

Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Environmental Data Service

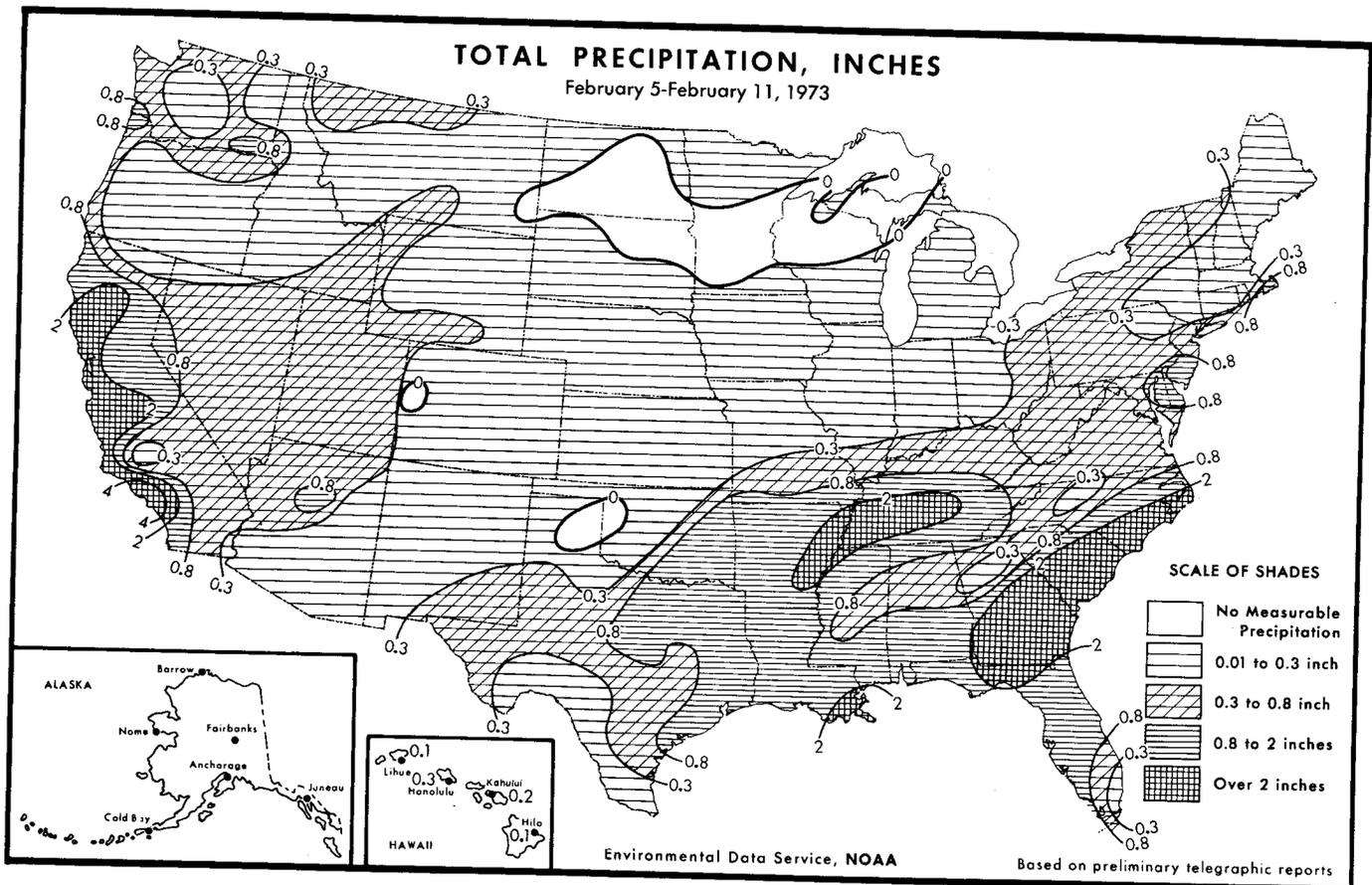
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Edited by Lucius W. Dye

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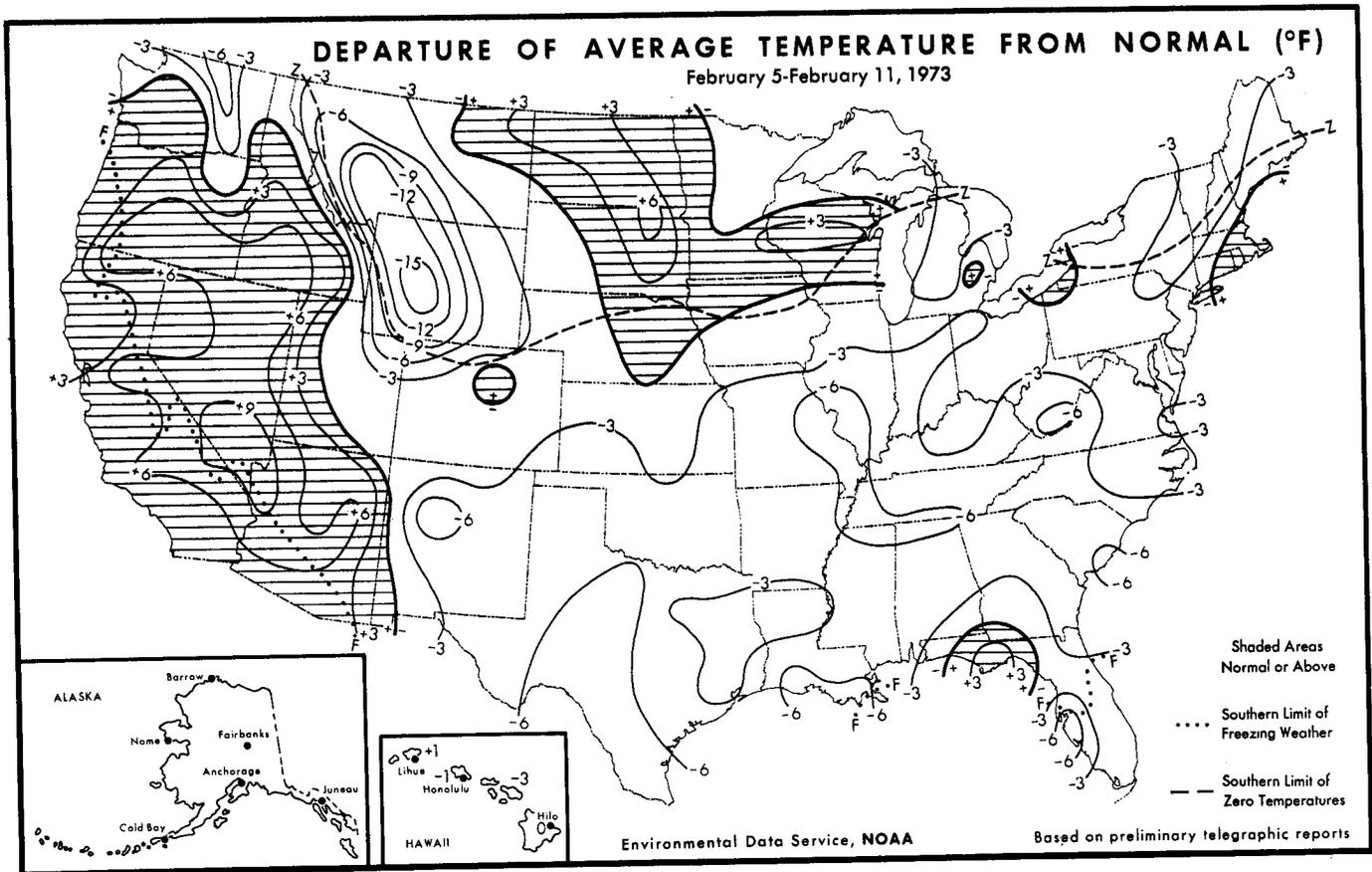
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: A once-in-a-century-type storm battered the Southeast. It brought never-before-heard-of amounts of snow from Alabama to North Carolina.

PRECIPITATION: On Monday forenoon, an intense storm was approaching the Pacific Coast. Light rain fell along the coast. Snow flurries occurred from the northern Rocky Mountains to the Upper Mississippi River Valley. Heavy fog lay over the middle Mississippi River Valley and rain showers fell along a weather front which was moving into eastern Texas. Tuesday was cloudy over most of the Nation. Snow fell along the eastern slopes of the Rocky Mountains and the western edge of the Great Plains. Freezing drizzle slicked the roads and highways and iced outdoor objects in the western portions of Nebraska and Kansas. Fog covered the eastern sections of those States. Unpleasant weather covered much of the Nation

at midweek. Snow fell in the Great Basin, the Rocky Mountains, the central Great Plains, and the middle Mississippi River Valley. Rains soaked the southern Great Plains. A narrow belt of freezing drizzle was sandwiched between the snow on the north and the rain on the south. The snow spread eastward reaching New York, New England, and the middle Appalachians by Thursday afternoon or evening. Rain showers fell from southeastern Texas to the Atlantic Coast. Some of the showers were accompanied by lightning, thunder, hail, and strong gusty winds. Light snow continued Friday from the Great Lakes to New England and from the middle Appalachians to New York. Freezing rain fell along the western Gulf Coast.

Cyclogenesis occurred over the eastern Gulf early Friday. The new storm intensified, moved northeastward, crossed the Florida Peninsula, and caused once-in-a-century amounts of snow from



Alabama to North Carolina and lesser amounts in Mississippi and Virginia. In Mississippi, the snow fell along the Gulf Coast. Freezing rain mixed with the snow formed a sheet of ice 3 to 4 inches thick closing businesses, schools, bridges, roads, and highways. From 12 to over 20 inches fell in parts of Alabama, Georgia, and South Carolina. In northern Florida, icy patches on the roads made highway travel hazardous. As the storm moved northeastward off the Atlantic Coast, winds gusted to over 50 m.p.h.

A storm over the Great Basin intensified Sunday. It dumped heavy snow in the western Great Mountains and lighter amounts in the western Great Plains. Flagstaff, Ariz., measured 10 inches on the ground Monday morning. Depths of 10 to 12 inches were common along the Mogollon Rim in Arizona. A depth of 20 inches accumulated south of Flagstaff. Many mountain areas in Utah received over 2 feet of snow. Lower areas in Utah received 8 to 10 inches.

TEMPERATURE: Cold Canadian air poured into the northern Great Plains bringing subzero weather across the Border from Montana to Minnesota. Great Falls, Mont., registered 46° below zero Wednesday morning and Butte, Mont., recorded

-32° Thursday. Afternoon temperatures were mostly in the 20's over Montana and less than 20° in North Dakota and northern Minnesota. The mercury at Bemidji, Minn., reached only 3° Tuesday afternoon and 6° Wednesday.

Subzero temperatures also occurred in northern Maine on 1 or 2 mornings. Houlton, Maine, registered -7° Tuesday and Wednesday mornings.

At the other extreme, Alice and McAllen, Texas, registered 84° Monday. By Thursday, the cold air covered Texas and afternoon readings ranged from the 20's over the Panhandle to 65° at Brownsville. Brownsville registered 32° Friday morning. Mild weather persisted over southern Florida. West Palm Beach, Fla., registered 80° Thursday afternoon. Subzero weather continued its southward advance in the Rocky Mountains and the central Great Plains. Akron, Colo., recorded -8° Thursday, and by Friday morning, subzero readings were common in northern Missouri.

The weekend storm in the Southeast brought subfreezing temperatures into northern and central Florida and subzero weather as far south as northern West Virginia. Tallahassee, Fla., recorded 20° Monday morning, February 12, and Youngstown, Ohio, zero.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Return of icy weather increases stress on livestock; supplemental feeding continues heavy with hay shortages developing in many areas of the South. * Texas cotton harvest advanced slightly to 93 percent complete. * Cold weather damaged some tender Florida vegetables and interrupted South Texas vegetable harvesting.

