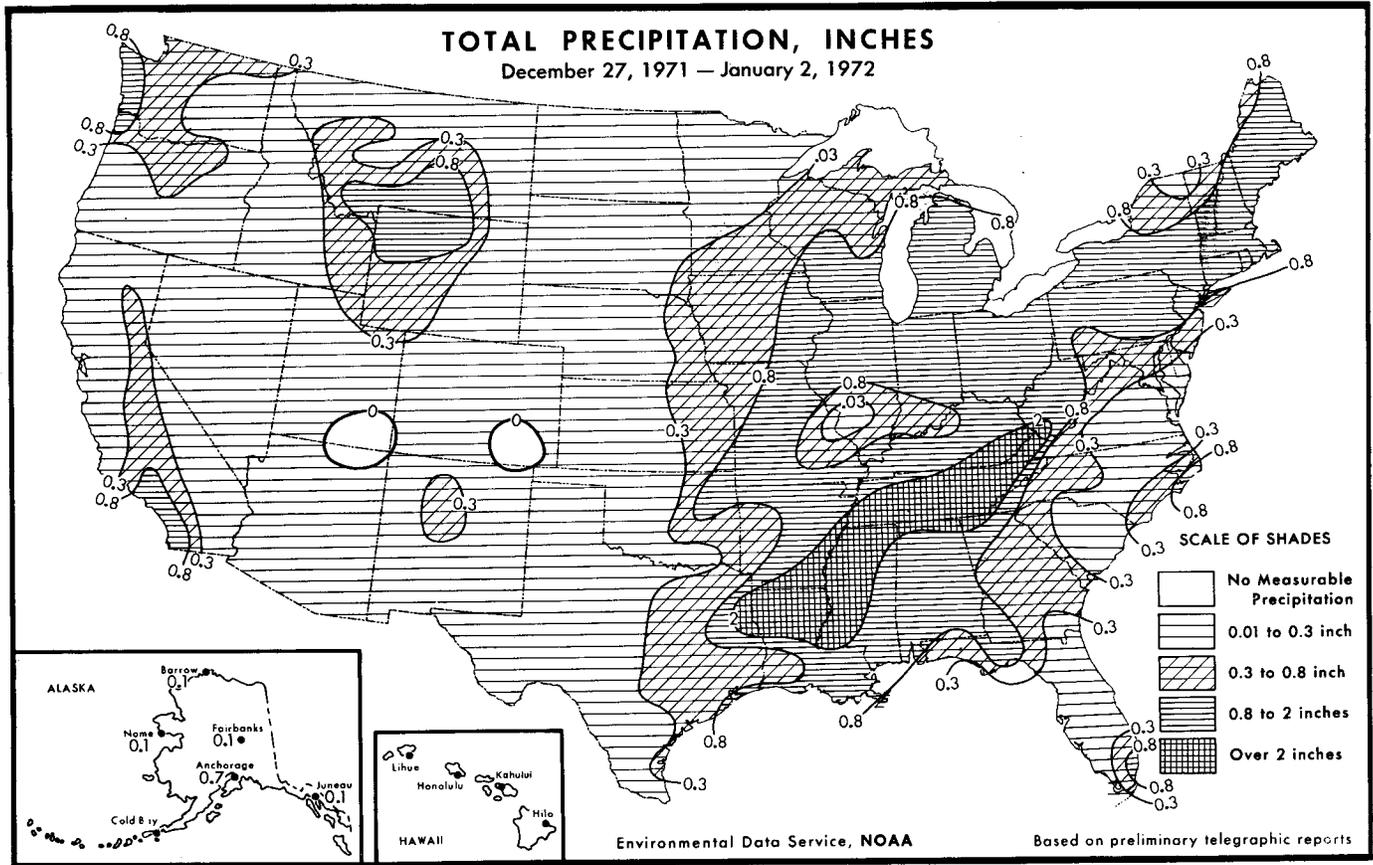


# Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE  
 National Oceanic and Atmospheric Administration  
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Edited by Lucius W. Dye JANUARY 3, 1972 Washington, D. C.



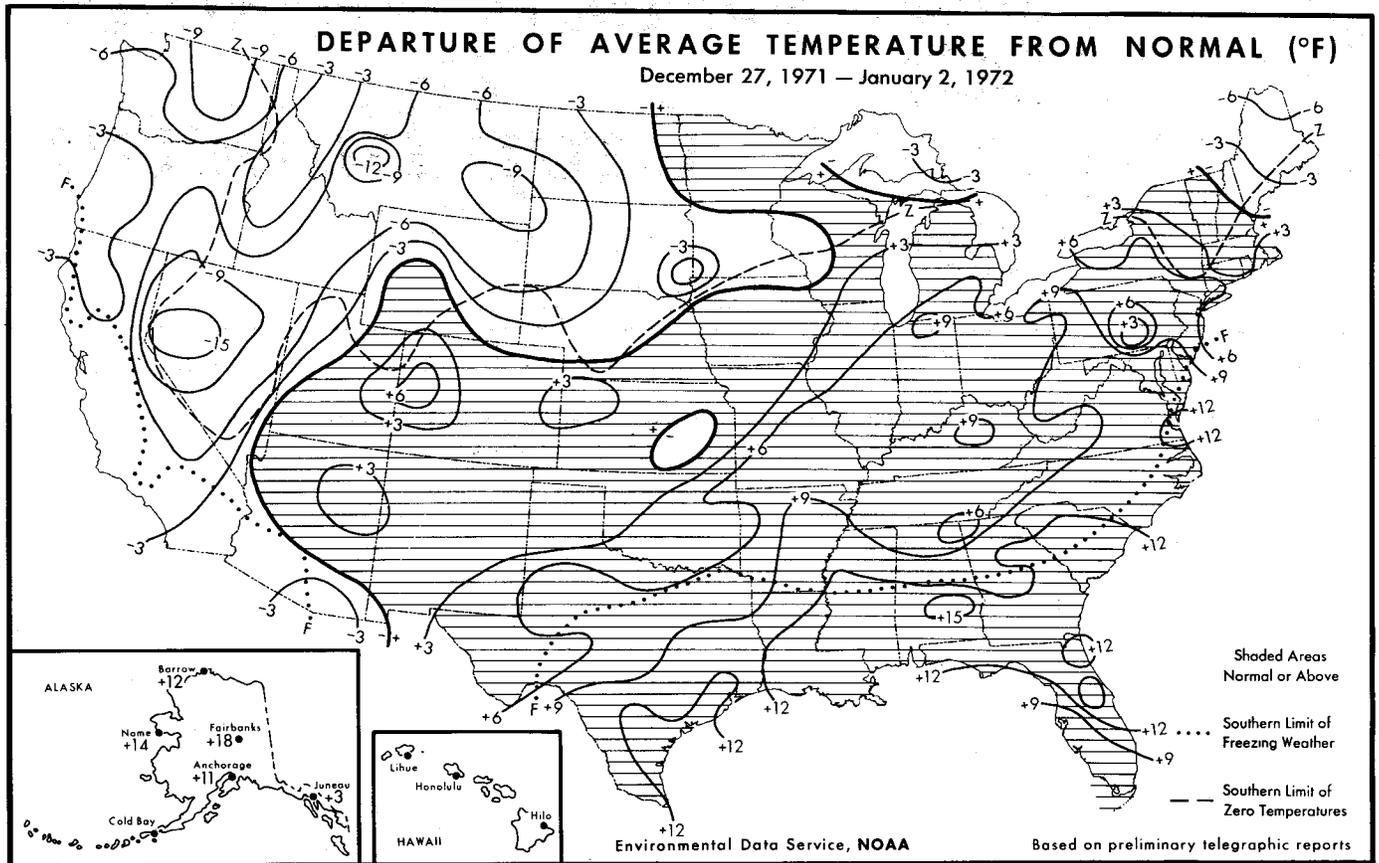
## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** Arctic cold predominated over the Northwest and Northeast. Mild weather continued over most of the rest of the Nation. Heavy snow fell in parts of the Northwest and northern New England over the weekend.

