

# Weekly Weather & Crop Bulletin

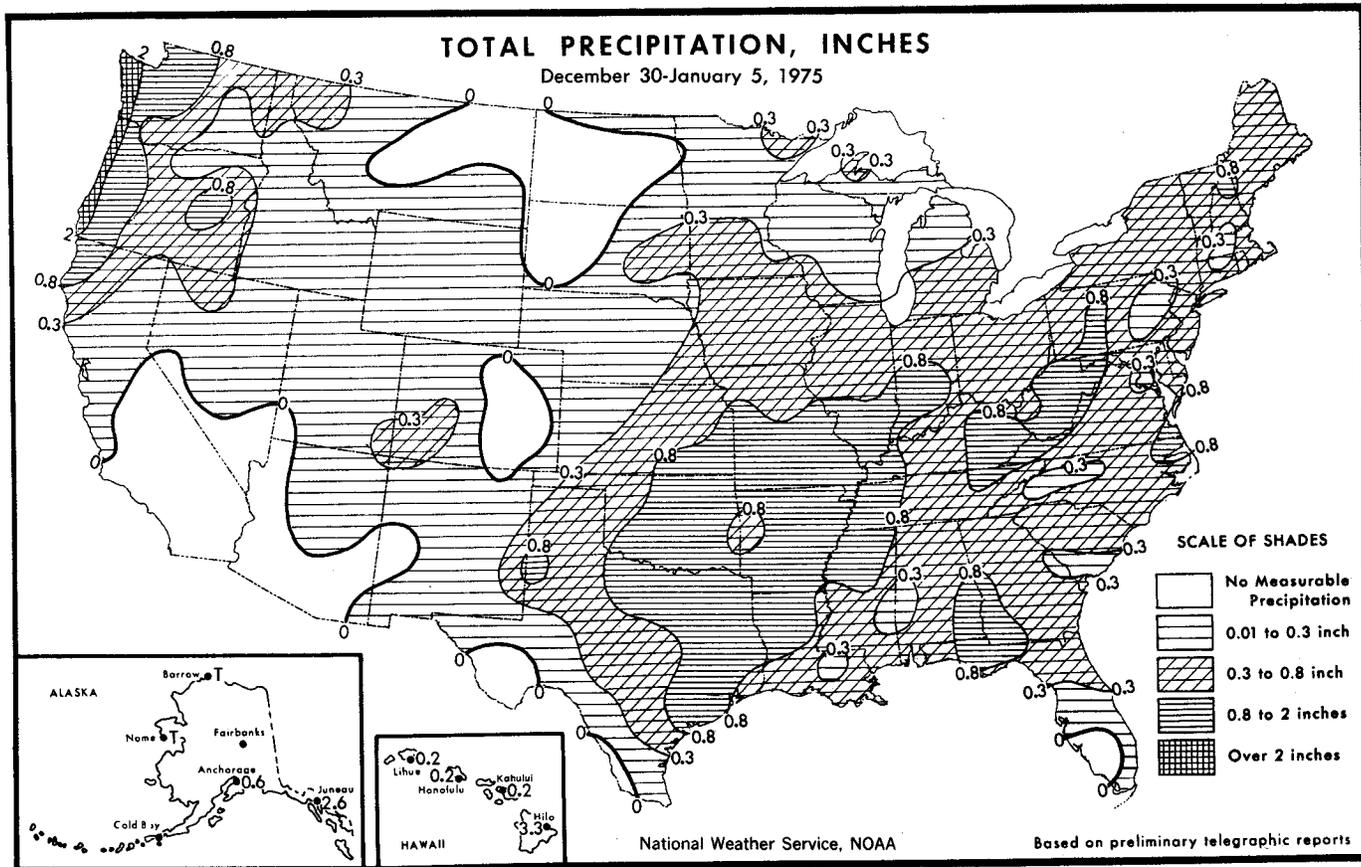
U. S. DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE  
Statistical Reporting Service

Volume 62, No. 1

January 7, 1975

Washington, D. C.



## NATIONAL WEATHER SUMMARY

For the Week of December 30 to January 5

**HIGHLIGHTS:** A series of rapidly moving Pacific storm fronts drifted across the Nation last week triggering heavy precipitation along the Washington-Oregon Coast and snow showers throughout the Rocky Mountain Region. After colliding with a combination of cool Canadian air and warm gulf air in the Nation's heartland, the storms blanketed the Great Lakes area with snow and caused light precipitation from Texas northeastward to New England.

Escaping the storm's assault, the north central plains recorded only light snow again last week.

Unseasonably cold air surrounded the West while mild temperatures prevailed in the Nation's eastern half. Alamosa, Colo. set or equalled the record low morning temperatures for several consecutive days last week, reporting as low as 28° below zero.

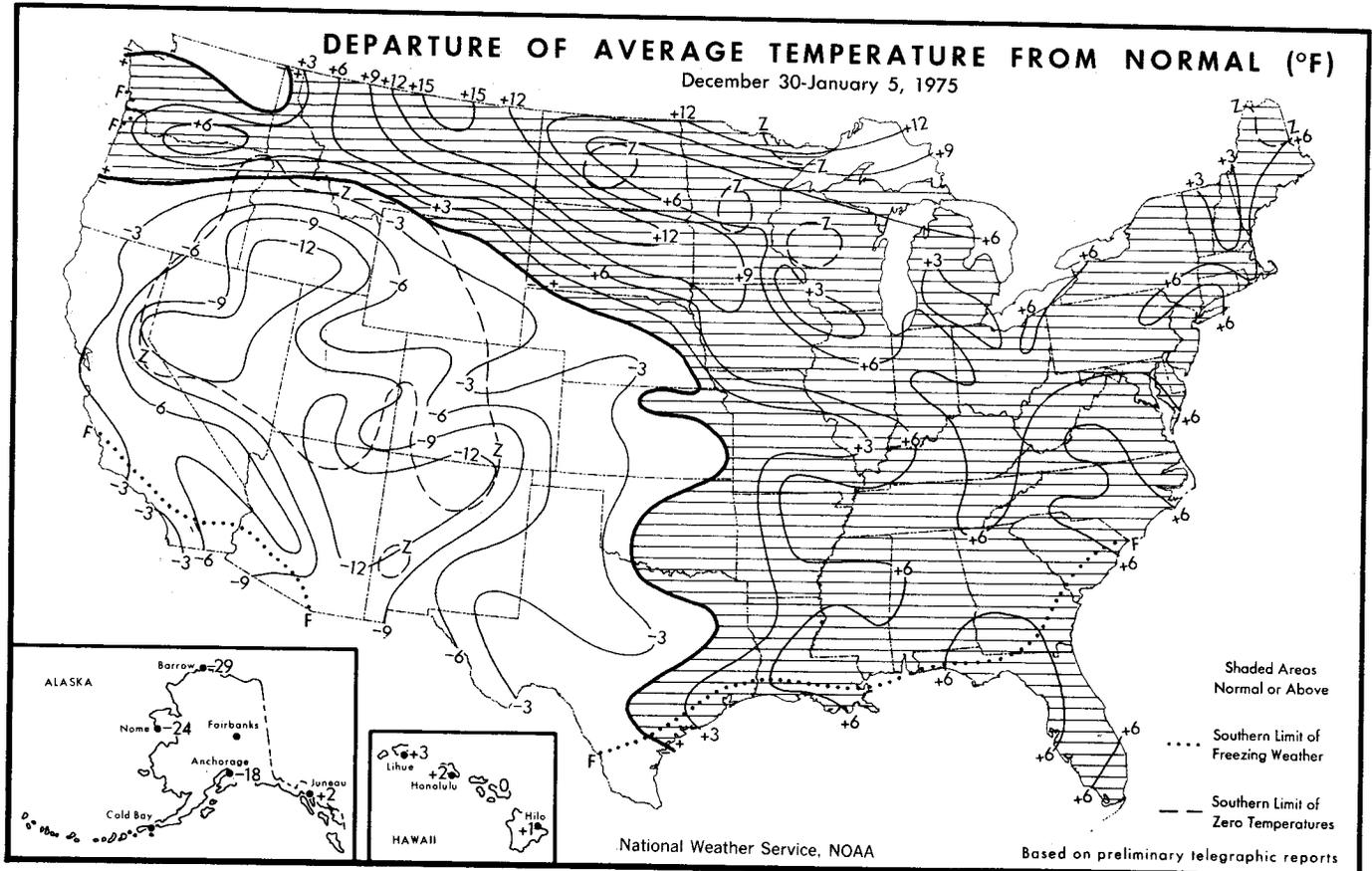
In contrast some record high temperatures in the East included: 78° at Apalachicola, Fla.; 79° at Mobile, Ala.; and 72° at Atlanta, Ga.

**PRECIPITATION:** Cool, moist Pacific storm fronts dumped rains totaling 1.00 to over 2.50 in. along the Pacific Northwest Coast and light snow showers across the Rocky Mountains. As the rapidly moving storm fronts encountered moist air from the Gulf of Mexico, precipitation spread from Texas through New England. Snow fell around the Great Lakes and in northern New England.

Monday, a brisk cold front moving in the Pacific Northwest spread clouds from the northern and central Pacific Coast to the northern Rockies. Snow associated with the front fell from Oregon to western Montana.

Precipitation dampened the lower Mississippi Valley and the northeastern U.S. on Tuesday, while snow whitened the ground from Iowa and Wisconsin into the lower Great Lakes and New England. By evening 3 in. of new snow covered the ground at Flint, Mich. and an inch was reported at both Muskegon and Houghton Lake.

Wednesday, a low pressure area scattered



rain or snow from the Great Lakes and lower Ohio Valley to New England. Snow fell over the northern Great Lakes into northern New England and rain, drizzle and fog shrouded southern New England through the Ohio Valley.

A snow storm hovering over west Texas and New Mexico pushed rapidly northeastward through the eastern Rockies and Plains States on Thursday. In only six hours 3 in. of new snow fell at Dalhart, Texas; Guymon, Okla. and Russell, Kans.

Friday, the storm moved off the Atlantic Coast after dumping snow across New England, eastern New York and the western Great Lakes Region. Meanwhile, a new storm front invaded the west, triggering rain over western Washington, Oregon and northwest California.

The new snow storm system accompanied by strong winds moved through the Plateau on Saturday. During the morning a squall line crossed Salt Lake City, Utah, winds gusted up to 70 mph. In Montana, the combination of wind and snow created blizzard conditions with more than 6 in. of new snow accumulating in the mountains and foothills.

Early Sunday, a new storm system triggered precipitation in the Pacific Northwest from northern California through the western portions of Oregon and Washington.

**TEMPERATURE:** Weekly temperatures averaged above normal from the Plains eastward and along the Canadian border through Montana. Bitter cold weather plagued the snow covered Rocky Mountains and interregion valleys. Elsewhere throughout the western mountains temperatures averaged sharply below normal with extremes of 13° below normal at

Reno, Nev. and 15° below normal at Winslow, Ariz. Monday, high pressure centers kept skies clear and the weather cold. Some below zero morning readings were reported from Minnesota to the central and southern Plateau.

Unusually chilly weather prevailed in the West while mild air dominated the East. Afternoon temperatures across the Nation ranged from 5° below zero in Alamosa, Colo. to 82° above zero in Orlando, Fla. on Tuesday.

Wednesday, cold Canadian air combined with clear skies over the north and central Rockies dropping temperatures to well below zero in many areas. Alamosa, Colo. reported a bone chilling 28° below zero.

Cold air dominated much of the Nation on Thursday with above freezing morning temperatures confined to the coastal areas from New England to southern Georgia, into the lower Mississippi and the south Central Plains to southwest Texas. The Pacific Coast area was also above freezing. The coldest was 14° below zero at Winnemucca, Nev.

Friday, mild temperatures prevailed over the southern Florida Peninsula with a low of 70° at Key West while cold temperatures persisted in the Great Basin. Winnemucca, Nev. reported a low of 26° below zero.

Saturday, afternoon temperatures measured near normal for the season in most places, ranging from the teens and 20's in the central Rockies and north central U.S. to the 70's and 80's in Florida.

A high pressure center brought fair skies to the Rockies and the southern Plateau. Yet temperatures lingered in the teens and 20's at midday on Sunday.

**NATIONAL AGRICULTURAL SUMMARY**

For the Week of December 30 to January 5

**HIGHLIGHTS:** Cold temperatures slowed small grain growth over much of the Southern Great Plains and Western States. Subnormal temperatures and wet field conditions increased the need for more live-stock care and feeding.

Cotton harvest continues in Arkansas, Mississippi, Oklahoma, and Texas.

**SMALL GRAINS:** Bitter cold slowed winter wheat growth in many areas of the Southern Great Plains and Western States. Wet field conditions limited grazing of wheat fields over much of the South Central States, however, grazing was generally above average in the southern half of Texas. The wheat crop was rated in good condition in most South Atlantic States, Ohio, Mississippi, and Tennessee.

In Kansas, winter wheat received some moisture from snow, but dry conditions still exist in central areas. Dry conditions also limited growth in Colorado.

The lack of snow cover on winter wheat in South Dakota hasn't hurt the crop yet because sub-zero weather has been minimal. Snow cover was also inadequate in most areas of Montana, but little or no wind damage has occurred; however, strong winds caused further drying of wheat fields in Wyoming. In Washington, most grain areas finally had accumulated a protective snow cover.

Small grain seeding continues in Arizona and California, early seeded fields were progressing well in both States.

**COTTON:** Ice and snow hampered cotton harvesting in Texas and Oklahoma while rain and wet field conditions stalled progress in Arkansas and Mississippi. Harvest was nearly complete in other Southern States, Arizona and New Mexico.

The Texas cotton harvest advanced to 94% complete, behind last year's progress of 96%, but far ahead of the average 82% harvested. Harvest in Oklahoma was 66% complete and quality continues to decline. In Mississippi, cotton was 92% harvested against the normal 98%. Cotton picking in Arkansas also continued slow with 95% of the crop harvested.

**SOYBEANS:** Wet weather and muddy fields continue to slow harvest of the remaining soybean fields. Harvest in Indiana was 95% complete, 8 weeks behind the 1973 progress. In Mississippi, combining was 95% complete, equal to average progress, while in Arkansas wet fields permitted little progress and harvest was only 97% complete. Snow, rain and wet soils delayed harvesting in Oklahoma where only 85% of the soybeans were harvested.

