

Weekly Weather & Crop Bulletin

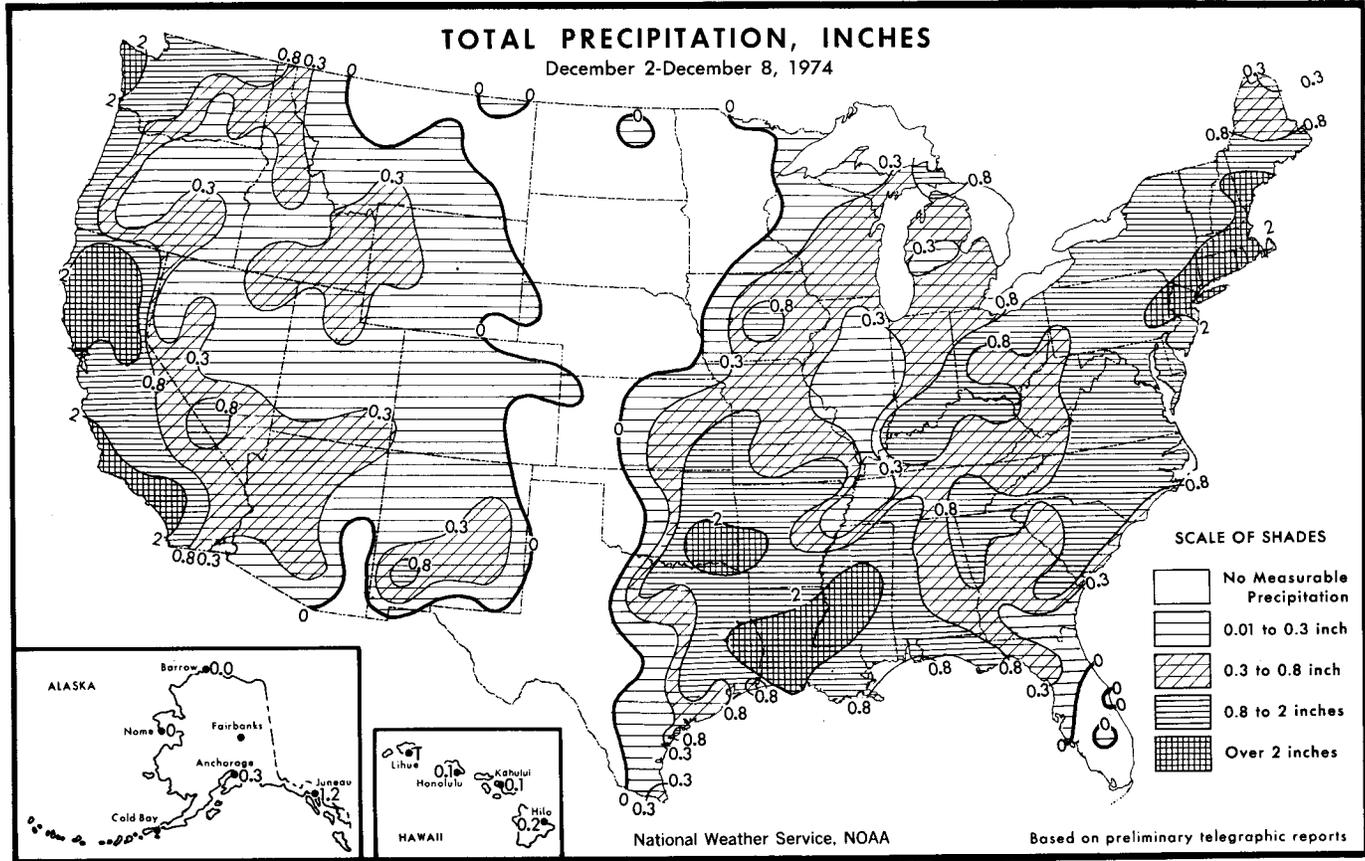
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NATIONAL WEATHER SUMMARY

For the Week of December 2-8

HIGHLIGHTS: A vigorous storm lashed much of the Northeast with gusty winds, high tides, and heavy rains along the Coast while dumping heavy amounts of snow in the Ohio-Michigan area. Early in the week, both Detroit, Mich. and Akron, Ohio reported over 18 in. of snow on the ground.

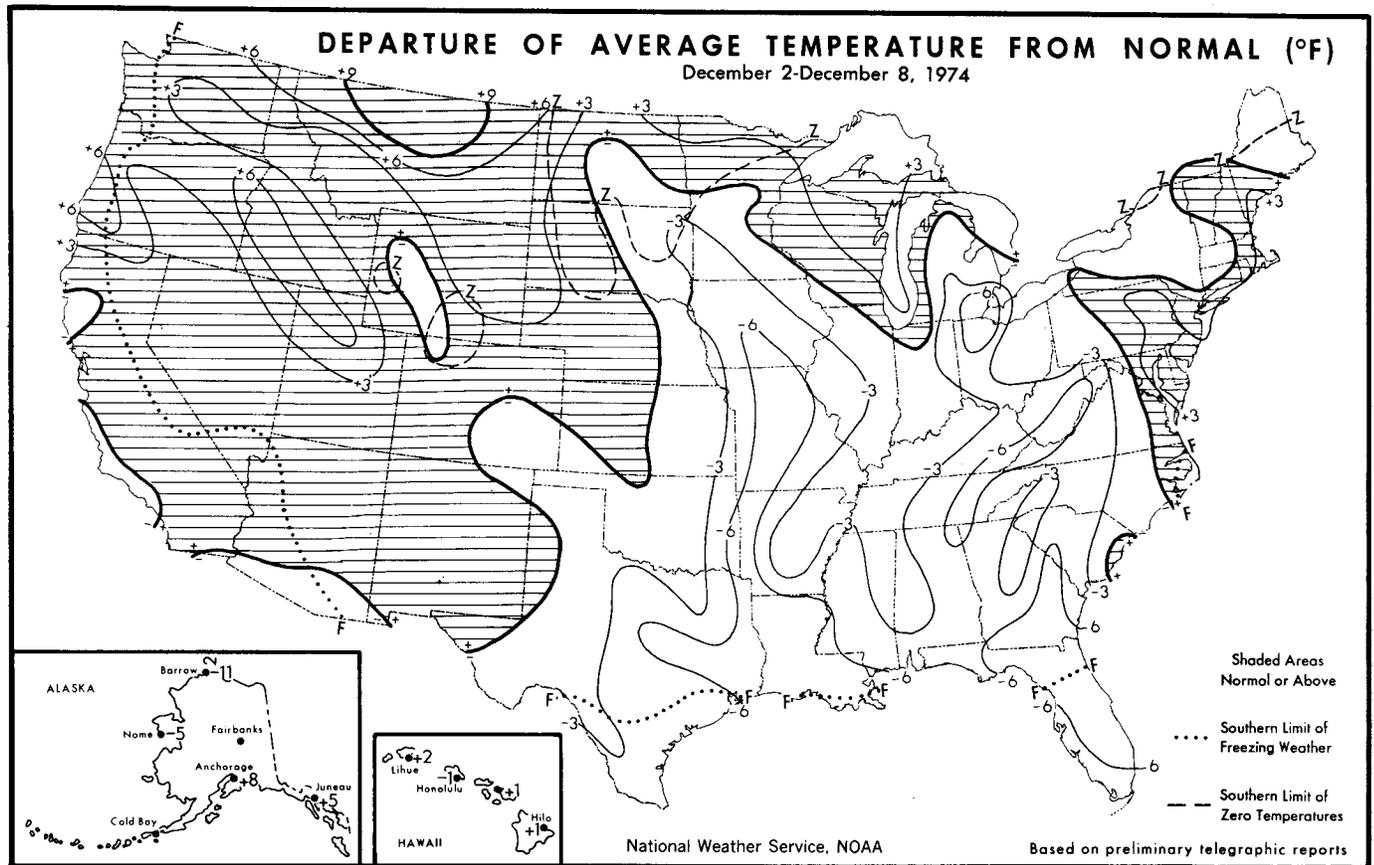
Below normal temperatures prevailed across the entire Nation's eastern half extending as far south as the Gulf States and southern Florida. Temperatures averaged as much as 6 to 8° below normal throughout most of Florida.

PRECIPITATION: A low centered over southern Pennsylvania caused heavy snows in western Pennsylvania and eastern Ohio early in the week. During the week, the low drifted northeastward churning up rain and snow along the Appalachians. Rains fell east of the Appalachian mountains and snow fell west of the mountains. Behind the storm system a high pressure ridge extending through the western Plains brought fair weather to those areas.

At midweek, a new cold front invaded the Pacific Coast, triggering widespread heavy rains in California and Washington. Later, in the week this storm soaked many sections of Mississippi, Louisiana, Oklahoma and Arkansas and moved on northeastward off the Atlantic Coast.

Monday, rain fell along the Pacific Northwest down the coast into central California. In the east, rain mixed with snow was reported from New England through the lower Great Lakes and into Maryland.

Snow continued from northern New England to the eastern Great Lakes and the northern and central Appalachians, as the intense low moved off the Maine Coast on Tuesday. A cold front approaching the North Pacific Coast spread showers from western Washington through central California. As skies cleared over southern West Virginia in the aftermath of the worst winter storm since Jan., 1968 over two feet of snow was measured in some areas.



Early Wednesday, the Pacific Coast front began moving slowly eastward while continuing to dump locally heavy rains across southern California including 5.00 to 8.00 in. over the mountains.

Rain and snow fell in the Rockies and eastern Plateau Region Thursday morning. Some accumulations of snow included: 3 in. at Flagstaff, Ariz.; 4 in. at Bryce Canyon, Utah, and 1 in. at Durango, Colo.

Friday, a complex weather system triggered widespread rains over most of Mississippi and Louisiana. More than 1.00 in. of rain fell at Jackson, Miss.

A cold front produced snow in the central Rocky Mountain Region, the upper Mississippi Valley and the upper Great Lakes on Saturday. Three inches accumulated in Lander, Wyo. and Dubuque, Iowa and 1 in. at Madison, Wis.

By Sunday morning snowfalls diminished over much of the Great Lakes Region, after dumping 2 in. of snow at Houghton Lake, Mich. and 1 in. at Marquette, Mich. in the first six hours of the day.