**PRECIPITATION:** The storm which a week ago lay off the northern Pacific Coast began to move southward Monday, December 27. It brought moderate to heavy rain to southern California, which was already quite thoroughly soaked, and widespread snow at higher elevations and farther north. Snow flurries occurred in the northern and central Rocky Mountains, the northern Great Plains, and eastward to New England. Freezing rain or freezing drizzle glazed areas south of the snow zone and showers fell from the western Gulf Coast to the northern Appalachians. Much of the

precipitation over the central and eastern sections of the Nation was related to the front that stretched from the central Great Plains to New England. The snow occurred in the cold air, freezing precipitation fell along the front, and showers prevailed in the warm air in advance of the front. Snow continued falling in the Northeast Friday, being especially heavy in northern New England. Greenville, Maine, received 8 inches of new snow in 12 hours late Thursday and early Friday bringing the snow cover to 29 inches. Flurries occurred near the Great Lakes and in the Ohio River Valley. Strong winds whipped the western Great Plains. At Livingston, Mont., the winds gusted to 60 m.p.h. most of the day and one gust reached 94 m.p.h.

Saturday, the first day of the New Year, was comparatively tranquil but two storms got under-



way January 2. One of these brought heavy snow to the Northwest especially to southeastern Idaho, western Montana, and the Big Horn River Valley in Wyoming. The second storm spread wet weather over the eastern third of the Country. Snow fell from northern Illinois to northern New York. Freezing rain iced an area south of the snow belt and thunderstorms prevailed from the Ohio River Valley to the Gulf of Mexico. Weekly totals exceeded 1.00 inch over most of the eastern half of the Country received less than 0.25 inch of precipitation during the week.

**TEMPERATURE:** On Monday, December 27, a cold front stretched from the central Great Plains to New England. Mild temperatures covered the Southland but winter weather prevailed north of the front. A sharp temperature contrast existed across the front. Monday afternoon, Kansas City, Mo., registered 28° when Springfield, Mo., enjoyed

balmy 71° weather. At St. Louis, the mercury reached 72° but Kirksville shivered in 25° weather. In Minnesota, afternoon temperatures ranged from 4° to 10°. Temperatures tumbled as the front advanced southward. At Washington, D.C., the mercury fell from 65° Tuesday to 33° Wednesday morning. Subzero chill gripped the northern Great Plains and parts of the Rocky Mountains. Bemidji, Minn., registered 10° below zero Monday morning and 16° below zero Tuesday. At Big Piney, Wyo., the mercury fell to -26° Tuesday.

Bitter cold weather occurred in New England over the weekend. Saturday morning the temperature at Greenville, Maine, tumbled to 32° below zero. Houlton, Maine, registered -31°. Floridians enjoyed sunny days with afternoon temperatures in the 70's and 80's.

Temperatures averaged below normal over the Northwest and Northeast and above normal over most of the rest of the Nation.

L. W. Dye

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Farm activity limited during holidays to routine barnyard chores. \* Record breaking high temperatures in East reducing stress on livestock. \* Texas cotton harvesting in high gear.

**SMALL GRAINS:** The New Year finds fall-seeded grain crops in a very favorable position. Moisture has been plentiful; temperatures rather mild and the occurrence of a severe winter storm nonexistent. Damage due to soil blowing is at a minimum as ground cover (both top growth or snow) is more than adequate. Drier soils are needed in many areas of the Country as plant growth is "too good" and fields too muddy to allow livestock grazing. During the week unseasonably warm temperatures were ideal for plant growth over the southeastern quarter of the Nation. This is especially beneficial to late-planted acreage. The wheat crop is in top shape over much of this area, but some rust, leaf spot and yellowing are occurring on the Southern Great Plains. Light infestations of Hessian flies and greenbugs are also present in Kansas. In the West, cool weather continues to slow small grain growth. Growers are still seeding some grain acreage in California, Arizona, and Virginia.

**COTTON:** Cotton harvesting equipment continued to roll in high gear for the 2nd straight week on the Texas High Plains. After many weeks of bad weather, conditions have improved enough to allow full resumption of picking. Good weather still means problems to growers on the southern High Plains, as gins are backlogged and trailers are in short supply. Less than half the Oklahoma crop is picked -- dew and high humidity limited picking to the afternoons. Moderate to heavy rains also delayed final picking in Alabama and some of the remaining acreage could be lost. The New Year also saw some cotton left to pick in Louisiana and North Carolina. Picking is nearing completion in the Southwest, but some fields have not been picked the 1st time in southeast Arizona. Wet, cold California weather limited harvesting in that State for the second consecutive week.

**OTHER CROPS:** For the second straight week harvesting was rather slow as farmers and their families continued to enjoy the holidays. Rain and soft fields hampered the activities of many farmers who hoped to finish harvesting their 1971 crops. A small acreage of corn and soybeans remains to be brought in on some farms. Most of the remaining acreage is in the Southeast -- a freeze is

needed to firm up the soil to allow the last fields to be cut. The Florida sugarcane harvest is in full swing, while cutting is about finished in Louisiana. Arizona's fall-planted sugar beets are in good condition. Wet fields slowed potato digging in California.

**Fruits and Nuts:** Shipments of fruits and nuts will increase this week following 2 weeks of reduced volume due to the holidays. Picking of the Florida citrus crop is in full swing. Record breaking temperatures and no rain are forcing citrus growers to resume irrigating. New growth in young trees is vulnerable to a frost and heating devices are ready for use if temperatures should drop to the freezing point. Citrus picking was slow in California. Cold wet weather kept most growers out of their groves. The rains should increase fruit size. Orchardists in the Pacific Northwest did a limited amount of tree pruning during the week.

**Vegetables:** Inclement weather held back vegetable harvesting in California. Supplies of artichokes, broccoli, and cauliflower are the most severely curtailed. Cool Arizona temperatures also delayed early morning harvesting activity and slowed growth of later plantings. Harvesting was temporarily slowed by the holidays in south Texas. Seeding of early fields for the spring vegetable crop is progressing in the Lower Rio Grande Valley of Texas and in south Florida. Unseasonably warm weather and no rain are upsetting planting and harvesting schedules in Florida. Irrigation is very active. The supply of most commodities is ample for buyer demand -- tomatoes are in heavy volume.

**PASTURES AND LIVESTOCK:** The care and feeding of livestock have been minimized by mild weather over much of the East. The warmest December in many years reduced the quantity of hay being fed. However, some stockmen are hesitant to let cattle graze in spongy fields. However, lack of rain is limiting grass growth in central and south Florida. In the Midwest -- caring for livestock was the major activity on many farms as the New Year rolled in. Some herds are still grazing in stalk fields, but the majority of animals are on their full winter ration of silage, hay, and grain. There has been no abnormal disease nor death loss problem. Supplemental feeding is heavy in the West. Livestock marketing was light during the holidays.

