .	45	+ 8	.3	-.6
Sioux City . . .	35	+17	.5	+ .3	N.DAK,Bismarck . .	27	+18	.1	0	Parkersburg . . .	40	+ 6	.5	-.3
KANS,Concordia . . .	42	+16	.2	0	Fargo . . .	20	+14	T	-.1	WIS,Green Bay . . .	34	+17	.8	+ .5
Dodge City . . .	41	+11	T	-.1	Williston . . .	29	+22	T	-.1	La Crosse . . .	33	+17	.3	0
Goodland . . .	39	+12	T	-.1	OHIO,Akron-Canton .	37	+ 8	.1	-.6	Madison . . .	35	+18	.8	+ .5
Topeka . . .	44	+16	.8	+ .6	Cincinnati . . .	41	+ 9	.4	-.4	Milwaukee . . .	36	+16	.4	0
Wichita . . .	43	+11	.6	+ .4	Cleveland . . .	39	+11	.1	-.5	WYO,Casper . . .	32	+ 9	.4	+ .3
KY,Lexington . . .	45	+10	.4	-.8	Columbus . . .	39	+ 9	.7	0	Cheyenne . . .	34	+ 9	T	-.1
Louisville . . .	44	+ 9	.7	-.2	Dayton . . .	40	+11	.3	-.5	Lander . . .	22	+ 3	.7	+ .6
LA,Baton Rouge . . .	58	+ 5	1.3	+ .2	Toledo . . .	38	+12	.2	-.4	Sheridan . . .	34	+13	T	-.2
Lake Charles . . .	59	+ 5	.4	-.6	Youngstown . . .	35	+ 8	.2	-.6	P.R. San Juan . . .	79	+ 4	1.0	-.1

* Departures are from 30-year means (1931-60).

Based on preliminary reports

CONDENSED STATE SUMMARIES

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

ALABAMA: Mostly fair until showers and thunder-showers Thursday night. Fair Friday and Saturday but widespread locally heavy thunderstorms Sunday dumped 1.00 to 2.00 inches most of State. Week averaged 19° warmer than last week statewide. Below freezing north and central Tuesday morning but general warming thereafter, 70's common Thursday, highest 76° at Dothan. Open weather early in week enabled farmers to harvest a little cotton, corn and soybeans, shred cotton stalks and turn land in driest fields. Rains on Thursday and again over weekend caused further delay of those activities. Quality of remaining cotton, corn, and soybeans is deteriorating very rapidly. Small grains and winter grazing crops made good recovery from cold weather of previous week. Freeze damage to these crops thought to be generally light. Grazing limited to few days first of week. Livestock remained in fair to good condition as stockmen continued heavy feeding.

ARIZONA: Temperatures were much above normal at beginning of week but dropped to near normal after Monday and fell much below normal in most sections on weekend. Precipitation during week was widespread with snow above about 4,000 feet. Heaviest precipitation fell in San Francisco Mountains and in White Mountains where Hawley Lake reported 35 inches of snow on ground Saturday morning. Sub-freezing temperatures in colder sections of both Salt River Valley and Yuma area Sunday morning. Cotton harvest virtually complete. Grain sorghum harvest complete. Sugar beet planting progressing well, top and root development well advanced. Small grain, safflower planting progressing normally, early-planted fields up to stand. Alfalfa hay harvest at seasonal low, some damage done by low temperatures. Harvest lettuce, other mixed vegetables continued in Yuma area. Harvest lettuce virtually complete in Salt River Valley. Lettuce for late harvest progressing Yuma area. Preparations cantaloupe planting well advanced Yuma area. Lemon harvest nearing completion Yuma area. Limited grapefruit harvest continued Yuma, Salt River Valley. Harvest navels, sweets continued. Valencia harvest just underway Yuma area. Arizona ranges received rain, snow past week. Higher elevation ranges snow covered, desert ranges green. Feed prospects excellent. Cattle, calves good condition; no unusual death losses due to winter. Sheep, lambs fair to good.