TEMPERATURE: The low pressure center in Pennsylvania pumped cold Canadian air southward from the Great Lakes deep into Florida, holding temperatures well below normal. While this Low moved Northeastward, cold air continued to flow behind the storm system. Ahead of the Pacific cold front downslope airflow caused considerable warming along the eastern slopes of the Rocky Mountains. Great Falls, Mont. reporting an average weekly temperature of 10° above normal.

Early Monday, freezing temperatures dipped into east Texas, Louisiana and the Gulf Coast. The

Nation's low temperature was a chilly 5° below zero at Houlton, Maine.

Pre-dawn temperatures were rather cool from the Plains to the Gulf Coast on Tuesday. New Orleans, La. set a record with 25°. Readings in the 30's reached as far south as southern Texas and northern Florida.

Wednesday, snow cover in Missouri and Illinois caused temperatures in a few spots to dip into the single numbers during the morning. Kirkville, Mo. reached 5° above. Temperatures remained cool in the southeast with readings in the 30's near much of the Gulf Coast. Tallahassee, Fla. set a record low with 19°.

Cool readings dominated the southeastern U.S. again on Thursday with freezing temperatures reaching the eastern Gulf Coast. Tallahassee, Fla. dipped to 21° setting a record for the second day in a row. A record low for the third consecutive day was set at New Orleans, La. with 28°.

Friday, northern New England experienced unseasonably cold weather. Caribou, Maine only reached 19° and reported 19 in. of snow on the ground. Victoria, Texas had the Nation's warmest reading with 80°.

Arctic air began sinking southward into the northern Plains. Saturday temperatures at sunset fell into the teens and low 20's over the Dakotas and Minnesota.

Sunday, temperatures in the single figures prevailed in the afternoon at the upper end of the Mississippi Valley and the Great Lakes area and remained below freezing as far south as Oklahoma.

NATIONAL AGRICULTURAL SUMMARY

For the Week of December 2-8

HIGHLIGHTS: Rain or snow interrupted row crop harvesting in most States in the eastern half of the country. Nationwide, harvest of corn for grain and soybeans was nearly 95% complete by December 8th. Soybean combining was slightly behind last year's progress while corn harvest was virtually complete in many States.

SMALL GRAINS: Winter wheat condition was generally good in the Southern Great Plains. Cold and wet weather in Texas and dry soil in a few areas in Kansas hampered growth. Wheat pastures furnished adequate grazing in much of Texas and Oklahoma.

Dry soil conditions in most winter wheat areas of Montana, South Dakota and Wyoming along with light snow cover continue to leave wheat vulnerable to low temperatures.

Soil moisture improved slightly in Washington but wheat growth, especially the late seeded fields, was slow. Spraying was underway in Oregon and Washington for greenbugs.

Small grains in the South Atlantic are in mostly fair to good condition and seeding is still active in the Carolina's and Georgia.

CORN: Harvest of the remaining corn for grain was hampered by rain or snow over much of the Eastern half of the Nation. High moisture content of grain from shelling conditions and muddy fields slowed harvest progress. By December 8th, harvest of the Nation's corn crop was nearly 95% complete; last year harvest was virtually complete in many States.

The Corn Belt harvest advanced 3 points to 94% complete on the 8th, versus 99% in 1973. Harvest was 92% finished in Illinois, about average progress. In Indiana, harvest was 85% done, three weeks behind the 1973 progress. Harvest in Missouri was 88% finished, slightly behind the 1973 level while in Kansas harvest was 96% done, slightly ahead of the 1973 pace.

Corn harvesting was about 98% complete in both the South Atlantic and South Central regions.

COTTON: Rain interrupted cotton harvest in many areas but farmers made good progress where weather permitted. In Texas, cotton harvesting made rapid progress. Cotton harvesting in the 11 Southern States advanced 9 points to 69% complete. The Texas crop was 54% done with excellent progress being made in the High and Low Plains. Harvest in Arkansas was 78% done, 85% in Mississippi, 90% in Louisiana and 92% in Alabama. Cotton picking was active in Georgia, but rains slowed progress in North and South Carolina. In Missouri, farmers have picked 88% of the crop versus 95% in 1973 and the average 76%.

Cotton harvesting was nearly complete in California but rains halted picking. Rain also stalled harvest in Arizona, but picking was in full swing until then. In New Mexico, the cotton harvest was about 75% through.

SOYBEANS: Harvest of the Nation's soybean crop was 95% complete on December 8th, slightly

behind last year's pace. Harvest was virtually finished in all Corn Belt States except Indiana, Kansas, and Missouri.

Soybean harvest in the South Atlantic and South Central States was nearly 90% done, about equal to last year's progress. Harvest was 90% or more complete in all Southern States except Arkansas, Mississippi, North Carolina, and Oklahoma. In Arkansas and Mississippi 88% of the crop was harvested and in North Carolina 89% was combined. In all three States, harvesting progress was ahead of normal. Soybean harvest was making fair progress in Oklahoma, but two weeks of open weather are needed to harvest the remaining soybeans. Precipitation and muddy field conditions slowed harvest in many areas.

OTHER CROPS: Sorghum grain combining advanced sharply in Kansas and was 95% finished. In Texas, harvest was 98% done, equal to average progress, but behind last year. Oklahoma farmers were busy harvesting sorghum until rain slowed activity on the 5th.

Sugarbeets were growing well in Arizona while harvest was 88% done in Texas.

Sugarcane harvest was hampered by muddy fields in Louisiana, and was 75% complete versus 73% for both 1973 and normal. Harvest was in full swing in Florida where the cool weather aided the cane crop.

Tobacco stripping conditions were mostly good in Kentucky and demands for burley continued strong. In Tennessee the tobacco crop was nearly all stripped and moving rapidly to auctions.

FRUITS AND NUTS: Pruning, spraying and other post-harvest field work continues in California, Washington, and Oregon orchards. Navel orange harvest was increasing in California with good color and sugar. Citrus harvest continues to pick up momentum in Texas and fruit size and quality remain excellent. In Florida, citrus groves were in generally good condition, but rain was needed and dry groves were showing stress. Harvest remained very active.

Pecan harvest continued active in the Southern States.

VEGETABLES: Cold temperatures damaged tomato and bean crop in Texas and slowed planting of other vegetables. Light damage also occurred to some tender crops in central Florida, but harvest continued active. In Arizona, broccoli, lettuce, and red chili harvests were active and spring carrots were being planted. Artichokes, brussels sprouts, and market tomatoes were declining seasonally in California. Rains hampered broccoli and cauliflower harvests.

PASTURES AND LIVESTOCK: Cold weather has stopped pasture growth in many States and supplemental feeding was increasing to maintain cattle in good condition. Open weather permitted grazing in Montana, Idaho, and Wyoming on lower elevations. Grazing on fall seedings was underway in Texas, Oklahoma, Kansas, Colorado, and New Mexico. Snow restricted grazing in some Northern States, mainly east of the Mississippi River.