Steve Pscodna  
Agricultural Statistician

*Happy New Year*

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., JANUARY 2, 1972

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 . . .	57	+10	1.7	+ .6	New Orleans . . .	68	+13	1.0	0	OKLA. Okla. City . .	43	+ 4	.3	0
Mobile . . . . .	68	+14	1.0	- .2	Shreveport . . . .	57	+ 9	2.2	+1.1	Tulsa . . . . .	44	+ 6	.9	+ .5
Montgomery . . . .	63	+15	1.0	0	MAINE. Caribou . . .	4	- 7	1.0	+ .5	OREG. Astoria . . . .	38	- 4	1.4	-1.3
ALASKA. Anchorage .	24	+11	.9	+ .7	Portland . . . . .	20	- 2	1.2	+ .3	Burns . . . . .	20	- 7	.2	- .2
Barrow . . . . .	2	+12	T	- .1	MD. Baltimore . . . .	46	+11	.6	- .3	Medford . . . . .	33	- 3	.2	- .5
Fairbanks . . . . .	7	+18	.1	- .1	MASS. Boston . . . .	33	+ 3	1.3	+ .5	Pendleton . . . . .	29	- 5	.4	+ .1
Juneau . . . . .	30	+ 3	.8	- .1	Chatham . . . . .	37	---	1.1	---	Portland . . . . .	36	- 4	.4	- .1
Nome . . . . .	19	+14	.1	- .1	MICH. Alpena . . . .	23	+ 2	.8	+ .3	Salem . . . . .	38	- 2	.2	-1.4
ARIZ. Flagstaff . . .	32	+ 3	.1	- .3	Detroit . . . . .	32	+ 5	1.5	-1.0	PA. Allentown . . . .	37	+ 8	1.4	+ .7
Phoenix . . . . .	51	0	.1	- .1	Flint . . . . .	30	+ 6	1.4	+1.0	Erie . . . . .	35	+ 9	1.6	+1.0
Tucson . . . . .	47	- 4	T	- .2	Grand Rapids . . . .	30	+ 4	1.6	+1.2	Harrisburg . . . . .	35	+ 3	1.1	+ .5
Winslow . . . . .	35	+ 4	.1	0	Houghton Lake . . . .	23	+ 3	.9	+ .5	Philadelphia . . . .	41	+ 9	.7	+ .1
Yuma . . . . .	52	- 1	T	- .1	Lansing . . . . .	31	+ 6	1.6	+1.1	Pittsburgh . . . . .	39	+10	.8	+ .2
ARK. Fort Smith . . .	46	+ 5	.6	0	Marquette . . . . .	22	+ 1	.5	+ .1	Scranton . . . . .	35	+ 7	1.1	+ .6
Little Rock . . . . .	52	+11	.8	- .2	Muskegon . . . . .	30	+ 3	1.3	+ .8	R.I. Providence . . .	33	+ 3	1.1	+ .2
CALIF. Bakersfield . .	42	- 5	.3	0	S. Ste. Marie . . . .	15	- 3	.5	0	S.C. Charleston . . .	63	+14	T	- .7
Eureka . . . . .	45	- 3	.1	-1.4	MINN. Duluth . . . .	11	+ 1	.2	0	Columbia . . . . .	60	+14	.1	- .7
Fresno . . . . .	41	- 5	.6	+ .1	Internat'l Falls . . .	8	+ 2	.1	0	Greenville . . . . .	53	+10	.4	- .7
Los Angeles . . . . .	52	- 5	1.9	+1.3	Minneapolis . . . . .	13	- 1	.4	+ .2	S. DAK. Aberdeen . .	11	- 2	.1	- .1
Red Bluff . . . . .	45	- 1	.1	- .9	Rochester . . . . .	14	- 2	.3	+ .1	Huron . . . . .	15	- 1	.2	+ .1
San Diego . . . . .	54	- 2	.9	+ .4	St. Cloud . . . . .	13	0	T	- .2	Rapid City . . . . .	24	- 1	T	- .1
San Francisco . . . .	45	- 4	.2	- .7	MISS. Jackson . . . .	61	+13	2.4	+1.2	Sioux Falls . . . . .	11	- 8	.4	+ .3
Stockton . . . . .	40	- 5	.2	- .5	Meridian . . . . .	62	+14	.7	- .5	TENN. Chattanooga . .	48	+ 6	2.7	+1.5
COLO. Denver . . . . .	32	+ 2	.1	0	MO. Columbia . . . . .	38	+ 6	1.1	+ .7	Knoxville . . . . .	49	+ 8	2.6	+1.6
Grand Junction . . . .	34	+ 7	.1	0	Kansas City . . . . .	34	+ 1	.8	+ .5	Memphis . . . . .	50	+ 9	2.2	+1.0
Pueblo . . . . .	33	+ 2	0	- .1	St. Louis . . . . .	39	+ 6	.2	- .2	Nashville . . . . .	48	+ 7	2.5	+1.4
CONN. Bridgeport . . .	38	+ 7	1.1	+ .3	Springfield . . . . .	42	+ 7	.8	+ .3	TEX. Abilene . . . . .	52	+ 7	.1	- .2
Hartford . . . . .	30	+ 2	1.5	+ .8	MONT. Billings . . . .	20	- 7	1.5	+1.4	Amarillo . . . . .	39	+ 1	T	- .2
D.C. Washington . . .	48	+11	.4	- .2	Glasgow . . . . .	9	- 6	T	- .1	Austin . . . . .	61	+ 9	.4	- .2
FLA. Apalachicola . .	65	+10	.1	- .6	Great Falls . . . . .	21	- 5	.4	+ .3	Beaumont . . . . .	65	+11	.8	- .5
Ft. Myers . . . . .	72	+ 8	T	- .3	Havre . . . . .	11	- 8	T	- .1	Brownsville . . . . .	74	+12	.2	- .1
Jacksonville . . . . .	67	+12	T	- .5	Helena . . . . .	8	-14	.2	+ .1	Corpus Christi . . .	71	+13	.6	+ .2
Key West . . . . .	76	+ 6	.1	- .3	Kallispell . . . . .	20	- 2	.1	- .2	Dallas . . . . .	55	+ 8	.5	- .1
Lakeland . . . . .	71	+ 9	.1	- .4	Miles City . . . . .	11	-10	.2	+ .1	Del Rio . . . . .	62	+11	T	- .3
Miami . . . . .	74	+ 7	1.0	+ .6	Missoula . . . . .	18	- 3	.3	+ .1	El Paso . . . . .	46	+ 3	T	- .2
Orlando . . . . .	76	+16	T	- .5	NEBR. Grand Island . .	32	+ 8	.2	+ .1	Fort Worth . . . . .	54	+ 8	.5	0
Tallahassee . . . . .	66	+13	1.1	+ .3	Lincoln . . . . .	30	+ 2	.7	+ .5	Galveston . . . . .	67	+11	1.1	+ .2
Tampa . . . . .	69	+ 7	T	- .5	Norfolk . . . . .	23	0	.5	+ .4	Houston . . . . .	65	+13	.7	- .2
GA. Atlanta . . . . .	56	+12	.5	- .5	North Platte . . . . .	25	- 1	.2	+ .1	Lubbock . . . . .	47	+ 7	T	- .1
Augusta . . . . .	59	+13	.3	- .4	Omaha . . . . .	26	+ 2	.5	+ .3	Midland . . . . .	52	+ 7	T	- .2
Macon . . . . .	59	+11	.6	- .2	Valentine . . . . .	20	- 3	.2	+ .1	San Angelo . . . . .	53	+ 6	T	- .2
Savannah . . . . .	64	+13	.4	- .3	NEV. Ely . . . . .	15	-10	.1	- .1	San Antonio . . . . .	65	+12	.3	- .1
HAWAII. Hilo . . . . .	---	---	---	---	Las Vegas . . . . .	42	- 2	.2	+ .1	Victoria . . . . .	68	+12	.3	- .4
Honolulu . . . . .	---	---	---	---	Reno . . . . .	16	-15	.3	+ .1	Waco . . . . .	58	+ 9	.7	0
Kahului . . . . .	---	---	---	---	Winnemucca . . . . .	20	- 8	T	- .2	Wichita Falls . . . .	47	+ 4	.1	- .2
Lihue . . . . .	---	---	---	---	N.H. Concord . . . . .	23	+ 1	1.0	+ .3	UTAH. Blanding . . . .	29	+ 2	0	- .3
IDAHO. Boise . . . . .	27	- 3	.1	- .2	N.J. Atlantic City . . .	41	+ 6	.2	- .6	Salt Lake City . . . .	28	- 1	.2	- .1
Lewiston . . . . .	30	- 3	.1	- .1	Trenton . . . . .	42	+ 8	.8	+ .2	VT. Burlington . . . .	19	+ 1	.8	+ .3
Pocatello . . . . .	19	- 6	.4	+ .1	N.MEX. Albuquerque . .	37	+ 2	.4	+ .3	VA. Lynchburg . . . .	50	+12	.2	- .6
ILL. Cairo . . . . .	44	+ 6	1.0	+ .2	Roswell . . . . .	44	+ 6	T	- .1	Norfolk . . . . .	54	+13	T	- .7
Chicago . . . . .	32	+ 5	1.4	+1.0	N.Y. Albany . . . . .	27	+ 4	1.6	+1.1	Richmond . . . . .	49	+10	.2	- .5
Moline . . . . .	28	+ 3	1.5	+1.1	Binghamton . . . . .	32	+ 7	1.4	+ .9	Roanoke . . . . .	45	+ 7	.3	- .4
Peoria . . . . .	31	+ 4	1.9	+1.5	Buffalo . . . . .	32	+ 6	1.6	+1.0	WASH. Colville . . . .	18	- 8	.3	- .2
Rockford . . . . .	---	---	---	---	New York . . . . .	40	+ 6	.8	0	Omak . . . . .	12	-11	.1	- .2
Springfield . . . . .	37	+ 7	.6	+ .1	Rochester . . . . .	30	+ 4	1.2	+ .7	Quillayute . . . . .	34	- 6	1.9	-2.5
IND. Evansville . . . .	41	+ 6	.9	+ .1	Syracuse . . . . .	32	+ 7	.8	+ .1	Seattle-Tacoma . . . .	35	- 5	.4	- .9
Fort Wayne . . . . .	35	+ 8	1.1	+ .5	N.C. Asheville . . . . .	48	+ 9	.4	- .3	Spokane . . . . .	20	- 8	.2	- .4
Indianapolis . . . . .	36	+ 6	1.3	+ .7	Charlotte . . . . .	53	+11	.1	- .8	Walla Walla . . . . .	30	- 6	.3	- .2
South Bend . . . . .	35	+ 9	1.7	+1.2	Greensboro . . . . .	49	+10	.4	- .3	Yakima . . . . .	22	- 8	.2	0
IOWA. Burlington . . .	29	+ 3	1.1	+ .8	Hatteras . . . . .	58	+11	.8	- .2	W.VA. Beckley . . . . .	42	+ 8	1.2	+ .1
Des Moines . . . . .	23	+ 1	.6	+ .3	Raleigh . . . . .	51	+10	.2	- .5	Charleston . . . . .	46	+10	1.0	+ .1
Dubuque . . . . .	22	+ 1	1.0	+ .6	Wilmington . . . . .	58	+11	.5	- .2	Huntington . . . . .	43	+ 6	.9	+ .1
Sioux City . . . . .	21	0	.6	+ .4	N.DAK. Bismarck . . . .	10	- 4	T	- .1	Parkersburg . . . . .	43	+ 8	.8	+ .2
KANS. Concordia . . . .	32	+ 2	.3	+ .1	Fargo . . . . .	12	+ 1	T	- .1	WIS. Green Bay . . . .	19	0	.6	+ .3
Dodge City . . . . .	33	+ 1	.1	0	Williston . . . . .	8	- 5	.1	0	La Crosse . . . . .	18	- 1	.9	+ .6
Goodland . . . . .	33	+ 5	.1	0	OHIO. Akron-Canton . .	36	+ 7	1.6	+1.0	Madison . . . . .	22	+ 3	1.1	+ .8
Topeka . . . . .	31	0	.3	0	Cincinnati . . . . .	41	+ 9	1.2	+ .6	Milwaukee . . . . .	26	+ 4	1.2	+ .8
Wichita . . . . .	33	- 1	.1	- .1	Cleveland . . . . .	38	+ 9	1.4	+ .9	WYO. Casper . . . . .	20	- 6	.1	0
KY. Lexington . . . . .	44	+ 9	1.6	+ .6	Columbus . . . . .	38	+ 8	1.7	+1.1	Cheyenne . . . . .	27	- 1	T	- .1
Louisville . . . . .	43	+ 8	.7	- .1	Dayton . . . . .	38	+ 8	1.3	+ .8	Lander . . . . .	23	+ 2	.7	+ .6
LA. Baton Rouge . . . .	67	+14	1.6	+ .4	Toledo . . . . .	33	+ 6	1.1	+ .6	Sheridan . . . . .	18	- 7	1.1	+1.0
Lake Charles . . . . .	67	+13	.5	- .7	Youngstown . . . . .	36	+ 8	1.8	+1.3	P.R. San Juan . . . . .	78	+ 2	.6	- .4