SMALL GRAINS: The 1973 winter wheat crop remained in good to excellent condition in the central Great Plains with adequate to surplus moisture. Kansas wheat greened and made limited growth, but some fields are vulnerable to wind damage because of not enough top cover. In Oklahoma, wheat remains mostly dormant in fair to good condition. Texas wheat made good growth and showed marked improvement early last week, but cold, icy weather halted growth later in the week. Snow cover protection for winter wheat in Montana remains poor, but wind damage has been light. Many small grain fields in South Dakota lacked snow cover, also. In Washington, some winterkill to wheat and barley is apparent.

Small grain crops throughout the South Atlantic and South Central States are in fair to good condition with adequate to excessive moisture. Mild weather early last week boosted growth of small grains in the South but cold later in the week slowed development. In the West, early plantings of small grain crops in Arizona are up to good stands in most areas. More rain in Northern California continued to hurt small grains which are yellowing in the Sacramento Valley.

COTTON: The exceptionally late cotton harvest made some progress early last week in Texas, Oklahoma, Arkansas and Louisiana, but cold, icy weather later in the week brought operations to a standstill. Texas cotton harvesting advanced 4 points to 93 percent complete compared to 99 percent a year earlier. Cotton harvesting in Mississippi remained unchanged from the previous week at 92 percent complete. Cold, rain and even snow prevented farmers in the Southeast from wrapping up the cotton harvest. Cotton post-harvest activity is complete in Arizona, but some cotton still remains unharvested in some areas of California due to wet fields.

OTHER CROPS: Farmers continued their attempts to harvest remaining corn and soybean fields in the North Central States, but progress was limited due to muddy conditions. Open weather early last week permitted some soybean harvesting in Mississippi, Tennessee, Arkansas, Louisiana and Oklahoma, but cold wet stormy weather stopped combines later in the week. The Mississippi

soybean harvest advanced 4 points to 89 percent before ice and snow blanketed much of the State by Friday. Early plantings of safflower and sugar beets in Arizona are making good progress. Cool weather in Florida improved the sucrose content of sugarcane. The sugarcane harvest in Hawaii is getting underway. Tobacco plant bed fumigation and seeding in North Carolina is behind schedule. Irish potato planting in Alabama made good progress until halted by rains.

Fruits and Nuts: Florida citrus tree and fruit condition continues excellent with adequate moisture and no damage from recent cold weather. The Texas citrus harvest continued strong until halted by sleet and rain about mid-week; no damage occurred because moisture was adequate and the cold did not last long. In the central valley area of California, the navel orange harvest continues with heavy grade-out. Lemon harvesting is increasing in the desert area while the grapefruit harvest is active. In Arizona, harvesting of most kinds of citrus is complete, but Valencia orange and grapefruit harvest continues. Spraying and pruning of fruit trees was active in California with buds developing on deciduous fruit trees and some early varieties blooming.

Vegetables: High winds and cold temperatures in Florida over the weekend caused some damage to tender vegetable and melon crops. Some acreage losses of cucumbers and squash are expected. In the Lower Rio Grande Valley of Texas, cold weather and sleet interrupted the harvest of cabbage, carrot and lettuce crops. The inclement weather stopped vegetable harvesting in the San Antonio-Winter Garden area also. In Southern California, celery supplies are increasing, while carrot harvesting is steady in the desert areas. Supplies of lettuce in the Imperial Valley are below normal. In Arizona, harvest of mixed vegetables continued at seasonal volume.

PASTURES AND LIVESTOCK: Stockmen continued heavy supplemental feeding of grain, silage and hay as winter renewed its icy grip on the Nation from the Rocky Mountains to the Atlantic and Gulf Coasts. Small grain and winter pastures in most eastern States remained too wet for grazing. Shortages of hay were becoming more of a problem in the South Atlantic and South Central States. Muddy feed lots in the Great Plains continued to slow weight gains on cattle and cause disease problems. Calving and lambing gained momentum in western ranches.

Arlon M. Scott
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Feb. 11, 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 . . .	41	- 7	.6	- .6	La. Baton Rouge . . .	50	- 5	1.5	+ .4	Youngstown . . .	25	- 2	.4	- .2
Mobile . . .	50	- 5	1.9	+ .9	Lake Charles . . .	50	- 6	.9	- .1	OKLA. Okla. City . . .	35	- 5	.2	- .2
Montgomery . . .	46	- 4	1.5	+ .5	New Orleans . . .	51	- 6	2.0	- 1.0	Tulsa . . .	34	- 5	.4	- .1
ALASKA. Anchorage . . .	---	---	---	---	Shreveport . . .	46	- 3	1.2	- .1	OREG. Astoria . . .	43	+ 1	.8	- 1.7
Barrow . . .	---	---	---	---	MAINE. Caribou . . .	8	- 3	.2	- .3	Burns . . .	35	+ 7	.2	- .2
Fairbanks . . .	---	---	---	---	Portland . . .	22	0	.2	- .8	Medford . . .	46	+ 7	.2	- .5
Juneau . . .	---	---	---	---	MD. Baltimore . . .	34	- 2	.8	+ .1	Pendleton . . .	33	- 2	.6	+ .3
Kodiak . . .	---	---	---	---	MASS. Boston . . .	28	- 2	.1	- .8	Portland . . .	43	+ 2	.4	- .6
Nome . . .	---	---	---	---	Chatham . . .	33	---	1.9	---	Salem . . .	43	+ 2	.1	- 1.2
ARIZ. Flagstaff . . .	31	+ 3	1.4	+ 1.0	MICH. Alpena . . .	14	- 4	.1	- .3	PA. Allentown . . .	29	0	.5	- .2
Phoenix . . .	59	+ 7	.2	0	Detroit . . .	25	- 1	.2	- .3	Erie . . .	26	+ 2	.5	- .1
Tucson . . .	56	+ 4	T	- .2	Flint . . .	23	+ 1	.2	- .2	Harrisburg . . .	32	0	.5	- .1
Winslow . . .	43	+ 7	.3	+ .2	Grand Rapids . . .	20	- 4	.2	- .2	Philadelphia . . .	33	0	.8	+ .1
Yuma . . .	60	+ 4	.1	0	Houghton Lake . . .	15	- 4	.2	- .1	Pittsburgh . . .	27	- 2	.6	+ .1
ARK. Fort Smith . . .	37	- 5	1.0	+ .2	Lansing . . .	19	- 5	.2	- .3	Scranton . . .	24	- 4	.2	- .3
Little Rock . . .	39	- 4	1.6	+ .5	Marquette . . .	18	- 1	T	- .4	R. I. Providence . . .	31	+ 2	.2	- .6
CALIF. Bakersfield . . .	58	+ 7	.2	- .1	Muskegon . . .	23	- 2	.1	- .4	S. C. Charleston . . .	45	- 6	3.2	+ 2.4
Eureka . . .	51	+ 3	1.6	+ .2	S. Ste. Marie . . .	12	- 3	.2	- .2	Columbia . . .	44	- 4	2.4	+ 1.6
Fresno . . .	53	+ 3	2.1	+ 1.6	MINN. Duluth . . .	7	- 3	T	- .3	Greenville . . .	43	- 2	.6	- .4
Los Angeles . . .	58	+ 1	5.2	+ 4.6	Internatl Falls . . .	4	- 1	.2	0	S. D. Aberdeen . . .	19	+ 6	T	- .2
Red Bluff . . .	51	+ 2	3.1	+ 2.3	Minneapolis . . .	17	+ 3	T	- .2	Huron . . .	19	+ 5	T	- .2
San Diego . . .	59	+ 3	.9	+ .4	Rochester . . .	15	+ 1	T	- .2	Rapid City . . .	21	- 2	.1	0
San Francisco . . .	53	+ 3	2.9	+ 2.2	St. Cloud . . .	10	- 1	T	- .2	Sioux Falls . . .	19	+ 2	T	- .2
Stockton . . .	55	+ 7	1.8	+ 1.2	MISS. Jackson . . .	47	- 3	.8	- .4	TENN. Chattanooga . . .	38	- 6	1.2	- .1
COLO. Denver . . .	31	+ 1	T	- .2	Meridian . . .	47	- 3	1.0	- .2	Knoxville . . .	38	- 5	1.5	+ .4
Grand Junction . . .	30	- 1	T	- .2	MO. Columbia . . .	26	- 6	.3	- .2	Memphis . . .	38	- 6	2.2	+ .9
Pueblo . . .	32	- 1	.1	0	Kansas City . . .	30	- 4	.1	- .2	Nashville . . .	37	- 4	2.1	+ .9
CONN. Bridgeport . . .	30	0	.5	- .3	St. Louis . . .	27	- 6	.3	- .2	TEX. Abilene . . .	40	- 7	.3	0
Hartford . . .	27	0	.2	- .6	Springfield . . .	31	- 5	.5	- .1	Amarillo . . .	36	- 4	T	- .1
D. C. Washington . . .	37	0	.8	+ .2	MONT. Billings . . .	16	- 8	.3	+ .1	Austin . . .	48	- 4	.6	0
FLA. Apalachicola . . .	60	+ 4	1.4	+ .5	Glasgow . . .	14	+ 3	.1	0	Beaumont . . .	50	- 5	1.1	- .1
Daytona Beach . . .	56	---	1.2	---	Great Falls . . .	16	- 6	.1	- .1	Brownsville . . .	55	- 8	.1	- .3
Ft. Myers . . .	59	- 6	1.1	+ .6	Havre . . .	11	- 3	.4	+ .3	Corpus Christi . . .	54	- 6	.4	0
Jacksonville . . .	53	- 4	1.8	+ 1.1	Helena . . .	7	- 14	.1	0	Dallas . . .	45	- 3	1.2	+ .6
Key West . . .	68	- 2	1.1	+ .6	Kalispell . . .	17	- 6	.4	+ .1	Del Rio . . .	47	- 8	.2	0
Lakeland . . .	58	- 5	.8	+ .2	Miles City . . .	17	- 1	T	- .1	El Paso . . .	45	- 3	.6	+ .5
Miami . . .	65	- 2	.2	- .2	Missoula . . .	21	- 2	.1	- .1	Fort Worth . . .	45	- 3	1.6	+ 1.1
Orlando . . .	59	- 2	1.7	+ 1.2	NEBR. Grand Island . . .	26	+ 2	.1	- .1	Galveston . . .	52	- 4	1.1	+ .2
Tallahassee . . .	47	- 5	3.2	+ 2.2	Lincoln . . .	23	- 4	.2	0	Houston . . .	51	- 2	1.7	+ .8
Tampa . . .	56	- 6	1.0	+ .3	Norfolk . . .	22	+ 1	T	- .2	Lubbock . . .	37	- 5	.5	+ .3
W. Palm Beach . . .	62	---	.1	---	N. Platte . . .	24	- 2	T	- .1	Midland . . .	41	- 6	.6	+ .5
GA. Atlanta . . .	42	- 4	.3	- .7	Omaha . . .	21	- 2	.1	- .1	San Angelo . . .	42	- 7	.7	+ .4
Augusta . . .	44	- 5	2.1	+ 1.3	Valentine . . .	22	0	.2	0	San Antonio . . .	49	- 6	.4	0
Macon . . .	45	- 6	2.6	+ 1.6	NEV. Ely . . .	31	+ 6	.5	+ .3	Victoria . . .	53	- 4	.9	+ .3
Savannah . . .	48	- 5	2.4	+ 1.5	Las Vegas . . .	56	+ 10	.6	+ .5	Waco . . .	45	- 5	.6	+ .1
HAWAII. Hilo . . .	71	0	.1	- 3.3	Reno . . .	38	+ 4	1.3	+ 1.1	Wichita Falls . . .	40	- 6	.4	+ .1
Honolulu . . .	72	- 1	.3	- .7	Winnemucca . . .	37	+ 6	.3	+ .1	UTAH. Blanding . . .	30	- 1	.4	+ .1
Kahului . . .	69	- 3	.2	- 1.0	N. H. Concord . . .	19	- 3	.1	- .5	Salt Lake City . . .	30	- 1	.5	+ .2
Lihue . . .	72	+ 1	.1	- 1.5	N. J. Atlantic City . . .	35	0	.9	+ .1	VT. Burlington . . .	14	- 3	.5	0
IDAHO. Boise . . .	39	+ 6	.2	- .1	Trenton . . .	32	- 1	.7	0	VA. Lynchburg . . .	35	- 3	.5	- .2
Lewiston . . .	34	0	.5	+ .3	N. MEX. Albuquerque . . .	33	- 6	.1	0	Norfolk . . .	39	- 3	.5	- .3
Pocatello . . .	30	+ 5	.5	+ .2	Roswell . . .	38	- 3	.4	+ .3	Richmond . . .	38	- 2	.4	- .4
ILL. Cairo . . .	34	- 6	.9	- .2	N. Y. Albany . . .	22	- 1	T	- .6	Roanoke . . .	39	0	.6	- .2
Chicago . . .	25	- 1	.3	- .1	Binghamton . . .	20	- 3	.2	- .3	WASH. Colville . . .	27	- 2	.1	- .3
Moline . . .	22	- 2	.1	- .2	Buffalo . . .	23	0	.4	- .3	Omak . . .	19	- 6	.4	+ .1
Peoria . . .	22	- 5	.1	- .3	New York . . .	32	- 1	.4	- .3	Quillayute . . .	39	- 1	.4	- 3.0
Rockford . . .	22	- 1	.1	- .3	Rochester . . .	23	- 1	.4	- .2	Seattle-Tacoma . . .	41	+ 1	.1	- 1.0
Springfield . . .	24	- 6	.1	- .4	Syracuse . . .	21	- 3	.3	- .5	Spokane . . .	28	0	.2	- .3
IND. Evansville . . .	30	- 6	.5	- .4	N. C. Asheville . . .	38	- 2	.5	- .3	Walla Walla . . .	---	---	---	---
Ft. Wayne . . .	24	- 4	.2	- .4	Charlotte . . .	39	- 5	.5	- .3	Yakima . . .	33	+ 1	.2	0
Indianapolis . . .	27	- 3	.1	- .5	Greensboro . . .	35	- 6	.3	- .5	W. Va. Beckley . . .	28	- 6	.7	- .2
South Bend . . .	26	0	.2	- .3	Hatteras . . .	45	- 1	2.3	+ 1.4	Charleston . . .	32	- 5	.8	- .1
IOWA. Burlington . . .	24	- 2	.1	- .3	Raleigh . . .	42	- 1	.8	0	Huntington . . .	32	- 5	.9	0
Des Moines . . .	21	- 1	.2	- .1	Wilmington . . .	44	- 4	2.2	+ 1.4	Parkersburg . . .	32	- 3	.8	0
Dubuque . . .	20	- 1	.2	- .2	N. DAK. Bismarck . . .	14	+ 3	T	- .1	WIS. Green Bay . . .	20	+ 3	T	- .2
Sioux City . . .	21	+ 1	T	- .2	Fargo . . .	9	+ 1	T	- .1	La Crosse . . .	21	+ 3	T	- .2
KANS. Concordia . . .	28	- 2	.1	- .1	Williston . . .	13	+ 3	T	- .1	Madison . . .	18	0	.1	- .2
Dodge City . . .	29	- 5	T	- .1	OHIO. Akron-Canton . . .	27	- 1	.5	- .1	Milwaukee . . .	21	0	.2	- .2
Goodland . . .	28	- 2	T	- .1	Cincinnati . . .	32	0	.3	- .5	WYO. Casper . . .	16	- 9	.2	0
Topeka . . .	29	- 3	.1	- .1	Cleveland . . .	27	- 1	.4	- .2	Cheyenne . . .	23	- 4	.1	0
Wichita . . .	34	- 1	.2	0	Columbus . . .	30	0	.3	- .3	Lander . . .	5	- 17	.1	- .1
KY. Lexington . . .	34	- 1	.5	- .4	Dayton . . .	29	- 1	.3	- .4	Sheridan . . .	17	- 5	.1	- .1
Louisville . . .	34	- 1	.6	- .3	Toledo . . .	24	- 3	.2	- .3	P. R. San Juan . . .	78	+ 3	.2	- .7