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., Dec. 8, 1974

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	43	-4	.7	-.5	La. Baton Rouge . . .	48	-6	1.3	+.2	Youngstown . . .	30	-2	.9	+.3
Mobile . . .	49	-5	.8	-.5	Lake Charles . . .	49	-7	2.4	+1.1	OKLA. Okla. City . . .	41	-2	.3	0
Montgomery . . .	47	-3	.4	-.7	New Orleans . . .	48	-8	1.9	+.7	Tulsa . . .	40	-2	1.2	+.8
ALASKA. Anchorage . . .	23	+8	.3	0	Shreveport . . .	45	-6	1.1	+.2	OREG. Astoria . . .	48	+4	1.6	-.9
Barrow . . .	-21	-11	0	-.1	MAINE. Caribou . . .	18	-3	.9	+.2	Burns . . .	31	+1	.4	0
Fairbanks . . .	---	---	---	---	Portland . . .	32	+3	2.1	+1.1	Medford . . .	45	+6	.2	-.6
Juneau . . .	34	+5	1.2	+.1	MD. Baltimore . . .	42	+4	1.2	+.4	Pendleton . . .	42	+4	.2	-.6
Kodiak . . .	---	---	---	---	MASS. Boston . . .	39	+3	2.2	+1.2	Portland . . .	47	+5	.9	-.5
Nome . . .	2	-5	0	-.2	Chatham . . .	39	---	1.1	---	Salem . . .	45	+3	1.4	-.1
ARIZ. Flagstaff . . .	32	+1	.4	-.1	MICH. Alpena . . .	28	+1	.5	0	PA. Allentown . . .	37	+3	2.6	+1.8
Phoenix . . .	55	+1	.5	+.4	Detroit . . .	25	-7	.5	-.1	Erie . . .	32	0	1.3	+.5
Tucson . . .	52	-2	.3	+.1	Flint . . .	28	-2	.7	+.3	Harrisburg . . .	37	+1	1.8	+1.0
Winslow . . .	38	+2	.1	0	Grand Rapids . . .	28	-2	.4	-.2	Philadelphia . . .	43	+5	1.3	+.5
Yuma . . .	58	0	.1	0	Houghton Lake . . .	26	0	.5	0	Pittsburgh . . .	32	-1	.8	+.2
ARK. Fort Smith . . .	38	-6	1.1	+.4	Lansing . . .	26	-4	.4	-.1	Scranton . . .	36	+4	1.9	+1.3
Little Rock . . .	42	-2	.7	-.3	Marquette . . .	30	+4	.2	-.4	R. I. Providence . . .	37	+2	2.4	+1.4
CALIF. Bakersfield . . .	52	+2	1.2	+1.0	Muskegon . . .	32	+1	.3	-.3	S. C. Charleston . . .	54	0	.4	-.3
Eureka . . .	52	+2	1.9	+.4	S. Ste. Marie . . .	24	0	1.2	+.6	Columbia . . .	43	-5	.9	+.2
Fresno . . .	49	+1	1.0	+.6	MINN. Duluth . . .	18	0	T	-.4	Greenville . . .	41	-3	.4	-.5
Los Angeles . . .	58	+1	2.3	+1.8	Internatl Falls . . .	16	+3	T	-.3	S. D. Aberdeen . . .	19	-2	T	-.1
Red Bluff . . .	48	0	3.3	+2.5	Minneapolis . . .	23	0	0	-.2	Huron . . .	20	-3	T	-.1
San Diego . . .	59	+1	1.4	+1.0	Rochester . . .	22	-2	.1	-.1	Rapid City . . .	32	+3	T	-.1
San Francisco . . .	52	+1	1.0	+.2	St. Cloud . . .	20	0	T	-.2	Sioux Falls . . .	22	-2	T	-.2
Stockton . . .	49	+2	1.9	+1.3	MISS. Jackson . . .	45	-5	2.6	+1.5	TENN. Chattanooga . . .	37	-6	1.2	+.1
COLO. Denver . . .	35	+1	.2	+.1	Meridian . . .	47	-2	1.6	+.4	Knoxville . . .	39	-4	.6	-.4
Grand Junction . . .	33	+1	.2	+.1	MO. Columbia . . .	29	-7	.3	-.1	Memphis . . .	42	-3	.2	-.9
Pueblo . . .	34	-1	T	-.1	Kansas City . . .	33	-3	.4	+.1	Nashville . . .	39	-3	.8	-.2
CONN. Bridgeport . . .	40	+3	3.2	+2.3	St. Louis . . .	33	-4	.1	-.4	TEX. Abilene . . .	45	-3	T	-.2
Hartford . . .	31	-1	2.4	+1.4	Springfield . . .	33	-6	.6	0	Amarillo . . .	40	0	0	-.1
D. C. Washington . . .	43	+3	1.2	+.5	MONT. Billings . . .	33	+4	T	-.2	Austin . . .	50	-4	.1	-.4
FLA. Apalachicola . . .	52	+5	1.2	+.4	Glasgow . . .	30	+9	T	-.1	Beaumont . . .	49	-7	.4	-.7
Daytona Beach . . .	54	-7	T	-.4	Great Falls . . .	39	+10	0	-.2	Brownsville . . .	60	-4	.3	0
Ft. Myers . . .	61	-5	T	-.3	Havre . . .	31	+9	T	-.1	Corpus Christi . . .	58	-3	.2	-.2
Jacksonville . . .	49	-8	.1	-.4	Helena . . .	28	+2	.1	0	Del Rio . . .	51	-3	0	-.1
Key West . . .	69	-3	T	-.4	Kalispell . . .	32	+6	.1	-.2	El Paso . . .	47	+1	T	-.1
Lakeland . . .	57	-6	0	-.4	Miles City . . .	29	+4	T	-.1	Fort Worth . . .	47	-3	.5	+.1
Miami . . .	64	-5	0	-.4	Missoula . . .	28	+1	.2	0	Galveston . . .	54	-5	.9	+.1
Orlando . . .	56	-7	T	-.4	NEBR. Grand Island . . .	30	0	0	-.1	Houston . . .	52	-4	.6	-.4
Tallahassee . . .	47	-7	.7	-.2	Lincoln . . .	30	1	T	-.2	Lubbock . . .	43	0	0	-.1
Tampa . . .	58	-5	.1	-.4	Norfolk . . .	28	0	0	-.1	Midland . . .	48	0	T	-.1
W. Palm Beach . . .	62	-6	0	-.4	N. Platte . . .	30	+1	T	-.1	San Angelo . . .	48	-2	T	-.1
GA. Atlanta . . .	41	-4	.7	-.2	Omaha . . .	27	-2	T	-.2	San Antonio . . .	50	-5	.1	-.3
Augusta . . .	42	-6	.6	-.1	Valentine . . .	29	+2	0	-.1	Victoria . . .	55	-3	.1	-.4
Macon . . .	47	-3	.6	-.3	NEV. Ely . . .	30	+2	T	-.2	Waco . . .	46	-6	.2	-.3
Savannah . . .	48	-4	.2	-.5	Las Vegas . . .	49	+2	.4	+.3	Wichita Falls . . .	44	-3	T	-.3
HAWAII. Hilo . . .	73	+1	.2	-3.6	Reno . . .	36	+1	.2	0	UTAH. Blanding . . .	34	+2	.3	0
Honolulu . . .	74	-1	.1	-.7	Winnemucca . . .	34	+2	.3	+.1	Salt Lake City . . .	39	+6	.6	+.2
Kahului . . .	74	+1	.1	-.5	N. H. Concord . . .	29	0	1.9	+1.1	VT. Burlington . . .	28	+1	.9	+.3
Lihue . . .	75	+2	T	-1.4	N. J. Atlantic City . . .	41	+3	1.3	+.3	VA. Lynchburg . . .	36	-4	1.4	+.7
IDAHO. Boise . . .	40	+6	.1	-.3	Trenton . . .	41	+3	1.7	+.9	Norfolk . . .	46	+1	1.0	+.3
Lewiston . . .	40	+3	.1	-.2	N. MEX. Albuquerque . . .	39	+1	.1	0	Richmond . . .	41	-1	.8	0
Pocatello . . .	32	+3	.4	+.1	Roswell . . .	43	+2	.3	+.2	Roanoke . . .	34	-5	.8	+.1
ILL. Cairo . . .	38	-3	.3	-.6	N. Y. Albany . . .	28	-2	.8	+.1	WASH. Colville . . .	35	+5	.9	+.4
Chicago . . .	33	+1	.4	-.1	Binghamton . . .	29	0	1.2	+.5	Omak . . .	34	+5	1.1	+.7
Moline . . .	27	-3	.6	+.2	Buffalo . . .	31	0	1.4	+.6	Quillayute . . .	47	+5	3.0	-.5
Peoria . . .	29	-3	.3	-.1	New York . . .	41	+2	3.0	+2.1	Seattle-Tacoma . . .	46	+4	1.3	-.1
Rockford . . .	27	-1	.5	+.1	Rochester . . .	30	-2	1.3	+.7	Spokane . . .	35	+4	.7	+.2
Springfield . . .	30	-4	.1	-.4	Syracuse . . .	30	-2	1.7	+.9	Walla Walla . . .	41	+2	.3	-.1
IND. Evansville . . .	36	-2	1.0	+.2	N. C. Asheville . . .	38	-2	.6	-.2	Yakima . . .	36	+2	.6	+.3
Ft. Wayne . . .	27	-5	.4	-.1	Charlotte . . .	39	4	1.1	+.3	W. Va. Beckley . . .	29	-6	.7	0
Indianapolis . . .	32	-2	.7	+.1	Greensboro . . .	38	4	1.6	+.9	Charleston . . .	33	-5	.7	0
South Bend . . .	35	+3	.7	+.1	Hatteras . . .	52	+1	1.3	+.2	Huntington . . .	35	-3	.8	+.1
IOWA. Burlington . . .	27	-5	.4	0	Raleigh . . .	41	-2	.9	+.2	Parkersburg . . .	35	-3	.7	+.1
Des Moines . . .	23	-6	.9	+.6	Wilmington . . .	47	-2	.6	-.1	WIS. Green Bay . . .	28	+3	.8	+.4
Dubuque . . .	26	-2	.5	0	N. DAK. Bismarck . . .	19	-1	T	-.1	La Crosse . . .	28	+2	.4	+.1
Sioux City . . .	24	-4	T	-.2	Fargo . . .	19	+2	T	-.1	Madison . . .	27	+2	.7	+.3
KANS. Concordia . . .	34	0	.1	-.1	Williston . . .	24	+5	T	-.1	Milwaukee . . .	31	+3	.7	+.3
Dodge City . . .	36	0	T	-.1	OHIO. Akron-Canton . . .	30	2	1.1	+.5	WYO. Casper . . .	32	+4	.1	0
Goodland . . .	34	+1	T	-.1	Cincinnati . . .	34	2	1.1	+.4	Cheyenne . . .	33	+2	T	-.1
Topeka . . .	34	-2	.5	+.1	Cleveland . . .	31	-2	1.2	+.6	Lander . . .	24	-1	.3	+.2
Wichita . . .	37	-1	.7	+.4	Columbus . . .	31	-2	.5	-.1	Sheridan . . .	32	+4	.1	-.1
KY. Lexington . . .	35	-3	.7	-.1	Dayton . . .	29	-5	.6	+.1	P. R. San Juan . . .	79	+2	.3	-.9
Louisville . . .	38	0	.8	0	Toledo . . .	24	-7	.4	-.2					

Based on 1941 - 70 normals

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon Brown, Nancy J. Burt, Statistical Reporting Service, USDA.

CONDENSED STATE SUMMARIES

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

ALABAMA: General rains 6th and 7th with most accumulations in a range of 1.00 in. Skies cleared on 9th.

Harvest made fair progress. About 8% cotton still in field, mostly north and parts central. Harvest complete most south fields with scrapping operations underway most fields elsewhere. Corn harvest 96% complete. Soybean harvest 94% complete, 91% year ago. Growers need about 2 weeks open weather to harvest remaining soybeans. Small grain outlook promising. Seeding virtually complete, most acreage up to stand. Winter grazing abundant most areas. Feeding hay increasing as temperatures decline.

ARIZONA: Temperatures beginning week slightly above normal, cold front 6th, temperatures averaged near normal. Precipitation all areas: South, northeast 0.05 to 0.10 in., rest of State 0.50 to 0.75 in.

Cotton picking full swing until halted rainfall. Sorghum harvest complete Cochise County, continued central, western areas. Some alfalfa activity. Sugarbeets good progress. Seedbed preparation, planting small grains active. Broccoli harvest full swing. Spring carrots being planted. Okra seed harvest Maricopa County. Spring lettuce, onion seed look good. Red chili harvest Cochise County. Lettuce harvest complete Pima County. Harvest fall, winter lettuce Yuma County. Lemon, grapefruit harvest Salt River Valley, Yuma. Rainfall improved moisture supplies. Range, pastures holding well. Cattle good. Sheep pasturing alfalfa.

ARKANSAS: Warming through week, cooler by week-end. Averages 47° south to 36° north. Departures 1 to 7° below normal. Rainfall end of week 0.24 in. to 1.85 in.