**OTHER CROPS:** Corn harvesting continues in Indiana and Illinois as weather permits. Harvest in Indiana was 92% complete, 6 weeks behind the 1973 crop. In Illinois, harvest continues in the late areas.

Burley tobacco stripping was complete in Tennessee but, stripping was active in Maryland. Tobacco plant bed preparation continued in Florida, Georgia, North Carolina and Virginia.

Sugarbeet growth was well advanced in Arizona while planting continues in California. The sugar-cane harvest was in full swing in Florida and growth on the new cane was good.

**FRUITS AND NUTS:** Cold temperatures in California December 23rd to 26th did some damage to fruit in the Madera, Fresno and Palo Verde Valley areas. Harvest of tangerines, lemons, Navel oranges and grapefruit at seasonal levels in California. Citrus tree condition was excellent in Florida, but more moisture is needed. Off bloom oranges had color break. Harvest was active. The citrus harvest continues heavy in Texas and the harvest was further advanced than normal due to this year's shorter crop. Citrus picking was active in Arizona's Yuma and Maricopa Counties.

**VEGETABLES:** Wet weather slowed vegetable harvest over much of Texas. In the Lower Rio Grande Valley, cabbage, carrots, lettuce, some greens, parsley, peppers, tomatoes, and turnips were the major harvest activities. Spring vegetable land is being prepared in the Coastal Bend, and central areas.

In California, harvests of artichokes, asparagus, broccoli and cauliflower were light, while carrot, celery, lettuce, and potato harvest continued active.

Florida vegetable shipments returned to volume following the holiday lull: Tomatoes, corn, and peppers were up sharply, good increases were registered for cabbage, celery, escarole, and eggplant, while beans, cucumbers, lettuce, radishes and squash were steady.

**PASTURES AND LIVESTOCK:** Rain and wet conditions limited grazing over much of the South and East while cold temperatures greatly increased supplemental feeding in the West. Despite these adverse conditions, livestock were generally rated in good condition in most areas. Supplemental feeding has been minimized by mild weather to date in North and South Dakota helping to conserve hay and other feed supplies. Livestock were showing the effects of several weeks of adverse weather in Texas, while in Oklahoma, cattle condition was down because supplemental feeding was light due to the high feed costs.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., January 5, 1975

| 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 . . .    | 50             | + 6       | .6                   | -.7       | La. Baton Rouge . . .    | 57             | + 6       | .3                   | -.7       | Youngstown . . .        | 30             | + 4       | .5                   | -.1       |
| Mobile . . .             | 59             | + 8       | .4                   | -1.9      | Lake Charles . . .       | 58             | + 6       | .4                   | -.7       | OKLA. Okla. City . . .  | 38             | + 1       | 1.3                  | +1.0      |
| Montgomery . . .         | 54             | + 7       | .7                   | -.3       | New Orleans . . .        | 60             | + 7       | .5                   | -.6       | Tulsa . . .             | 38             | + 1       | 1.1                  | + .7      |
| ALASKA. Anchorage . . .  | -7             | -18       | .6                   | + .4      | Shreveport . . .         | 48             | + 1       | 1.0                  | + .1      | OREG. Astoria . . .     | 43             | + 2       | 2.6                  | + .3      |
| Barrow . . .             | -43            | -29       | 1                    | 0         | MAINE. Caribou . . .     | 17             | + 5       | .3                   | -.2       | Burns . . .             | 21             | - 4       | .9                   | + .5      |
| Fairbanks . . .          | ---            | ---       | ---                  | ---       | Portland . . .           | 29             | + 7       | .3                   | -.5       | Medford . . .           | 34             | - 2       | 1.3                  | + .5      |
| Juneau . . .             | 26             | + 2       | 2.6                  | +1.7      | MD. Baltimore . . .      | 39             | + 6       | .5                   | -.2       | Pendleton . . .         | 40             | + 6       | 1                    | -.3       |
| Kodiak . . .             | ---            | ---       | ---                  | ---       | MASS. Boston . . .       | 36             | + 6       | .4                   | -.4       | Portland . . .          | 42             | + 4       | 1.9                  | + .5      |
| Nome . . .               | -20            | -24       | T                    | -.2       | Chatham . . .            | 36             | -         | .3                   | ---       | Portland . . .          | 40             | + 1       | 1.6                  | 0         |
| ARIZ. Flagstaff . . .    | 17             | -11       | .2                   | -.3       | MICH. Alpena . . .       | 26             | + 7       | T                    | -.4       | PA. Allentown . . .     | 33             | + 5       | .5                   | -.2       |
| Phoenix . . .            | 46             | - 5       | T                    | -.2       | Detroit . . .            | 28             | + 3       | .6                   | + .1      | Erie . . .              | 32             | + 6       | .7                   | + .1      |
| Tucson . . .             | 42             | - 9       | 0                    | -.2       | Flint . . .              | 27             | + 4       | .4                   | 0         | Harrisburg . . .        | 34             | + 4       | .2                   | -.4       |
| Winslow . . .            | 17             | -15       | .2                   | + .1      | Grand Rapids . . .       | 25             | + 1       | .4                   | 0         | Philadelphia . . .      | 37             | + 4       | .4                   | -.3       |
| Yuma . . .               | 48             | - 7       | 0                    | -.1       | Houghton Lake . . .      | 23             | + 4       | .2                   | -.2       | Pittsburgh . . .        | 33             | + 5       | .7                   | + .1      |
| ARK. Fort Smith . . .    | 40             | + 1       | .6                   | 0         | Lansing . . .            | 27             | + 3       | .4                   | 0         | Scranton . . .          | 32             | + 6       | .2                   | -.3       |
| Little Rock . . .        | 45             | + 6       | 1.5                  | + .6      | Marquette . . .          | 28             | + 8       | .1                   | -.3       | R.I. Providence . . .   | 34             | + 5       | .4                   | -.4       |
| CALIF. Bakersfield . . . | 43             | - 3       | T                    | -.2       | Muskegon . . .           | 30             | + 5       | .4                   | -.1       | S.C. Charleston . . .   | 55             | + 7       | .2                   | -.5       |
| Eureka . . .             | 45             | - 2       | 1.5                  | -.2       | S. Ste. Marie . . .      | 23             | + 7       | .2                   | -.3       | Columbia . . .          | 53             | + 8       | .6                   | -.2       |
| Fresno . . .             | 39             | - 5       | T                    | -.4       | MINN. Duluth . . .       | 16             | + 6       | .1                   | -.2       | Greenville . . .        | 48             | + 6       | .5                   | -.4       |
| Los Angeles . . .        | 52             | - 5       | T                    | -.6       | Internatl Falls . . .    | 17             | +14       | .2                   | 0         | S.D. Aberdeen . . .     | 23             | +12       | 1                    | 0         |
| Red Bluff . . .          | 43             | - 1       | .3                   | -.7       | Minneapolis . . .        | 20             | + 7       | .3                   | + .1      | Huron . . .             | 24             | +11       | .5                   | + .4      |
| San Diego . . .          | 53             | - 2       | T                    | -.4       | Rochester . . .          | 17             | + 3       | .3                   | + .1      | Rapid City . . .        | 27             | + 4       | T                    | -.1       |
| San Francisco . . .      | 45             | - 3       | T                    | -1.0      | St. Cloud . . .          | 15             | + 5       | .3                   | + .1      | Sioux Falls . . .       | 24             | + 9       | .3                   | + .2      |
| Stockton . . .           | 39             | - 4       | T                    | -.7       | MISS. Jackson . . .      | 54             | + 7       | .6                   | -.5       | TENN. Chattanooga . . . | 46             | + 6       | .6                   | -1.3      |
| COLO. Denver . . .       | 28             | - 2       | T                    | -.1       | Meridian . . .           | 52             | + 5       | .1                   | -1.0      | Knoxville . . .         | 45             | + 5       | .7                   | -.3       |
| Grand Junction . . .     | 17             | - 9       | .1                   | 0         | MO. Columbia . . .       | 32             | + 3       | .6                   | + .2      | Memphis . . .           | 47             | + 6       | .9                   | -.2       |
| Pueblo . . .             | 20             | -10       | 0                    | -.1       | Kansas City . . .        | 30             | + 2       | 1.0                  | + .7      | Nashville . . .         | 46             | + 8       | .3                   | -.8       |
| CONN. Bridgeport . . .   | 36             | + 5       | .4                   | -.3       | St. Louis . . .          | 34             | + 2       | 1.0                  | + .6      | TEX. Abilene . . .      | 40             | - 4       | .5                   | + .3      |
| Hartford . . .           | 31             | + 6       | .3                   | -.5       | Springfield . . .        | 36             | + 3       | 1.5                  | +1.1      | Amarillo . . .          | 30             | - 6       | .5                   | + .4      |
| D.C. Washington . . .    | 43             | + 8       | .3                   | -.3       | MONT. Billings . . .     | 29             | + 6       | T                    | -.1       | Austin . . .            | 50             | 0         | .6                   | + .2      |
| FLA. Apalachicola . . .  | 59             | + 5       | .6                   | -.1       | Glasgow . . .            | 24             | +13       | T                    | -.1       | Beaumont . . .          | 56             | + 4       | .2                   | -.8       |
| Daytona Beach . . .      | 67             | + 8       | .3                   | -.1       | Great Falls . . .        | 30             | + 9       | T                    | -.2       | Brownsville . . .       | 59             | - 2       | 1                    | -.2       |
| Ft. Myers . . .          | 71             | + 7       | 0                    | -.4       | Havre . . .              | 27             | +15       | T                    | -.1       | Corpus Christi . . .    | 56             | - 1       | .3                   | 0         |
| Jacksonville . . .       | 60             | + 6       | .4                   | -.2       | Helena . . .             | 26             | + 7       | T                    | -.1       | Del Rio . . .           | 49             | - 1       | .2                   | + .1      |
| Key West . . .           | 75             | + 4       | .1                   | -.3       | Kalispell . . .          | 24             | + 4       | .3                   | -.1       | El Paso . . .           | 36             | - 7       | .1                   | 0         |
| Lakeland . . .           | 67             | + 6       | .2                   | -.3       | Miles City . . .         | 26             | + 9       | T                    | -.1       | Fort Worth . . .        | 45             | 0         | .8                   | + .4      |
| Miami . . .              | 73             | + 5       | .1                   | -.4       | Missoula . . .           | 27             | + 6       | .2                   | -.1       | Galveston . . .         | 59             | + 5       | .5                   | -.3       |
| Orlando . . .            | 68             | + 8       | 1                    | -.4       | NEBR. Grand Island . . . | 20             | - 3       | .2                   | + .1      | Houston . . .           | 56             | + 4       | 1.0                  | + .2      |
| Tallahassee . . .        | 57             | + 5       | .9                   | 0         | Lincoln . . .            | 22             | - 1       | .3                   | + .2      | Lubbock . . .           | 34             | - 5       | .3                   | + .2      |
| Tampa . . .              | 67             | + 6       | .1                   | -.4       | Norfolk . . .            | 22             | + 2       | .2                   | + .1      | Midland . . .           | 41             | - 3       | .2                   | + .1      |
| W. Palm Beach . . .      | 71             | + 5       | .1                   | -.5       | N. Platte . . .          | 21             | - 2       | .1                   | 0         | San Angelo . . .        | 43             | - 3       | .4                   | + .2      |
| GA. Atlanta . . .        | 49             | + 7       | .7                   | -.3       | Omaha . . .              | 27             | + 6       | .6                   | + .5      | San Antonio . . .       | 51             | 0         | .4                   | + .1      |
| Augusta . . .            | 52             | + 7       | .3                   | -.5       | Valentine . . .          | 24             | + 3       | T                    | -.1       | Victoria . . .          | 56             | + 2       | .8                   | + .4      |
| Macon . . .              | 53             | + 6       | .3                   | -.6       | NEV. Ely . . .           | 14             | -10       | .1                   | -.1       | Waco . . .              | 44             | - 3       | .7                   | + .3      |
| Savannah . . .           | 57             | + 8       | .4                   | -.3       | Las Vegas . . .          | 38             | - 5       | 0                    | -.1       | Wichita Falls . . .     | 41             | 0         | 1.0                  | + .7      |
| HAWAII. Hilo . . .       | 72             | + 1       | 3.3                  | + .8      | Reno . . .               | 18             | -13       | .1                   | -.2       | UTAH. Blanding . . .    | 19             | - 8       | .3                   | 0         |
| Honolulu . . .           | 75             | + 2       | .2                   | -.8       | Winnemucca . . .         | 11             | - 7       | .3                   | + .1      | Salt Lake City . . .    | 24             | - 4       | .1                   | -.2       |
| Kahului . . .            | 72             | 0         | .2                   | -.6       | N.H. Concord . . .       | 24             | + 3       | .3                   | -.3       | VT. Burlington . . .    | 22             | + 4       | .4                   | 0         |
| Lihue . . .              | 75             | + 3       | .2                   | -1.3      | N.J. Atlantic City . . . | 36             | + 3       | .4                   | -.4       | VA. Lynchburg . . .     | 40             | + 4       | .4                   | -.3       |
| IDAHO. Boise . . .       | 19             | -10       | .2                   | -.1       | Trenton . . .            | 37             | + 4       | .5                   | -.2       | Norfolk . . .           | 46             | + 6       | .9                   | + .2      |
| Lewiston . . .           | 34             | + 3       | .1                   | -.2       | N.MEX. Albuquerque . . . | 21             | -13       | .1                   | 0         | Richmond . . .          | 43             | + 6       | .3                   | -.3       |
| Pocatello . . .          | 11             | -12       | .2                   | 0         | Roswell . . .            | 34             | - 3       | .3                   | + .2      | Roanoke . . .           | 41             | + 5       | .4                   | -.3       |
| ILL. Cairo . . .         | 40             | + 3       | .9                   | 0         | N.Y. Albany . . .        | 27             | + 5       | .4                   | -.2       | WASH. Colville . . .    | 22             | - 2       | .3                   | -.2       |
| Chicago . . .            | 29             | + 4       | .4                   | 0         | Binghamton . . .         | 25             | + 3       | .7                   | + .1      | Omak . . .              | 22             | - 1       | .6                   | + .2      |
| Moline . . .             | 26             | + 4       | .5                   | + .1      | Buffalo . . .            | 31             | + 6       | .5                   | -.1       | Quillayute . . .        | 40             | + 1       | 3.0                  | -.5       |
| Peoria . . .             | 30             | + 6       | .5                   | + .1      | New York . . .           | 38             | + 5       | .4                   | -.3       | Seattle-Tacoma . . .    | 39             | + 1       | 1.2                  | -.1       |
| Rockford . . .           | 22             | + 1       | .4                   | 0         | Rochester . . .          | 30             | + 5       | .4                   | -.1       | Spokane . . .           | 24             | - 1       | .5                   | -.1       |
| Springfield . . .        | 33             | + 6       | .4                   | 0         | Syracuse . . .           | 29             | + 5       | .5                   | -.1       | Walla Walla . . .       | 41             | + 7       | .2                   | -.3       |
| IND. Evansville . . .    | 37             | + 4       | .7                   | 0         | N.C. Asheville . . .     | 43             | + 6       | .3                   | -.5       | Yakima . . .            | 32             | + 5       | .7                   | + .4      |
| Ft. Wayne . . .          | 32             | + 6       | .4                   | -.1       | Charlotte . . .          | 45             | + 4       | .6                   | -.2       | W. Va. Beckley . . .    | 37             | + 6       | 1.0                  | + .2      |
| Indianapolis . . .       | 33             | + 5       | .9                   | + .3      | Greensboro . . .         | 45             | + 7       | .3                   | -.4       | Charleston . . .        | 40             | + 6       | .8                   | 0         |
| South Bend . . .         | 32             | + 8       | .5                   | -.1       | Hatteras . . .           | 52             | + 6       | .5                   | -.5       | Huntington . . .        | 39             | + 5       | .6                   | -.1       |
| IOWA. Burlington . . .   | 29             | + 6       | .4                   | 0         | Raleigh . . .            | 45             | + 5       | .7                   | 0         | Parkersburg . . .       | 37             | + 4       | .8                   | + .1      |
| Des Moines . . .         | 27             | + 7       | .3                   | 0         | Wilmington . . .         | 50             | + 4       | .5                   | -.2       | WIS. Green Bay . . .    | 22             | + 5       | 1                    | -.1       |
| Dubuque . . .            | 19             | + 1       | .4                   | 0         | N.DAK. Bismarck . . .    | 16             | + 6       | T                    | -.1       | La Crosse . . .         | 21             | + 4       | .3                   | + .1      |
| Sioux City . . .         | 23             | + 4       | .3                   | + .2      | Fargo . . .              | 20             | +13       | .2                   | + .1      | Madison . . .           | 22             | + 4       | .2                   | -.1       |
| KANS. Concordia . . .    | 28             | + 2       | .3                   | + .2      | Williston . . .          | 19             | + 9       | T                    | -.1       | Milwaukee . . .         | 25             | + 5       | .1                   | -.3       |
| Dodge City . . .         | 28             | - 3       | .4                   | + .3      | OHIO. Akron-Canton . . . | 33             | + 6       | .7                   | + .1      | WYO. Casper . . .       | 19             | - 4       | T                    | -.1       |
| Goodland . . .           | 24             | - 4       | .1                   | 0         | Cincinnati . . .         | 34             | + 3       | .7                   | 0         | Cheyenne . . .          | 22             | - 5       | T                    | -.1       |
| Topeka . . .             | 28             | - 0       | .6                   | + .3      | Cleveland . . .          | 32             | + 5       | .5                   | -.1       | Lander . . .            | 16             | - 4       | .2                   | + .1      |
| Wichita . . .            | 29             | - 2       | .8                   | + .6      | Columbus . . .           | 33             | + 5       | .7                   | + .1      | Sheridan . . .          | 23             | + 1       | T                    | -.1       |
| KY. Lexington . . .      | 38             | + 5       | .9                   | 0         | Dayton . . .             | 34             | + 6       | .7                   | + .1      | P.R. San Juan . . .     | 77             | + 1       | .9                   | 0         |
| Louisville . . .         | 40             | + 7       | .6                   | -.2       | Toledo . . .             | 27             | + 2       | .4                   | -.1       |                         |                |           |                      |           |