CONDENSED STATE SUMMARIES

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

ALABAMA: A week of real contrasts. Very warm first of week but sharp change to colder midweek. First 3 days average 13° above normal, last 3 days 14° below normal. Precipitation statewide Thursday night and Friday, 0.50 to 1.50 inches common but over 3.00 inches at Dothan. Over south Alabama from Montgomery southward, the precipitation changed to freezing rain, sleet, and snow Friday and Friday night. In much of southeast Alabama, it was the greatest snow on record -- 11 to 14 inches fell at Auburn, Troy, Clayton, Phenix City, Luverne, Tuskegee, and Pittsview. Snow all the way to coast -- 3 inches at Mobile. Temperature extremes for week: 75° at Mobile and Luverne to low of 5° above zero Sunday morning at Pittsview and 6° above zero at Luverne.

Limited progress made with fieldwork early in period. Rain moved into State at midweek, followed by record-breaking snowfall in many southeast counties. Soil moisture adequate to surplus. Small grains made fair growth early in week, but low temperatures slowed development late in period. Planting of Irish potatoes made good progress until halted by rain on Thursday. Livestock in fair to good condition as heavy supplemental feeding continued. Supplies of stored feed becoming short on additional farms.

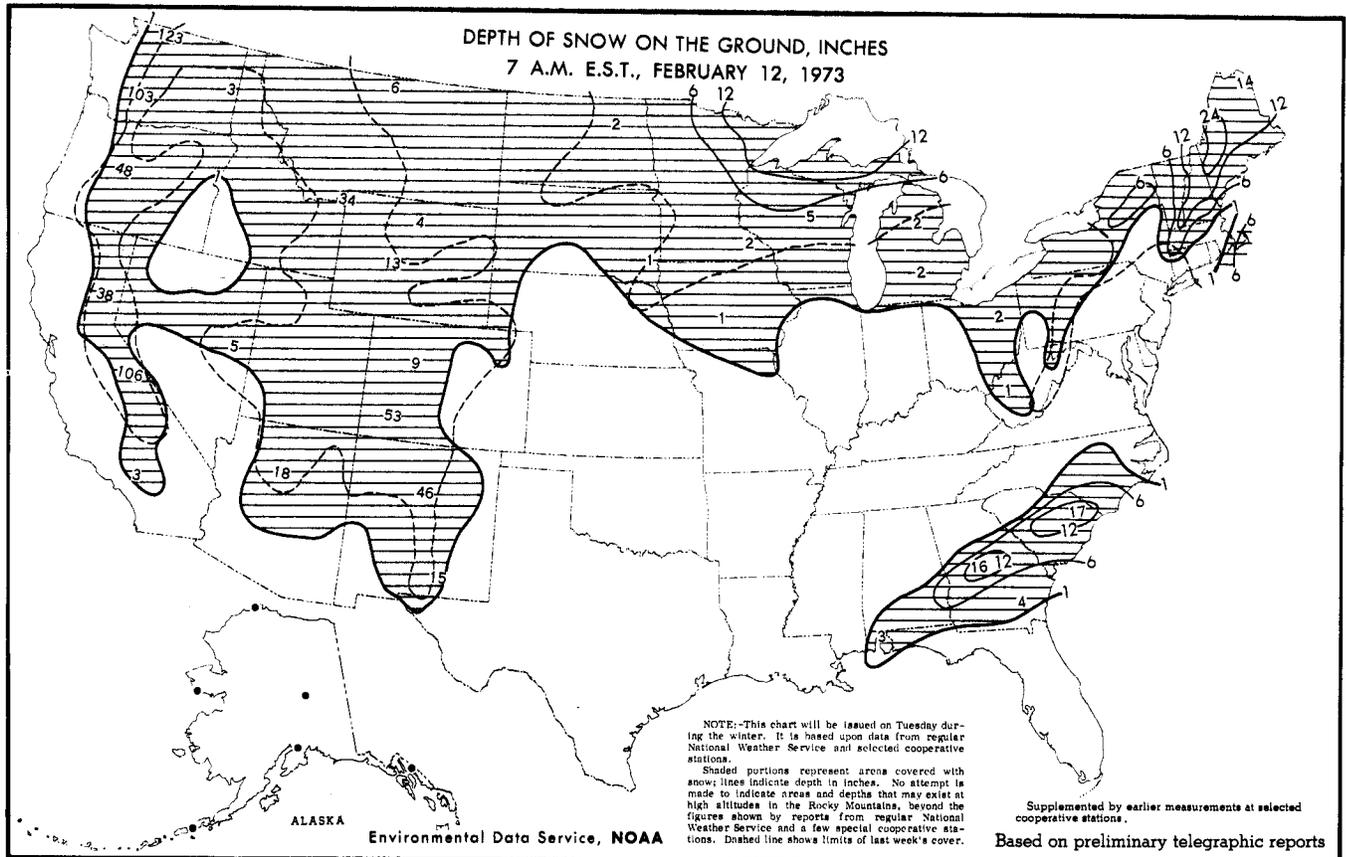
ARIZONA: Cloudy skies prevailed over State much of week with widespread precipitation early in week and on Sunday. Heaviest precipitation came on Sunday from a large Pacific storm which brought locally heavy rain and hail in western Maricopa County and snow above about 5,000 feet in mountains in northern, central, and eastern parts of State. Hawley Lake in White Mountains reported 47 inches of snow on ground following Sunday storm. Minimum temperatures remained well above freezing entire week in both Salt River Valley and Yuma area. Cotton post-harvest operations virtually complete, field operations underway, preparation for 1973 cotton. Early plantings small grains good stands most areas. Early-planted safflower good growth. Sugar beets good progress. Harvest lettuce, mixed vegetables continued Yuma. Vegetables later harvest good growth. Field operations cantaloupes full swing. Planting, weeding, thinning lettuce active central, southeastern areas. Harvest mixed vegetables making seasonal progress Salt River Valley. Harvest navel oranges, sweets, lemons, tangerines virtually complete. Harvest Valencia oranges and Kinnow Mandarins well underway. Limited grapefruit harvest continued. Ranges good statewide except northeastern area which is fair. Higher elevation ranges snow covered, lower elevation ranges cold and dormant. Desert ranges providing good forage, prospects for spring good. Stockwater supplies adequate to surplus. Cattle, calves good, no unusual death losses. Sheep, lambs on desert pastures good; on northern Indian reservations fair to poor.

ARKANSAS: Temperatures averaged 2° to 9° below normal with greatest departures across northern 1/3 of State and in central and south-central sections. Highest 75° at Texarkana and El Dorado on 6th. Lowest 7° at Calico Rock in north-central section on 10th. Warm early in week followed by pronounced cooling at midweek and some moderation

on weekend. Most of State received from about 1.00 to a little over 2.00 inches of rain. Largest weekly total, 2.20 inches, at Augusta in east-central section. Isolated dry spot at Batesville in east-central section received only 0.05 inch. Most of rain occurred at midweek with some light snow in northern 1/3 of State. Open weather permitted fieldwork first part of week. Some cotton picked, soybeans combined, and stalk cutting accomplished. Rain late in week halted fieldwork. Currently all areas extremely wet. Very little land preparation to date. Small grains and grazing crops making little growth, pastures very boggy. Cattle requiring large amounts of supplemental feeding. Hay supplies very short many areas. Stockmen and poultrymen extremely concerned over high feed costs.