Rain, cold freezing weather slowed fieldwork. Soil moisture surplus. Cotton picking 78% complete. Need dry weather to finish harvest. Shredding and disking crop residue. Soybean harvest 88% complete. Rains, muddy fields, freezing weather slowed harvest. Oats planting nearly finished, wheat planting 90% complete. Excess soil moisture caused poor growth. Pastures adequate. Cattle good.

CALIFORNIA: Period began and ended with generally fair weather. Scattered precipitation northern, central areas on 1st increased to heavy amounts by midweek accompanied by very strong winds. Lows below freezing first of period lower valleys, northern, central California. Weekly temperatures near average most areas.

Small grains show good growth. Plantings halted by rain, more will be made. Some milo remains. Cotton harvest near completion, halted by rain. Alfalfa being pastured. Pruning, spraying and other post harvest fieldwork continues in fruit and nut orchards. Vineyard fieldwork increasing, some wine and table grapes unharvested around Bakersfield. Date harvest continues Riverside. Navel orange harvest increasing good color, sugar. Desert grapefruit harvest slowed Riverside, lemon harvest going all out. Tangerine harvest normal,

avocado harvest increasing. Artichoke, brussels sprouts seasonally light. Rains hampered broccoli, cauliflower harvest. Carrots continue San Joaquin and Imperial, begin this week Coachella. Celery declining central coast, increasing south coast. Lettuce tapering Palo Verde, increasing Imperial. Market tomatoes declined seasonally. Range feed improving throughout. Continuing need to supply supplemental feed. Fall lambing, calving continuing. Sheep continue onto stubble fields Central Valley. Bee hives moved into winter areas. Movement turkeys to processors continuing. Cattle feedlot inventory levels below 1973. Water supplies adequate most areas.

COLORADO: Weather fair and mild until 5th when pacific cold front brought snow southwest mountains, light rain lower elevations west. Light rain changed to snow northeast early 6th. Arctic front across mountains and eastern plains on 7th. Precipitation confined mountains and eastern slope. Mountain areas up to 9 in. new snow. Skies cleared 8th.

Harvest remaining scattered fields corn and sorghum essentially complete. Fall plowing and fertilizing continuing. Livestock good condition. Winter wheat and crop residue being utilized where possible. Feeding livestock increasing as pastures become snow covered.

FLORIDA: Temperatures averaged near 10° below normal. Lows in 20's on 2 nights from central Florida through panhandle. Widespread frost reported in these sections. Rainfall generally light with several stations reporting no rainfall.

Moisture adequate in south and west, short in north and central areas. Soybean and cotton harvest about complete. Sugarcane harvest in full swing. Cool weather beneficial to cane crop. Small grains slight improvement. Seeding of grains nearly complete. Tobacco plant bed preparation underway. Pastures very poor to fair. Cattle and calves fair to good. Citrus groves generally good, rain needed. Dry groves showing stress. Widespread irrigation, some leaf curl, wilt, leaf loss. Fruit softening, harvest very active. Temperatures to high 20's and 30's much of the vegetable growing area. Damage very light, restricted to some tender crops, mostly central areas. Light rains preceded the cold in south Florida. Harvest fall vegetables continued active, although maturity slowed by cold. Most vegetables moving in good volume with cabbage, leafy crops increasing. Tomatoes and peppers in full, steady volume. Most other vegetables declining seasonally.

GEORGIA: Temperatures 3 to 9° below normal with below freezing temperatures early on 4th and 5th. Light to moderate rains 7th and 8th entire State.

Soil moisture mostly adequate to excessive. Harvest of cotton, corn, soybeans and pecans continued active. Land preparation and fall seeding continued. Tobacco bed preparation limited. Small grains and pastures fair to good. Cattle fair to good.

HAWAII: Generally dry. More field preparation taking place. Higher elevation crops slow

maturing with cooler weather. Some leafy crops short supply. Bananas and papayas continue adequate. Ample moisture from previous rains keeping pastures good condition. Cattle condition good. Sugar harvest near end. Harvest fresh pineapple continues.

IDAHO: Precipitation general midweek. Amounts above normal much of the Magic and Upper Snake River Valleys, ranging from 0.23 in. at Pocatello to 0.67 in. at Rupert. Precipitation remainder of State below normal. Temperatures near to a little above normal with highs in the mid-40's to mid-50's. Lows in teens first part of week.

Moderate weather helping winter grains. Topsoil moistures supplies adequate for germination and emergence but subsoil supplies short south and north. Supplemental feeding livestock reduced by open weather permitting continued grazing lower elevation pastures and ranges. Potato marketing mainly on earlier sales and contracts.

ILLINOIS: Temperatures 1 to 5° below normal, except northeast 1° above normal. Precipitation light, amounts under 0.50 in. snowfall 8th only a trace north, rest of State snow cover receded.

Corn harvest 92% complete, same as average, 1973 harvest nearly complete December 1. Snow and rain halted activity until end of week. Concern regarding wet corn, spoilage problems. Few fields soybeans remain to be harvested. Grain sorghum harvest 82% complete. Winter wheat seedings good to excellent. Plowing 1975 corn and soybean acreage 52% complete, 62% 1973, average 50%. Pastures supplying 20% livestock roughage requirements. Livestock poor to good. Soil moisture 4% short, 65% adequate, 31% surplus. Fieldwork: 2.5 days suitable.

INDIANA: Cool week. Precipitation 0.50 to 1.00 in. as snow and rain early and late in the period. Some slippery roads over weekend. Temperatures ranged from 8° on 5th to 52° on 6th.

Topsoil and subsoil moisture mostly adequate to surplus. Corn 85% harvested, three weeks behind 1973, same as average; 55% in 1972. Soybeans 94% combined. Wheat stands good. Fertilizer supplies mostly adequate.

IOWA: Temperatures near normal in northern third, 2 to 5° subnormal due to snow cover remainder of State. Precipitation negligible in west, near normal east, heavy in a band from south central, central into northeast falling as rain on the 6th turning to snow on the 7th.

KANSAS: Temperature averages ranged from slightly below normal southeast to near 3° above normal northwest and north central. Significant precipitation measuring generally 0.50 in. to excess of 1.00 in. eastern portions on 5th and 6th.

Good progress harvest fall crops. Sorghum grain harvest 95% complete. Corn less than 5% left to harvest. Soybeans 90% harvested. Wheat generally good, but few scattered dry areas in west central, southwest, and north central. Few wheat fields still being seeded. Cattle grazing stubble, wheat.

KENTUCKY: Light snow beginning of week, accumulation over 2 in. part of east. Mostly fair and cold 3rd through 6th. Light rain changed to snow flurries over weekend. Weekly precipitation mostly less than 1.00 in., coldest temperature on 5th, in teens and low 20's. Average for week near or slightly below seasonal.

Fields activities limited by wet ground. Corn and soybean harvest nearing completion. Tobacco

stripping continued under mostly good conditions. Demand on burley markets continue strong. Prices increased to top of over \$120. Livestock doing well. Most still on pastures.

LOUISIANA: Temperatures 3 to 8° subnormal. Extremes: 73° Boothville, 6th, 21° Winnfield and Ashland, 4th. Precipitation moderate to heavy 5th and 6th.

Fieldwork possible 4.4 days. Soil moisture surplus north, adequate to surplus south. Main activities were sugarcane, cotton, and soybean harvest; cutting stalks, fertilizing winter pastures, sorting and moving cattle. Cotton 90% picked, 85% 1973, 86% normal. Recent damage high. Soybean harvest 90% complete, 90% 1973, 93% normal. Harvest least advanced in northwest. Sugarcane harvest hampered by muddy fields some areas, 75% complete, 73% 1973, 73% normal. Small grains good, providing some grazing. Subfreezing temperatures stopped native grass growth. Cattle declined to fair.

MARYLAND AND DELAWARE: Temperatures near normal except 8° below normal Garrett County. Highs mid 40's to upper 50's, lows upper teens to upper 20's except low -1° Garrett County. Precipitation over 2 States ranged 0.24 to 4.76 in. Heaviest in Garrett County and north central Maryland. Snow cover 19 to 31 in. in Garrett County.

Very limited fieldwork. Farmstead chores and livestock care main activities. Severe hardships in western Maryland with blocked roads, power and telephone outages 1 to 4 days.

MICHIGAN: Temperatures averaged 2 to 7° below normal southern lower, and 0 to 4° above normal elsewhere. Precipitation, mostly snow, ranged generally from 0.25 to 0.50 in. but 0.50 to 1.00 in. fell in northern lower, eastern upper and extreme southeast.

MINNESOTA: Temperatures averaged near normal except subnormal in northwest. Extremes: 42° south early in week to -5° north central late in week. Precipitation below normal. Occurred mainly as light snow or flurries. At weeks end traces of snow on ground west half with traces to 1 in. east half except 1 to 3 in. in northeast.

Farm activities mostly winter care of livestock.

MISSISSIPPI: Cold and wet most of week. Temperatures averaged 10° subnormal. Extremes: 67 and 15°. Greatest 24-hour rainfall reported was 4.80 in. at D'Lo on 6th.

Soil moisture adequate to excessive. Days suitable for fieldwork, 3.6. Cotton: 85% harvested, normal 93%. Soybeans: 88% harvested, normal 87%. Corn: 95% harvested, normal 95%. Pecans: 80% harvested, normal 81%. Wheat, oats, pastures, and livestock mostly fair. Supply of hay and roughage mostly adequate. Supply of feed grains mostly short.

MISSOURI: Continued cold with temperatures averaging near 5° subnormal. Precipitation near normal with totals varying from 0.20 to nearly 1.00 in. Snowfall totaling 3 to 6 in. a week ago over half state was mostly melted by week's end.

Fieldwork: 2 days suitable. Corn 88% harvested, 89% 1973, 85% average. Soybeans 89% harvested, 95% 1973, 87% average. Grain sorghum 85% harvested, 93% 1973. Cotton 88% harvested, 95% 1973, 76% average. Fall seeding 92% complete, 87% 1973. Fall plowing 59% complete, 65% 1973. Soil moisture supplies adequate to surplus.

MONTANA: Warm week, cooling western divisions end of week. Temperatures averaged near normal southwest to 10° above normal central and northeast. Highs mostly 40's except for a few middle 50's east of the divide. Precipitation below normal except southwest where more than 0.50 in. was reported in the form of 1 to 4 in. of new snow.