Based on 1941-70 Normals

## STATE SUMMARIES OF WEATHER AND AGRICULTURE

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:** Cloudy and damp with above normal temperatures early in week. High temperatures on 31st rose to the warm 70's Statewide. Most rainfall occurred 3d with many sections receiving just over 0.50 in. Sunny and cool weekend followed with temperatures at or below freezing morning of 5th.

Soil moisture adequate to surplus north to mostly surplus south. Farm activities limited to care and feeding of livestock and soil testing.

**ARIZONA:** Temperatures 5 to 14° below normal. Rain, snow 1st and 2d. Moisture from traces to 0.50 in. Snow white in mountains.

Cotton, sorghum harvest almost complete. Sugarbeet growth well advanced, Yuma County. Small grain seedbed preparation, planting continues. Early fields progressing well. Hay damaged sub-freezing temperatures, Yuma County. Harvest lettuce, cabbage, broccoli Yuma County. Mixed vegetable activity Salt River Valley. Citrus picking Yuma, Maricopa Counties. Freeze protection required. Sheep, cattle good condition. Water sufficient, forage adequate with supplemental feeding.

**ARKANSAS:** Temperatures mild beginning, cooling mid-week. Mean temperature 0 to 5° above normal, range 38 to 50° Precipitation first 5 days totaled 1.00 in. plus. Highest total 2.17 in., least 0.45 in.

Wet fields, little harvest progress past 2 weeks. Cotton 95% complete, soybeans 97% complete. Mild temperatures encouraged small grain growth, some yellowing from wet soils. Wet pastures provided little grazing. Cattle thin for this time of year.

**CALIFORNIA:** Major storm system swept through beginning of week. Rainfall heaviest south, but distribution throughout varied. Extremely cold air dropped overnight minimums into 20's and upper teens south and below zero north. Strong, gusty wind followed, especially south. Spotty light precipitation occurred week's end.

Small grains doing well, some still planting. Sugarbeet planting continues. Only limited cotton harvest, shredding, discing in progress. New alfalfa looks good. Seasonal work orchards vineyards continue. Good progress digging fruit and nut trees. Date harvest continues. December 23d through 26th, temperatures dropped to 22° some areas southern San Joaquin Valley. Duration temperatures varied greatly some areas, 3 consecutive nights with at least 4 hours damaging cold. Most instances at or below 23° less than 1 hour. Fruit damage varies. Slight damage citrus Palo Verde Valley. San Diego avocados, some damage from cold, heavy winds on 31st. Harvest tangerines, lemons, Navel oranges and grapefruit at seasonal levels. Artichoke seasonally light some frost damage. Asparagus light Imperial, Coachella. Broccoli, cauliflower light. Carrot continue Desert, San Joaquin, celery shipment heavier south. Lettuce continues Imperial, icing heads delayed harvest until midday. Potato digging continues Bakersfield, Hemet.

Rains coastal areas improved pasture. North coast reports snow, cold created lambing, calving problems. Ranges, pastures valley areas fair, most areas need additional moisture, but cold weather retarded growth. Livestock good condition, maintained on supplemental feed. Lambing, calving con-

tinue low mortality result open weather. Predators continue plague sheep producers. Turkey poultts showing in brooder houses central valley. Milk production off slightly result cool weather.

**COLORADO:** Latter part December winter storms moved through south, up to 6 in. snow, up to 0.50 in. moisture southeast.

Temperatures last two weeks below normal, especially west and south, due to snow cover. Maximum temperatures were 20's and 30's south and west, 30's to low 50's northeast. Minimum temperatures zero to 20°. Very cold readings of 5 to 30° below zero mountain valleys.

Light snow southeast and east provided moisture for winter wheat. Winter wheat growth slow due to dry soil, 9% being pastured. Condition winter wheat and barley fair to good. Soil moisture adequate west slope areas but short eastern plains. Livestock generally good condition under mild weather lower elevations. Supplemental feeding necessary most areas. Hay stocks slightly less than average.

**FLORIDA:** Temperatures averaged much above normal. Cooler weather toward the end of period. Moderate rainfall over the north, mostly light central and south.

Harvest fall field crops complete. Sugarcane harvest full swing, growth new cane good. Small grains making good growth, some grazed. Tobacco seedbed preparation continues. Land being prepared for spring crops. Temporary pastures good Statewide. All areas will need additional rain for continued good grazing. Many permanent pastures are suffering from over stocking. Cattle and calves mostly fair to good condition. Some herds receiving minimal supplemental feeding because of high feed costs. Citrus tree condition excellent, only light rain showers. More moisture needed, few growers irrigating. Offbloom oranges had color break harvest active. Vegetable loadings returned to volume following holiday lull. Tomatoes, corn, peppers up sharply, good increases registered for cabbage, celery, escarole, eggplant. Beans, cucumbers, lettuces, radishes, squash, steady to slightly increasing. Potatoes just getting started, supplies very light.

**GEORGIA:** Unseasonably warm early in week, then cooler. Temperatures 8 to 12° above normal. Rainfall averaged less than 0.10 in. south, 0.10 to 0.25 in. central and 0.50 to 1.50 in. north. Cooler over 4th and 5th with rain most of State.

Soil moisture adequate to excessive. Harvest of corn, cotton and soybeans virtually completed. Pecan harvest nearing completion. Land preparation slowed due to wet conditions. Tobacco bed preparation continues. Condition of small grains good and affording good grazing some southern areas. Pasture condition mostly poor. Cattle fair condition.

**HAWAII:** Cool and windy. Rainfall light, mainly windward areas.

Crop exposed to strong winds. Vegetables adequate supply. Bananas supply moderate, papaya production light. Cattle and pasture good condition. Pineapple operation slow.

**IDAHO:** Precipitation below normal north, south central and southeast highlands, above normal Upper Snake River Valley and southwest. Cooling trend middle part of week with temperatures averaging below normal for the period. Highs 30's to mid-40's north and mid-20's to upper 30's elsewhere. Lows 0 to teens north and near to well below 0 remainder.

Extreme low temperatures increased feed requirements livestock. Major activities caring for livestock and machinery repair. Calving and lambing on a limited basis. Livestock good condition. Feed supplies adequate.

**ILLINOIS:** Temperatures 1 to 6° above normal, central portion warmest. Precipitation varied 0.33 in. most areas to over 1.00 in. southwest. Snowcover 1 to 3 in. northern third, widespread snow 2d.

Main activities livestock care, other routine farm chores and completion of corn harvest few areas.

**INDIANA:** Warm week, temperatures averaged 5° above normal and ranged from 16° at Lafayette to 63° in the south central. Precipitation 0.30 to 0.80 in., humidity above normal. Sunshine 45% of possible.

Fieldwork averaged 1 day. Topsoil and subsoil moisture adequate to surplus. Corn 92% harvested, 6 weeks behind 1973. Soybeans 95% combined, 8 weeks behind 1973. Spring crop land 35% plowed.

**IOWA:** Temperatures averaged over 5° above normal. Precipitation generally below normal for week ending December 30th, near normal to much above for week ending January 6th, coming as snow on 2d. Snow fall generally 4 to 6 in. across central, 3 in. across northwest, and 1 to 2 in. across southeast.

**KANSAS:** Week characterized by average temperatures. Precipitation significant over most of State, general snowfall of 3 to 6 in. through portions of the eastern half. Light amounts west.

Wheat received some moisture from snow. Some late seeded wheat short. Dry in west central and north central districts. Livestock on supplemental feed due to snow.

**KENTUCKY:** Unsettled weather during week. Rainfall 30th through 3d averaged 0.50 to 1.00 in. Temperatures averaged about 40° ranging from 5 to 10° above normal.

Field activities limited by rain and wet fields. Livestock in good condition.

**LOUISIANA:** Very warm first of week, cooler last half. Temperatures near normal north, 4 to 7° above normal south and central. Precipitation light to moderate on 2nd and 3d. Weekly totals less than 1.00 in. Temperature extremes: 81° Baton Rouge and Lafayette on 31st and 27° Monroe on 5th. Greatest 1-day rain 0.81 in. Winnfield on 3rd.

Agricultural activity consisted mainly of routine chores and care of livestock.

**MARYLAND AND DELAWARE:** Temperatures 1 to 7° above normal. Highs ranged low 50's to low 60's, lows upper teens to 30°. Precipitation over two States ranged 0.11 to 1.67 in. Heaviest western Maryland.

Farm work mainly livestock care and continuing building and equipment maintenance. Tobacco stripping active. Livestock good with generally adequate roughage supplies.

**MICHIGAN:** Temperatures averaged 2 to 8° above normal in southern lower peninsula and 5 to 11° above normal in northern lower and upper peninsulas. Precipitation totaled up to 0.50 in. over lower and extreme western upper peninsulas, falling as snow. Elsewhere precipitation totaled less than 0.20 in.

**MINNESOTA:** Temperatures 3 to 7° above normal southeast to 14° above normal north and northwest. Extremes: 45° at Marshall on 29th to minus 7° at Hibbing on 30th. Snow 3 to 6 in., mainly on 3d. The 6 in. band extended from west central to south central and southeast, 3 to 5 ins. elsewhere except over the northwest and northeast extremes. Snow cover at weeks end 10 to 17 ins. over northeast quarter with 5 to 9 ins. elsewhere except 1 to 4 ins. Red River Valley and Canby, Marshall, Tyler and areas of southwest.

Farm activities mostly routine care of livestock and poultry.

**MISSISSIPPI:** Rain scattered throughout week. Temperatures above normal. Extremes: 81 and 29°. Greatest 24 hour rainfall was 2.15 in. at Greenwood on 30th.

Soil moisture surplus to excessive. Fieldwork: 0.3 days suitable. Cotton 92% harvested, normal 98%. Soybeans 95% harvested, normal 95%. Wheat, oats, and livestock in mostly fair condition. Pastures in poor to fair condition. Supply of hay and roughage mostly adequate. Supply of feed grains mostly short.

**MISSOURI:** This was a rather warm week for late December and early January with temperatures averaging 5 to 8° above normal over the north and 1 to 5° above normal over the central and south. Precipitation was general throughout with many areas receiving over 1.00 in. Snowfall depth on 2d ranged from a trace central to 2 to 5 in. across northern sections.

**MONTANA:** Temperatures averaged normal southwest to 11° above normal northeast. Highest maximum upper 30's to lower 40's. Minimum a little below 0 southwest first of week. Precipitation below normal, with scattered light amounts. Winds in excess of 50 mph along east slopes of Rockies.