CALIFORNIA: Rain fell most days most locations; locally heavy amounts Los Angeles Basin, Central Coast Range, and Sierra Nevada. Heavy snow above 5,000 feet. Seasonal precipitation totals about twice normal throughout State except desert and mountain basins. Average temperatures above normal all areas, ranging to 10° above normal Delta region. More rain delays fieldwork northern California. Small grains yellowing Sacramento Valley, plantings southern California doing well. Some alfalfa cutting desert areas. Some cotton still standing in heavy soils. Spraying, pruning fruit trees continue. Bud development deciduous fruit, early varieties bloom. Navel orange harvest heavy grade-out central valley. Harvest Valencias continues desert, lemons increasing, grapefruit, avocado harvest active. Artichokes minor, Santa Maria and central coast. Asparagus increasing desert areas, limited Orange County. Broccoli and cauliflower steady, Santa Maria-Oceano. Carrots steady desert areas, smaller sizes. Celery increase supplies southern California. Lettuce below normal Imperial Valley. Fall potatoes slow San Joaquin Valley. Spring potatoes plantings 65% completed Bakersfield. Strawberries light volume San Diego, other southern California areas nearly ready. Ranges greening, saturated ground delaying plant growth many areas. Supplemental feeding needed areas with insufficient grass growth or ground too saturated for cattle grazing. Lambing active, no unusual losses reported. Egg production seasonally light. Number turkey eggs set increasing seasonally. Bees being moved to almond orchards northern San Joaquin and Sacramento Valleys.

COLORADO: Mild early in week, colder toward end except mountains and extreme west. Temperature averages were mixed but near normal most areas. Scattered light snow in mountains midweek, some heavier snowfall on weekend. Eastern plains dry. Feeding and caring for livestock major activities. Livestock still requiring supplemental feed most areas. Crop residue providing fair forage some localities eastern Plains. Calving in progress east slope, losses of newborn calves still above average. Livestock are in generally poor to fair condition. Harvest of crops progressed slowly with most acreage remaining to be harvested on western slope. Field conditions are muddy or frozen limiting other field activities.



FLORIDA: Heaviest snowfall in 15 years in north Florida with 2 inches reported at Pensacola and flurries as far south as Pasco County. Considerably colder after frontal passage on Friday and early Saturday with below-freezing temperatures as far south as central Florida. Little or no frost due to strong winds. Temperatures averaged 5° below normal for week. Rainfall averaged over 1.00 inch, mainly as showers and thundershowers accompanying frontal passage. Fieldwork stopped by scattered showers and cold. Cool weather improved sucrose content of sugarcane. Moisture favorable for pastures, but cool weather retarding growth. Supplemental feeding increasing to maintain cattle in fair to good condition. Citrus tree and fruit condition excellent, soil moisture adequate. No damage from temperatures in 30's. High winds and cold weekend temperatures caused variable damage to tender vegetable and melon crops. Considerable wind burn occurred to most crops in the west central, southwest, and Pompano areas. Some acreage losses of cucumbers, squash are expected. The cold slowed crop progress in the Everglades and Dade County areas.

GEORGIA: Light rain fell in north early in week and a record snowstorm hit middle Georgia on Friday. A mixture of sleet and freezing rain began in southwest Thursday night, changed to snow early Friday, and spread across State before noon. By Saturday morning, snow had accumulated to record depths in central areas with light amounts in extreme southern counties. Macon had 16 inches and Columbus and Augusta reported 14 inches, all new alltime records. Thousands of motorists, stranded on snow-covered highways, were rescued by National Guard units. The snow was followed by near record

low temperatures Sunday and Monday mornings in central Georgia with many readings of around 10°. Averages for week were 1° to 5° below normal. Soil moisture continued excessive entire State. Land preparation at standstill. Small grains mostly fair to good. Some tondressing of grains in central area prior to weekend snowstorm. Tobacco plant beds remained in mostly good condition.

HAWAII: Weather clear and dry with light showers mainly mountain areas. Low temperatures retarding growth and maturity most crops. Six of 18 sugar plantations started harvesting 1973 crop end of January. Harvesting pineapples light. Adequate supply vegetables and fruits. Condition of pastures and cattle fair to good. More rain needed some areas of Hawaii.

IDAHO: Temperatures were lowest beginning and end of period. Southern valley areas reported greatest departures, averaging 3° to 8° above normal. Precipitation highest southwest and south-central mountains. Island Park and Pierce reported snow depth increases of 8 inches and 7 inches, respectively, for the greatest. Livestock care continues to dominate farm activities. Calving and lambing very active. Some losses due to scours, predisposed by muddy lots. Sugar beets, potatoes, and wheat moving from storage locations to market or processors. No fieldwork.

ILLINOIS: After a mild weekend on 4th and 5th, temperatures dropped during the week with the coldest outbreak coming on Thursday and Friday. Weekly temperatures averaged 1° to 7° below normal. The incoming cold air was accompanied by snow with accumulations ranging from 1 to 2 inches north to

around a trace south. Water equivalent totals were generally less than 0.30 inch except in extreme south where the snow was mixed with the rain bringing totals in the range of 0.50 to 1.00 inch. Farm activities included fertilizer application, routine farm chores, and machinery maintenance.

INDIANA: Temperatures averaged 23° to 30° and were 1° to 6° below normal. Lowest temperature was 4° on 9th and highest was 47° on 6th. Precipitation ranged from 0.10 to 0.50 inch coming as snow at midweek. Snow melted over weekend. Sunshine more than usual. Soils were frozen a few inches. Harvest of remaining corn and soybean fields limited by soft, wet soil conditions much of week. Activities mostly confined to caring for livestock, equipment maintenance, and work around the farmstead.

IOWA: Temperatures averaged near normal and precipitation was light. Snow cover is limited generally from 1 to 3 inches but several localities have only trace of snow on the ground.

KANSAS: Cold front in midweek brought light to moderate precipitation to most of State. Weekly totals generally 0.10 to 0.50 inch eastern Kansas and zero to 0.10 inch west. Locally up to 5 inches snow northeast on 7th but snow melted by end of period. Weekly mean temperatures averaged below seasonal. Readings much below normal southeast. Cold February 7 to 8 with near normal temperatures early and late in week. Wheat greened and made limited growth last week, general condition good to excellent. Lack of top cover some fields leaves them vulnerable to wind damage. Nitrogen top-dressing was applied to a few fields. Surface moisture remained surplus many areas with spring oat and barley seeding generally delayed except for a few fields in southeast. A few more cattle shifted to grazing fall-seeded grains, but number sharply limited by muddy fields. Supplemental feeding heavy most areas. Supplies feed grain, forage, hay adequate except few localized areas. Calving, lambing, farrowing death losses near normal.

KENTUCKY: Temperatures averaged 1° to 6° below normal. Precipitation 0.25 to 1.00 inch, least in northern Bluegrass. Temperatures above to much above normal first 3 days, below to much below normal balance. Maxima in 60's on 5th; in 20's, moderating to 30's last 4 days. Mostly sunny except cloudy with general precipitation, mostly rain, 6th to 8th. Some snow on 8th and 9th; no significant accumulation generally, but some 1 inch depth in north. Farm activity pretty much at standstill. Quite a lot of soybeans still in field in southwestern Kentucky, many plants leaning badly. Fall and winter plowing has been minimal because of late harvest and continued wet soils. Livestock wintering in satisfactory condition. Feed generally adequate, some local shortages. Feed costs high.

LOUISIANA: Temperatures averaged 1° to 6° below normals. Warm first part of week, sharp cold front Thursday, followed by snow, sleet, and freezing rain late Thursday and Friday in southern 2/3 of State. Snow depths ranged from 1 to more than 3 inches. At Baton Rouge, first occurrence of 2 measurable snow falls in single season on record. Temperature extremes: Highest 78° Tuesday in Clinton, 78° Wednesday in Alexandria, New Orleans, Bunkie, and Amite. Lowest 19° on Sunday in Alexandria. Weekly rain totals .62 to more than 2.00 inches. Greatest 1-day total, 1.48 inches,

at Jeanerette on Friday. Limited fieldwork possible on several days, but halted at midweek by excessive moisture. Some cotton and soybean harvested, but some still in fields. Some disking, plowing, stalk cutting, and topdressing of winter pastures. Winter wheat, oats, and ryegrass showed improvement early in week, but again set back by excessive moisture and hard freezes. Supplemental feeding of livestock continued. Hay and roughage very short. Livestock mostly in fair condition.

MARYLAND AND DELAWARE: Mild temperatures of 3 previous weeks continued until last 3 days of this week, when daily temperatures averaged near 10° below normal. This week, temperatures averaged near normal to 3° below normal, with extremes ranging mostly 50's to teens. Precipitation on 6th through 9th totaled 0.50 inch to 1.24 inches, heaviest in north and west. Some snow on several days totaling up to 7 inches in west. Farmwork mostly winter chores. Livestock reported in generally good condition. Rapidly changing temperatures added to care of young animals. Orchard work continues as weather permits.

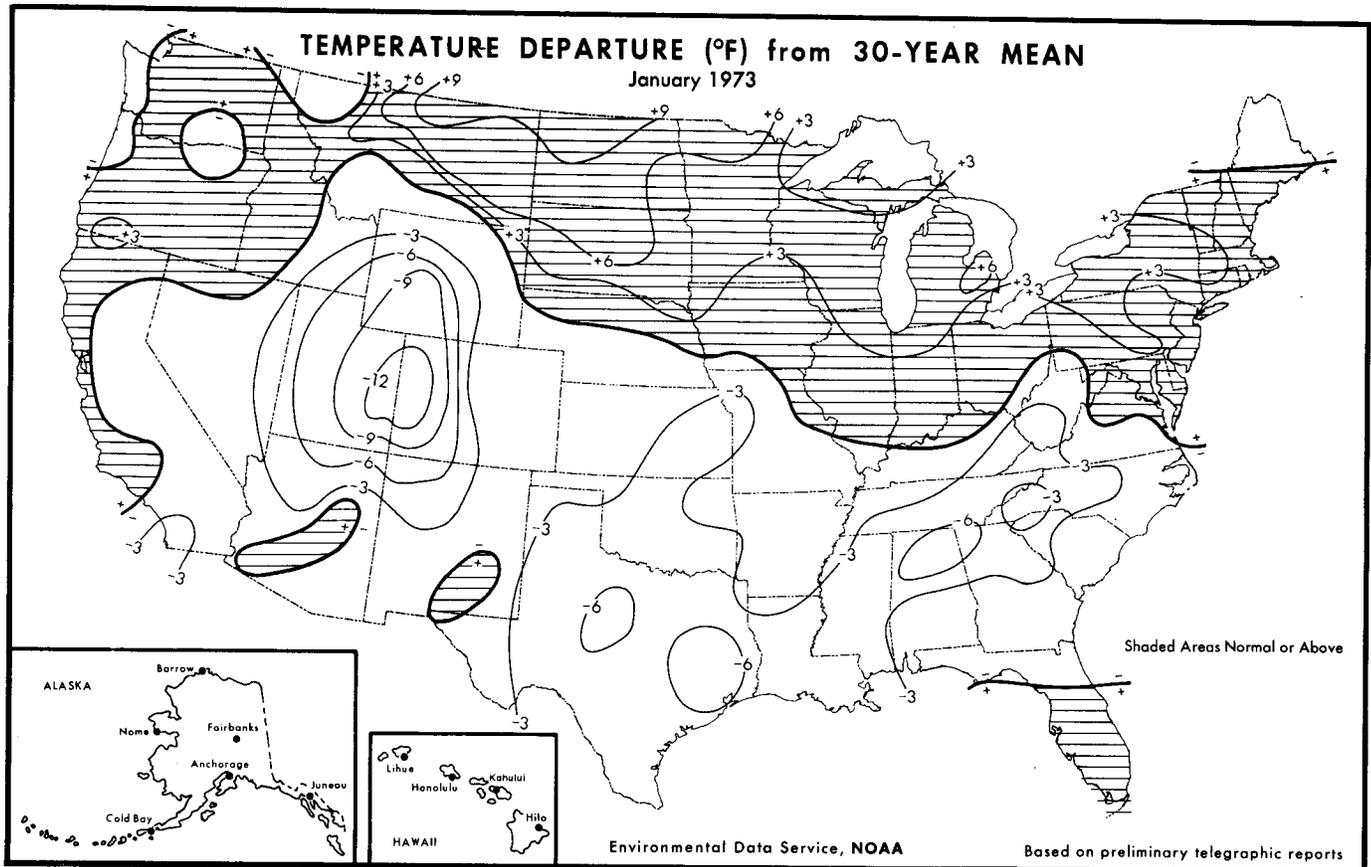
MICHIGAN: Light snow south, clearing skies, colder after midweek with lake shore squalls. Maximum temperatures near 40° south, lowest 16° below zero north. Temperatures averaged 1° to 3° below normal Upper Peninsula; 1° to 5° below normal Lower Peninsula; largest departures interior and northeast. Precipitation totals 0.10 to 0.40 inch Upper Peninsula; 0.10 to 0.25 inch Lower Peninsula.