Winter wheat fair to good. Soil moisture dry most winter wheat areas. Grazing mostly open. Cattle and sheep good. Fieldwork limited. Some tillage, rock picking and fence repair in progress.

NEBRASKA: Precipitation light. Temperatures near or slightly below normal. Cold weekends but warming midweek.

NEVADA: Storm early in week left over foot snow in elevations above 7000 feet. Precipitation in valleys ranged from a few hundredths at Ely to 1.06 in. at Yucca Flat. Temperatures near normal. Highs in 40's north and 50's south. Minimums in teens and 20's north, 30's south. Extremes: 63° Las Vegas 10° Ely.

Cotton harvest continues. Livestock fair to good condition. Winter feed only fair. Supplemental feeding most areas.

NEW ENGLAND: Heavy rains most of New England 2d turned to snow flurries across north 3d and 4th. Temperatures below normal north and near normal south.

NEW JERSEY: Temperatures averaged 36° north, 39° south and coastal. Extremes: 15 and 62°. Weekly rainfall averaged 1.90 in. north, 1.40 in. south and 2.00 in. coastal. Heaviest 24-hour total was 1.45 in. at Neshanic on 7th to 8th.

NEW MEXICO: Cold and dry beginning week warming gradually into midweek, then turning very cold again 7th and 8th. Overall temperatures averaged near normal. Light rain and snow showers central and western sections 5th. A storm on 7th and 8th brought more substantial snows through central and south with some snow still falling in south morning of 9th. Most snow accumulations light but up to 14 in. reported some southern mountain areas.

Moisture supplies mostly adequate. Harvest of grain sorghum nearing end. Cotton continued, about 75% through. Winter wheat, barley good, some grazing. Pecan harvest continued. Ranges, livestock fair to good. Supplemental feeding continued.

NEW YORK: Temperatures averaged near normal. Precipitation was above normal. Early week storm spread rain over southeast and mixed precipitation elsewhere. Snow fell to 6 in. or more across portions from Catskills westward and northward. About 2.00 in. rain fell in coastal southeast. Cold weather continued into 6th. Rain and unseasonably mild temperatures occurred late 7th and 8th. Close to 1.00 in. rain fell over much of south central and southeast 8th but local amounts in excess of 2.00 in. fell in Catskills. Rainy, mild weather caused rapid snow melt. Extremes: 58° at Poughkeepsie, 8th; -9° at Saranac Lake, 5th.

NORTH CAROLINA: Precipitation above normal with heavy snow northwest mountains. Temperatures below normal.

Fieldwork averaged 2.8 days. Soil moisture 97% adequate to surplus, 3% short. Pasture condition 86% fair to good, 14% poor. Labor supply adequate. Corn harvest virtually complete. Soy-

beans 89% combined, 1973 95%, average 86%. Cotton 90% picked, 1973 96%. Small grains 91% planted, average 90%, condition mostly fair to good. Preparing tobacco plant beds. Harvesting cabbage.

NORTH DAKOTA: Temperatures above normal all divisions except south central where it was 2° below normal. Extremes: 46° at Amidon; Ft. Yates, Lisbon, Lemmon and Jamestown to -5° at Beulah. Precipitation subnormal all divisions, ranging from 0.13 in. eastern divisions to 0.09 in. southwest and west central. Weekend fair to cool with some below zero temperatures on 8th. Scattered snow showers reported with only trace on ground.

Absence of snow or rain continue favorable for marketing of crops and livestock and farm chores. Livestock still able to graze, although pastures short. Livestock receiving supplemental roughage and feed.

OHIO: Major snow storms continued over northern portion into the 2d and tapered off to flurries by the 3d. Snow depth from the storm ranged 1 to 2 ft. with heaviest amounts in northeast. Rain spread over state on 7th and changed to occasional snow on 8th. Weekly temperatures averaged below normal and lowest was 2° northwest on the 5th.

Little pasture available north due to heavy snow. Fields too wet for harvest of corn and soybeans.

OKLAHOMA: Temperatures averaged from 4 to 10° below normal. Precipitation averaged from 0.00 panhandle to 2.29 in. southeast. Weekend cold with light precipitation most areas.

Farmers busy harvesting cotton, sorghums and soybeans until 5th rains slowed activity. Some planting of small grains continues following harvest of soybeans and cotton as well as spotted replanting. Western small grains showing some yellowing and rust. Grazing on increase. Cotton harvest active but lagging behind year ago and normal. Soybean harvest making fair progress. Two week open weather needed to clear up bulk harvest activity. Range grasses going fast after cold weather. Cattle mostly good with light supplemental feeding.

OREGON: Precipitation reported all areas. Coastal rainfall ranged from 1.21 to 3.71 in. Willamette Valley averaged 0.50 in., southwest interior valleys 0.13 to 1.08 in., east of Cascades 0.10 to 0.40 in. Temperatures averaged 2 to 5° above normal. Maximum temperatures were generally in the 50's, and upper 40's. Minimum temperatures ranged in the 30's in western sections. East of Cascades lows were generally in teens and 20's.

Farmers spraying fall grain. Annual orchard cleanup continuing. Potatoes and onions being shipped from storage facilities. Feed supplies appear to be adequate, pastures are short, but improving. Many cattle on winter feed.

PENNSYLVANIA: Weekly temperatures from near normal west 6° above normal east. Weekend temperatures melted most of snow while storm deposited 0.50 to 1.50 in. rainfall most areas and up to 5.00 in. in parts of Pocono Mountains. Farmers doing routine winter chores.

PUERTO RICO: Island average rainfall 0.82 in. Highest weekly total 5.46 in. at Maricao, highest 24-hour total 2.58 in. at Maricao. Shower activity was light most areas except few western localities where some heavy rain showers occurred. Divisional temperatures averaged about 77° on coasts and 71° interior. Extremes: 90 and 54°.

Favorable weather prevailed for all field operations. Good weather favored development of sugarcane plantings, young coffee trees and food crops. Coffee harvesting continued normal. In some tobacco zones soil preparation for new plantings progressing well while in other zones plantings were in good condition. Pastures in very good condition all sections. Abundance of plantains, bananas, vegetables and pigeon peas on market.

SOUTH CAROLINA: Near normal temperatures northeast, southern zones, 5 to 8° below normal elsewhere. Heaviest rainfall over northeast zone averaged 1.10 in., lightest over southern zone averaged 0.40 in., averaged 0.50 to 0.90 in. other areas. Lowest temperatures came early 4th, 5th with low 20's over much of central area.

Cotton, soybean, sorghum harvest continued. Over 90% acreage harvested but rains on 7th slowed progress. Rains beneficial to pasture growth, emergence of small grains recently planted. Planting oats, wheat continued. Pruning peach trees, grape vines more active in Piedmont. Farmers in Pee Dee continue tobacco bed preparations.

SOUTH DAKOTA: Temperatures averaged few degrees below normal. Extremes: 64° Mission 4th, -5° Aberdeen 8th. Some light snow flurries, no moisture content. Moisture deficiency for the year ranges from 4.75 in. northeast to 12.50 in. south.

Winter wheat fair to poor. Stock water short many areas.

TENNESSEE: Light rain in east first part of week. Fair weather remainder of week. Cold weather and occasional rain over weekend. Rainfall amounts averaged generally less than 0.50 in. Temperatures averaged near normal west, central and 3 to 5° below normal east.

Only few fields of corn and soybeans not harvested. Some late fields cotton abandoned. Tobacco crop nearly all stripped and moving rapidly to auctions.

TEXAS: Cool temperatures, little rain evident first of week. Cold front moved across State 5th causing thunderstorms over east. Arctic front pushed through on 8th dropping temperatures into 30's, 40's behind it. Heavy snow mountains east up to 5 inches some spots. Morning of December 9th coldest temperatures of season many sections. Temperatures near normal west while east, south 2 to 4° below normal. Most of State, little precipitation.

Harvest cotton, corn, sorghum, soybeans resumed, made rapid progress. High, Low Plains harvest cotton excellent progress. Seeding wheat, oats nearing completion. Few fields Blacklands, Cross-Timbers, East to be seeded. Growth delayed by cold, wet weather, grazing adequate throughout. Major crops percent planted: Wheat 99, 1973 99, 3 yr. average 100; Oats 99, 1973 99, 3 yr. average 98; Flax 91. Major crops percent harvested: Cotton 54, 1973 71, 3 yr. average 52; Corn 100, 1973 100, 3 yr. average 100; Sorghum 98, 1973 100, 3 yr. average 98; Soybeans 94, 1973 85, 3 yr. average 87; Peanuts 93, 1973 99, 3 yr. average 98; Sugarbeets 88, 1973 100, 3 yr. average 72.

High Plains: Carrots, cabbage available light volume. Trans-Pecos: Small acreage carrots being dug. San Antonio-Winter Garden: Cabbage, carrot, spinach harvest continues, most tomatoes, beans killed by cold temperatures. Lettuce emerged to good stands, making satisfactory growth. Onions continue to be planted with early fields emerging to good stands. Laredo: Freeze damaged tomato

crop. Coastal Bend: Spinach continues to make good growth, cutting early plantings to get underway next week. Cucumber harvest nearing completion. Lower Rio Grande Valley: Pepper harvest stepped up with warnings anticipated freezes. Other vegetables making good growth. Onions continue to be planted as weather permits. Pecan harvest continued active most areas. Citrus harvest continues to pick up momentum. Fruit continues to be of excellent size, quality.

Wheat pastures furnishing adequate grazing High, Low Plains. In Blacklands, East growth slowed by cold, wet weather. Livestock condition down. Freezing weather South stopped growth warm season grasses. Winter weeds, grasses coming on, furnishing good to excellent grazing Edwards Plateau. Acorn poisoning caused scattered livestock losses eastern southern areas.

UTAH: Series of storms latter part of week. Accumulated moisture locally moderate to heavy. First measurable snow fall of season some valley stations. Average temperatures ranged near normal to 5° above. First subzero minimum temperatures of season. Some colder stations over weekend.