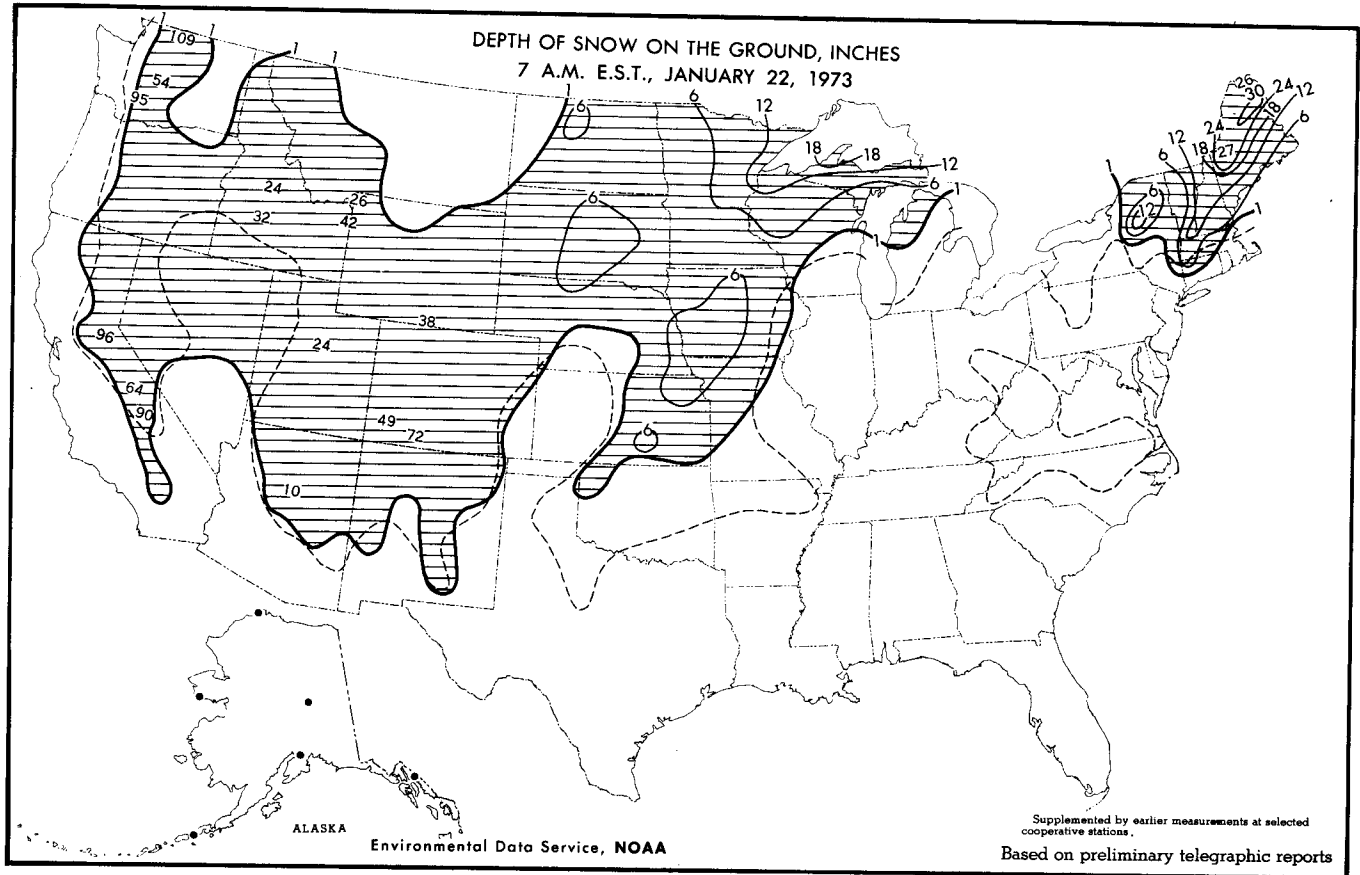
ARKANSAS: Temperatures much above normal with departures ranging from 11° to 16°. Greatest departures in northwest and north-central sections. Mild temperatures through week turning cooler on weekend. Lowest 23° at Calico Rock and Gilbert on 16th. Highest 72° at Little Rock, Texarkana, Camden, and El Dorado on 18th. Precipitation 3.00 to 4.50 inches in band 50 to 75 miles wide extending from central section to northeast corner of State. Elsewhere precipitation 1.00 to 2.50 inches with smallest amounts along southern border. Most precipitation occurred as rain in latter part of week and on weekend. Some light snow northeast on weekend. Limited harvest early in week, but progress not advanced much over previous week. Cotton picking about 95% complete and combining soybeans 88% finished. Additional precipitation later in

week will keep fields soft and further delay any fieldwork. Small grains fair to good condition. Moderate temperatures compared with a week earlier lessened the job of caring for livestock and poultry.

CALIFORNIA: Heavy rains north of Tehachapis, reaching into southern coast range. Light amounts desert. Precipitation totals for week 2.00 to 5.00 inches most areas, and for 2-week storm period ranged from 15.00 inches North Bay Counties and central Sierra Nevada to 7.00 inches Sacramento Valley and central coast. San Joaquin Valley and south coast 2.00 to 5.00 inches. Local flooding, mudslides, damaging winds several areas. Average temperatures several degrees above normal, much colder over weekend. Rainfall slowed field activities. Planting as conditions permit: Alfalfa, wheat, barley. Harvesting cotton, sugarbeets, milo. Heavy rains retarded winter operation. Navel orange harvest slowed, wet ground. Activity San Joaquin expected increase; damaged fruit dropping, cullage continues high. San Joaquin lemons continue byproducts. Leafburn defoliation continues problem. Grading, packing southern California hampered by frost damage; picking increases. Harvest grapefruit, tangerines desert valleys continues as weather permits. Tying, pruning grape vines continue lighter. Light cutting asparagus continues Coachella Valley, beginning Imperial Valley with good quality. Broccoli and cauliflower harvest limited Salinas, San Francisco Bay due wet and flooded fields; some loss may result due to flooding. Celery cutting slowed due to cool weather, rains Oxnard, southern California areas. Carrot digging active desert, southern San Joaquin Valley. Lettuce cutting increasing Imperial, early Blythe deal complete. Potato digging Stockton, other San Joaquin Valley slowed from rains. Limited strawberry picking underway San Diego. Field preparation cannery tomato curtailed wet fields. Soil moisture, stockwater adequate. Grass growing in Sacramento, San Joaquin Valleys and southern California. Some supplemental feeding required. Calving active, lambing progressing. Turkey brooder houses and ranges being prepared for upcoming season.