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

## CONDENSED STATE SUMMARIES

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

**ALABAMA:** Considerable cloudiness and quite warm with scattered light rain throughout week. General rains Saturday night, clearing and turning cooler Sunday. Temperatures for week averaged more than 15° above normal. Very heavy rain extreme north and moderate to heavy amounts elsewhere. Moderate to heavy rains further delayed harvest remaining cotton, corn and soybeans, especially southern and central Alabama. Farmers made little progress toward harvest completion early week. Much of remaining production could be lost. Moisture conditions and unseasonable warm temperatures ideal for small grains and winter grazing crops. Stockmen however are hesitant to turn cattle on wet fields. Pastures supplying seasonally short grazing. Livestock owners feeding most areas. Cattle in fair to good.

**ARIZONA:** Temperatures were near normal most of State with freezing temperatures colder sections Salt River Valley on 5 nights and Yuma area 3 nights. Precipitation was light during week and limited mostly to higher elevations in northern part of State early in week. Maximum weekly water totals were mostly less than 0.50 inch. Cotton harvest nearing completion. Stalk cutting and plowing nearly complete Yuma. Some first picking remains in southeast. Small acreage central area remains unharvested. Small grain planting and preparation continue. Planting 3/4 complete southeast and central. Half complete Yuma. Early plantings doing well. Safflower planting progressing satisfactorily. Operations 1/2 complete central and 1/4 complete Yuma. Fall-planted sugar beets good condition. Lettuce, cabbage, romaine harvest continued Yuma. Low temperatures delayed early morning cutting. Growth later-planted lettuce, cabbage, carrots, romaine making seasonal progress. Navel, sweet, lemon, tangelo, and grapefruit harvest continued Salt River Valley. Lemon, grapefruit, navel and sweet harvest continued Yuma. Supplemental feeding increasing slightly. Lamb crop below normal due summer drought.