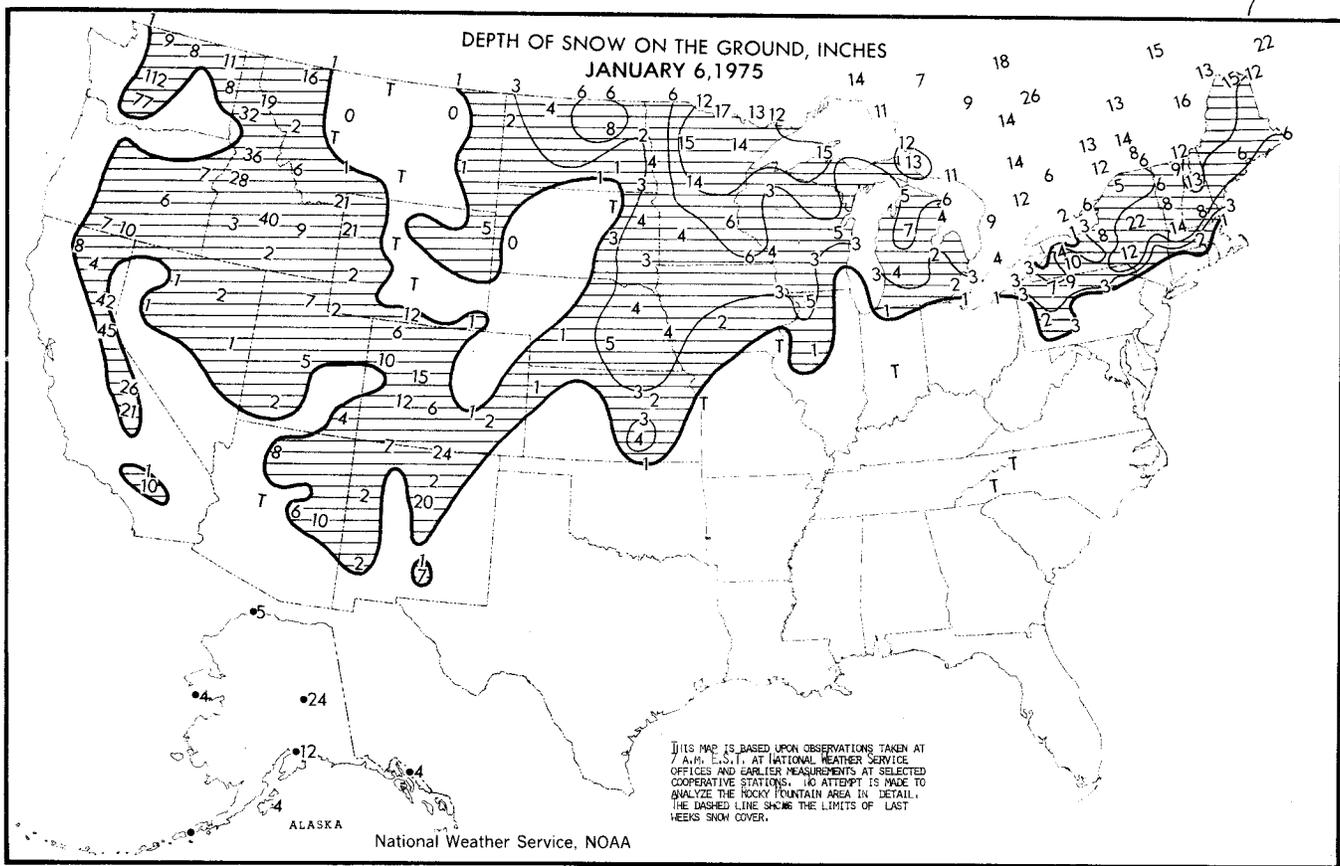
Winter wheat condition fair to good. Wind damage light some areas. Snowcover protection inadequate most winter wheat areas. Livestock condition generally good. About 75% cattle and 80% sheep receiving supplemental feed. Grazing difficult, portions northwest and north central and high mountain valleys. Livestock feed supplies generally adequate for balance of winter.

**NEBRASKA:** Temperatures near normal cooling midweek. Snowfall general 2d, 3d.

Winter wheat condition fair to good. Some snow cover. Range and pasture supplies below average, supplemental feeding common. Fifty five percent of corn and milo fields, 20% of wheat and rye acreage pastured. Feed and forage supplies mostly average. Culling of cattle continuing.

**NEVADA:** Storm early in week brought cold arctic air and light snow. Warming trend rest of period. Temperatures extremes: 19° Winnemucca, 50° Las Vegas.

Feeding livestock main activity. Feed supplies adequate.



**NEW ENGLAND:** Relatively mild over New England until January 1st and seasonally cold thereafter. January 1 snow accumulated to 4 in. across northern portions of Connecticut and Rhode Island, into interior Massachusetts and adjacent northern New England, while south coastal areas received rain.

**NEW JERSEY:** Temperatures averaged 2° above normal along coast and 1° above normal interior. Weekly averages: 31° north, 34° south and 36° coastal. Extremes: 14° at Newton and 57° Cape May Court House and Pamona. Precipitation averaged 0.35 in. north, 0.63 in. south and 0.42 in. coastal. Snow amounts over interior sections on 31st ranged from trace to 2 in. at Newton. Trace of sleet or snow in central and north counties on 3d.

**NEW MEXICO:** Extremely cold northwest throughout December 30th to January 5th with temperatures averaging 10 to 15° below early January normals. Snow from late December remained on ground most of northwest with little melting. Additional snow most sections on 1st and 2d. All areas had some measure of precipitation for week with totals near 0.50 in. southern part of central highlands and in San Juan Basin. Widespread warming over the weekend.

Moisture mostly adequate. Winter wheat, barley fair with irrigated grazing about 75%, dry 60%. Cotton harvest nearing completion, halted by rain and snow. Livestock mostly fair with supplemental feeding heavy. Ranges poor to fair, grass short.

**NEW YORK:** Temperatures continued above normal. Precipitation was moderate. Weekly high of 53°

at New York City. Light precipitation fell through the week. Midweek low pressure system resulted in 4 in. or more snow central southeast of Lake Ontario. Coldest temperatures in northern sections. Weekly low of minus 2° at Massena.

**NORTH CAROLINA:** Temperatures much above normal during most of week, but dropped to slightly below normal by end of period. Heavy rains early in week and frequent periods of light rain or drizzle throughout rest of week.

Farm activities restricted by wet weather. Soil moisture generally surplus. Condition of small grains fair to mostly good. Pastures in generally fair condition. General farm activities: Clean-up, machinery repair, fencing, feeding livestock, and tobacco plant bed preparation.

**NORTH DAKOTA:** Temperatures above normal throughout, ranging from 13° above normal west central, east central and southeast to 7° southwest. Extremes: 42° Watford City to -10° at Upham. Precipitation below normal except southeast where it was 0.08 in. above normal. Greatest weekly and 24 hour precipitation at Wahpeton with 0.37 in. January 3d. Weekend temperatures above normal.

Pasture and range snow cover varies from none to light southwest, more northeast. Grazing general where forage available and accessible. Supplemental feeding also common. Hay being fed where pasture feed not adequate. Late fall and mild winter to date conserving hay and other feed. Hay supplies mostly adequate. Livestock fair to good condition. Many 1974 calves being wintered.

**OHIO:** Cloudy skies and light precipitation occurred each day of week until 5th when mostly clear skies prevailed. Temperatures above normal and precipitation below normal.

Fields remain soft and wet as mild weather continues. Wheat reported in good condition in most areas. Livestock in good condition due to mild temperatures.

**OKLAHOMA:** Temperatures ranged from 7° below normal Panhandle to 6° above normal southeast. Precipitation averaged from about 0.30 in., Panhandle to about 1.50 in. east central. Weekend mild and no precipitation.

Some snow and rain each of past two weeks prevented wind-up harvesting of row crops. Cold weather put most wheat in dormant stage, wet soils caused some removal grazing livestock. Small grains mostly good condition. Snow Panhandle provided much needed moisture. Sorghum harvest nearing wind-up stage. Cotton only 66% harvested, quality dropping. Soybeans about 85% harvested, wet soils cause delays. Principle activity care for livestock. Pastures and ranges deteriorated rapidly. Cattle condition down, supplemental feeding light because of cost.

**OREGON:** Rainfall along coast ranged from 0.82 to 2.33 in., Willamette Valley 0.50 in., southwest interior valleys 0.73 to 1.40 in., and eastern 0.20 to 1.00 in. Temperatures near normal, maximum upper 50's, minimums below zero.

General winter farm activities continuing. Spraying grain and clovers for ryegrass. Pruning and training berries and orchards. Some movement of potatoes and onions. Feeding livestock, preparing sheep for lambing, feed supplies adequate.

**PENNSYLVANIA:** Moderately cold, cloudy and wet. Temperatures fairly uniform with maxima mostly 30's to mid 40's and minima 20's or 1 to 4° above normal. Extremes: 57 and -1°. Series of fast moving storms produced mixture of rain, snow, sleet and freezing rain beginning and mid-period with additional snow flurries weekend north. Melted precipitation 0.50 to 1.00 in., most places with 1 to 6 in. snowfall west and north, and up to 1 in. elsewhere.

Farmers doing routine winter chores.

**PUERTO RICO:** Average rainfall 0.95 in. or 0.15 in. above normal. Highest weekly total 3.08 in. at Pico Del Este Luquillo. Highest 24 hour total 1.14 in. at Pico Del Este Luquillo. Temperatures averaged about 75° on coasts and 67° interior. Extremes: 88 and 53°.

**SOUTH CAROLINA:** Temperatures averaged 4 to 8° above normal first of week with below normal readings end of period. Rainy early, late in week.

Most farm activity at standstill due rainy weather. A few fields of soybeans, cotton, sorghum remain for harvest. Peach tree, grapevine pruning active when weather permits. Some harvest cabbage, mixed greens.

**SOUTH DAKOTA:** Temperatures averaged 4 to 12° above normal. Except for the Black Hills, extremes were -6° December 30th, 40's most stations most days. Snow 2 to 4 in. fell January 2d in east.

Continued lack of snow cover on winter wheat has not hurt the crop yet as sub-zero weather has been at a minimum. Livestock are in good condition and are wintering well. Supplemental feeding has

been minimized by mild weather. Soil moisture very short.

**TENNESSEE:** Last week in December was warm and wet with rainfall amounts from 2.00 to 4.00 in. First week in January below average rainfall and warm. Temperature 5 to 10° above normal both weeks.

Small grains look good but too wet to graze. All burley stripped. Cattle and pastures in good condition.

**TEXAS:** Light snow High Plains far west. Temperatures near 80° portions south early week. Mostly cool and damp mid-week. Precipitation near normal Panhandle across north and east. Snowfall ranged 1 in. far west south plains 4 in. northern Panhandle. By weekend dryer air return temperatures mild levels.

Ice and snow delayed cotton harvest High, Low Plains, Edwards Plateau, Trans-Pecos areas. Cold weather slowed growth wheat, oats, but grazing generally above average southern half. Wet, muddy fields limit grazing Blacklands, east. Major crops percent harvested: Cotton 1975, 94, 1974, 96, 3 year average 82.

Lower Rio Grande Valley: Wet weather slowed vegetable harvest. Major harvest activity cabbage, carrots, lettuce, some greens, parsley, peppers, tomatoes, turnips. Beets, broccoli available. Onion fields show good development. Winter Garden: Light supplies cabbage, carrots available due wet weather. Coastal Bend: Spinach harvest halted by wet weather, yield, grade have been good. Spring vegetable land prepared for planting as weather permits. Central: Vegetable growers preparing land, applying fertilizer where fields sufficiently dry. Upper Coast: Wet weather curtailing vegetable harvest, slowed growth. Pecan harvest virtually complete throughout. Citrus harvest continues heavy. Harvest further advanced than usual due this year's short crop.

Cold weather delayed growth wheat, oats, grazing limited High, Low Plains from ice, snow cover. Wet, muddy fields restricted grazing Blacklands, east. Livestock snow effects several weeks adverse weather. Grazing adequate south, Edwards Plateau, Trans-Pecos areas. Heavy feeding underway east to High Plains. Lighter feeding south, south central. First screwworm case confirmed south.

**UTAH:** Recurring periods of isolated snow showers forepart of week becoming more general over weekend. Accumulated amounts of moisture light to moderate. Average temperatures much below normal for second week in a row. Locally strong damaging winds over weekend principally along Wasatch Front.

Frigid temperatures made care of livestock and other chores more difficult. Sorting, grading, marketing of potatoes, apples, dry onions and processing sugarbeets also continue to be major farm activities.

**VIRGINIA:** Temperatures above normal, extremes 73 and 15°. Precipitation averaged 0.50 in. Greatest amounts southwest, east.

Fieldwork: 2.4 days suitable. Topsoil moisture 64% adequate, 33% surplus, 3% short. Feed, care for livestock chief activity. Calving, lambing normal for season. Feed supplies adequate now, weather will affect future needs. Fertilizer, lime applied few fields. Pruning fruit trees, fence and machinery repairs, and farm record maintenance continues. Tobacco not sold, prepared for marketing. Flue-cured seed beds gassed.

WASHINGTON: West: Mean temperatures up to 5° below normal. Precipitation ranged from 0.50 in. above normal to 1.00 in. below normal.

Early forcing of rhubarb crowns underway. Few acres of carrots remained to be dug in Skagit County. Crops and pastures in good condition. East: Temperatures up to 3° above normal in Columbia Basin. Elsewhere readings averaged up to 8° below normal. Precipitation 0.20 to 0.40 in. below normal.

Most grain areas finally had accumulated a protective snow cover. Moisture reserves are much improved. Few fields showing very little top growth. Pruning grapes and fruit trees continued. Hop trellis repair work proceeding. Some fertilization and soil preparation undertaken in lower Columbia Basin. Livestock in good condition on crop aftermath and supplemental feed.

WEST VIRGINIA: Temperatures above normal 6 to 10°. Precipitation above normal, 0.40 in. north-east, 1.00 in. central and northcentral and 0.75 in. elsewhere.