COLORADO: Clear, sunny, and warm most of week. East of foothills temperatures averaged 10° to 18° above normal. Temperature departures from normal were mixed in the mountains from +10° at Craig to -11° at Grand Junction. Light to moderate snow midweek in mountains, major east slope snow storm on 20th dropped 7 to 14 inches of snow in the Denver and foothills areas. Harvest of corn and sorghum grain made good progress, although hampered by muddy fields. Soil moisture supplies adequate statewide. Winter wheat and barley good to excellent condition, limited acreage utilized for livestock grazing. Ranges and pastures poor to fair. Crop residue now available to livestock southeast and east-central areas as most snow has melted. Supplemental feeding of livestock continued heavy many areas. Livestock conditions poor to fair.

FLORIDA: Temperatures normal as easterly winds Wednesday brought moderate temperatures throughout State after hard freeze on weekend of 13th and



14th. Only widely scattered showers with most sections receiving below 0.10 inch except near 0.30 inch in Panhandle. Fieldwork slowed by adverse weather. Cooler weather aided sugarcane. Utilization of temporary winter pastures on increase. Freeze of January 13 and 14 browned permanent pasture grasses well into south Florida. Some temporary winter pasture fields north and west too soft for grazing. Cattle and calves fair to good condition. Citrus trees continue excellent, only slight foliage burn from January 14 frost. Fruit condition not materially affected by cold, moisture adequate all citrus areas. Damage to vegetables from January 14 cold spell generally minor. Some outer leaf burn to salad crops in Everglades, Zellwood, Sarasota areas. Sizable acreage watermelons in Wauchula area to be replanted. Weather favorable for recovery from the cold. Total supplies should be increasing this week, next. Cabbage in good seasonal volume. Tomato supplies at low level, should increase around February 1. Digging of red potatoes in Everglades, Martin County increasing. Ft. Myers district expected start about February 1. Most other commodities in seasonal supply. Watermelon planting decreasing in southwest. Planting and replanting active in central areas.

GEORGIA: Sunny most of week with brief periods of rain early Friday and Sunday night. Totals varied from less than 0.50 inch on lower coast to over 2.00 inches in west-central and much of north. Cool beginning of period, mild to warm remainder of week. Highs reached 70's in south and central on 1 or more days. Averages ranged from 4° to 6° above normal and 17° to 20° higher than previous week. Soil moisture adequate to excessive prior

to weekend, returned to excessive after weekend rains. Land preparation delayed most areas. Small grains fair to good, topdressing underway. Tobacco beds being planted. Condition of live-stock and poultry about normal.

HAWAII: Clear, dry weather all major crop areas. Cool night temperatures retarding growth and maturity. Irrigation heavy most areas. Progress of crops fair to good with light insect and disease damages. Harvesting of vegetables and fruits steady. A gradual increase in sugarcane and pineapple harvesting. Soil moisture adequate most pastures. Cattle continued fair to good condition.

IDAHO: Warmer with areas of much above normal precipitation. Temperatures returned to above normal averaging as much as 18° above normal in the Pocatello area; the range was 7° to 18° above normal. Precipitation was variable from a trace at Aberdeen to 1.98 inches at Ketchum-Sun Valley. Greatest amounts were in southwest valleys and central mountains northward. Precipitation was in the form of rain below 5,000 to 6,000 feet. Mud continues to be a problem in feed lots, a few calving losses due to scours. Frost and mud preventing fieldwork. Feed supplies adequate. Some soil erosion due to rains in north.

ILLINOIS: Mild week with temperatures ranging 8° to 17° above normal. By midweek, maximum temperatures were getting into 50's over all of State and to around 60° extreme south. Precipitation was in form of rain, most of it coming late in week. Largest amounts were in the extreme south where reports of around 1.00 inch were common. Around 0.50 inch or less fell over rest of Illinois.

More rain spread across State weekend. Soil moisture adequate to surplus. Feedlots muddy most areas because of warmer weather. Main activities finishing corn and soybean harvests, routine farm chores.

INDIANA: Warm with rain of 0.25 to 0.75 inch on 18th and 21st. Temperatures averaged near 40°, normal is about 30°. The State high was 64° on 18th, the low was 23° on 21st. Soils are thawed except for shallow frozen layers in north. Week partly sunny early but cloudy last half. Few days early in period suitable for fieldwork. Thawing of soils at midweek mostly stopped harvesting activity. Corn 90% harvested, 8 weeks behind 1971. Soybeans also 90% combined, 9 weeks behind 1971.