Most farm families preparing for holiday season. Some combining shopping and attending State agricultural producer association conventions. Major agricultural activities include: Sugar beet processing, care and feeding cattle and sheep winter ranges, on valley farms and feed lots, care and feeding dairy herds and poultry flocks, processing turkeys, and sorting, grading and marketing potatoes, dry onions and apples from storage.

VIRGINIA: Temperatures below normal with highs 68° and lowest -1°. Precipitation above normal, occurring mostly snow extreme west and rain elsewhere at beginning and end of period.

Fieldwork: 2.5 days suitable. Topsoil moisture 64% adequate, 33% surplus, 3% short. Snow north, southwest caused increased cattle feeding. Cattle good. Winter feed supplies adequate. Early calving and lambing normal. Remaining corn for harvest mostly in north and southwest. Small acreages of soybeans, cotton, sorghum for harvest. Grading, marketing burley, fire-cured tobacco continue. Sun-cured market opens December 10. Small grain seeding, liming, fertilizing continued. Routine chores, farm slaughter, hunting occupied much time.

WASHINGTON: West: Average temperatures ranged from normal to 4° above. Extremes: 50's, 30's. Precipitation nearly everyday. Total amounts from 0.50 in. to over 2.00 in.

Pruning and tying caneberrries. Christmas tree harvest nearing completion. Commercial greenhouse poinsettia harvest at it's peak. Harvest of forced rhubarb near. Carrot growers concerned about getting remaining fields dug. Carrot processors accelerating operations. Local hay supplies adequate. Some fall liming, plowing and discing still underway. East: Average readings 3 to 4° above normal. Extremes: 40's, 20's. Precipitation mostly above normal except extreme southeast. Total amounts from 0.10 in. to 1.00 in.

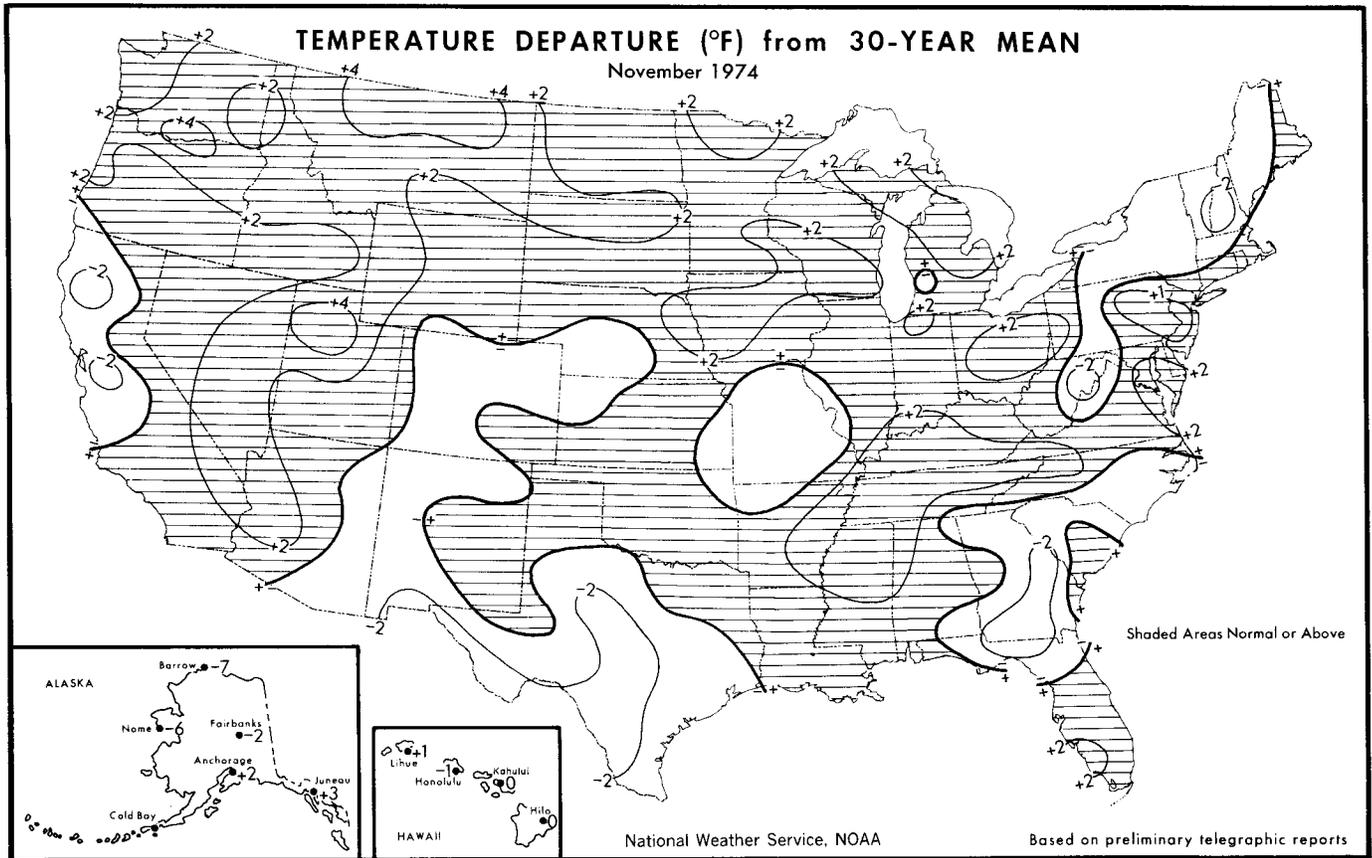
Fruit growers pruning tree fruits and grapes, installing overtree sprinklers. Some field corn still to be harvested. Subsoil moisture gradually improving but wheat growth and germination in later seeded fields slow. Growers fear heaving next spring. Reseeding underway in some fields that have not emerged. Spraying for greenbugs. Fertilizer in short supply. Stockmen keeping cattle on ranges and holding them until market conditions improve.