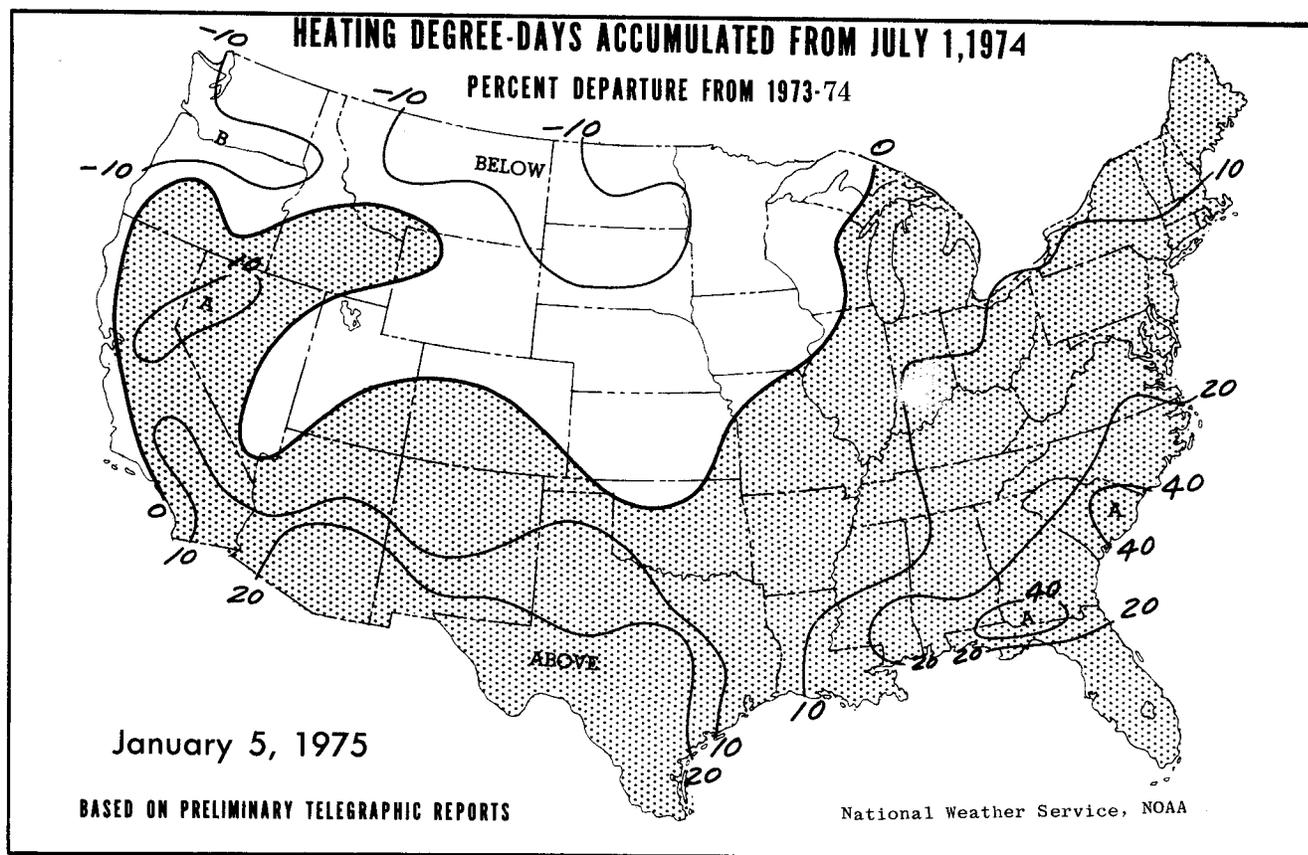
Soil moisture surplus in northern panhandle, adequate elsewhere. Main activities: Feeding livestock and maintenance. Winter feeding areas

becoming muddy making it difficult to move feed and equipment.

WISCONSIN: Mild winter weather continued. High temperatures in mid-20's and 30's, lows 5 to 15° north, teens and low 20's south. Light snow south on 31st with 1 in. Madison and Milwaukee. General snowstorm developed late 2d and into 3rd. Heaviest amounts 3 to 6 in. in band southwest to northeast, 1 to 3 in. elsewhere. Weekend partly sunny and dry. Little change in frost and snow depths in past two weeks. Frost depths averaged 4 in. as of January 3rd. Snow depths averaged 5 in.

WYOMING: Temperatures averaged 2 to 7° below normal. Warm readings east on 4th, dropped rapidly on 5th to bring temperatures below normal. Greatest departure in mountainous areas. Green and Bear, Snake River, and Wind River Drainages reported temperatures averaging near 5° below normal. Precipitation below normal. East dry with few amounts up to 0.10 in. and amounts west of over 0.10 in.

Continued open weather holding supplemental feeding to minimum. Strong winds caused further drying of ranges, winter wheat fields. Moisture needed to insure adequate spring growth. Livestock condition good. Care of livestock major activity.



### THE HEATING DEGREE - DAY STATISTIC

The heating degree-day statistic is a simple but excellent indicator of the demand for heating fuel in area based on average temperature. Heating engineers developed this useful integrator early in the century. The procedure neglects such factors as solar radiation and wind, but it still a useful tool for planners and heating fuel companies.

The fuel industry has adopted this procedure for monitoring fuel consumption and anticipating fuel needs. Supply levels can be monitored by simply keeping up-to-date on the heating degree-day accumulations. Forecasts can be converted into heating degree-day statistics and used to determine future fuel demands. The high cost of storing oil and gas puts a premium on precise evaluation of fuel use rates and peak demands, and on the efficient scheduling of deliveries. This is of particular importance when the total supply picture is tight.

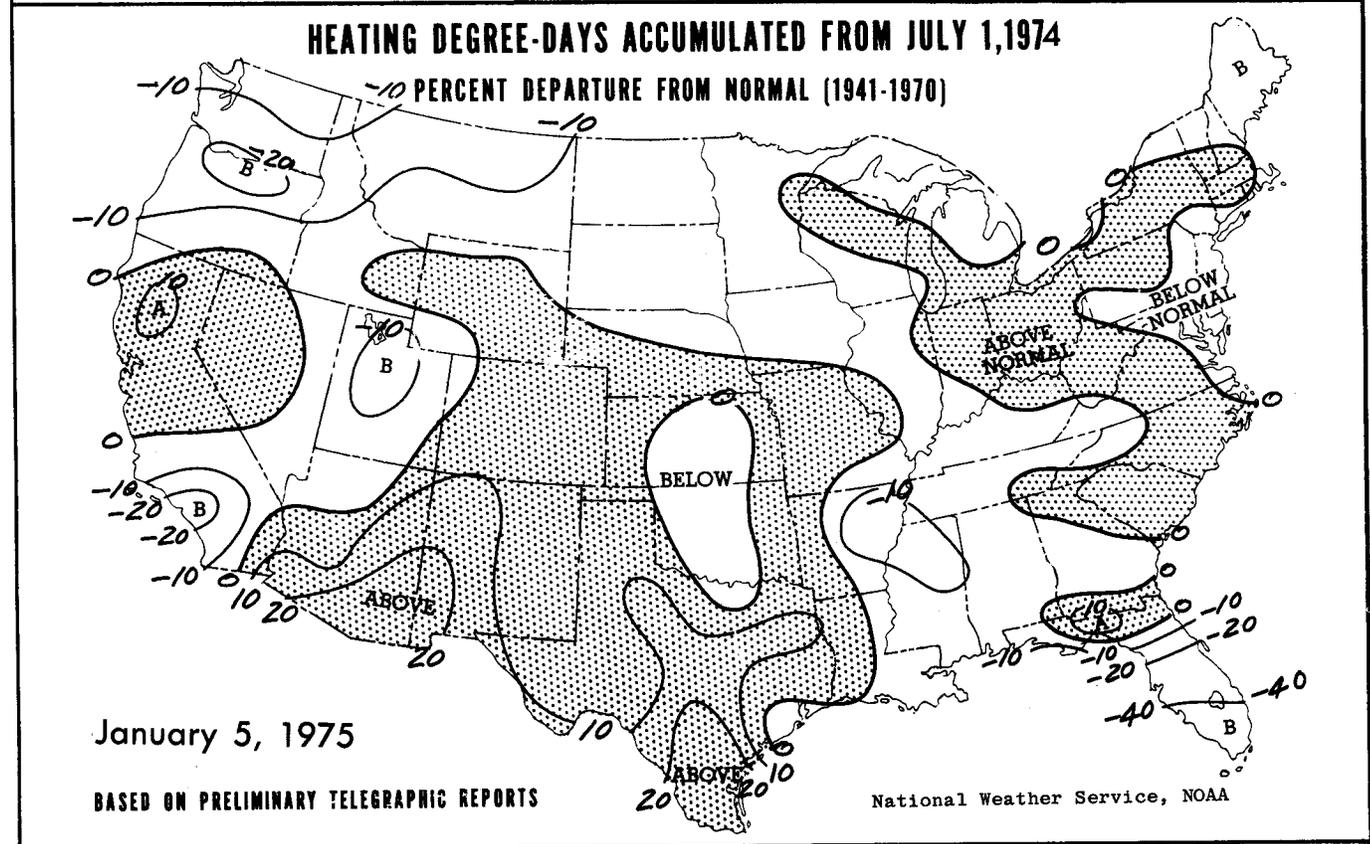
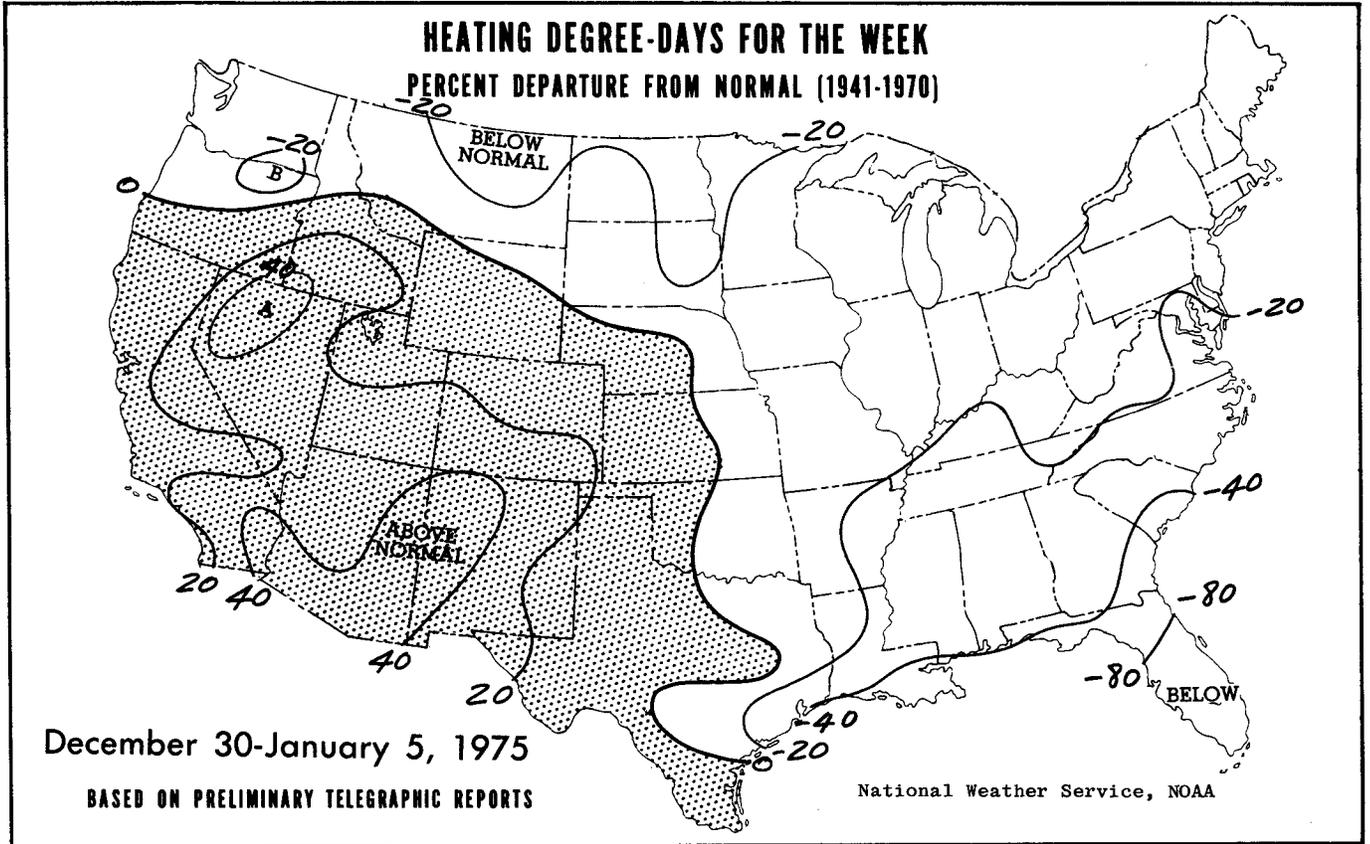
The degree-day statistic is based on the fact that when the daily mean an temperature is 65° or higher, most buildings require no heat to maintain an inside temperature of at least 70°. It is computed as follows:

$$65^{\circ} - \frac{\text{Max Temp} + \text{Min Temp}}{2.0} = \text{Daily Heating Degree-Days}$$

Thus, each degree of mean temperature below 65° is one degree-day unit. If the mean temperature is 45°, 20 heating degree-day would be accumulated. If the daily mean temperature were 25°, 40 degree-day units were accumulated. Twice as much fuel would be required on a day with 40 heating degree-days than a day with 20 heating degree-days. If the mean temperature is greater than 65°, the heating degree-day value is set equal to zero (0) for the day. The degree-days for any given period are obtained by totaling the degree-days for each day of the period.

As the maps are presented, a positive departure indicates that the heating degree-day accumulation is greater than the comparative value, so temperatures have been colder than anticipated and thus fuel consumption is greater than expected. Similarly, a negative departure indicates that conditions have been warmer than anticipated. Note the similarity in the weekly percent of normal departure and the temperature departure map on page 2.

So far this year temperatures have averaged near or slightly below normal over most of the county east of the Rockies. Compared to last year, which were well above normal during the fall and early winters, temperatures have been very much colder east of the Rockies. The Far Western States have generally warmer than both last year and normal.