MINNESOTA: Temperatures averaged near normal. Extremes: 37°, -23°. Precipitation little to none except scattered amounts generally less than 0.25 inch in north-central and south. Snow depths 1 to 4 inches most of State except northeast with 9 to 14 inches with 18 inches in forested areas.

MISSISSIPPI: Temperatures averaged -1° to +3° from normal. Below-freezing maximums Friday in State except for Gulf Coast. Precipitation totals for week from 1 to 3 days with amounts from 0.35 inch to near 3.00 inches. Freezing rain, sleet, hail, and ice started in central Mississippi Thursday afternoon, spread southeast and by midday Friday, Forrest and Lincoln Counties had many areas that reported up to 2 inches of snow; by midnight Friday, the snow had reached the extreme Gulf Coast area with reports of 3 to 4 inches and ice reported like blankets covering most roads and bridges. Schools, businesses, bridges, highways, and roads were closed in affected areas until temperatures began to rise. The remainder of weekend had fair skies with no measurable precipitation. Days suitable for fieldwork averaged 2.2 compared with 0.9 previous week. Soil moisture adequate to excessive. Soybean harvest advanced 4 points to 89%. Cotton harvest 92% completed, unchanged from last week. Plowing for 1973 crops underway with 8% completed compared with 13% a year earlier. Feed grain reserves mostly short, hay and roughage supplies continue short to adequate. Small grains mostly fair. Pastures poor to fair. Livestock mostly fair.

MISSOURI: Cool dry air spread over State early in period dropping temperatures to near normal levels. Rain south and snow north fell Wednesday as a storm center passed south of State. Amounts ranged from less than 0.25 inch north to over 1.00 inch in extreme south.

(Continued on Page 11)



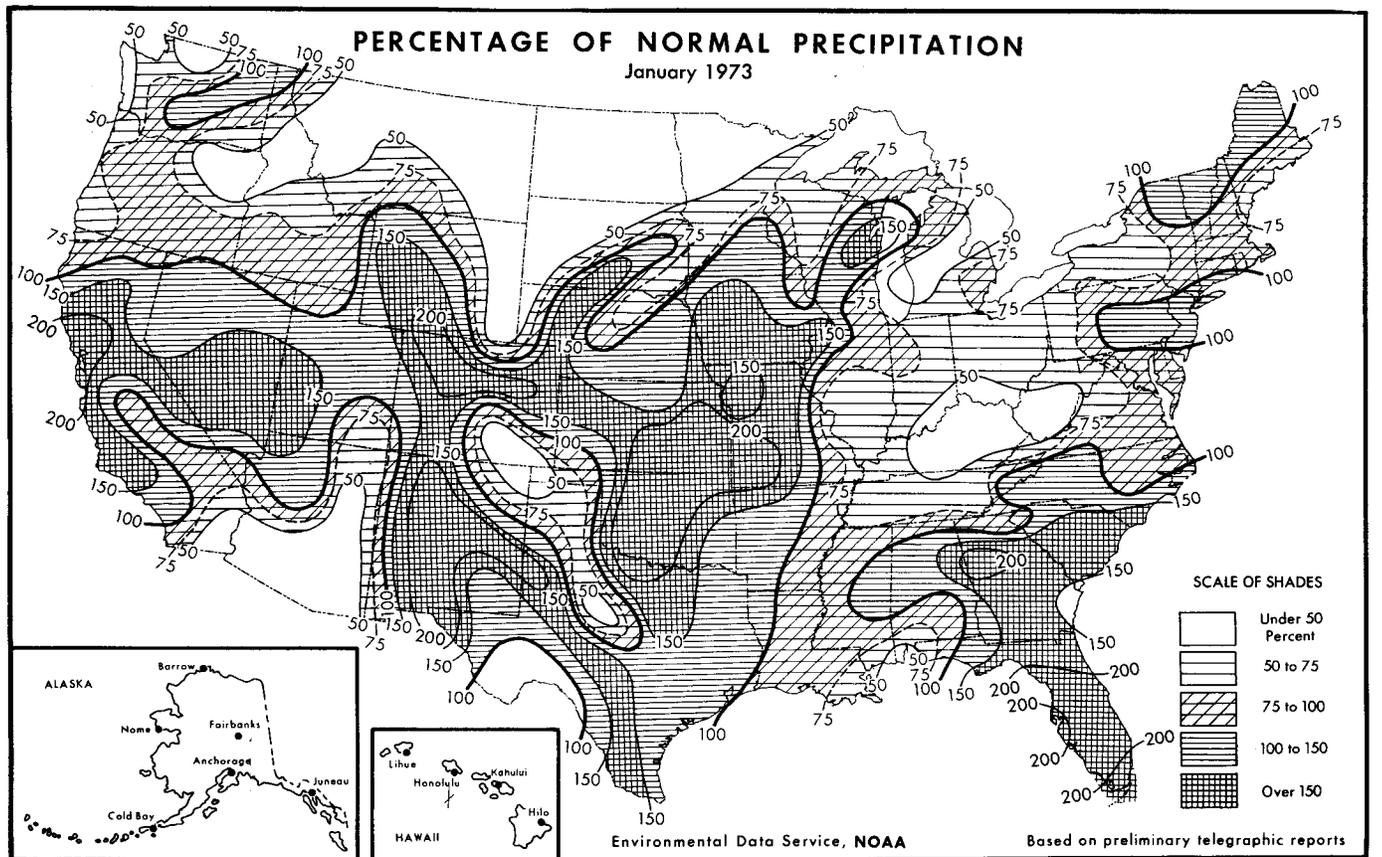
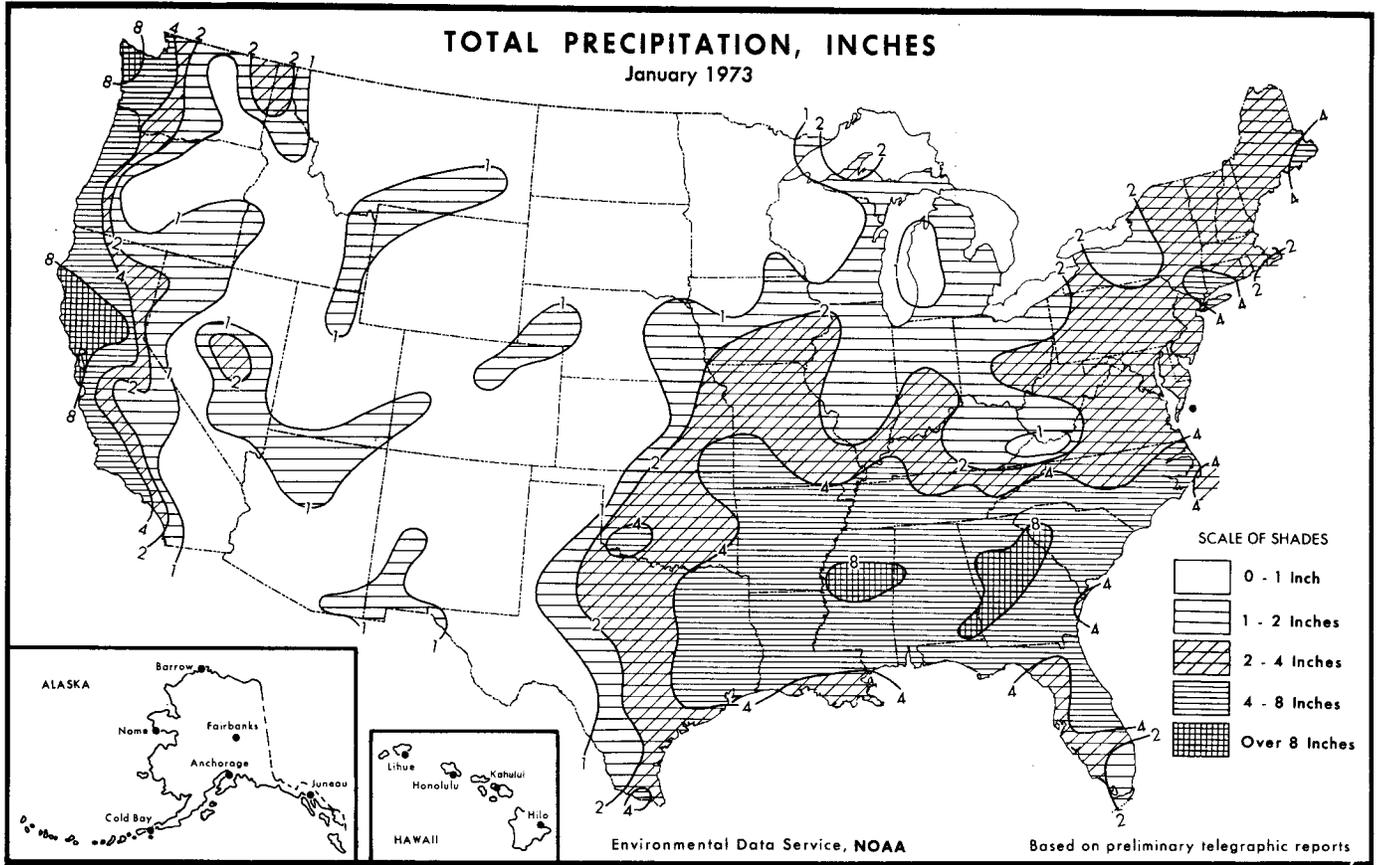
WEATHER - JANUARY 1973

TEMPERATURE: January temperatures averaged warmer than normal from the Pacific Northwest to New England. Northern Montana averaged more than 8° warmer than normal. In the central and eastern portions of the Nation the Missouri River and the Ohio River seemed to mark the boundary between the positive and negative departures. The western slope of the Central Rocky Mountains was intensely cold averaging 6° to 12° colder than normal. In general, cold weather persisted over almost the entire Nation during the first half of January. The "January thaw" came in the third week. The last week was cold southwest of a line from Portland, Oreg., to Mobile, Ala., and mild northeast of that line.

PRECIPITATION: Stormy weather persisted over much of the Nation in the first week of January. Variable weather occurred in the second week. It included rain along the Pacific Coast early in the week, snow flurries in the Great Lakes Region and mixtures of snow, sleet, freezing rain, and freez-

ing drizzle over much of the South at midweek, and more rain in the Pacific Northwest with snow in the higher elevations and light to heavy rain showers over the Deep South at midmonth. Gales accompanied heavy precipitation in the Far West in the third week of January. At midweek, snow began over the central and southern Rocky Mountains and continued through the rest of the week. Another Pacific storm brought more rain to the western coast. Freezing rain fell in the central Great Plains and tornadoes and severe thunderstorms occurred from Texas to Arkansas and Mississippi. The last week of January was stormy along the Pacific Coast. Heavy snow fell shortly after midweek from the Pecos River to the Hill Country in Texas. Precipitation spread eastward. Snow fell in the Northeast, blizzards occurred in the Great Plains, and a few tornadoes struck central Florida.