IOWA: Temperatures averaged 14° to 17° above normal. Warmest 17th and 18th with maxima to 59° at Mount Ayr. Rain fell 18th over east. Snow cover virtually gone by 21st when a snow storm spread into Iowa. Six to 9 inches new snow over southwest quarter State northward into some north-central counties. Lesser snow amounts in easternmost counties where ground was bare through 21st.

KANSAS: Fair and unseasonably warm until major storm arrived late in week. Temperatures averaged over 10° above seasonal. Daily maxima in 60's part of State before storm hit 21st. Moderate to heavy precipitation late in week south-central and east 1/3 of Kansas. Totals that area generally 0.50 to 2.00 inches and from south-central to northeast had 5 to 9 inches snow. Depth of snow south-central and eastern Kansas generally 2 to 7 inches at end of period. No significant precipitation western 1/3 and western portions central and north-central. Mild temperatures gave livestock break from earlier severe weather, but muddy fields greatly restricted grazing. Wheat greened and made limited growth as snow disappeared from fields and soil moisture was generally ample. A little nitrogen was applied to wheat early in week. Sorghum grain, soybean, and corn harvest made limited progress. Livestock care difficult as thawing temperatures caused muddy feedlots, pastures, fields, and roads. Supplemental feeding continued heavy as mud limited use of wheat and other pasture. Calving, farrowing, lambing aided by above-normal temperatures. Snowstorm weekend again caused livestock problems, but temperatures not severe.

KENTUCKY: Temperatures averaged 6° to 12° above normal, 20° warmer than preceding week. Rainfall 1.00 to 2.50 inches west, 0.10 to 0.70 inch balance. Three to 5 days mostly sunny, depending on location. Maximum temperatures in 60's 17th and 18th. Rain most sections 18th and 21st. A few light snow flurries northern Bluegrass on 20th. Temperatures mild, but agricultural activity less than previous week, when many western Kentucky farmers were taking advantage of frozen fields to harvest soybeans. Yield reduced on late harvested soybeans, but price very favorable. Many burley markets closed - still a few growers stripping. Livestock satisfactory condition - rather heavy demand supplemental feed.

LOUISIANA: Mild, sunny weather most of week provided relief from wintry seige of previous period. Temperatures averaged 6° to 11° above normal. Rainfall moderate with showers some areas Thursday and statewide Saturday and early Sunday accompanied by strong gusty winds. Weekly rain totals mostly 0.50 to 1.50 inches. Temperature extremes: 76° at Leesville and Shreveport Thursday and 29°

at Cotton Valley Tuesday. Greatest 1-day rain total, 1.55 inches measured at Alexandria Sunday morning. Fieldwork limited by saturated soil and high humidity despite mostly sunny weather. Some scattered harvest of cotton and soybeans. Harvest of sugarcane about completed. Between 5% to 10% of cotton and soybeans still in field; doubtful if all will be harvested. Strawberry plants in good condition. Winter pastures improving; need top-dressing and sunshine. Pasture feed below average. Supplemental feeding continuing; hay getting short in some areas. Livestock in mostly fair to good condition.

MARYLAND AND DELAWARE: Mild week with temperatures averaging 3° to 6° above normal followed winter's coldest week to date. Extremes mostly upper 50's to mid-60's; 5° to 15°. Precipitation light, mostly 0.33 inch or less. Snow totaling 2 inches or less in western Maryland on 15th. Most corn and soybeans now harvested. Scattered fields remain, but most fields cleaned up during last 2 weeks. Tobacco stripping ahead of normal because of humid weather. Small grains mostly fair to good. Livestock in generally good condition.

MICHIGAN: Mild except briefly cooler late in week. Rain south as period ended. Maximum temperatures mostly in the 40's and 50's. Light rain and snow north after midweek. Temperatures averaged 11° to 14° above normal Upper Peninsula, 11° to 15° above normal over Lower Peninsula with largest departures southwest to Saginaw Bay. Precipitation totals 0.10 to 0.75 inch Upper Peninsula, 0.25 to 0.50 inch Lower Peninsula. Very good progress continues on delayed harvest of soybeans and corn.

MINNESOTA: Exceptionally warm week. Temperatures averaged above normal. Extremes: 48° -9°. Little to no precipitation except snow began late in period and continued. Snowfalls of 4 inches to 8 inches are common in southern and southeast part of State at time of this report. Snow depths generally above 12 inches in northeast and greater than 4 inches across most of State at time of this report.

MISSISSIPPI: Week started sunny and dry. Warming trend. On 18th, severe thunderstorms moved into State with hail up to 1/2 inch and some wind damage. There was one injury in Winston County. Rain at most locations measured Friday up to 1.50 inches with some stations reporting traces or no rain. Over weekend: Rain on 1 or 2 days, Greenwood reported over 3.75 inches; severe weather Saturday and Sunday, reports of scattered wind damages estimated under \$10,000 - small hail, flash flooding with evacuation in Leflore County due to Big Sand Creek levee breakage and considerable damage; a few tornadoes or funnel clouds on Marion-Lamar line, in Scott, Simpson, and Bolivar Counties. No estimates on tornado damages. No deaths or injuries. Mississippi farmers experienced their first extended break of dry weather since late October. An average of 3 days were suitable for fieldwork. Soybean harvest now 76% complete compared with 68% a week earlier. Cotton harvest 90% complete. Feed grain reserves mostly short. Soil moisture mostly surplus.