Heating Degree Days (Base 65°) For Week Ending January 5, 1975

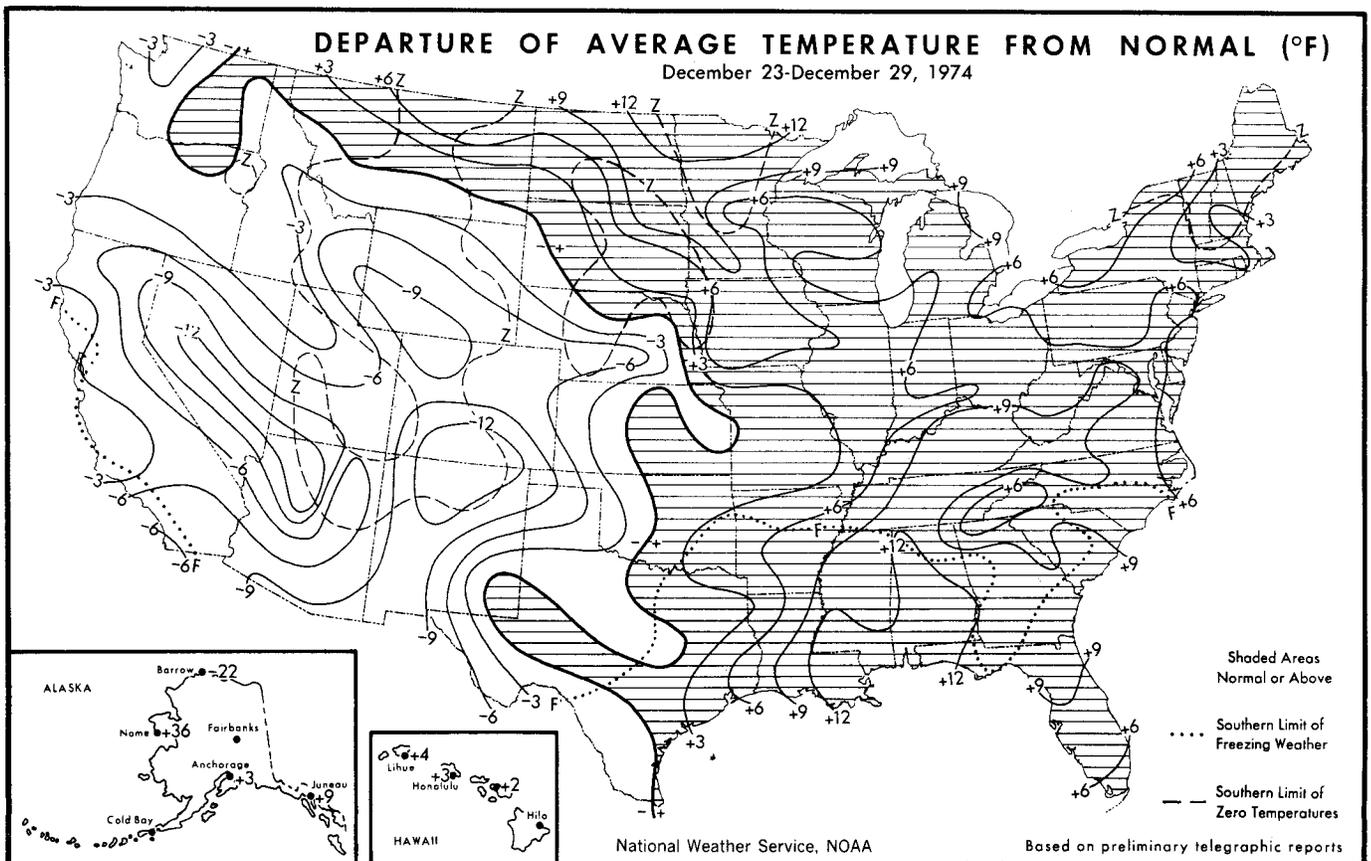
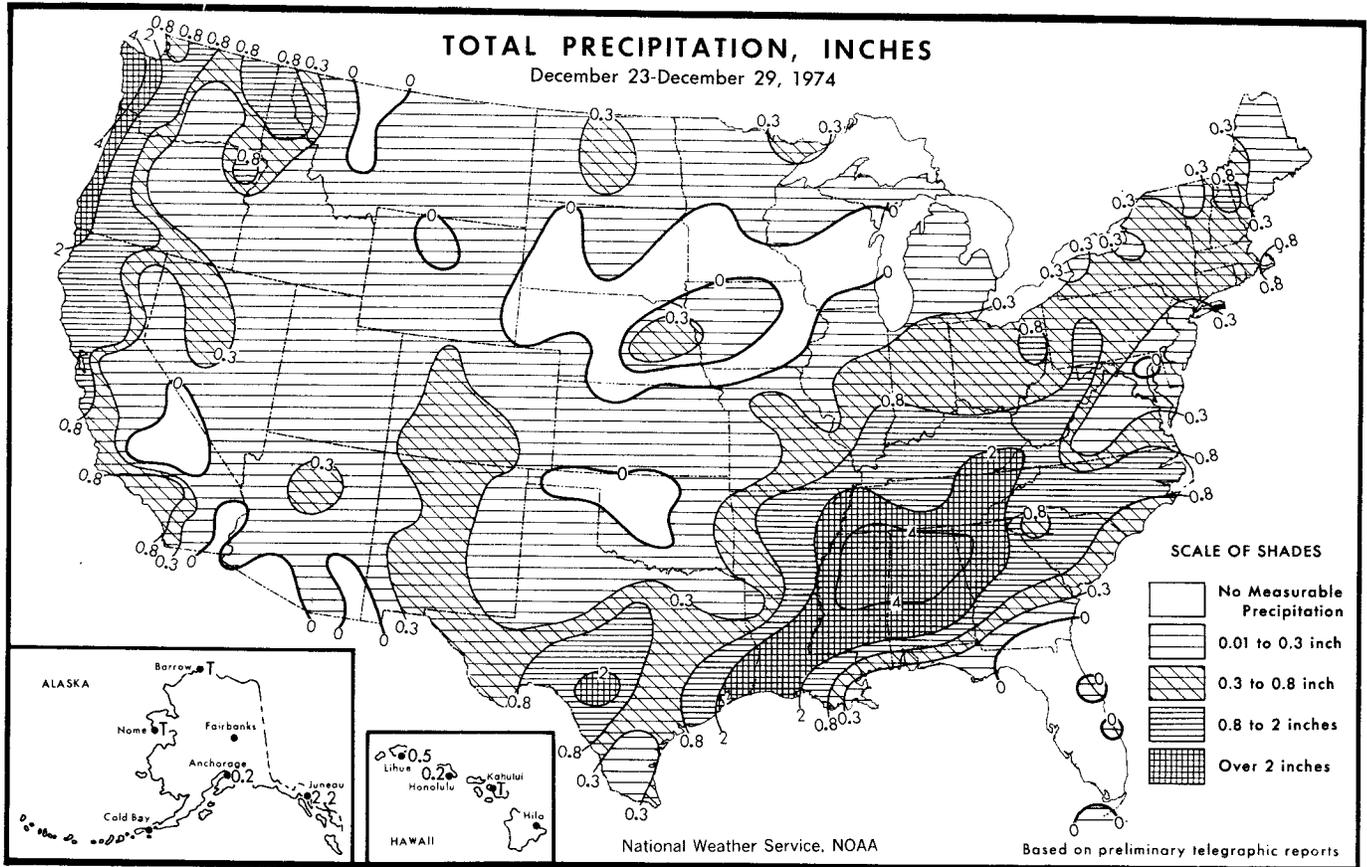
| States and Stations     | Weekly |            | Seasonal + Accumulation |            |                        | States and Stations     | Weekly |            | Seasonal + Accumulation |            |                        | States and Stations      | Weekly |            | Seasonal + Accumulation |            |                        |
|-------------------------|--------|------------|-------------------------|------------|------------------------|-------------------------|--------|------------|-------------------------|------------|------------------------|--------------------------|--------|------------|-------------------------|------------|------------------------|
|                         | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |                         | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |                          | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |
| ALA. Birmingham . . .   | 104    | -44        | 1203                    | - 51       | 109                    | Portland . . . . .      | 254    | -47        | 2879                    | -121       | 163                    | Tulsa . . . . .          | 186    | -12        | 1550                    | 6          | 34                     |
| Mobile . . . . .        | 94     | - 4        | 703                     | - 2        | 168                    | MD. Baltimore . . .     | 178    | -46        | 1753                    | -172       | - 32                   | OREG. Astoria . . .      | 155    | -13        | 2002                    | -254       | -429                   |
| Montgomery . . . .      | 81     | -45        | 968                     | - 33       | 145                    | MASS. Boston . . .      | 203    | -42        | 2138                    | - 8        | 235                    | Burns . . . . .          | 304    | 24         | 2935                    | -164       | -119                   |
| ARIZ. Flagstaff . . .   | 339    | 80         | 3025                    | - 43       | 236                    | MICH. Alpena . . .      | 268    | -51        | 3274                    | -147       | 64                     | Medford . . . . .        | 217    | 14         | 1927                    | -190       | 145                    |
| Phoenix . . . . .       | 134    | 36         | 699                     | 42         | 169                    | Detroit . . . . .       | 260    | -20        | 2725                    | 146        | 257                    | Pendleton . . . . .      | 172    | -57        | 1828                    | -453       | -321                   |
| Tucson . . . . .        | 163    | 65         | 940                     | 238        | 220                    | Flint . . . . .         | 264    | -29        | 2707                    | - 50       | 170                    | Portland . . . . .       | 158    | -29        | 1620                    | -429       | -248                   |
| Winslow . . . . .       | 331    | 97         | 2312                    | 252        | 209                    | Grand Rapids . . .      | 280    | - 7        | 3007                    | 289        | 353                    | Salem . . . . .          | 172    | -10        | 1820                    | -233       | -277                   |
| Yuma . . . . .          | 115    | 43         | 499                     | 63         | 61                     | Houghton Lake . . .     | 294    | -31        | 3315                    | - 90       | 131                    | Allentown . . . . .      | 221    | -38        | 2311                    | - 53       | 248                    |
| ARK. Fort Smith . . .   | 174    | - 8        | 1528                    | 96         | 137                    | Lansing . . . . .       | 266    | -23        | 2884                    | 111        | 165                    | Erie . . . . .           | 237    | -36        | 2685                    | 7          | 300                    |
| Little Rock . . . . .   | 138    | -44        | 1290                    | -154       | 88                     | Marquette . . . . .     | 262    | -56        | 3166                    | -149       | - 21                   | Harrisburg . . . . .     | 210    | -35        | 2171                    | 12         | 298                    |
| CALIF. Bakersfield . .  | 155    | 22         | 937                     | - 19       | 95                     | Muskegon . . . . .      | 244    | -36        | 2732                    | 16         | 87                     | Philadelphia . . . .     | 191    | -33        | 1787                    | -148       | 87                     |
| Eureka . . . . .        | 137    | 11         | 2072                    | - 24       | 84                     | S. Ste. Marie . . .     | 289    | -57        | 3714                    | 13         | 84                     | Pittsburgh . . . . .     | 220    | -39        | 2299                    | -167       | 149                    |
| Fresno . . . . .        | 181    | 34         | 1165                    | 30         | 54                     | MINN. Duluth . . . .    | 340    | -48        | 4118                    | 73         | - 14                   | Scranton . . . . .       | 229    | -44        | 2428                    | -144       | - 44                   |
| Los Angeles . . . . .   | 88     | 18         | 463                     | -156       | - 6                    | Internat Falls . . .    | 333    | -100       | 4137                    | -331       | -130                   | R.I. Providence . . .    | 212    | -40        | 2315                    | - 8        | 226                    |
| Red Bluff . . . . .     | 154    | 8          | 1240                    | 137        | 24                     | Minneapolis . . . .     | 314    | -50        | 3224                    | -212       | - 76                   | S.C. Charleston . . .    | 68     | -51        | 939                     | 22         | 287                    |
| San Diego . . . . .     | 83     | 13         | 435                     | - 77       | 34                     | Rochester . . . . .     | 334    | -23        | 3342                    | - 41       | - 17                   | Columbia . . . . .       | 82     | -58        | 1123                    | - 19       | 336                    |
| San Francisco . . . .   | 137    | 18         | 1282                    | 52         | - 52                   | St. Cloud . . . . .     | 346    | -36        | 3650                    | - 21       | 24                     | Greenville . . . . .     | 122    | -39        | 1481                    | 107        | 152                    |
| Stockton . . . . .      | 182    | 35         | 1230                    | 73         | 152                    | MISS. Jackson . . .     | 87     | -39        | 946                     | - 40       | 91                     | S. DAK. Aberdeen . .     | 292    | -88        | 3226                    | -354       | -587                   |
| COLO. Denver . . . . .  | 257    | 13         | 2615                    | 140        | - 4                    | Meridian . . . . .      | 90     | -41        | 957                     | -110       | 159                    | Huron . . . . .          | 285    | -75        | 3124                    | -206       | -329                   |
| Grand Junction . . . .  | 338    | 66         | 2446                    | 10         | 73                     | MO. Columbia . . . .    | 228    | -22        | 2261                    | 161        | 133                    | Rapid City . . . . .     | 265    | -32        | 2843                    | -147       | -346                   |
| Pueblo . . . . .        | 315    | 71         | 2391                    | - 108      | 16                     | Kansas City . . . . .   | 240    | -18        | 2221                    | 103        | 40                     | Sioux Falls . . . . .    | 286    | -64        | 3112                    | -149       | -169                   |
| CONN. Bridgeport . . .  | 202    | -36        | 1979                    | - 31       | 262                    | St. Louis . . . . .     | 219    | -15        | 2111                    | 142        | 10                     | TENN. Chattanooga . .    | 135    | -40        | 1670                    | 133        | 306                    |
| Hartford . . . . .      | 235    | -45        | 2621                    | 67         | 382                    | Springfield . . . .     | 204    | -20        | 2007                    | 92         | 187                    | Knoxville . . . . .      | 141    | -34        | 1518                    | 5          | 141                    |
| DEL. Wilmington . . .   | 194    | -37        | 1925                    | - 44       | 255                    | MONT. Billings . . .    | 250    | -47        | 2882                    | -127       | -211                   | Memphis . . . . .        | 122    | -49        | 1235                    | -151       | 61                     |
| D.C. Washington . . .   | 155    | -55        | 1513                    | -207       | 164                    | Glasgow . . . . .       | 285    | -93        | 3238                    | -484       | -682                   | Nashville . . . . .      | 130    | -59        | 1508                    | - 78       | 153                    |
| FLA. Apalachicola . .   | 45     | -39        | 476                     | - 82       | 56                     | Great Falls . . . .     | 245    | -59        | 2797                    | -372       | -582                   | TEX. Abilene . . . . .   | 166    | 19         | 1238                    | 131        | 191                    |
| Daytona Beach . . . .   | 8      | -41        | 278                     | - 66       | 14                     | Havre . . . . .         | 266    | -98        | 3135                    | -620       | -650                   | Amarillo . . . . .       | 234    | 31         | 1891                    | 137        | 202                    |
| Ft. Myers . . . . .     | 0      | -28        | 85                      | - 91       | 74                     | Helena . . . . .        | 273    | -51        | 3318                    | -212       | -376                   | Austin . . . . .         | 103    | - 3        | 796                     | 77         | 161                    |
| Jacksonville . . . . .  | 43     | -36        | 583                     | 29         | 113                    | Kalispell . . . . .     | 288    | -30        | 3394                    | -399       | -211                   | Brownsville . . . . .    | 51     | 3          | 299                     | 77         | 66                     |
| Key West . . . . .      | 0      | - 7        | 4                       | - 11       | 20                     | Miles City . . . . .    | 271    | -67        | 2999                    | -305       | -339                   | Corpus Christi . . . .   | 69     | 3          | 445                     | 90         | 100                    |
| Lakeland . . . . .      | 6      | -36        | 195                     | - 63       | - 28                   | Missoula . . . . .      | 266    | -41        | 3128                    | -381       | -248                   | Del Rio . . . . .        | 107    | 2          | 744                     | 57         | 157                    |
| Miami . . . . .         | 0      | -14        | 34                      | - 45       | - 60                   | NEBR. Grand Island      | 310    | 13         | 2748                    | 83         | -183                   | El Paso . . . . .        | 199    | 45         | 1413                    | 170        | 254                    |