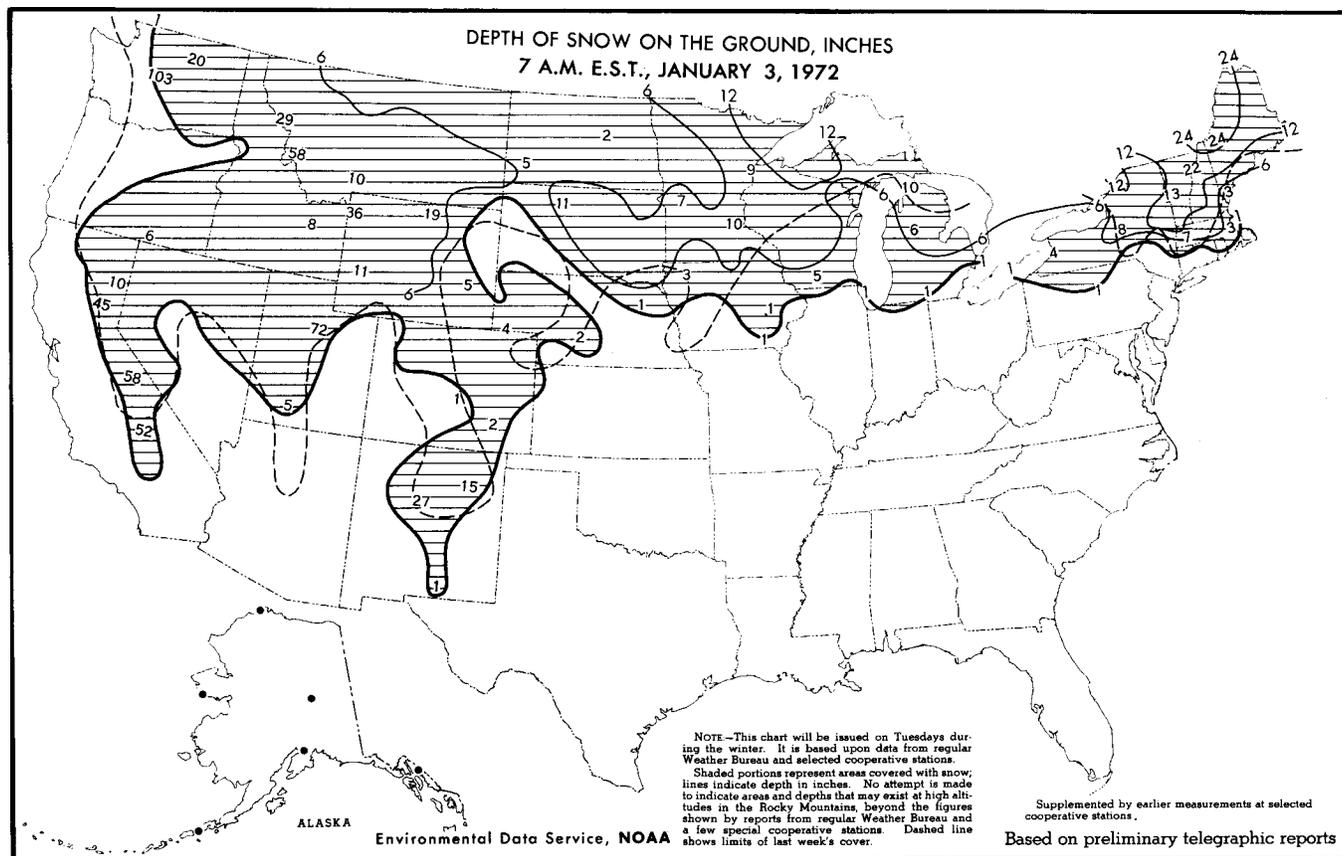
**ARKANSAS:** Temperatures continued generally above normal. Mean temperatures ranged from 9° above normal at Fayetteville, Camden, and Gilbert to only 2° above normal at Mountain Home. Some heavy rainfall amounts in southern east-central portion of State with generally light to moderate accumulations elsewhere. Amounts ranged from 3.82 inches at El Dorado to 0.35 inch at Gilbert. Most of heavy rains fell over weekend. Highest temperature was 76° at Texarkana on 28th and lowest was 23° at Calico Rock on 31st. Very little fieldwork accomplished due to rain and holiday activities. Virtually all soybean and cotton harvested Delta areas. Crops damaged by flooding southwest probably will not be harvested. Small grains continue make normal growth. Livestock mostly fair to good.

**CALIFORNIA:** Heavy rains in Los Angeles Basin with weekly totals of 2.00 to 4.00 inches, storm totals of 5.00 to 8.00 inches ended on 29th. Moderate precipitation most of rest of State. Snow above 3,000 feet including high desert.

Average temperatures were 4° to 10° below normal with very low maximums on 27th and 28th. Cold, wet weather virtually halted all cultural activities. Limited harvest sorghum, cotton, and sugar beets continues. Small grains showing good stands, but development retarded by cold weather. Additional acreage to be seeded when conditions permit. Alfalfa and pasture showing good growth. Dry land prospects south much improved. Continuing rainfall slowed winter operations. Navel orange harvest continues central, but at slow pace southern California. Fruit quality good; sizes on small side. Rains expected to increase size. Lemon harvest continues all areas. Tangerine and grapefruit harvest continues Desert. Picking avocados continues. Cold weather slowed grass growth, supplemental feeding increasing northern district. Livestock good. Stock water plentiful. Artichoke harvest very slow--wet fields. Broccoli, cauliflower very slow Salinas, light to moderate other producing areas. Digging carrots proceeding normal Desert Valleys. Celery cutting active Ventura, Orange, San Diego Counties; complete Salinas Valley. Lettuce harvest active Imperial Valley; nearly complete Palo Verde Valley. Potato digging active; limited some areas due wet fields. Tomato picking complete San Diego County.

**COLORADO:** Temperatures well above normal lower elevations, near normal mountains. Little or no precipitation southeast. Mostly light snow northeast and light to locally heavy snow mountains and west through the week. Severe storm from north late Sunday brought high winds, drifting snow, and sharp drop in temperatures to most areas of State. Surface soil moisture supplies generally adequate for fall-seeded grains. Condition fall-seeded grains good to excellent. Most small grain fields snow covered west slope. Wheat and other small grains providing good grazing eastern plains. Range and pastures providing fair grazing. Livestock condition generally good. Supplemental feeding required most areas. Caring for livestock major farm activity.

**FLORIDA:** Temperatures continue to average from 6° to 10° above normal making this the warmest December since 1931. Maximum temperatures in low 80's at most stations. Widely scattered showers during week except cold front pushed into north and central Florida late on weekend of January 1 and 2 bringing light rain and overcast skies to north and central Florida. Most rainfall amounts in vicinity of cold front totaled from 0.10 to 0.20 inch except for 0.60 inch at Tallahassee and 0.50 inch at Pensacola. Some heavier rain along southeastern coastal sections with 1.25 inches reported at West Palm Beach. In December, many daily high temperatures were set and some absolute monthly maximums recorded. Warmest December temperatures since 1931 recorded at Tampa 69.4°, Tallahassee 62.8°, Lakeland 70.0°, and Ft. Myers 72.3°. December records set at Orlando, 71.4°, and Pensacola 63.1°. Pensacola records extend back to 1879. Small grains showing good growth. Sugarcane harvest full swing. Small grains furnishing excellent forage. Inadequate moisture limiting grass growth central and south. Calving active. Citrus trees and fruit condition good.



Warm temperatures accelerating evaporation. Irrigation in progress. Vulnerable new growth in young trees. Harvest full swing. Unseasonably warm weather with no rain continues to upset vegetable planting and harvesting schedules. Irrigation very active. Tomatoes heavy volume. Cabbage, celery, escarole-chicory, eggplant, peppers, beans, sweet corn, cucumbers, and squash good supply. Carrots, various greens, Chinese cabbage, and red potatoes available. Planting watermelons and most other spring crops active.

GEORGIA: Continued unusually warm until weekend when slightly cooler weather moved in. Averages ranged from 10° to 14° above normal. Fourth week of unseasonably warm weather with numerous new record highs for specific dates and for so late in year. December averages 8° to 10° above normal making this the warmest December in 15 years and one of the warmest of record. Parts of extreme south had no freezing temperatures during December. Rain last half of week with most totals less than 1.00 inch. Farm activities limited during holiday period to routine care livestock and poultry. Small grains and winter pastures generally good condition. Soil moisture adequate.

HAWAII: Weather cool and cloudy, isolated heavy showers. Low temperatures slowed crop growth and maturity. Progress most crops fair. Operations pineapple plantations confined to plantings, weeding, and fertilizing with light harvesting for fresh markets. Supplies local vegetables and fruit adequate. Pasture and cattle fair to good condition.

IDAHO: Temperatures averaged slightly below normal and 10° to 15° lower than last week north and extreme northeast. Precipitation all areas and averaged above normal central mountains and northeast. Snow accumulations did not increase significantly. Supplemental feeding hay and other feeds to livestock at high level as snow cover and cold temperatures persist. Other farming activities at low level at years end.