L. W. Dye



Temperature and Precipitation Data for Jan. 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	41	- 6	6.9	+ 1.9	New Orleans	50	- 5	2.7	- 1.1	OKLA, Okla. City	33	- 4	3.4	+ 2.1
Mobile	49	- 4	2.0	- 2.6	Shreveport	45	- 3	5.7	+ .9	Tulsa	34	- 2	3.4	+ 1.7
Montgomery	46	- 2	3.8	- .3	MAINE, Caribou	10	- 1	2.6	+ .5	OREG, Astoria	40	- 1	5.7	- 6.0
ALASKA, Anchorage	3	- 9	.7	- .1	Portland	23	+ 1	2.6	- 1.8	Burns	26	+ 1	1.4	- .2
Fairbanks	-13	+ 3	.1	- .1	MD, Baltimore	35	0	2.8	- .6	Medford	38	+ 3	2.0	- 1.1
Juneau	19	- 6	4.4	+ .4	MASS, Boston	31	+ 1	3.1	- .8	Pendleton	31	- 1	.5	- .9
Nome	- 5	- 9	1.7	+ .7	Nantucket	32	-	1.9	-	Portland	39	+ 1	3.7	- 1.7
ARIZ, Flagstaff	23	- 4	1.9	+ .1	MICH, Alpena	23	+ 3	1.0	- 1.0	Salem	39	0	5.6	- 1.1
Phoenix	51	+ 1	1.1	- .6	Detroit	29	+ 2	1.7	- .4	PA, Allentown	31	+ 2	3.6	+ .4
Tucson	48	- 2	.1	- .7	Flint	29	+ 7	1.4	- .3	Erie	30	+ 3	1.7	- 1.0
Winslow	32	+ 1	.2	- .2	Grand Rapids	24	0	.8	- 1.1	Harrisburg	34	+ 3	3.2	+ .4
Yuma	53	0	T	- .4	Houghton Lake	22	+ 3	1.2	- .3	Philadelphia	35	+ 3	3.9	+ .6
ARK, Fort Smith	37	- 3	3.6	+ .9	LaSaling	28	+ 4	1.1	- .9	Pittsburgh	30	+ 1	2.0	- .7
Little Rock	40	- 1	5.6	+ .4	Marquette	22	+ 2	1.5	- .4	Scranton	29	+ 1	2.1	- .2
CALIF, Bakersfield	48	+ 1	2.1	+ .9	Muskegon	28	+ 3	.4	- 1.7	R.I, Providence	31	+ 2	3.1	- .7
Eureka	47	0	6.5	- .2	S. Ste. Marie	19	+ 3	1.7	- .4	S.C, Charleston	48	- 2	4.6	+ 2.1
Fresno	45	- 1	1.9	- 1.1	MINN, Duluth	12	+ 3	.7	- .5	Columbia	45	- 2	5.3	+ 2.3
Los Angeles	56	0	4.4	+ 1.3	Internatl Falls	10	+ 7	.1	- .7	Greenville	41	- 3	4.3	0
Red Bluff	42	- 4	7.7	+ 3.4	Minneapolis	17	+ 5	.9	+ .2	S. DAK, Aberdeen	17	+ 6	.2	- .5
San Diego	56	+ 1	1.7	- .3	Rochester	16	+ 2	1.1	+ .2	Huron	19	+ 6	.7	+ .2
San Francisco	48	- 1	8.3	+ 4.3	St. Cloud	13	+ 3	.5	- .2	Rapid City	27	+ 5	1.1	- .3
Stockton	45	0	6.3	+ 3.1	MISS, Jackson	44	- 4	4.6	+ .3	Sioux Falls	19	+ 4	.4	- .2
COLO, Denver	27	- 2	1.3	+ .7	Meridian	45	- 3	5.0	+ .3	TENN, Chattanooga	36	- 6	5.1	- .5
Grand Junction	12	-14	.8	+ .2	MO, Columbia	30	0	3.1	+ 1.4	Knoxville	38	- 3	3.2	- 1.7
Pueblo	30	0	.1	- .2	Kansas City	27	- 5	2.0	+ .6	Memphis	39	- 3	4.6	- 1.5
CONN, Bridgeport	30	0	4.8	+ 1.1	St. Louis	33	+ 1	1.4	- .6	Nashville	38	- 2	3.4	- 2.1
Hartford	29	+ 3	3.3	- .3	Springfield	33	- 1	4.4	+ 2.4	TEX, Abilene	38	- 7	3.5	+ 2.6
D.C, Washington	38	+ 1	2.3	- .7	MONT, Billings	23	0	1.3	+ .8	Amarillo	33	- 4	.6	- .1
FLA, Apalachicola	55	0	4.8	+ 1.7	Glasgow	18	+ 8	T	- .5	Austin	46	- 4	3.4	+ 1.0
Ft. Myers	66	+ 2	3.1	+ 1.6	Great Falls	25	+ 3	.3	- .3	Beaumont	48	- 6	4.8	+ .4
Jacksonville	54	- 2	4.6	+ 2.1	Havre	24	+10	T	- .5	Brownsville	55	- 6	2.1	+ .7
Key West	72	+ 2	2.4	+ .9	Helena	18	- 1	.2	- .3	Corpus Christi	52	- 5	2.2	+ .6
Lakeland	62	0	4.3	+ 2.2	Kalspell	19	- 1	.7	- .7	Dallas	43	- 3	4.1	+ 1.8
Miami	70	+ 4	3.4	+ 1.4	Miles City	10	- 7	1.4	+ 1.0	Del Rio	48	- 4	.8	- .1
Orlando	62	+ 2	4.8	+ 2.8	Missoula	22	+ 3	.4	- .5	El Paso	43	0	1.2	+ .7
Tallahassee	52	- 2	5.0	+ 1.6	NEBR, Grand Island	24	+ 1	.8	+ .2	Fort Worth	43	- 3	3.3	+ 1.3
Tampa	62	+ 1	3.2	+ 1.1	Lincoln	23	- 2	1.1	+ .2	Galveston	51	- 4	3.2	- .3
GA, Atlanta	41	- 4	8.9	+ 4.5	Norfolk	21	+ 2	1.1	+ .3	Houston	47	- 7	5.0	+ 1.2
Augusta	45	- 3	5.2	+ 2.2	North Platte	22	- 2	.4	0	Lubbock	35	- 4	1.4	+ .7
Macon	47	- 2	6.1	+ 2.7	Omaha	23	+ 2	1.6	+ .7	Midland	39	- 5	.9	+ .1
Savannah	50	- 2	3.6	+ .8	Valentine	21	+ 1	.7	+ .3	San Angelo	41	- 6	1.9	+ .9
HAWAII, Hilo	72	+ 1	3.5	- 8.3	NEV, Ely	20	- 3	1.3	+ .5	San Antonio	47	- 5	2.8	+ 1.1
Honolulu	73	0	.7	- 3.1	Las Vegas	41	- 2	.5	0	Victoria	50	- 5	2.4	+ .1
Kahului	70	- 2	2.1	- 1.0	Reno	28	- 2	1.5	+ .3	Waco	42	- 6	3.5	+ 1.2
Lihue	71	0	1.0	- 4.5	Winnemucca	27	0	1.4	+ .3	Wichita Falls	38	- 5	2.7	+ 1.6
IDAHO, Boise	31	+ 2	1.1	- .2	N.H, Concord	32	+11	2.4	- .8	UTAH, Blanding	12	-15	.8	- .4
Lewiston	32	+ 1	.7	- .4	N.J, Atlantic City	36	+ 1	3.3	- .3	Salt Lake City	19	- 8	1.5	+ .1
Pocatello	30	- 2	1.0	- .2	Trenton	35	+ 2	3.9	+ .8	VT, Burlington	22	+ 6	2.1	+ .1
ILL, Cairo	36	- 1	3.3	- 1.2	N.MEX, Albuquerque	32	- 3	.9	+ .5	VA, Lynchburg	36	- 2	3.1	- .2
Chicago	29	+ 3	1.5	- .4	Roswell	39	+ 1	.7	+ .2	Norfolk	41	0	2.5	- .8
Moline	27	+ 4	2.5	+ .9	N.Y, Albany	27	+ 4	2.2	- .3	Richmond	38	- 1	2.7	- .8
Peoria	27	+ 1	1.8	- .1	Binghamton	26	+ 2	1.6	- .9	Roanoke	37	- 1	2.6	- .5
Rockford	26	+ 4	1.7	- .3	Buffalo	28	+ 3	2.0	- .8	WASH, Colville	24	-	2.0	+ .1
Springfield	29	+ 1	1.3	- .6	New York	35	+ 1	3.5	+ .2	Omak	22	+ 1	.6	- .6
IND, Evansville	33	- 1	2.5	- 1.5	Rochester	29	+ 4	1.3	- 1.1	Quillayute	39	0	7.3	- 8.0
Fort Wayne	29	+ 2	1.6	- 1.1	Syracuse	28	+ 4	1.9	- 1.3	Seattle-Tacoma	39	+ 1	4.3	- 1.4
Indianapolis	31	+ 2	2.3	- .8	N.C, Asheville	38	- 2	4.3	+ 1.1	Spokane	27	+ 2	2.1	- .3
South Bend	30	+ 4	1.6	- .6	Charlotte	40	- 3	4.1	+ .6	Walla Walla	33	0	1.0	- .9
IOWA, Burlington	27	+ 3	2.5	+ .9	Greensboro	36	- 4	3.5	+ .1	Yakima	28	0	1.2	0
Des Moines	22	+ 2	2.1	+ .8	Hatteras	46	- 1	4.0	+ .1	W.VA, Beckley	31	- 3	1.8	- 2.5
Dubuque	23	+ 4	1.7	- .1	Raleigh	39	- 3	2.7	- .5	Charleston	32	- 5	1.5	- 2.8
Sioux City	22	+ 3	1.2	+ .4	Wilmington	47	- 1	4.4	+ 1.5	Huntington	34	- 3	1.5	- 2.2
KANS, Concordia	27	- 1	1.0	+ .3	N.DAK, Bismarck	16	+ 6	.1	- .3	Parkersburg	33	- 2	2.2	- 1.1
Dodge City	29	- 2	.6	0	Fargo	10	+ 3	.1	- .4	WIS, Green Bay	21	+ 4	1.9	+ .7
Goodland	27	0	.7	+ .3	Williston	17	+ 9	T	- .6	La Crosse	20	+ 3	.9	- .3
Topeka	28	- 1	2.7	+ 1.7	OHIO, Akron-Canton	30	+ 2	1.7	- 1.2	Madison	23	+ 5	1.5	+ .1
Wichita	27	- 5	2.7	+ 1.9	Cincinnati	32	- 2	1.8	- 1.9	Milwaukee	25	+ 4	1.1	+ .7
KY, Lexington	35	0	1.5	- 3.4	Cleveland	30	+ 2	1.6	- 1.1	WYO, Casper	19	- 4	.6	0
Louisville	35	0	2.0	- 2.1	Columbus	31	+ 1	2.5	- .7	Cheyenne	24	- 1	.2	- .3
LA, Baton Rouge	49	- 4	4.0	- .8	Dayton	31	+ 1	1.6	- 1.6	Lander	9	-10	.9	+ .4
Lake Charles	49	- 5	4.1	- .3	Toledo	28	+ 2	1.6	- .7	Sheridan	20	- 1	.4	- .2
					Youngstown	27	0	1.8	- 1.4	P.R. San Juan				

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

(Continued from Page 7)

MONTANA: Cold and wet first of week; moderating temperatures over weekend with some light precipitation. Temperatures averaged about 15° below normal over southwest and 10° below normal central and south-central. Other areas had temperatures near to a little above normal. Precipitation mostly near to above normal, with some areas receiving much above normal precipitation. Snow cover protection mostly poor for winter wheat, but wind damage light. Livestock condition good. Grazing mostly open, but difficult portions southwest and north-central. Almost all range livestock receiving supplemental feed. Early calving and lambing progressing well.