| Orlando . . . . .       | 5      | -37        | 209                     | - 54       | - 3                    | Norfolk . . . . .       | 297    | 0          | 2610                    | 36         | -230                   | Fort Worth . . . . .     | 135    | - 5        | 972                     | - 5        | 67                     |
| Tallahassee . . . . .   | 59     | -34        | 785                     | 107        | 228                    | North Platte . . . .    | 299    | -19        | 2785                    | -100       | -185                   | Galveston . . . . .      | 41     | -36        | 416                     | - 18       | 24                     |
| Tampa . . . . .         | 6      | -36        | 183                     | - 87       | - 47                   | Omaha . . . . .         | 311    | 20         | 3057                    | 205        | -123                   | Houston . . . . .        | 65     | -26        | 554                     | - 23       | - 26                   |
| W. Palm Beach . . . .   | 0      | -21        | 71                      | - 44       | - 35                   | Valentine . . . . .     | 283    | -27        | 2913                    | -122       | -201                   | Lubbock . . . . .        | 212    | 30         | 1620                    | 99         | 244                    |
| GA. Atlanta . . . . .   | 111    | -50        | 1293                    | - 42       | 180                    | NEV. Ely . . . . .      | 358    | 69         | 3278                    | - 1        | -109                   | Midland . . . . .        | 161    | 12         | 1141                    | 5          | 47                     |
| Augusta . . . . .       | 88     | -52        | 1232                    | 107        | 257                    | Las Vegas . . . . .     | 185    | 31         | 1124                    | - 31       | - 27                   | Beaumont . . . . .       | 67     | -24        | 666                     | 40         | 58                     |
| Macon . . . . .         | 83     | -43        | 960                     | - 34       | 190                    | Reno . . . . .          | 329    | 91         | 2700                    | 100        | 263                    | San Angelo . . . . .     | 146    | 13         | 1020                    | 36         | 158                    |
| Savannah . . . . .      | 60     | -52        | 752                     | - 99       | 103                    | Winnemucca . . . . .    | 376    | 116        | 2940                    | 85         | 330                    | San Antonio . . . . .    | 90     | -10        | 795                     | 139        | 167                    |
| IDAHO. Boise . . . . .  | 323    | 70         | 2358                    | -144       | 90                     | N. H. Concord . . . .   | 284    | -24        | 3220                    | 214        | 239                    | San Antonio . . . . .    | 67     | -15        | 493                     | 10         | 80                     |
| Lewiston . . . . .      | 217    | -18        | 2069                    | -321       | -254                   | N. J. Atlantic City . . | 204    | -20        | 1972                    | 18         | 215                    | Victoria . . . . .       | 90     | -10        | 795                     | 139        | 167                    |
| Pocatello . . . . .     | 376    | 84         | 3058                    | 61         | 34                     | Trenton . . . . .       | 192    | -36        | 1862                    | - 85       | 141                    | Waco . . . . .           | 145    | - 19       | 952                     | 99         | 184                    |
| ILL. Cairo . . . . .    | 174    | -26        | 1619                    | 3          | 60                     | N. MEX. Albuquerque     | 307    | 90         | 2122                    | 234        | 17                     | Wichita Falls . . . . .  | 165    | - 1        | 1227                    | 1          | 111                    |
| Chicago . . . . .       | 254    | -26        | 2467                    | 16         | 45                     | Roswell . . . . .       | 216    | 23         | 1750                    | 59         | 271                    | UTAH. Salt Lake C        | 289    | 28         | 2237                    | -315       | -199                   |
| Moline . . . . .        | 270    | -30        | 2602                    | - 11       | - 33                   | N. Y. Albany . . . . .  | 266    | -35        | 2985                    | 202        | 253                    | VT. Burlington . . . .   | 297    | -32        | 3097                    | - 54       | 121                    |
| Peoria . . . . .        | 242    | -44        | 2532                    | 22         | 23                     | Binghamton . . . . .    | 279    | -22        | 3058                    | 122        | 373                    | Norfolk . . . . .        | 172    | -31        | 1850                    | 55         | 206                    |
| Rockford . . . . .      | 296    | -14        | 2789                    | - 17       | 103                    | Buffalo . . . . .       | 237    | -46        | 2606                    | -102       | 37                     | Richmond . . . . .       | 131    | -44        | 1288                    | - 93       | 165                    |
| Springfield . . . . .   | 224    | -42        | 2279                    | - 12       | 52                     | New York . . . . .      | 189    | -37        | 1838                    | - 20       | 206                    | Roanoke . . . . .        | 151    | -45        | 1720                    | 70         | 258                    |
| IND. Evansville . . . . | 193    | -31        | 1958                    | 4          | 149                    | Rochester . . . . .     | 245    | -36        | 2712                    | 78         | 307                    | WASH. Quillayute . . .   | 177    | - 5        | 2363                    | -228       | -489                   |
| Fort Wayne . . . . .    | 235    | -38        | 2570                    | 38         | 156                    | Syracuse . . . . .      | 247    | -37        | 2761                    | 156        | 208                    | Seattle-Tacoma . . . .   | 178    | - 9        | 1979                    | -257       | -144                   |
| Indianapolis . . . . .  | 221    | -38        | 2373                    | 62         | 284                    | N. C. Asheville . . . . | 154    | -40        | 1789                    | - 44       | 228                    | Spokane . . . . .        | 284    | 7          | 2815                    | -182       | -190                   |
| South Bend . . . . .    | 232    | -53        | 2353                    | -253       | 88                     | Hatteras . . . . .      | 92     | -41        | 985                     | 1          | 260                    | Walla Walla . . . . .    | 168    | -53        | 1791                    | -324       | -272                   |
| IOWA. Burlington . . .  | 251    | -40        | 2517                    | - 5        | 6                      | Charlotte . . . . .     | 135    | -32        | 1531                    | 132        | 224                    | Yakima . . . . .         | 228    | -35        | 2365                    | -333       | -286                   |
| Des Moines . . . . .    | 262    | -51        | 2568                    | -170       | - 57                   | Greensboro . . . . .    | 139    | -50        | 1602                    | - 54       | 15                     | W. VA. Beckley . . . . . | 195    | -43        | 2398                    | 2          | 314                    |
| Dubuque . . . . .       | 321    | - 5        | 3004                    | 1          | 78                     | Raleigh . . . . .       | 136    | -39        | 1595                    | 84         | 352                    | Charleston . . . . .     | 190    | -27        | 2109                    | 160        | 348                    |
| Sioux City . . . . .    | 296    | -29        | 2778                    | -104       | - 43                   | Wilmingon . . . . .     | 101    | -32        | 1041                    | 35         | 260                    | Huntington . . . . .     | 176    | -41        | 1996                    | 46         | 288                    |
| KANS. Concordia . . . . | 258    | -12        | 2229                    | - 97       | -226                   | N. Dak. Bismarck . . .  | 341    | -46        | 3854                    | 93         | -374                   | Parkersburg . . . . .    | 193    | -31        | 2139                    | 138        | 296                    |
| Dodge City . . . . .    | 260    | 21         | 2074                    | - 31       | -149                   | Fargo . . . . .         | 317    | -87        | 3631                    | -201       | -422                   | WIS. Green Bay . . . .   | 299    | -40        | 3337                    | 43         | 192                    |
| Goodland . . . . .      | 289    | 28         | 2662                    | 103        | - 88                   | Williston . . . . .     | 317    | -70        | 3584                    | -268       | -574                   | LaCrosse . . . . .       | 310    | -27        | 2954                    | - 87       | - 26                   |
| Topeka . . . . .        | 254    | - 5        | 2179                    | - 12       | - 67                   | OHIO. Akron-Canton      | 224    | -42        | 2435                    | - 80       | 294                    | Madison . . . . .        | 300    | -32        | 2968                    | -215       | - 85                   |
| Wichita . . . . .       | 247    | 10         | 1948                    | - 17       | -122                   | Cleveland . . . . .     | 230    | -35        | 2457                    | 8          | 356                    | Milwaukee . . . . .      | 275    | -39        | 2814                    | -162       | - 66                   |
| KY. Lexington . . . . . | 186    | -38        | 2029                    | 56         | 271                    | Columbus . . . . .      | 223    | -36        | 2233                    | -140       | 194                    | WYO. Casper . . . . .    | 319    | 27         | 3278                    | 137        | - 22                   |
| Louisville . . . . .    | 175    | -46        | 1917                    | - 29       | 249                    | Cincinnati . . . . .    | 218    | -20        | 2243                    | 152        | 231                    | Cheyenne . . . . .       | 299    | 33         | 3170                    | 177        | - 41                   |
| LA. Baton Rouge . . . . | 67     | -31        | 691                     | - 22       | 108                    | Dayton . . . . .        | 213    | -46        | 2307                    | - 8        | 166                    | Lander . . . . .         | 344    | 26         | 3418                    | 71         | - 23                   |
| Lake Charles . . . . .  | 61     | -30        | 631                     | 15         | 39                     | Toledo . . . . .        | 262    | -18        | 2701                    | 96         | 165                    | Sheridan . . . . .       | 288    | -16        | 3217                    | - 11       | -214                   |
| New Orleans . . . . .   | 44     | -45        | 603                     | - 8        | 82                     | Youngstown . . . . .    | 239    | -34        | 2639                    | 45         | 253                    |                          |        |            |                         |            |                        |
| Shreveport . . . . .    | 117    | - 9        | 1007                    | 79         | 79                     | OKLA. Okla City . . .   | 187    | - 9        | 1527                    | - 22       | 23                     |                          |        |            |                         |            |                        |