ILLINOIS: Warm week, locally heavy rains. Temperatures averaged about 5° above normal and ranged from teens in the northwest on 31st to 60's in the south on 30th. Rainfall of 0.25 inch to 1.50 inches on 29th, heaviest in central and north. Few inches of snow on ground in northern 1/3 of State. Small grains good condition. Livestock good to excellent. Soil moisture adequate. Wells and ponds recovering from low water levels. Main activities routine farm and livestock chores.

INDIANA: Warm week. Temperatures averaged 8° above normal and ranged from 20° at Ft. Wayne on 29th to 65° at Evansville on 30th. Precipitation 0.50 to 1.50 inches on 29th and 30th. Most soils unfrozen during rain. Late in period, frozen soils and snow cover in far north. Outdoor activities limited by wet fields.

IOWA: Temperatures averaged 1° to 4° above normal except slightly below normal northernmost counties. Glaze and snow at beginning of week. Moderate to heavy precipitation at midweek, mostly as rain turning to snow. Three to 6 inches of new snow north and 1 inch or less over south.

**KANSAS:** Moderate to heavy precipitation south-east and parts east-central, locally over 1.00 inch. Elsewhere over State, precipitation generally light to moderate. Unseasonably warm northwest with mean temperatures averaging about 5° above normal, near normal to 2° above seasonal elsewhere. Maxima most days 30's to 50's. Wheat ground cover adequate most areas, with good growth late fields. Some yellowing and light Hessian fly and greenbug infestation. Some harvesting progress on limited acreage fall crops still in fields. Limited irrigation fields for spring crops west. Increased grazing wheat and stubble fields west--considerable supplemental feeding including some grain to calves. In east freezing rain hard on newborn animals and feedlots muddy. Livestock marketings light during holidays.

**KENTUCKY:** Temperatures 7° to 11° above normal for week and rainfall moderate to heavy, totals 0.70 inch to 1.45 inches. Temperatures above normal most days; much above normal 27th and 30th, high readings in the 60's to 70° range, near record or record readings for a number of locations. Rainfall 1 or more locations on 6 days and general on 3 days. Burley tobacco market will re-open January 4. Rainy, humid weather favorable for stripping. Winter small grains good condition. Pastures, primarily fescue, supplying considerable roughage. Livestock good.

**LOUISIANA:** Fourth unseasonably warm week. Temperatures averaged 9° to 11° above normal north and central, 12° to 15° above normal south. Temperature extremes: 83° at Amite and Lafayette Thursday and 37° at Monroe and Alexandria this morning. Frontal activity over weekend produced mostly moderate rainfall. Weekly totals ranged from 0.25 to more than 2.00 inches north and central, 0.50 to 1.50 inches south. Greatest 24-hour amount was 2.13 inches at Monroe at 6 a.m. Sunday. Fieldwork very limited owing to excessive moisture and holiday season. Sugarcane harvest reached 97% to 98% completion. Some scattered acreage cotton and soybeans still to be harvested. Unusually warm weather continued to favor growth winter small grains, condition mostly good. Pasture feed supplies about average, some supplemental feeding roughage. Livestock good condition.

**MARYLAND AND DELAWARE:** Unseasonably warm for 4th straight week. Temperatures averaged 11° above normal. Extremes mostly mid-60's to low 70's, mid-20's to mid-30's. Rainfall 0.75 to 1.00 inch except less than 0.50 inch in south. December 1971 a near record warm month, precipitation included light snowfall. Wet fields still delaying harvest completion. Small grains continue growth, benefiting late-seeded acreage. Livestock obtaining some feed from pasture.

**MICHIGAN:** Continued mild south, briefly colder north after midweek. Freezing rain changing to rain south, heavy snow north at midweek. Temperatures averaged normal to 3° below normal Upper Peninsula; 1° to 8° above normal Lower Peninsula, largest departures southern 1/3. Precipitation totals 0.50 to 1.00 inch Upper Peninsula, 0.75 to 1.30 inches Lower Peninsula except 0.30 inch Traverse City area.

**MINNESOTA:** Temperatures: Temperatures averaged slightly above normal north, near normal central, and slightly below normal south and southwest. Maximum 36°, -20°. Precipitation generally less than 0.25 inch except 0.50 inch to 1.00 inch in

bottom 1/3 of State. Snow depth averaged 3 inches to 11 inches across State except northwest district with about 2 inches.

**MISSISSIPPI:** Third straight week with above normal temperature averages: Weekly range was 12° to 18° above normal. Weekly extremes, 82° and 31°. Showers on 1 or 2 days with amounts mostly under 0.50 inch. Greatest 1-day amount of 1.13 inches on 29th at Jackson Airport. Over weekend: Heavy rains mostly Sunday with greatest 1-day amount of 3.34 inches at Leland; cooler and a 26° low at Tupelo this Monday morning. Wet weather continued to put a damper on farm activities. Average of only 2 days suitable for fieldwork. Winter pastures showing improvement, but too soggy for full use. Hay and feed grain reserves mostly adequate. Condition winter grain and livestock good.

**MISSOURI:** Another warm wet week. This was the 4th week that temperatures averaged 5° to 10° above normal. Rains averaged 0.50 to 1.00 inch in showers on Wednesday, December 29, and on Saturday, January 1.

**MONTANA:** Cold through Thursday with below zero minimum temperatures all divisions. Mild and windy remainder week. Heavy snow central and south-central divisions during weekend, light snow elsewhere. Winter wheat good condition with fields generally snow covered and little wind damage. Range livestock good condition with supplemental feeding increased due increased snow cover.

**NEBRASKA:** Temperatures averaged from slightly above normal in west to 3° to 5° above normal in southeast, with below normal northeast Nebraska. Rain and snow middle week and snow over weekend. Livestock care major farm activity. Very little harvesting of few remaining corn and sorghum fields accomplished. Topsoil moisture adequate most areas. Winter wheat condition good to excellent. Little snow cover most areas; stalk field grazing continuing. Feed grain supplies adequate. Muddy feed lots caused some problems. In addition, freezing weather caused feed lots to become rough in some areas.

**NEVADA:** Very cold week, 7° to 16° below normal in all divisions except near normal extreme south. Light to moderate precipitation. General light snowfall early part week. Low temperatures maintain snow ground cover varying from 1 to 20 inches except extreme south. Cotton harvest Pahrump Valley complete. Feeding and caring livestock remain main farm activity. Feed adequate most areas. Livestock holding up well and remain generally good condition.

**NEW ENGLAND:** Cold in northeast with means up to 8° below normal but warm in southwest with means up to 8° above normal. Coldest day was New Years with - 30° and lower in northern Maine and a few zeroes in southern New England. Precipitation almost daily but mostly as snow on December 30 except as rain on extreme southern coast and on January 2 but mostly as rain in central and south. Totals for week mostly 1.00 to 2.00 inches. Snow depths generally increased in week.

**NEW JERSEY:** Very warm Monday through Thursday followed by much colder Friday and Saturday. Temperatures moderated over eastern half of State Sunday. Temperatures ranged from upper 60's

in south Tuesday to low teens in central and northern counties Saturday. Rain on 30th and 31st and rain mixed with some snow on 2d averaged 1.20 inches melted over northern counties, 0.60 inch over central and southern interior, and 0.30 inch along coast. Weekly totals varied from 0.10 inch at Atlantic City to 1.50 inches at Long Valley.

**NEW MEXICO:** Scattered mostly light showers midweek and south on Saturday. Some localities in mountains and south totaled 0.50 to 1.00 inch. Temperatures continued to average above normal, especially at night. Temperatures averaged 5° to 10° above normal eastern plains. Moisture mostly adequate. Scattered range areas short. Limited cotton harvest continuing weather permitting. Wheat, barley mostly good. Pecan harvest continuing. Ranges livestock good to fair. Supplemental feeding various locations.