Continued on page 12

Temperature and Precipitation Data for November 1974

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	53	+1	4.1	+ .4	La. Baton Rouge . . .	59	0	4.6	+ .8	Youngstown . . .	42	+ 2	4.0	+1.0
Mobile . . .	59	0	3.9	+ .5	Lake Charles . . .	60	0	7.3	+3.2	OKLA. Okla. City . . .	49	0	2.3	+ .9
Montgomery . . .	55	0	3.6	+ .2	New Orleans . . .	60	0	5.9	+2.0	Tulsa . . .	49	0	7.3	+5.4
ALASKA Anchorage . . .	23	+ 2	1.0	0	Shreveport . . .	56	0	5.8	+2.2	OREG. Astoria . . .	48	+ 1	9.0	- .8
Barrow . . .	8	- 7	.2	- .1	MAINE. Caribou . . .	31	0	4.2	+ .7	Burns . . .	37	+ 1	.1	-1.3
Fairbanks . . .	1	- 2	1.0	+ .3	Portland . . .	39	0	4.9	0	Medford . . .	44	0	1.1	-2.0
Juneau . . .	36	+ 3	7.8	+2.3	MD. Baltimore . . .	48	+ 2	1.4	-1.7	Pendleton . . .	45	+ 4	1.0	- .5
Kodiak . . .	---	---	---	---	MASS. Boston . . .	45	0	1.7	-2.8	Portland . . .	48	+ 3	6.7	+1.1
Nome . . .	10	- 6	.8	- .2	Chatham . . .	48	---	3.2	---	Salem . . .	46	+ 1	7.4	+1.3
ARIZ. Flagstaff . . .	37	+ 1	1.0	- .3	MICH. Alpena . . .	37	+ 2	1.4	-1.1	PA. Allentown . . .	44	+ 2	1.8	-1.8
Phoenix . . .	62	+ 2	.4	- .1	Detroit . . .	41	+ 1	2.9	+ .6	Erie . . .	41	+ 1	4.2	+ .5
Tucson . . .	58	- 1	.8	+ .2	Flint . . .	40	+ 2	2.8	+ .5	Harrisburg . . .	45	+ 1	2.3	- .9
Winslow . . .	43	0	1.1	- .3	Grand Rapids . . .	38	+ 1	3.1	+ .3	Philadelphia . . .	49	+ 3	.8	-2.6
Yuma . . .	65	+ 1	0	- .2	Houghton Lake . . .	36	+ 2	1.4	-1.1	Pittsburgh . . .	44	+ 3	3.1	+ .7
ARK. Fort Smith . . .	50	0	4.3	+1.2	Lansing . . .	39	+ 1	2.5	+ .2	Scranton . . .	43	+ 1	2.3	- .7
Little Rock . . .	52	+ 2	5.7	+1.6	Marquette . . .	37	+ 3	2.9	- .1	R. I. Providence . . .	44	+ 1	1.6	-2.9
CALIF. Bakersfield . . .	57	+ 1	.5	- .2	Muskegon . . .	40	+ 1	2.7	- .3	S. C. Charleston . . .	56	0	3.8	+1.7
Eureka . . .	51	- 1	2.8	-3.0	S. Ste. Marie . . .	33	0	3.1	- .2	Columbia . . .	54	0	4.5	+2.2
Fresno . . .	53	- 1	.3	- .9	MINN. Duluth . . .	29	+ 1	1.4	- .3	Greenville . . .	50	- 1	4.8	+1.7
Los Angeles . . .	64	+ 1	.1	-1.9	Internatl Falls . . .	28	+ 3	1.1	- .2	S. D. Aberdeen . . .	33	+ 3	1.3	+ .7
Red Bluff . . .	51	- 3	.9	-2.2	Minneapolis . . .	34	+ 2	.7	- .5	Huron . . .	33	+ 1	.1	- .6
San Diego . . .	62	+ 1	1.2	-1.2	Rochester . . .	33	0	.9	- .1	Rapid City . . .	36	+ 1	.1	- .4
San Francisco . . .	54	- 1	.5	-1.8	St. Cloud . . .	31	+ 1	1.3	+ .2	Sioux Falls . . .	34	+ 1	.3	- .6
Stockton . . .	51	- 2	.8	- .9	MISS. Jackson . . .	56	+ 1	4.1	+ .2	TENN. Chattanooga . . .	48	- 1	5.0	+1.1
COLO. Denver . . .	38	- 1	1.1	+ .3	Meridian . . .	56	+ 2	5.3	+1.8	Knoxville . . .	51	+ 2	5.2	+1.6
Grand Junction . . .	40	0	1.2	+ .6	MO. Columbia . . .	43	- 1	3.8	+2.0	Memphis . . .	53	+ 2	5.0	+1.1
Pueblo . . .	42	+ 1	.7	+ .3	Kansas City . . .	43	- 1	1.6	+ .1	Nashville . . .	50	+ 2	6.2	+2.7
CONN. Bridgeport . . .	47	+ 1	1.3	-2.5	St. Louis . . .	44	- 1	3.2	+ .7	TEX. Abilene . . .	52	- 2	1.8	+ .6
Hartford . . .	41	0	2.6	-1.7	Springfield . . .	45	- 1	5.4	+3.1	Amarillo . . .	46	0	.1	- .4
D. C. Washington . . .	51	+ 3	1.2	-1.7	MONT. Billings . . .	37	+ 1	.3	- .4	Austin . . .	57	- 2	7.4	+5.4
FLA. Apalachicola . . .	62	+ 1	1.2	-1.5	Glasgow . . .	33	+ 4	.3	- .1	Beaumont . . .	59	- 1	5.8	+1.5
Daytona Beach . . .	66	+ 1	.5	-1.6	Great Falls . . .	39	+ 4	.3	- .5	Brownsville . . .	67	- 1	.7	- .6
Ft. Myers . . .	71	+ 2	1.5	+ .2	Havre . . .	34	+ 4	1.1	- .4	Corpus Christi . . .	64	- 1	1.8	+ .2
Jacksonville . . .	60	- 1	1.0	- .8	Helena . . .	35	+ 3	.3	- .3	Del Rio . . .	58	- 2	.6	- .1
Key West . . .	75	0	.9	-1.8	Kalispell . . .	34	+ 3	1.0	- .4	El Paso . . .	50	- 2	.5	+ .2
Lakeland . . .	68	+ 1	3.0	+1.4	Miles City . . .	35	+ 3	.2	- .3	Fort Worth . . .	56	0	3.3	+1.3
Miami . . .	73	+ 1	4.6	+1.9	Missoula . . .	35	+ 3	.5	- .5	Galveston . . .	63	- 1	4.1	+ .9
Orlando . . .	68	+ 1	3.1	+1.5	NEBR. Grand Island . . .	38	0	.3	- .3	Houston . . .	60	- 1	7.9	+3.9
Tallahassee . . .	57	- 2	1.6	-1.2	Lincoln . . .	39	0	1.1	+ .2	Lubbock . . .	48	- 1	.9	+ .4
Tampa . . .	68	+ 1	1.2	- .6	Norfolk . . .	38	+ 2	.1	- .5	Midland . . .	54	+ 1	.7	+ .2
W. Palm Beach . . .	72	+ 1	4.0	+1.5	N. Platte . . .	35	- 1	T	- .5	San Angelo . . .	55	- 1	1.4	+ .5
GA. Atlanta . . .	52	+ 1	3.9	+ .5	Omaha . . .	41	+ 3	1.4	+ .4	San Antonio . . .	57	- 3	5.4	+3.6
Augusta . . .	52	- 2	2.4	+ .2	Valentine . . .	36	+ 1	.2	- .3	Victoria . . .	62	- 1	3.4	+1.4
Macon . . .	55	0	2.2	- .2	NEV. Ely . . .	36	+ 2	.2	- .5	Waco . . .	57	- 1	2.5	+ .5
Savannah . . .	58	+ 1	1.0	- .9	Las Vegas . . .	55	+ 2	.2	- .2	Wichita Falls . . .	52	- 1	.5	- .8
HAWAII. Hilo . . .	74	0	14.6	+ .8	Reno . . .	40	0	.3	- .4	UTAH. Blanding . . .	39	+ 1	1.2	+ .4
Honolulu . . .	76	- 1	2.7	- .3	Winnemucca . . .	38	+ 1	1.1	- .9	Salt Lake City . . .	43	+ 4	.9	- .5
Kahului . . .	75	0	2.3	0	N. H. Concord . . .	36	- 2	3.2	- .8	VT. Burlington . . .	36	- 1	3.6	+ .7
Lihue . . .	76	+ 1	6.5	+ .9	N. J. Atlantic City . . .	46	0	1.1	-3.1	VA. Lynchburg . . .	47	0	1.7	-1.0
IDAHO. Boise . . .	42	+ 2	.7	- .6	Trenton . . .	48	+ 2	1.3	-2.0	Norfolk . . .	54	+ 2	1.2	-1.7
Lewiston . . .	43	+ 2	.6	- .7	N. MEX. Albuquerque . . .	45	0	.4	+ .1	Richmond . . .	49	0	1.2	-2.0
Pocatello . . .	37	+ 1	.8	- .3	Roswell . . .	48	+ 1	.1	- .2	Roanoke . . .	47	0	1.3	-1.2
ILL. Cairo . . .	50	+ 2	4.8	+ .9	N. Y. Albany . . .	39	- 1	3.8	+1.0	WASH. Colville . . .	37	+ 3	4.0	+2.0
Chicago . . .	41	+ 1	2.8	+ .6	Binghamton . . .	37	- 1	3.5	+ .4	Omak . . .	37	+ 2	1.6	0
Moline . . .	40	+ 1	2.6	+ .7	Buffalo . . .	40	0	5.4	+1.7	Quillayute . . .	45	+ 1	12.9	- .9
Peoria . . .	40	0	4.1	+2.1	New York . . .	48	+ 1	1.0	-2.8	Seattle-Tacoma . . .	45	0	5.1	- .8
Rockford . . .	38	0	2.3	- .1	Rochester . . .	40	- 1	3.2	+ .4	Spokane . . .	36	0	2.6	+ .4
Springfield . . .	42	0	3.6	+1.5	Syracuse . . .	41	0	9.6	+6.3	Walla Walla . . .	45	+ 2	1.9	0
IND. Evansville . . .	47	+ 2	3.9	+ .7	N. C. Asheville . . .	47	+ 1	4.2	+1.3	Yakima . . .	41	+ 3	.3	- .8
Ft. Wayne . . .	41	+ 1	2.2	- .5	Charlotte . . .	50	- 1	4.5	+1.8	W. Va. Beckley . . .	43	+ 1	4.1	+1.2
Indianapolis . . .	42	0	3.0	- .1	Hatteras . . .	55	- 1	1.7	-2.8	Charleston . . .	45	0	3.7	+ .9
South Bend . . .	42	+ 2	3.2	+ .5	Raleigh . . .	49	- 1	1.8	-1.0	Huntington . . .	46	0	4.0	+1.1
IOWA. Burlington . . .	40	0	3.0	+1.4	Wilmingon . . .	55	- 1	3.1	+ .1	Parkersburg . . .	46	+ 1	2.5	0
Des Moines . . .	40	+ 2	1.2	- .2	N. DAK. Bismarck . . .	29	0	.4	- .2	WIS. Green Bay . . .	34	0	2.1	+ .2
Dubuque . . .	37	+ 1	1.8	- .7	Fargo . . .	29	0	.5	- .2	La Crosse . . .	38	+ 3	1.1	- .4
Sioux City . . .	38	+ 2	.3	- .6	Williston . . .	30	+ 2	.1	- .4	Madison . . .	37	+ 2	1.8	- .1
KANS. Concordia . . .	42	+ 1	.8	0	OHIO. Akron-Canton . . .	44	+ 3	3.4	+ .9	Milwaukee . . .	39	+ 2	1.9	- .1
Dodge City . . .	44	+ 1	.5	- .1	Cincinnati . . .	44	0	4.2	+1.1	WYO. Casper . . .	34	0	.5	- .2
Goodland . . .	38	- 1	.9	+ .4	Cleveland . . .	43	+ 1	4.7	+1.9	Cheyenne . . .	36	0	.5	- .1
Topeka . . .	43	+ 1	2.2	+ .9	Columbus . . .	45	+ 3	3.4	+ .7	Lander . . .	34	+ 2	.2	- .7
Wichita . . .	45	0	2.7	+1.5	Dayton . . .	44	+ 2	3.4	+ .8	Sheridan . . .	34	+ 1	.6	- .3
KY. Lexington . . .	46	+ 1	4.1	+ .7	Toledo . . .	40	0	3.6	+1.3	P. R. San Juan . . .	80	+ 1	2.2	-3.3
Louisville . . .	47	+ 2	3.0	- .3										

Based on 1941 - 70 normals



NOVEMBER WEATHER SUMMARY

HIGHLIGHTS: Temperatures were generally near normal over most of the Nation with most areas slightly above the norm. The greatest departures occurred in Montana and Washington where temperatures averaged 3 to 4° above normal.

Precipitation was very light over the western half of the Nation except along the Northern California, Oregon and Washington Coast where the heavy, but near normal, winter rains dropped from 2.00 to 12.00 in.

Record-breaking rainfall fell in parts of Texas and Oklahoma, and was at least 150% of normal in the 4 adjoining States. Tulsa, Okla. received 7.30 in. of moisture which is 406% of normal; Austin, Texas 7.35 in., 370% of normal. Rainfall was near or above normal over the remainder of the East except in the Central Atlantic Coast States and the New England Coast which was very dry.

PRECIPITATION: Moderate to heavy rains fell over a 17-State area from Texas to the Great Lakes and eastward into New England during the first 10 days. Most heavy rains occurred early and late in the period as cold fronts passed through the area.

The season's first major snowstorm blanketed much of the Northern Great Plains, the Corn Belt and the Great Lakes area on the 12th and 13th. Five inches of snow covered the ground at Moline, Ill. and 4 in. whitened the landscape at Peru, Ind. on the 13th. As much as 2 feet fell over the Northern Great Lakes.

Heavy rains fell in the Deep South during the week ending the 24th. Better than 2.00 in. drenched

a wide band from Texas curving up through Arkansas, across Tennessee and into South Carolina. Austin, Texas and Texarkana, Ark. received at least 5.00 in. Flash flooding in central Texas took several lives.

New England's first severe storm struck on the 20th and 21st leaving a foot of snow in northern areas and 5 in. in southern areas.