NEBRASKA: Temperatures near normal for first time in 4 weeks. Temperatures ranged from slightly above normal in northwest to 9° below normal in portions of Panhandle. Midweek cold spell drove highs to teens and 20's. Subzero minima in west on 7th and 8th. With exception to southeast and Panhandle, precipitation amounts small. On 6th and 7th snow storm affected most sections; accumulations to 5 inches in extreme southeast. Weekend dry; warming trend. Attempts to harvest corn and grain sorghum some areas, progress limited. Corn harvest 97% complete. Sorghum grain harvest 92% complete. Winter wheat crops good to excellent condition. Main farm activities caring for livestock. Other activities included tax work, attending meetings, securing seed and fertilizer, and repairing farm machinery. Muddy feed lots caused continued slow gain on market animals. Producers continued to feed large amounts of grain, silage, and hay. Supplies of hay and forage indicated as average on 47% of reports received, while 40% reported below-average supplies.

NEVADA: A warm wet week with temperatures averaging 2° to 5° above normal all divisions. Moderate to heavy precipitation all divisions from 0.58 inch in extreme south to 0.67 inch in northwest. Light snow in north and south-central. Local snow ground cover. Routine winter chores remain major farming activities. Livestock continue to winter in fair to good condition. Supplemental feeding major source of feed. Stockwater and feed supplies generally adequate in most areas, but shortage of hay could exist before feeding season over. Early calving and lambing underway.

NEW ENGLAND: Cold most of week with means mostly 1° to 3° below normal. General precipitation on 8th to 9th but totals very light except up to 1.00 inch in extreme southeastern sections of Maine and Massachusetts. Storm off-shore on Sunday brought snow to these same southeastern localities, with Cape Cod receiving up to nearly 1 foot locally, with drifts ranging up to 5 to 8 feet. Many schools on Cape Cod closed Monday, 12th. Total precipitation for week mostly 0.05 to 0.25 inch but ranged to over 1.50 inches on Cape Cod.

NEW JERSEY: A cold week averaging 2° below normal. Extremes ranged from 5° at East Millstone on 12th to 58° at Millville on 6th. Rainfall averaged 0.60 inch over most of State but averaged 1.00 inch along coast. One to 2 inches of snow fell in some interior sections of North Jersey on 7th.

NEW MEXICO: Light precipitation, mostly snow, middle of period in the north and moderate amounts in south. Heaviest in extreme southeast with from 0.50 to 1.00 inch. Temperatures averaged below normal with much below normal in central and extreme southeastern portions of State. Season-

ally cold daytime temperatures with many freezing daytime temperatures on Thursday and Friday. Highest temperatures Monday cooling to lowest temperatures on Friday. Very little field activity due rains and snow. Caring for livestock about only job being done. Livestock, range conditions still generally good. Supplemental feeding required to maintain stock condition. Calving activity in upswing.

NEW YORK: Temperatures averaged below normal and coldest since week ending January 14. Seasonable through 8th with daily maximums in 30's to low 40's. Much colder late week. Minimums 15° to 20° below zero northern sections, ranging up to +10° on Long Island on 11th and 12th with zero to -10° southern Upstate. Precipitation light occurring in general storm of 8th and 9th. Snowfall 1 inch or less in southeast quarter but 3 to 6 inches western, central, and northern sections. Liquid totals 0.20 to 0.40 inch. Snow cover continues 12 to 24 inches northern half with small increase of depth. First widespread snow cover southern Upstate since late December with mostly 1 to 4 inches by 11th.

NORTH CAROLINA: Scattered showers 7th, 8th, 9th, amounts mostly less than 1.00 inch. Record heavy snowfall southeast 9th, 10th; some amounts 12 to 15 inches, tapering off north and west to 4 to 6 inches east Piedmont and little or none mountains and northwest Piedmont. Normal temperatures dropping sharply over weekend to 5° to 15° inland areas morning of 12th. Many farmers eastern Carolinas harvested crops a few days late last week as fields became workable. Tobacco plant bed activities -- gassing and seeding -- far behind schedule. Land preparation for Irish potatoes major producing areas. Small grains fair to good condition, flood damage low-lying areas. Hay and feed grains mostly adequate, short supplies few areas. Wet pastures do not allow heavy grazing. Farm preparations for 1973 crops delayed further by heavy snow eastern Carolinas on weekend.

NORTH DAKOTA: Colder most of week. Mild and windy on weekend. Temperatures averaged 1° to 5° above normal. Precipitation totals trace to 0.05 inch. Totals for year to date much below normal. Snow cover trace in west; 2 inches or less in east. Temperature cold but no snow. Limited grazing helping to conserve feed and roughage supplies. Hay supplies adequate and accessible. Livestock in good condition. Grain hauling continued as boxcars become available.

OHIO: Past week marked a return to more normal weather. From 5th to 7th, lows were in 30's and low 40's. On 8th, they dropped into the teens while on 9th-11th they ranged from near zero to upper teens. On 5th, highs in southern Ohio were in upper 50's to low 60's while in northern Ohio they were mostly in 30's. On 6th and 7th high temperatures ranged from mid-30's to mid-40's. For the 8th to 11th, highs were mostly in upper teens and 20's. Precipitation generally light. From evening of 7th to morning of the 8th, 1 to 2 inches of snow fell over State. Colder weather during week has given farmers a chance to catch up with manure hauling and machinery repair. Winter wheat conditions vary throughout the State. Some areas still have corn and soybeans to harvest. Other farm activities include livestock care and building maintenance. Plans for spring planting are being formed and farm records are receiving close attention.

OKLAHOMA: Temperatures averaged mostly 4° to 5° below normal. Precipitation ranged from few hundredths inch in west and north-central up to 1.40 inches in southeast. Harvest of cotton and soybeans becoming active early in week was halted by storm crossing State on Wednesday. Some north-east soybeans harvested from frozen soil later in week. Wheat continued mostly dormant with conditions mostly good to fair. Muddy fields limit grazing. Small grains seeding not yet underway. Supplemental feeding needs make hay shortage critical in some areas. Cattle losses increase as resistance drops.

OREGON: Mild week with light rains and cooling trend except warmer days western 1/3. Temperatures averaged 1° to 4° above normal except 6° to 8° above normal southeast half of State. Minima 6° to 45°; maxima 38° to 64°. 1 to 5 days of rain mostly midweek totaled 0.10 to 0.20 inch except 0.50 to 0.90 inch south coast. Orchard pruning increasing with moderate weather. Movement of apples and pears from storage continues with strong market. Potato and onion markets also continue strong. Some spring plowing and spraying of grain and clover in western Oregon. Feeding continues at heavy rates. Calving and lambing continue.

PENNSYLVANIA: Mild beginning of week, much colder Friday through weekend. Daily maxima 30's to 50's and overnight lows 20's and 30's until Friday. Weekend maxima in teens and 20's, minima below zero to upper teens. Extremes: 54°, -15°. Weekly temperatures near normal to 5° below normal. Precipitation generally light, weekly totals mostly 0.25 to 0.85 inch. Rain south, rain and snow central and north midweek, snow flurries north and west over weekend. Snow cover Monday morning 1 to 4 inches western and northern mountains, none elsewhere. Farmers tending to routine winter chores.

PUERTO RICO: Rainfall averaged 0.78 inch or about normal. Distribution was poor and many zones received little or no rain. Highest weekly total 4.06 inches north-central coast. Crop moisture conditions near normal all divisions except parts of south and central interior where lack of adequate rainfall continued. In these zones, crop growth retarded and yields reduced. Planting schedules also adversely affected. Temperatures averaged 77° on coast and 71° interior divisions, with mean departure of 1.3° below normal. Influx of cool air late in week brought near record minimum temperatures. Lowest minimum, 47°; highest maximum, 90°. Sugarcane harvesting operations progressed well in good weather. Coffee plantations active pruning, cleaning, and cultivating. Tobacco harvesting and drying operations made good progress with some planting also underway in favorable zones. Pastures fair in south and central where lack of rain retarded growth, but generally good to excellent most other zones. Minor crop yields and planting schedules affected by dry weather in south and central, but other zones near normal.

SOUTH CAROLINA: Temperatures averaged 3° above normal all sections. Snow fell in low Piedmont and Sandhills 9th and 10th, and snow and freezing rain fell farther south. Greatest depths approached 21 inches in central part of State. Wet fields prevented harvest of soybeans and cotton and stopped all other field activity.

SOUTH DAKOTA: Temperatures averaged from 6° above normal in east to 5° below normal in west. Extremes ranged from 64° at Oral on 7th to -15° at Oral on 8th. Precipitation fell as light snow midweek with most amounts from 0.05 to 0.15 inch although isolated greater amounts were reported in northwest where Harding received 0.32 inch with 3 inches of new snow on 6th. Snow cover on 9th ranged from none to 2 inches in lower elevations of west and from a trace to 3 inches in east except for isolated amounts of up to 5 inches in northeast. Up to 6 inches of snow on ground reported in northern Black Hills on 9th. Exposed fields of fall-sown grains causing some concern. Colder temperatures have eliminated some of the problems with muddy yards. Some lambing reported. Feed supplies remain adequate. Livestock in good condition. Caring for livestock main farm activity.

TENNESSEE: Weekly rainfall totals from about 1.00 inch east to 2.00 inches west. Daily rains heaviest 6th to 9th. Temperatures averaged 2° to 4° below normal. Mild early in week, cold balance of week. Extremes: 68° Nashville Monday, 13° Bristol Sunday. Some rainy weather and cold days aided farmers very little in completing their corn, cotton, and soybean harvest; however, some harvesting was accomplished. Farm activities included the usual feeding livestock, making repairs, and preparing tobacco beds for next season.

TEXAS: Snow, sleet, and freezing rain spread over all of Texas except Panhandle, Trans-Pecos, and Red River Valley Thursday disrupting transportation and curtailing numerous human activities. Precipitation amounts were generous Wednesday and Thursday with amounts of 1.00 inch or more in north-central and East Texas. Temperatures plunged to 10° at Dalhart, 5° at Junction, 21° at San Antonio, and 22° to 29° in the Lower Valley. Sunshine brought slow warming trends Saturday and Sunday. Wheat and oats made good growth and showed marked improvement early in week. Cold, icy weather which moved over High Plains on Wednesday and across State Thursday and Friday halted growth of small grains. Cotton harvest made some progress early in week, but was later halted by cold, wet weather. Cotton harvest 93% complete, compared with 99% a year ago. Land preparation in many areas made good progress until Wednesday or Thursday. In the Lower Rio Grande Valley, vegetable harvest was interrupted again by cold weather and sleet on Thursday and Friday. Cabbage, carrot, and lettuce harvest was delayed by inclement weather. In the Coastal Bend, many of the early melons planted were lost to the freeze on Friday morning. Some spinach and cabbage was harvested early in week, but cold rainy weather halted harvest on Thursday and Friday. In the San Antonio-Winter Garden, snow, sleet, and rain stopped all harvest activities the latter half of week. In the Knox-Haskell area, potato planting was postponed because of wet fields. Citrus harvest continued strong during the first part of week, but came to a standstill on Thursday and Friday because of the sleet and rain. Trees and fruit received no damage from the below-freezing temperature because of adequate moisture conditions and the short duration of cold.

UTAH: Rain or snow most sections of State middle of week and over weekend. Accumulated amounts of moisture generally light to moderate but locally heavy in a few localities. New Harmony 2.73 inches largest amount. Most areas, except extreme southwest, continue reporting snow cover. Temperatures average near normal southwest but 2° to 10° below normal elsewhere. Some early farm flock lambing started. This time last year some early plowing of fields underway in lower valleys, but this year farmers and ranchers still plowing snow. Care and feeding of cattle and sheep on winter range lands, on valley farms, and in feed lots, plus dairy herds and poultry flocks continue major activities. Snow cover delaying pruning in orchards. Preparation of machinery for spring fieldwork a current activity.