**NEW YORK:** Continued mild with major storm midweek and changeable weather on weekend. Maximums mid- to upper 50's western section on 27th with 45° to low 50's eastern half and coastal on 28th. Briefly cold on 31st and 1st with minimums near 10° below zero north and 0° to 10° southern Upstate. Moderate to heavy precipitation from well-developed storm system on 30th. Snow totaled 6 to 10 inches northeast border as 2 to 5 inches snow southern Upstate mixed with considerable rain. Liquid precipitation totaled 0.80 to 1.20 inches southern interior, 0.60 inch northeast, 0.30 inch Long Island. Additional light rain and snow on 2d. Significant increase in snow cover latter half of week. Depths 8 to 20 inches northern half and 3 to 7 inches Great Lake Plains to Hudson Valley for greatest since early December.

**NORTH CAROLINA:** Temperatures averaged much above normal with highest in 70's and lowest generally above freezing except the mountains and northwest Piedmont. Precipitation light to none calendar week. Showers trace to 1.00 inch mostly 0.50 or less over weekend. December averaged warmest since 1956 statewide and driest since 1965 except mountains. Some corn, sorghum grain and cotton, and considerable soybeans yet in fields. Slow progress toward finishing harvest, many fields will not support equipment. Other farm chores restricted by weather and holiday season.

**NORTH DAKOTA:** Temperatures averaged below normal southwest, above normal northeast and near normal other areas. Precipitation none to 0.04 inch. Snow cover light to 5 inches. Mild winter temperatures prevailed with little additional snow. Livestock remain good condition and receiving supplemental feed. Farmers marketing grain and livestock.

**OHIO:** Wet week with temperatures variable but above normal most of week. High temperatures on 27th and 30th reached into the low 60's. The range of lows for week was 15° to 57°. Moderate rain showers on 30th. Columbus 1.05 inches. Accompanied by gusting winds up to 60 m.p.h. Parts of northern and central Ohio experienced small amounts of freezing rain and snow. Rain some areas limited fieldwork. Activities included caring for livestock and machinery maintenance.

**OKLAHOMA:** Temperatures averaged from 2° above normal Panhandle to as much as 15° above normal southeast. Rainfall varied from 0.01 inch Panhandle to 0.80 inch southeast. Cotton harvest active about 4 afternoons. Less than 50% crop

harvested. Most heavier soil still too wet to permit equipment. Losses to date mostly grade deterioration. Some pecans, sorghum grain, soybeans, and guar also harvested. Small grains made some growth, mostly good to excellent condition. Grazing favorable, but many fields still too wet. Some rust infestation; also some yellowing lack available nitrates. Winter grasses and clovers made slight growth. Range feed generally adequate but deteriorating due wet weather. Some supplemental feeding continues. Soil moisture adequate to surplus most localities.

**OREGON:** Rain and snow first and last of week with cooler days mid-period. Temperatures averaged 3° to 9° below normal. Minima -12° to 37°. Maxima 37° to 58°. Snow cover 2 to 4 inches last half of week most of State remained eastside. Precipitation totaled 0.10 to 0.40 inch east and western valleys, 1.30 to 2.50 inches along coast. Spraying for weeds in alfalfa, fall wheat and barley fields underway as weather permits summer fallow counties. Limited amount fruit tree pruning taking place. Supplemental feeding cattle continues.

**PENNSYLVANIA:** Fourth week in row with much above normal temperatures. Highs in 50's or 60's most areas 1 or more days. Maximum 69° at Confluence. Cooler over weekend. Two periods of general precipitation, midweek and Sunday, produced totals over 2.00 inches parts of northwest. Central sections and parts of southeast and southwest had weekly amounts of 0.50 to 1.00 inch, while the remainder of State recorded between 1.00 and 2.00 inches. Most precipitation fell as rain, but some snow, sleet, and freezing rain occurred in mountain areas. Snow cover Monday morning confined to mountain regions with generally trace to 3 inches. Routine winter farm chores.

**PUERTO RICO:** Rainfall averaged about 1.00 inch or near normal for week. Highest weekly total 3.75 inches in heavier showers over northeastern section. Little or no rain in south and west coastal sections. Crop moisture conditions generally near normal except some portions south coast too dry and some zones eastern interior too wet. Temperatures averaged 75° to 76° on coast and 69° to 70° interior divisions with mean temperature of about 1.0° below normal. Highest maximum 88°; lowest minimum 53°. Heavier rain-showers delayed sugarcane harvesting operations, but were also beneficial for young crops. Coffee plantations had delays fieldwork due rain showers. Tobacco seedbeds developing well with some delays fieldwork eastern zones due heavier rain showers. Pastures good to excellent all zones with good progress seeding and fertilizing new crop. Minor crops developing well with good supply winter citrus on market.

**SOUTH CAROLINA:** The year ended with light rainfall in the northwest. Amounts varied from 0.10 to 0.30 inch. Temperatures averaged 10° to 12° above normal with afternoon highs mostly in 70's. Cooler air arrived January 1. Farmers had good week for harvesting most areas. Winding up soybeans, cotton harvest; small grains looking good. Pastures good to excellent condition. Some peach buds swelling due to extended period of above normal temperatures. Accumulated chilling hours behind schedule.

**SOUTH DAKOTA:** Temperatures averaged from 6° below normal to 2° above normal. Extremes ranged from 15° below zero at Flandreau on 28th to 47°

at Rapid City on 31st. Snow scattered through week with precipitation amounts ranging from a trace to about 0.80 inch. Snowfall ranged from trace to about 1 foot. The heaviest amounts fell in south-central and south-east. Snow cover end of week ranged from none in the southwest in the southwest to about 1 foot portions of east and north-central. Livestock good condition. Supplemental feeding necessary most areas due cold weather and snow cover. Feeding and caring for livestock main farm activity. No abnormal disease or death loss problem. Winter wheat and rye fields have light to adequate snow cover.

TENNESSEE: Unseasonably mild until appreciably colder over weekend. Temperatures averaged 8° to 10° above normal. Recordbreaking high temperatures on 27th. Rain most sections on 5 days. Amounts generally 1.00 to 2.00 inches west half, and 2.00 inches to as much as 3.50 inches east half. Most farmwork restricted to livestock chores as fields are wet. Most livestock good condition. Feed plentiful and mild weather allowed for good pasture. Small grain making good growth. Only few scattered fields cotton, soybeans and corn not harvested.

TEXAS: Moderate to locally heavy rains fell in central and east Texas Wednesday through Saturday with light amounts in portions of northwest Texas earlier in week. Much colder air pushed into northwest Texas early Monday. Harvest cotton and sugar beets making fair to good progress High Plains. Gin backlogs and short trailer supplies have interfered with cotton harvest parts southern High Plains. Wheat and oats continue to make good to excellent growth and furnish above average grazing. Rust and leaf spot oats favored by warm humid weather is widespread and continues to increase. Seeding flax southern areas making fair progress. South Texas vegetable harvest fairly active, although temporarily slowed by holidays. Moderate supplies cabbage, with light to moderate supplies carrots, lettuce, spinach, broccoli, cauliflower and greens. Harvest spring peppers, tomatoes, cucumbers nearly complete. Winter vegetables, spring onions generally good progress in unseasonably mild temperatures. Planting early fields spring cantaloupes, tomatoes, peppers underway Lower Valley. Citrus harvest at temporary lull due holidays. Pecan harvest nearly complete.

UTAH: Recurring periods of snow continued to plague residents of Utah past week. Snow on ground continued to increase, and locally strong winds over weekend caused considerable drifting. Temperatures averaged near to little above normal most localities. Care and feeding cattle and sheep feedlots and on valley farms, dairy cattle, and poultry flocks continues leading activities. Turkey plants completed processing 1971 crop, now closed. Sugar processing full force. Sorting, grading and marketing potatoes, dry onions, and apples from storage continue. Irrigation water supply for 1972 expected to be best ever.