MISSOURI: Week warmed rapidly bringing springlike weather to all of State. Temperatures ranged from 10° above normal southeast to 15° above normal elsewhere. Many locations reported temperatures in the 60's. All ice and frost eliminated from ground. Showers and thunderstorms spread over all but northwest during last 4 days of period, causing unsea-

sonably heavy rains. Heavier amounts exceeded 2.00 inches in west and 1.00 inch in east. With soft wet fields, only 1 day suitable for fieldwork. Corn 89% harvested, up 3 points from last week. Soybeans 88% harvested, an increase of 5 points from last week. Grain sorghum 89% harvested, up 3 points from a week ago. Cotton 74% harvested up from 73% completed last week. Wheat continued fair to good condition. Top soil moisture 13% adequate and 87% surplus.

MONTANA: Very mild temperatures past week. Temperatures averaged 20° to 25° above normal over north-central and northeast and 13° to 18° above normal elsewhere. Warmest temperatures first of week with slight cooling over weekend. Precipitation again confined to western portion and higher mountains. No snow cover over eastern plains. Snow cover protection poor, but wind damage to winter wheat light. Winter wheat condition good north-central, and northeast, fair to good elsewhere. Grain and concentrate supplies for balance of winter mostly adequate, short portions central and south-central. Hay and roughage supplies adequate elsewhere. Almost all range livestock receiving supplemental feed; shrinkage normal. Grazing open, except difficult portions western 1/3 and north-central. Cattle losses from weather and disease normal north-central, northeast and southwest, less than normal to normal elsewhere. Sheep losses normal southwest, less than normal to normal elsewhere.

NEBRASKA: Dry and unseasonably mild. Temperatures averaged 9° to 18° above normal. Highs in 60's in west on 15th and 16th. Complex winter storm on 20th to 21st deposited 3 to 6 inches of snow across north, and locally 7 inches southeast corner. Freezing rain and drizzle in east. Livestock stress eased. Corn harvesting where field conditions permit, 97% complete. Sorghum harvest 92% complete, but very little harvest taking place. Farm activities limited by muddy fields and lots. Livestock care main activity with grain movement and preparation of tax forms. Warm weather allowed livestock to forage, supplemental feeding still necessary for livestock grazing native pasture. Feed lots extremely muddy, losses continue above average.

NEVADA: Warm week with temperatures all divisions above normal except extreme south near normal. Moderate to heavy precipitation all divisions; Reno 1.04 inches, Austin 1.32 inches. General snowfall north and south-central, from 1 inch at Reno to 9 inches at Austin. Livestock continue to winter in fairly good condition with death losses about normal. Hay stocks on January 1 below each of last 3 years; shortages could develop if winter storms are severe. Stockwater adequate. Planting of radishes unlimited acreage in southern Nevada underway.

NEW ENGLAND: Very warm, dry, and sunny until storm of January 19 to 20 brought widely varying precipitation with most totals from 0.25 to 1.00 inch. Some over 1.00 inch in northern Vermont where rain and melting snow caused some ice jamming in streams with local flash flooding. A few families evacuated from homes in Moretown. Storm changed to snow in most areas before ending, with accumulations of several inches in north and in higher elevations of south. High winds 20th. Temperatures averaged from 11° to 19° above normal except from 5° to 10° above normal coastal areas of south. Unseasonably warm until Sunday. Extensive "January thaw" much of week, with some above-freezing minima even in extreme north. Many new maxima records for date

broken on 18th. Some areas in southeast had no measurable precipitation for 15 days in a row, through January 19. At Boston, Mass., this tied the 102-year record for January.

NEW JERSEY: Mild week with temperatures averaging from 6° to 12° above normal. Readings varied from mid-60's on 18th to low 20's on 22d. The only precipitation was rain which fell on 19th. Inland areas averaged 0.40 inch and coastal division 0.30 inch.

NEW MEXICO: Widely scattered light precipitation most frequent as snow on weekend. Local precipitation totals of 0.50 inch or more in southeast and mountains. Much cooler on weekend. Temperatures averaged 5° to 10° above normal in north-western valleys. Soil preparation, spring planting progressing slowly as weather permits. Cotton quality deteriorating, some fields still standing. Livestock, ranges generally good. Supplemental feeding active.