Wintery snow storms and icy rains fell across the Nation's eastern half during the last week of the month. Snow blanketed New England early in the week and Ohio, Pennsylvania, and the Virginia Mountains later in the week.

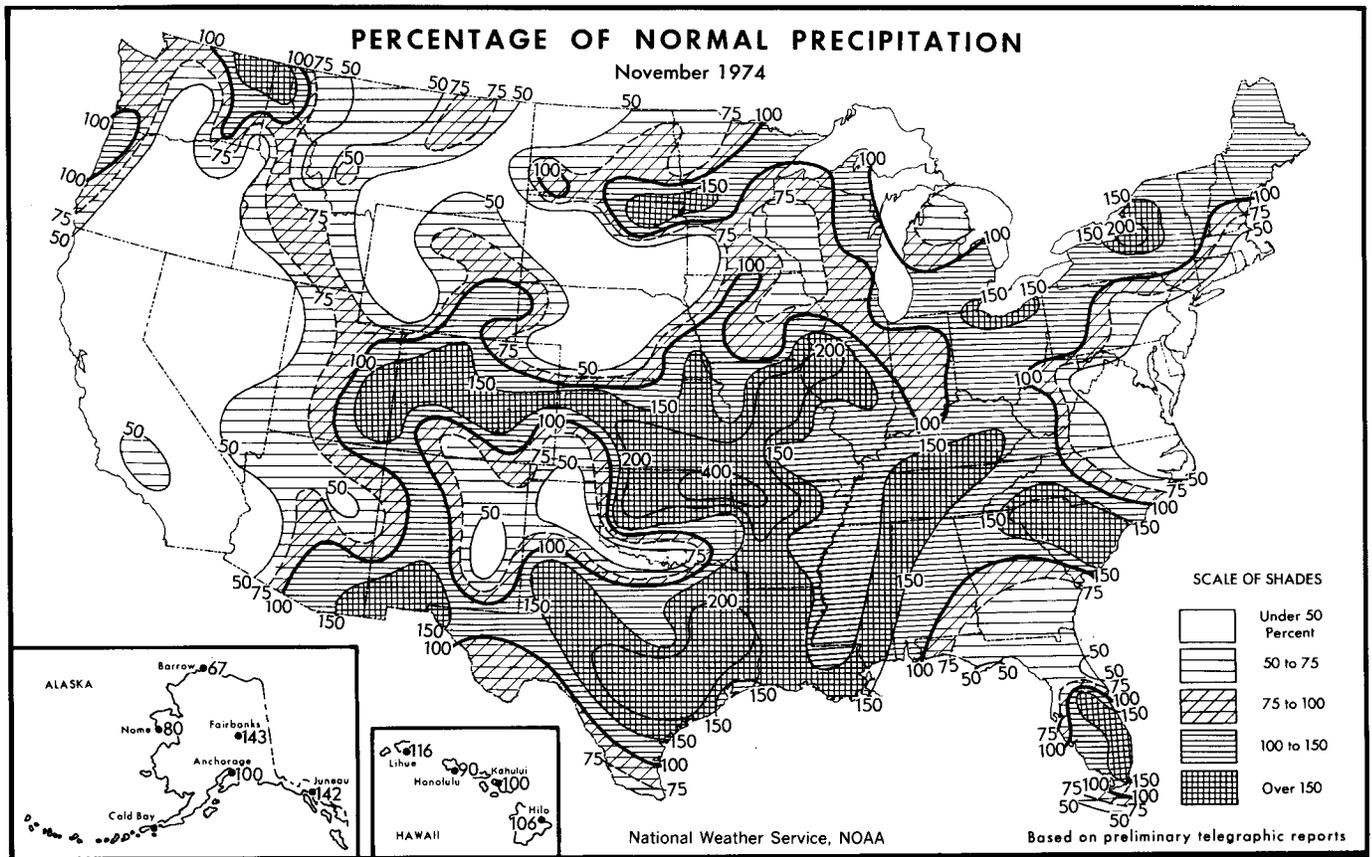
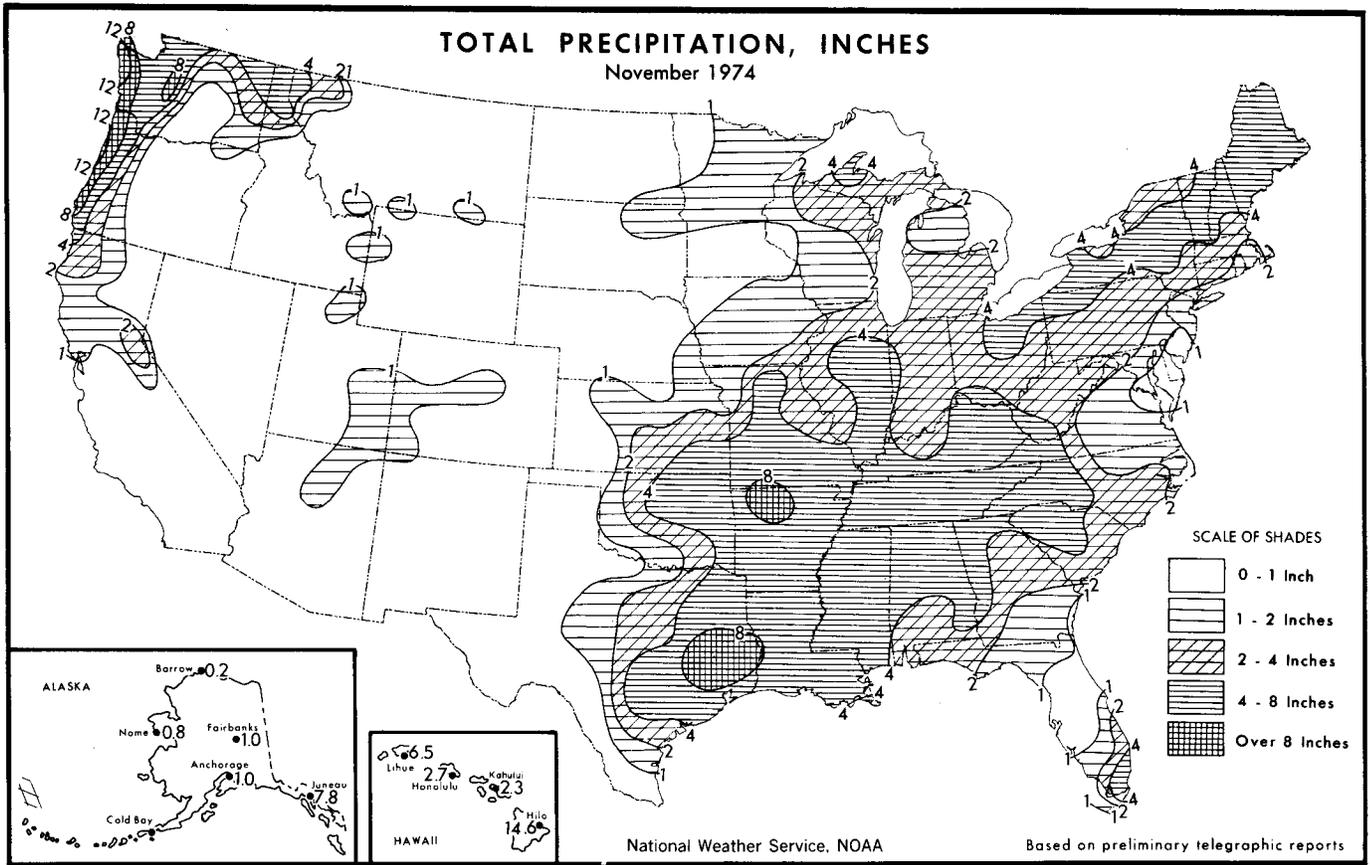
TEMPERATURE: While temperatures averaged near normal over the month, conditions were highly variable during it.

The month began with below normal temperatures dominating the southcentral and Southwest parts of the country. Record warmth touched parts of the Northeast. Record highs were set on the 4th at Norfolk, Va., 84°; Atlantic City, N.J., 80°; Baltimore, Md., 81°; Richmond, Va., 84°.

During the week ending the 17th temperatures were well below normal over the eastern half of the Nation as freezing temperatures reached almost to the Gulf Coast.

Most of the Nation received unusually warm temperatures during the week ending the 24th. Much of the Nation's midsection averaged 6 to 9° above normal.

The month ended on a cold note with temperatures well below normal.





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210

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Continued from page 8

WEST VIRGINIA: Temperatures below normal. Snow up to 30 in. 1st and 2d. Warmer temperatures by weekend reduced snow cover to 5 to 10 in. in mountains and near zero in valley. Precipitation 5.00 in. in northeast and 1.00 in. elsewhere.

Soil moisture adequate to surplus. Fall sown grains protected by snow cover in many areas. Feeding livestock.

WISCONSIN: High pressure dominated 2d through 6th. Temperatures were seasonal with highs in the 30's northwest to low 40's southeast. Low temperatures dipped into the teens to near zero in central and north midweek. Only traces of precipitation occurred until 6th. Late on 6th and 7th a low pressure system produced 1 to 3 in. of snow in central and southern areas, with traces in northwest. Water equivalent was 0.50 to 0.75 in. mainly in southeast corner. Arctic air surged southward through State late 7th and 8th bringing coldest readings of season with near zero north and low teens southeast on 8th.

Frost depths as of December 6th averaged 2 in. while snow depths averaged less than 1 in. statewide. Snow on December 7th and cold weather on the 8th have added to these depths. Some corn still remains unharvested, mostly in the southern area.

WYOMING: Temperatures Big Horn Basin below freezing until midweek, elsewhere, temperature mostly 1 to 5° above normal. Weak storm system on 5th brought generally light amounts of rain and snow. Most weekly precipitation totals less than 0.10 in.

Mild weather most areas enabled ranchers to delay supplemental feeding. Ranges, winter wheat need moisture. Livestock good, grazing stubble and corn stalks. Culling and selling cows continues.

The heating degree day maps and table normally appearing in the Bulletins are not available this week due to computer malfunction. The tabular values for this week will be in the Bulletin next week along with the regular maps and table.