VIRGINIA: Temperatures above to much above normal becoming cooler over weekend. Precipitation mostly less than 0.50 inch. Plowed and spread lime and fertilizer. Picked some corn; combined few soybeans. Limited acreages wheat and rye sown. Topsoil moisture adequate. Winter grains and grazing crops top condition. Livestock obtained much feed from grazing. Hay roughage and feed grain supply good. Livestock care and feeding minimized by mild weather. Newborn stock good condition.

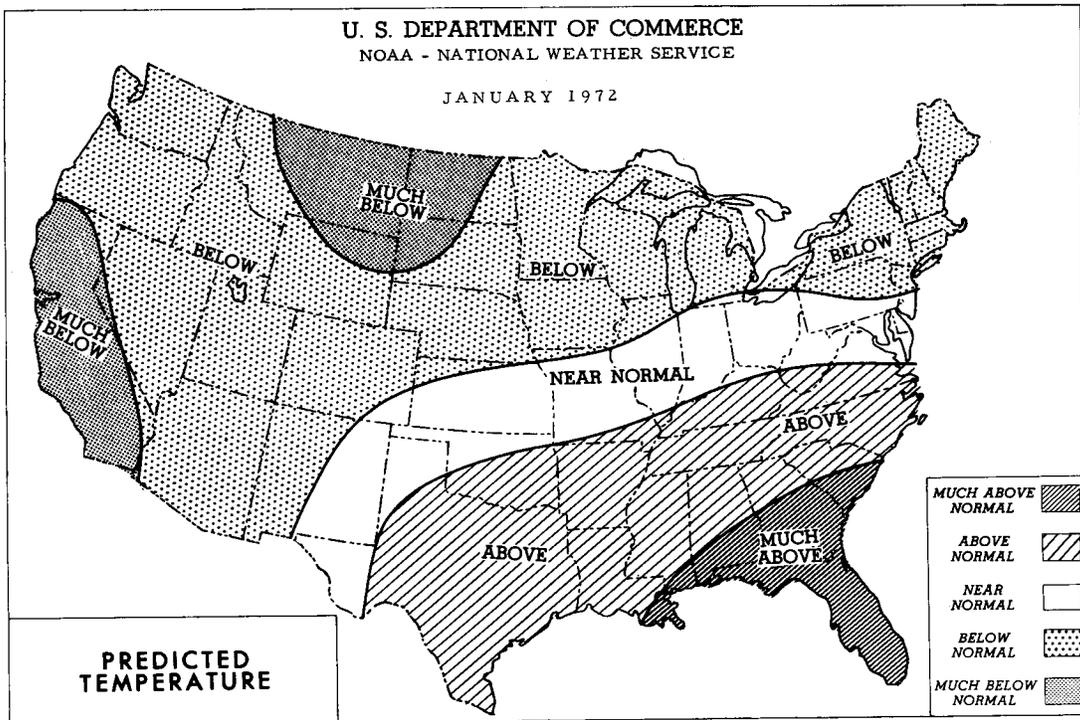
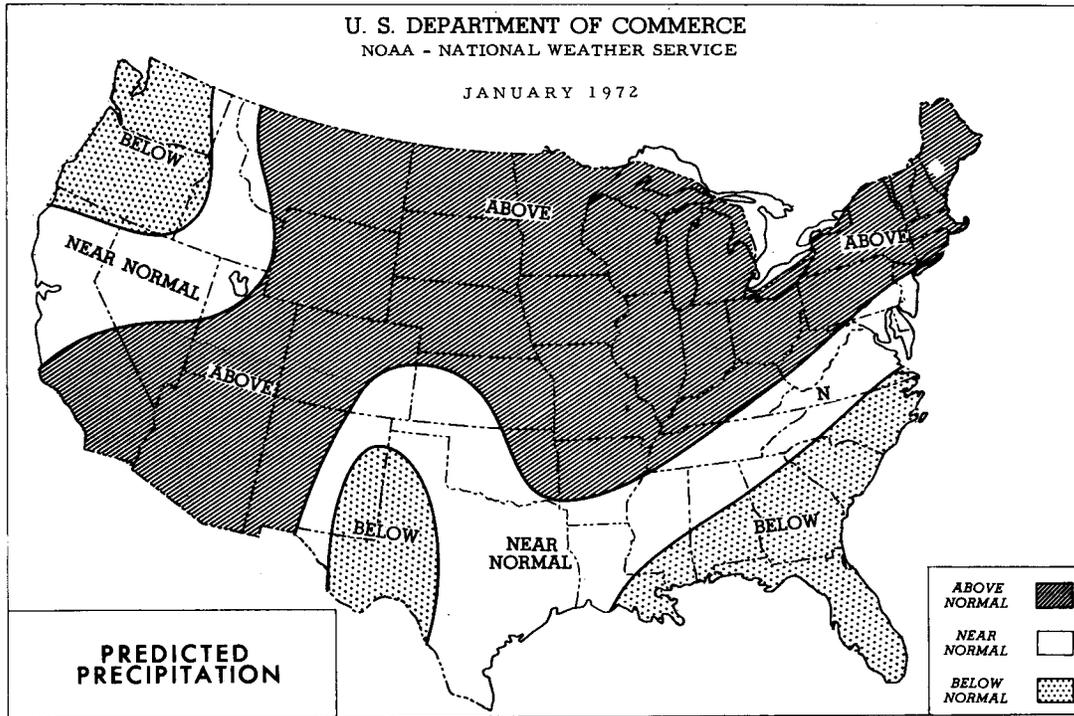
WASHINGTON: Western Washington: Cold, dry weather prevailed with periods of wind and snow. Temperatures and precipitation averaged well below normal. Subfreezing temperatures in arctic air mass may have caused some berry damage although too soon to tell. Fieldwork nil, but forcing Victoria rhu-barb begun. Livestock doing well and hay adequate. Eastern Washington: Cold temperatures and snow brought most farm activity to standstill. Temperatures and precipitation averaged well below normal with some minimum temperatures approaching zero. Some limited pruning being done with main activity centered around care and feeding livestock.

WEST VIRGINIA: Light rain through week with most on December 28 and 30 but weekly totals below 0.50 inch. Heavier rain Sunday, January 2, totaled about 0.50 inch. Winterlike temperatures December 29 and 31 only, with balance of days spring-like with daytime temperatures in 60's. Maintenance and repair buildings and farm equipment major farm activities. Livestock under minimum amount stress due relatively mild winter weather.

WISCONSIN: Temperatures averaged near normal in north and a little above normal in south. Precipitation was heavy at around 1.00 inch across south half. Heavy snow in these areas Wednesday night and Thursday. Up to 15 inches in counties to east of Lake Winnebago. Mostly rain in extreme southern tier of counties bordering Illinois. Snow depths range between 6 and 12 inches over State except less extreme south. Ground bare in Kenosha, Racine, and Walworth Counties. Winter sports very active during week. Frost depths continue shallow at less than 6 inches. Farm activities mostly barnyard chores.

WYOMING: Scattered light to moderate snows statewide except the southeast portion. South Pass City reported the most moisture with 0.91 inch. Temperatures averaged near normal west of Divide, well below normal along the northern edge, above normal elsewhere. Maxima were mostly 35° to 45° west of Divide and northern edge, 45° to 65° elsewhere. Minima were mostly -5° to -25° west of Divide, -10° to 14° east. Temperature extremes: 65° at Carpenter and -26° at Big Piney. Livestock are in good condition. Feed and stockwater supplies continue adequate.

**AVERAGE MONTHLY WEATHER OUTLOOK**



The above prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They were extracted from the Extended Forecast Division's publication "Average Monthly Weather Outlook" which contains additional information necessary for complete interpretation.

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