NEW YORK: Very mild for midwinter. Warming trend 16th with temperatures much above normal through Friday. Maximums low 50's north and 55° to low 60's south 17th through 19th. Syracuse 61° and Dansville 64° Thursday. Minimums in 40's southern half morning of 18th. Cooling to seasonable levels weekend. Minimums 0° to 10° northern half and low to midteens southern Upstate 21st. Storm system 19th produced first significant precipitation since January 4. Storm totals 0.10 to 0.25 inch western half increasing to 0.40 to 0.80 inch Hudson, Champlain Valleys. Weekend snowfall 3 to 5 inches northern half with only traces in south. Little or no snow cover in Great Lakes Snow Belt which is similar to conditions in mid-January.

NORTH CAROLINA: Considerable snow cover at first, but only patches after midperiod. Showers 19th and rain late 21st, continuing. Mostly less than 1.00 inch, but some amounts 1.00 to 3.00 inches west. Temperatures rising, then falling at weekend, averaging near normal. Springlike weather returned and farmers were able to do limited fieldwork. Warm, sunny weather burned away most snow cover. Harvest of remaining soybeans, cotton, some corn on limited basis. Other farm activities during week: Tobacco planted preparation, pruning fruit trees and grapevines, transplanting cabbage, taking farm inventory. Growing small grains good shape, 70% good condition, 30% fair. Hay and feed grain supplies mostly adequate, some shortages mountain areas. Pastures generally fair to good.

NORTH DAKOTA: Unusually mild for midwinter. Sunny and very mild first of week. Change to colder Thursday followed by occasional light snow. Temperatures averaged 16° above normal east to 24° above normal northwest. Precipitation totals trace to 0.15 inch. Snow cover 1 to 7 inches. Temperatures mild, no heavy snows nor blizzards. Weather favorable to livestock. Farmers able to provide health care to livestock, haul feed hays, market their animals. Marketing of grain proceeding as elevator space and rail cars available.

OHIO: Week relatively mild. On 17th and 18th, maximum temperatures climbed into low 60's. Highs after 18th mostly in 30's and 40's. Minimum temperatures ranged from 20's to low 50's which is substantially above normal. Snow fell night of the 14th and morning of 15th. Columbus recorded 3 inches and Zanesville had 2 inches

of snow. Toledo, Findlay, Dayton, and Mansfield each had about 1 inch. Other locations had only a trace. Harvesting of corn and soybeans made some progress during week. Night time temperatures weren't low enough to freeze ground hard enough to permit harvesting in higher soil moisture areas. Warmer temperatures brought concern to farmers and elevator operators who had high moisture corn and soybeans piled on the ground. Other farm activities were care of livestock, repair and maintenance of farm machinery and farm buildings. Some pruning of fruit trees getting underway.

OKLAHOMA: Temperatures averaged 8° to 15° above normal. Precipitation averaged from near 1.00 inch to 1.50 inches over State except in Panhandle which received little or none. Heavy snow January 21 northwest quarter of State with depths up to 14 inches and drifts 2 to 3 feet at Woodward. Wheat made some growth past week under above normal temperatures. Muddy fields prevented or limited grazing as 1/2 counties report excess topsoil moisture. Some cotton harvested southwest and soybeans combined east-central. Weekend rains in all but Panhandle and localized heavy snows northwest will further delay field activity and grazing. No spring oats or barley seeded to date. Warmer weather improved cattle conditions.

OREGON: Daily rains most areas except Monday kept temperatures mild. Temperatures averaged mostly 6° to 10° above normal except 12° to 16° above normal northeast. Weekly minima 17° to 38°, maxima 47° to 62°. Rains totaled 0.20 to 0.50 inch eastside, 2.00 to 5.00 inches from Cascades westward. Calving and lambing continues. Feed supplies adequate most areas. Orchard pruning continues. Some spraying of field crops as weather permits. Market for storage potatoes and onions remains quite active.

PENNSYLVANIA: Very mild week. Maxima 30's and 40's early in week, 50's and 60's midweek, 30's and 40's weekend behind cold front. Minima mostly 20's and 30's until Sunday morning when readings zero to low 20's. Mostly sunny and dry through Thursday. Showers Friday with cold front. Snow flurries west and north Saturday. Fair Sunday. Rain returned to west and central sections early Monday. Weekly temperatures 6° to 10° above normal, except 14° to 15° above normal near Lake Erie. Extremes: 66°, 0°. Total precipitation mostly 0.25 to 0.75 inch, except under 0.25 inch Susquehanna River Valley. Routine winter chores on farms.

Corrected extremes for last week: 46°, -4°.

PUERTO RICO: Rainfall averaged 0.42 inch or about 0.33 inch below normal. Most of western interior and northwest coasts received no rain. Highest weekly total rainfall 2.27 inches eastern mountains. Rest of Island, including south coast, received generally less than 0.50 inch. Crop moisture conditions generally near normal except parts of southern and western interior divisions where lack of rain has retarded normal crop development. Temperatures averaged 78° on coast and 71° interior divisions with mean departure of about 0.5° below normal. Highest maximum 95°, lowest minimum 48°. Sugarcane crop in final maturing stage prior to harvest, but rains in northeast have lowered sucrose content slightly. Good sucrose levels reported all other zones. Coffee plantations good progress in general fieldwork under excellent weather con-

ditions. Tobacco zones in south and interior divisions, dry weather retarding crop growth and some insect damage has begun. Pastures good to excellent all zones except south and northwest where too dry. Eastern zones too wet for normal development. Minor crop zones report planting schedules affected by lack of rain south and northwest and excessive rains northeast. Good pineapple crop under harvest south and good abundance of pumpkins and corn southwest. Lack of rain northwest retarded production of sweet potatoes.