VIRGINIA: Temperatures above normal first half and below normal second half. Moderate to heavy rain and snow at midweek, some snow in extreme southeast near end of week. Wet soil stopped most fieldwork. Surplus moisture contained by 87% of topsoil. Less than 1 day suitable for fieldwork. Limited topdressing and tobacco plant bed preparation and seeding. Winter grains and grazing crops remained in favorable condition. Low temperatures and snow put major emphasis on feeding of livestock and care of newborn calves and lambs. Pruning active in orchards. Maple syrup made in Highland County. Testing seed and soils, repairing and replacing equipment for spring.

WASHINGTON: Western Washington: Fairly dry with near normal temperatures. Farmers working some fields for spring planting. Lifting and planting Christmas trees and caneberry pruning continued. Strawberries, flower bulbs showed good early growth. Short local hay supplies bolstered by shipments. Eastern Washington: Precipitation light. Heavy snow upper Okanogan Valley. Traces elsewhere. Temperatures near normal most of area. Pruning orchards, vineyards continued. Some fertilizer and weed spray applications. Most fields snow covered and still frozen. Some winterkill to wheat, barley, vegetable seed apparent. Lambing full swing, calving gaining momentum. Livestock good shape throughout State.

WEST VIRGINIA: Damp and mild with rain most days until February 8 when rain turned to light snow. Northwesterly flow from midweek on brought temperatures in teens with near zero higher elevations. Sunny but cold February 11 and 12. Weekly precipitation generally over 1.00 inch. Farm activities centered around tending livestock and general maintenance. Most livestock wintering well with adequate hay stocks available.

WISCONSIN: Week of pleasant winter weather. Sunshine plentiful and temperatures near normal. Extremes of 40° above zero in east Monday and 20° below zero in north Friday. Only precipitation during week was light snow across southeast half of State Wednesday. Up to 2 inches of light fluffy snow fell in some southeastern areas. Farm activities mainly care and feeding of livestock. Livestock in good condition.

WYOMING: Light to moderate snow most of Wyoming, Medicine Bow reported the most moisture with 0.51 inch. Temperatures averaged near to a little below normal statewide, except 8° to 21° below normal over the Big Horn and Wind River Ranges. Maxima were mostly 30's to low 40's western half, 45° to 60° eastern half. Minima were mostly -15° to -35° western half, -5° to -25° eastern half. Temperature extremes: 60° at Carpenter and -36° at Bondurant. Main agricultural activities included care and feeding of livestock. Spring lambing has begun in some areas. Livestock generally in good condition.

WATER SUPPLY OUTLOOK FOR THE WESTERN UNITED STATES
Issued as of February 1, 1973

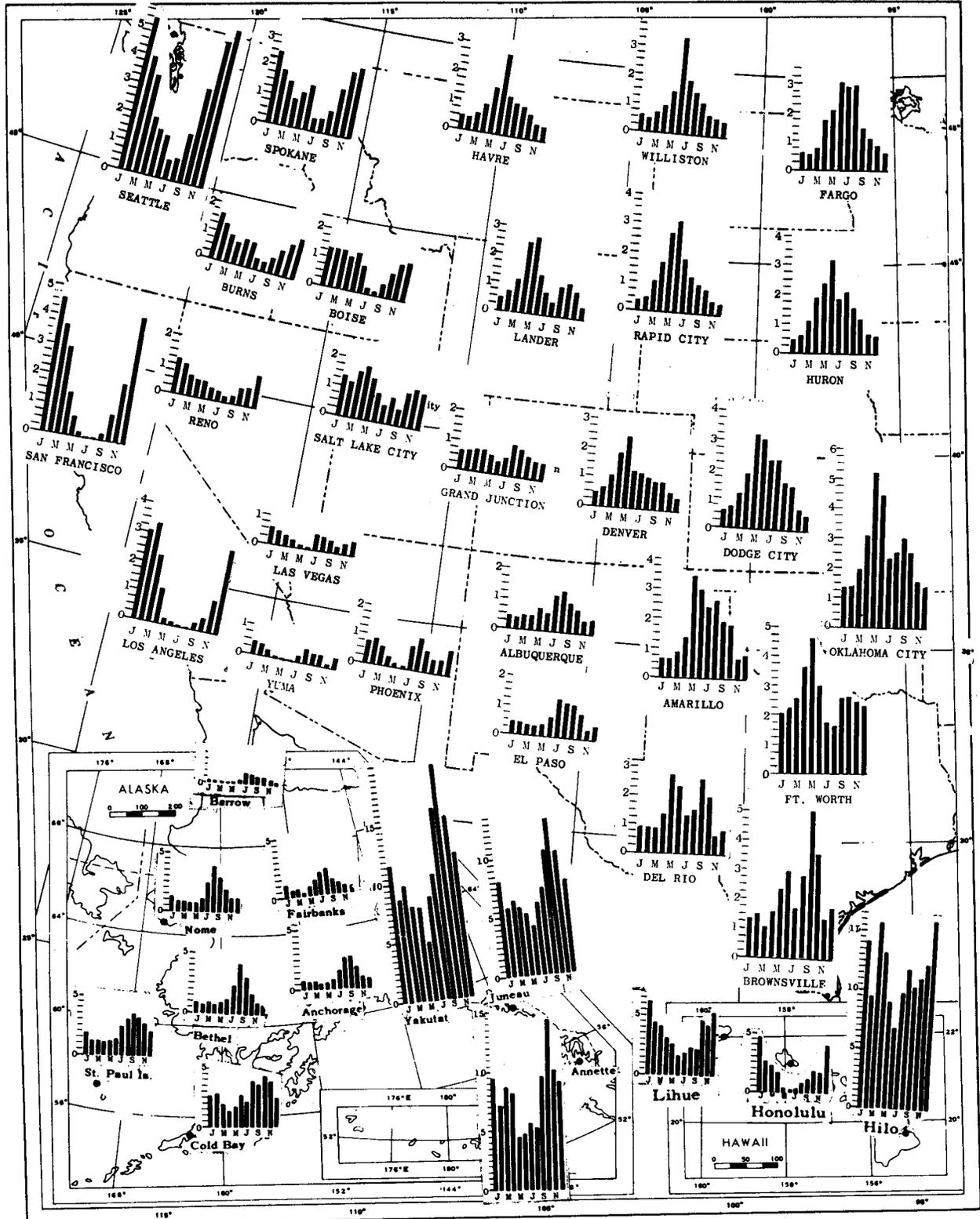
The table below shows the most probable February 1 forecasts in percent of the 15-year (1953-67) average. The most probable runoff forecasts are for the residual period, except water-year for the Sacramento and San Joaquin Basins; April 1 to September 30, 1973 for the Missouri, Yellowstone, and North Platte Basins; November 1, 1972 to June 30, 1973, for the Little Colorado Basin; and January 1 to June 30, 1973, for the Gila Basin. The publication "Water Supply Outlook for the Western United States," issued as of February 1, 1973 contains water supply forecasts for about 375 stations in the Western United States.

River	Station	FCST	%
		1,000 A.F.	15-yr Avg. +
Columbia	Grand Coulee, Wash.	67,800	82
Columbia	The Dalles, Oreg.	97,100	82
Snake	Clarkston, Wash.	24,700	83
Sacramento	Red Bluff, Calif.	8,500	97
San Joaquin	Big Creek, Calif.	1,450	114
Weber	Gateway, Utah	423	141
Jordan	Utah Lake, Utah	440	124
Truckee	Lake Tahoe to Farad	330	99
Colorado	Lake Powell, inflow	10,890	130
Green	Green River, Utah	4,030	124
San Juan	Bluff, Utah	1,770	150
Little Colo.	Woodruff, Ariz.	14	180
Gila	Solomon, Ariz.	140	132
Rio Grande	San Marcial, N.Mex.	575	137
Arkansas	Pueblo, Colo.	477	128
Missouri	Ft. Peck, Mont.	3,630	82
Yellowstone	Sidney, Mont.	6,350	100
North Platte	Glendo, Wyo.	902	136

+Period, 1953-67

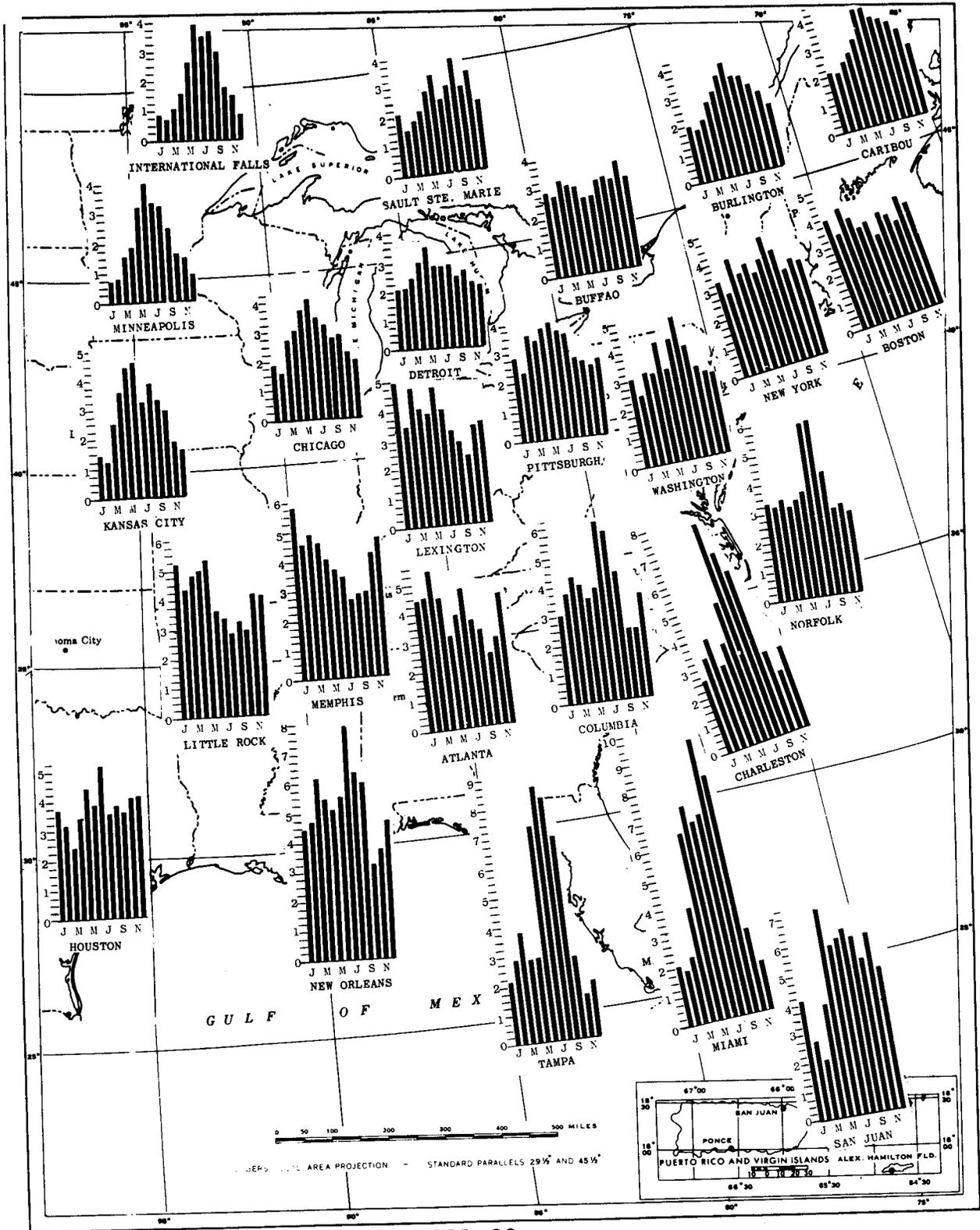
Office of Hydrology
National Weather Service

NORMAL MONTHLY TOTAL PRECIPITATION (Inches) WESTERN UNITED STATES For Selected Stations



Based on 30-year Period, 1931-60

NORMAL MONTHLY TOTAL PRECIPITATION (Inches) EASTERN UNITED STATES For Selected Stations



Based on 30-year Period, 1931-60

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