SOUTH CAROLINA: Much of the snow and ice, which came several days earlier, was still on the ground as the week began. 0.25 inch of rain in northwest during night of 18th removed the remainder of snow. The rest of State had little or no rain. Temperatures were about 2° below normal. Fair weather enhanced drying conditions, but most fields still too wet for harvesting and land preparation. Some harvesting mixed vegetables and transplanting cabbage Charleston-Beaufort area. Peach tree pruning active.

SOUTH DAKOTA: Moderate weather prevailed over State most of week. Weekly temperatures averaged from 21° above normal in east to 19° above normal in west. Extremes ranged from 7° on 20th to 68° on 15th and 16th. Precipitation fell as snow over State during weekend with amounts ranging from a trace in west to a total of 0.69 inch reported at Mitchell. Snow depth on ground on 22d ranged from 3 to 8 inches in east and from 2 to 6 inches in northwest. Livestock remain in good condition. Feed supplies adequate. Some lambing. Muddy feedlots problem for some operators. Main farm activities caring for livestock and clearing snow from yards.

TENNESSEE: General rains middle and end of week with measurable amounts on 2 or 3 days. Totals mostly between 1.00 and 2.00 inches, heaviest amounts on 21st. Temperatures near to slightly above normal, mildest weather of last 3 weeks. Fair weather and clear skies helped farmers continue their late harvest portions of last week even though fields remain soft. Other farm activities consisted of livestock feeding and minor farm repairs. Pastures and small grains remain in fair condition.

TEXAS: A rapidly moving Pacific cold front swept across State Saturday bringing some light snow to Upper Trans-Pecos area and showers to most other areas except extreme South Texas. A variety of severe weather, hail, strong winds, and several tornadoes struck in central and East Texas. Temperatures remained unseasonably mild throughout week. Wheat and oats recovering slowly from record freezing weather. Ice and snow provided adequate to surplus moisture most areas; however, Edwards Plateau and South Texas need additional moisture. New growth in fields too wet to graze. Cotton harvest resumed scattered localities High and Low Plains by end of week. More dry weather needed for operations to reach full scale. Major crops percent harvested: Cotton 83, last year 92; soybeans 99, last year 100. In the Lower Rio Grande Valley harvest of cabbage, carrots, and lettuce is gaining momentum again as fields dry from recent rains. Most onions escaped damage from cold weather and are making good progress now with warmer temperatures. At Laredo freeze did not hurt lettuce crop as expected. In the Winter Garden harvest of cabbage, carrots, spinach, and lettuce is gaining back momentum lost because of adverse weather.

Potato seeding underway. In the Trans-Pecos onions and lettuce are planted and up to a good stand. Citrus harvest back in full swing; cold weather coupled with rains aided in both coloring and sizing fruit.

UTAH: Recurring periods of rain or snow most sections of State. Accumulated amounts of moisture extremely variable ranging from a few hundredths to well over 1.50 inches. 11 stations reported over 1.00 inch of moisture. Strong winds and heavy snow closed highways many areas along western slopes of mountains from Cedar City northward to northern Utah border latter part of week. Temperatures ranged from near normal to 11° above normal in western desert, north-central and northern mountains, but from near normal to 8° below normal in Dixie, south-central and eastern sections. Care and feeding of cattle and sheep on winter ranges, feedlots, and valley farms, plus care of dairy herds and poultry flocks continue major activities. Turkey poults for 1973 flocks being placed in all producing areas. Sugar beet processing continues. Sorting, grading, and marketing potatoes, dry onions, and apples from storage continue. Potatoes moving out of storage mostly for processing.

VIRGINIA: Temperatures mostly above normal with warmest at midweek. Light rain and showers around 15th and 19th. Cared for and fed livestock. Maintained equipment, buildings and fences, completed tax forms. Feed supply adequate, more feed obtained from grazing than last week. Sixty percent of soils with surplus moisture, some thawed and muddy, others frozen and few snow-covered. Limited soybean and corn harvest. Wheat planting, plowing, and fertilizer spreading. Market tobacco and grain. Pruned fruit trees.

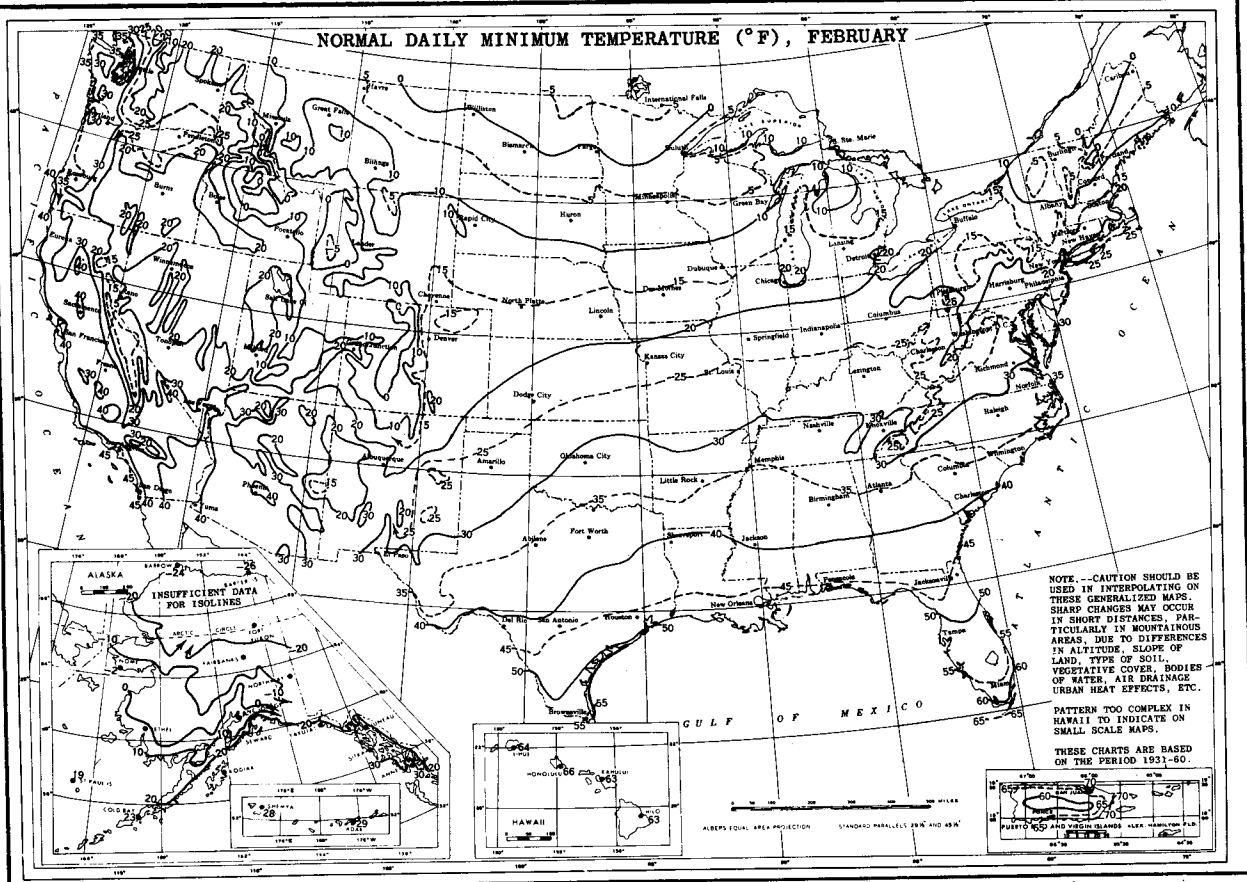
WASHINGTON: Western Washington: Temperatures average 7° above normal. Rain heavy in some areas with winds end of week. Activities limited by weather to force Victoria rhubarb, plant Christmas trees and lifting of tree seedlings,

with caneberry pruning picking up. Cabbage seed fields in poor condition. Stock feeding heavy, supply getting short. Shipments of eastern hay coming in volume. Eastern Washington: Precipitation 0.50 to 1.25 inches and temperatures 5° to 14° above normal. Pruning, fertilizing, and weed spraying main activities in fruit areas. Soil moisture adequate in wheat area, except where frozen ground limited penetration. Some erosion and flooding a problem. Wheat breaking dormancy, may cause future problems. Livestock in good condition. Heavy feeding tapering off a little.

WEST VIRGINIA: Springlike week with rapid fluctuations in weather. Snow and rain January 15, rain showers January 19, followed by light snow flurries January 20. Warm and sunny January 17 to 18 with highs in 60's. Most farmwork consisted of routine chores and caring of livestock. Supplemental feeding at minimum for winter season due to relatively warm weather. Livestock in generally good condition.

WISCONSIN: Mostly cloudy and damp during week with temperatures averaging 14° to 18° above normal. A typical January thaw week. Rain Thursday South and East. Snow, sleet, and rain across State Sunday. Winter sport resort business suffering during this mild rainy spell. Tobacco farmers busy sorting and casing tobacco. Otherwise main farm activity care and feeding of livestock.

WYOMING: Very warm week followed a very cold week, and it turned cold again at weekend. Scattered light snow, moderate in mountains. Bondurant reported most moisture with 0.65 inch. Temperatures averaged 8° to 20° above normal. Maxima mostly 40° to 50° west of Divide and Upper Platte Drainage, 45° to 65° elsewhere. Minima mostly -10° to 15° west of Divide, 10° to 30° east. Temperature extremes were 65° at Carpenter and -11° at Farson. Main agricultural activities were care and feeding of livestock.



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