\* Based on 1941-70 Normals.

† Accumulation July 1, 1974

Heating Degree Days (Base 65°) For Week Ending Dec. 29, 1974

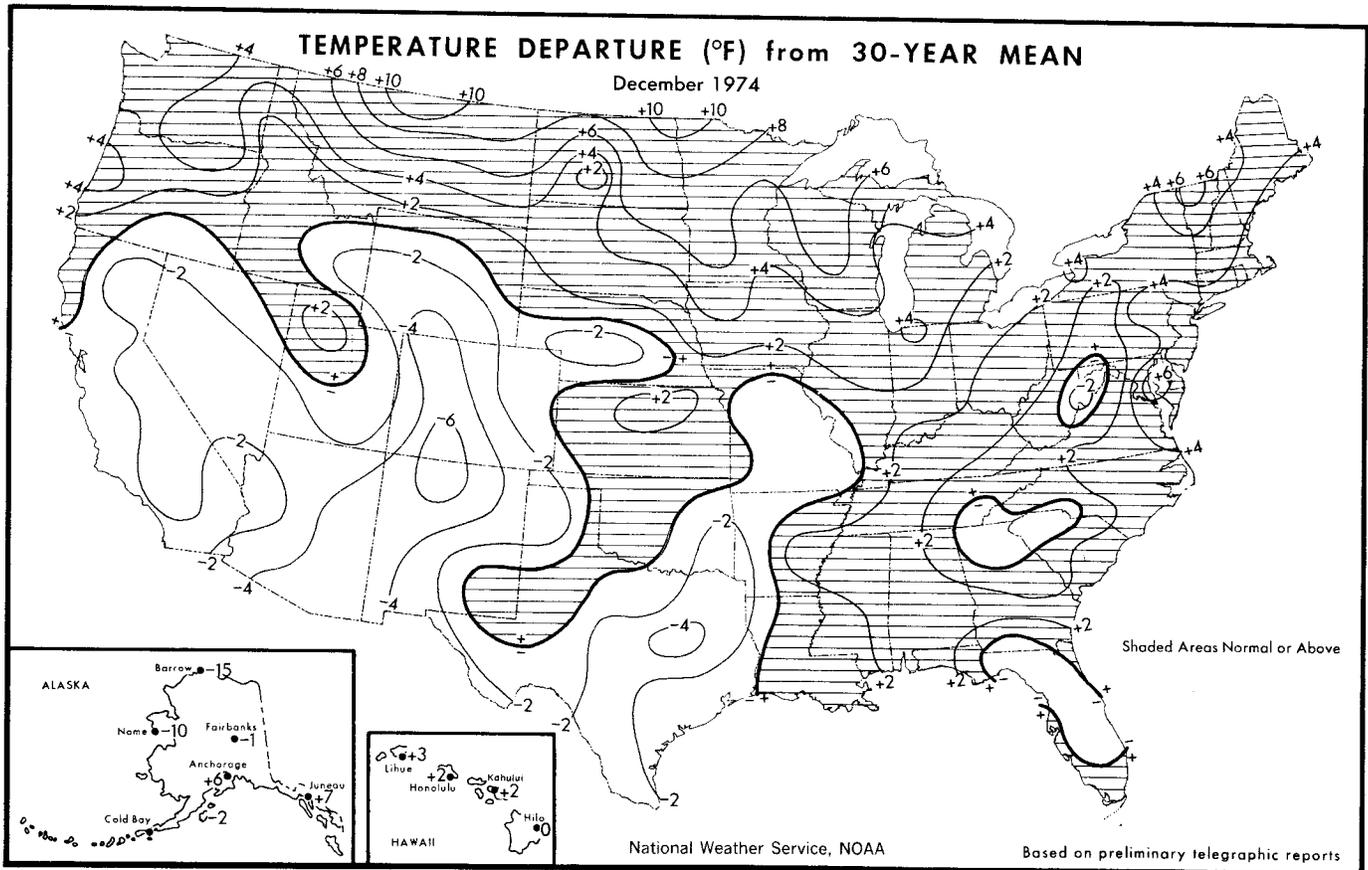
| States and Stations          | Weekly |            | Seasonal + Accumulation |            |                        | States and Stations           | Weekly |            | Seasonal + Accumulation |            |                        | States and Stations         | Weekly |            | Seasonal + Accumulation |            |                        |
|------------------------------|--------|------------|-------------------------|------------|------------------------|-------------------------------|--------|------------|-------------------------|------------|------------------------|-----------------------------|--------|------------|-------------------------|------------|------------------------|
|                              | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |                               | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |                             | TOTAL  | Departure* | TOTAL                   | Departure* | Departure From 1973-74 |
| ALA. Birmingham              | 60     | 87         | 1099                    | 7          | 148                    | Portland . . . . .            | 290    | -5         | 2625                    | -74        | 190                    | Tulsa . . . . .             | 181    | -11        | 1362                    | 16         | 164                    |
| Mobile . . . . .             | 16     | 81         | 609                     | 2          | 125                    | MD. Baltimore . . . . .       | 168    | -55        | 1575                    | -126       | 10                     | OREG. Astoria . . . . .     | 174    | 11         | 1847                    | -241       | -349                   |
| Montgomery . . . . .         | 40     | 85         | 887                     | -12        | 136                    | MASS. Boston . . . . .        | 216    | -26        | 1935                    | 34         | 251                    | Burns . . . . .             | 287    | 14         | 2631                    | -188       | -74                    |
| ARIZ. Flagstaff . . . . .    | 358    | 102        | 2686                    | -123       | 187                    | MICH. Alpena . . . . .        | 244    | -67        | 3006                    | -96        | 162                    | Medford . . . . .           | 230    | 31         | 1710                    | -204       | 151                    |
| Phoenix . . . . .            | 134    | 36         | 535                     | -24        | 108                    | Detroit . . . . .             | 236    | -37        | 2465                    | -166       | 352                    | Pendleton . . . . .         | 200    | -19        | 1656                    | -396       | -148                   |
| Tucson . . . . .             | 168    | 70         | 777                     | 173        | 176                    | Flint . . . . .               | 237    | -49        | 2516                    | -16        | 263                    | Portland . . . . .          | 186    | 6          | 1462                    | -400       | -168                   |
| Winslow . . . . .            | 352    | 121        | 1981                    | 155        | 155                    | Grand Rapids . . . . .        | 250    | -31        | 2722                    | 291        | 417                    | Salem . . . . .             | 190    | 13         | 1648                    | -223       | -204                   |
| Yuma . . . . .               | 136    | 66         | 384                     | 20         | 49                     | Houghton Lake . . . . .       | 265    | -52        | 3021                    | -59        | 210                    | PA. Allentown . . . . .     | 214    | -43        | 2091                    | -14        | 273                    |
| ARK. Fort Smith . . . . .    | 153    | 25         | 1354                    | 104        | 240                    | Lansing . . . . .             | 232    | -51        | 2618                    | 134        | 251                    | Erie . . . . .              | 231    | -37        | 2448                    | 43         | 369                    |
| Little Rock . . . . .        | 126    | 49         | 1152                    | -110       | 212                    | Marquette . . . . .           | 252    | -56        | 2904                    | -93        | 135                    | Harrisburg . . . . .        | 207    | -35        | 1961                    | 47         | 326                    |
| CALIF. Bakersfield . . . . . | 140    | 10         | 781                     | -42        | 62                     | Muskegon . . . . .            | 224    | -48        | 2488                    | 52         | 175                    | Philadelphia . . . . .      | 186    | -38        | 1596                    | -115       | 122                    |
| Eureka . . . . .             | 152    | 33         | 1935                    | -35        | 58                     | S. Ste. Marie . . . . .       | 279    | -57        | 3425                    | 70         | 214                    | Pittsburgh . . . . .        | 212    | -44        | 2079                    | -128       | 215                    |
| Fresno . . . . .             | 165    | 21         | 984                     | 4          | 26                     | MINN. Duluth . . . . .        | 314    | -63        | 3777                    | 120        | 172                    | Scranton . . . . .          | 221    | -46        | 2199                    | -100       | 10                     |
| Los Angeles . . . . .        | 102    | 32         | 375                     | -174       | 1                      | Internatl Falls . . . . .     | 321    | -100       | 3804                    | -231       | 96                     | R. I. Providence . . . . .  | 229    | -23        | 2103                    | 32         | 248                    |
| Red Bluff . . . . .          | 162    | 22         | 1086                    | 129        | 42                     | Minneapolis . . . . .         | 296    | -56        | 2910                    | -162       | 120                    | S. C. Charleston . . . . .  | 56     | -63        | 871                     | 73         | 251                    |
| San Diego . . . . .          | 96     | 32         | 352                     | -90        | 23                     | Rochester . . . . .           | 311    | -35        | 3008                    | -18        | 154                    | Columbia . . . . .          | 68     | -72        | 1041                    | 39         | 304                    |
| San Francisco . . . . .      | 136    | 20         | 1145                    | 34         | -39                    | St. Cloud . . . . .           | 332    | -37        | 3304                    | 15         | 203                    | Greenville . . . . .        | 104    | -57        | 1359                    | 146        | 160                    |
| Stockton . . . . .           | 174    | 27         | 1048                    | 38         | 120                    | MISS. Jackson . . . . .       | 45     | -79        | 859                     | -1         | 158                    | S. DAK. Aberdeen . . . . .  | 293    | -72        | 2934                    | -266       | -349                   |
| COLO. Denver . . . . .       | 282    | 44         | 2358                    | 127        | 188                    | Meridian . . . . .            | 48     | -78        | 867                     | -69        | 197                    | Huron . . . . .             | 308    | -37        | 2839                    | -131       | -111                   |
| Grand Junction . . . . .     | 323    | 59         | 2108                    | -56        | 67                     | MO. Columbia . . . . .        | 248    | -5         | 2033                    | 183        | 300                    | Rapid City . . . . .        | 284    | -1         | 2578                    | -115       | -167                   |
| Pueblo . . . . .             | 324    | 88         | 2074                    | 35         | 125                    | Kansas City . . . . .         | 236    | -2         | 1981                    | 121        | 219                    | Sioux Falls . . . . .       | 299    | -38        | 2826                    | -85        | 50                     |
| CONN. Bridgeport . . . . .   | 209    | 28         | 1777                    | 5          | 289                    | St. Louis . . . . .           | 212    | -17        | 1892                    | 157        | 164                    | TENN. Chattanooga . . . . . | 132    | -43        | 1535                    | 173        | 325                    |
| Hartford . . . . .           | 254    | 23         | 2386                    | 112        | 404                    | Springfield . . . . .         | 201    | -17        | 1803                    | 112        | 333                    | Knoxville . . . . .         | 135    | -40        | 1377                    | 39         | 160                    |
| DEL. Wilmington . . . . .    | 187    | 40         | 1731                    | -7         | 284                    | MONT. Billings . . . . .      | 300    | -16        | 2632                    | -80        | -16                    | Memphis . . . . .           | 112    | -56        | 1116                    | -99        | 187                    |
| D. C. Washington . . . . .   | 144    | 63         | 1358                    | -152       | 187                    | Glasgow . . . . .             | 306    | -54        | 2953                    | -391       | -464                   | Nashville . . . . .         | 113    | -69        | 1378                    | -19        | 262                    |
| FLA. Apalachicola . . . . .  | 18     | 60         | 431                     | -43        | 13                     | Great Falls . . . . .         | 279    | -9         | 2552                    | -313       | -362                   | TEX. Abilene . . . . .      | 135    | -7         | 1072                    | 112        | 274                    |
| Daytona Beach . . . . .      | 5      | 44         | 270                     | -25        | 6                      | Havre . . . . .               | 294    | -54        | 2869                    | -522       | -476                   | Amarillo . . . . .          | 231    | 34         | 1657                    | 106        | 295                    |
| Ft. Myers . . . . .          | 0      | 28         | 85                      | -63        | -74                    | Helena . . . . .              | 303    | -7         | 3045                    | -161       | -152                   | Austin . . . . .            | 99     | -3         | 693                     | 80         | 247                    |
| Jacksonville . . . . .       | 17     | 60         | 540                     | 65         | 75                     | Kalispell . . . . .           | 286    | -18        | 3106                    | -369       | -40                    | Brownsville . . . . .       | 46     | 4          | 248                     | 74         | 103                    |
| Key West . . . . .           | 0      | 7          | 4                       | -4         | -20                    | Miles City . . . . .          | 306    | -16        | 2728                    | -238       | -159                   | Corpus Christi . . . . .    | 66     | 7          | 376                     | 87         | 161                    |
| Lakeland . . . . .           | 1      | 40         | 186                     | -30        | -37                    | Missoula . . . . .            | 292    | -5         | 2862                    | -340       | -76                    | Del Rio . . . . .           | 101    | 3          | 637                     | 55         | 213                    |
| Miami . . . . .              | 0      | 14         | 34                      | -31        | -60                    | NEBR. Grand Island . . . . .  | 322    | 37         | 2430                    | 62         | -19                    | El Paso . . . . .           | 200    | -46        | 1214                    | 125        | 213                    |
| Orlando . . . . .            | 2      | 40         | 204                     | -17        | -8                     | Lincoln . . . . .             | 293    | 9          | 2313                    | 36         | -37                    | Fort Worth . . . . .        | 112    | -21        | 837                     | 0          | 152                    |
| Tallahassee . . . . .        | 25     | 66         | 726                     | 141        | 169                    | Norfolk . . . . .             | 312    | 5          | 2486                    | -81        | -20                    | Galveston . . . . .         | 48     | -23        | 375                     | 18         | 117                    |
| Tampa . . . . .              | 0      | 42         | 177                     | -51        | -53                    | North Platte . . . . .        | 330    | -47        | 2746                    | 185        | 55                     | Houston . . . . .           | 64     | -22        | 489                     | 3          | 61                     |
| W. Palm Beach . . . . .      | 0      | 21         | 71                      | -23        | -35                    | Valentine . . . . .           | 295    | 6          | 2630                    | -95        | -27                    | Lubbock . . . . .           | 182    | -5         | 1408                    | 69         | 299                    |
| GA. Atlanta . . . . .        | 92     | 69         | 1182                    | 8          | 178                    | NEV. Ely . . . . .            | 326    | 42         | 2909                    | -81        | -107                   | Midland . . . . .           | 135    | -10        | 980                     | -7         | 110                    |
| Augusta . . . . .            | 87     | 53         | 1144                    | 159        | 229                    | Las Vegas . . . . .           | 187    | 39         | 939                     | -62        | 20                     | Beaumont . . . . .          | 55     | -32        | 599                     | 64         | 134                    |
| Macon . . . . .              | 56     | 70         | 877                     | 9          | 155                    | Reno . . . . .                | 300    | 66         | 2371                    | 9          | 237                    | San Angelo . . . . .        | 125    | -2         | 874                     | 23         | 231                    |
| Savannah . . . . .           | 34     | 78         | 692                     | -47        | 62                     | Winnemucca . . . . .          | 312    | 58         | 2559                    | -36        | 274                    | San Antonio . . . . .       | 92     | -4         | 705                     | 149        | 254                    |
| IDAHO. Boise . . . . .       | 261    | 18         | 1975                    | -274       | 33                     | N. H. Concord . . . . .       | 324    | 22         | 2935                    | 237        | 246                    | Victoria . . . . .          | 69     | -6         | 426                     | 25         | 159                    |
| Lewiston . . . . .           | 233    | 9          | 1852                    | -303       | -101                   | N. J. Atlantic City . . . . . | 183    | -41        | 1768                    | 38         | 217                    | Waco . . . . .              | 116    | -3         | 807                     | 80         | 245                    |
| Pocatello . . . . .          | 337    | 54         | 2682                    | -23        | 78                     | Trenton . . . . .             | 180    | -46        | 1670                    | -49        | 171                    | Wichita Falls . . . . .     | 151    | -9         | 1062                    | 2          | 204                    |
| ILL. Cairo . . . . .         | 173    | 22         | 1445                    | 29         | 188                    | N. MEX. Albuquerque . . . . . | 290    | 80         | 1815                    | 144        | 22                     | UTAH. Salt Lake C . . . . . | 281    | 25         | 1948                    | -343       | -147                   |
| Chicago . . . . .            | 243    | 31         | 2213                    | 42         | 172                    | Roswell . . . . .             | 200    | 11         | 1534                    | 36         | 305                    | VT. Burlington . . . . .    | 279    | -41        | 2800                    | -22        | 129                    |
| Moline . . . . .             | 243    | 47         | 2333                    | 20         | 104                    | N. Y. Albany . . . . .        | 279    | -16        | 2719                    | 237        | 270                    | VA. Lynchburg . . . . .     | 149    | -54        | 1678                    | 86         | 228                    |
| Peoria . . . . .             | 249    | 28         | 2290                    | 66         | 187                    | Binghamton . . . . .          | 264    | -30        | 2779                    | 144        | 386                    | Norfolk . . . . .           | 127    | -43        | 1157                    | -49        | 174                    |
| Rockford . . . . .           | 270    | 31         | 2493                    | -3         | 228                    | Buffalo . . . . .             | 225    | -53        | 2369                    | -56        | 106                    | Richmond . . . . .          | 142    | -54        | 1569                    | 115        | 287                    |
| Springfield . . . . .        | 227    | 32         | 2060                    | 35         | 226                    | New York . . . . .            | 184    | -40        | 1649                    | 17         | 232                    | Roanoke . . . . .           | 134    | -69        | 1693                    | 79         | 249                    |
| IND. Evansville . . . . .    | 183    | 39         | 1765                    | 35         | 261                    | Rochester . . . . .           | 227    | -49        | 2467                    | 114        | 364                    | WASH. Quillayute . . . . .  | 178    | 1          | 2186                    | -223       | -445                   |
| Fort Wayne . . . . .         | 230    | 42         | 2335                    | 76         | 300                    | Syracuse . . . . .            | 248    | -30        | 2514                    | 193        | 248                    | Seattle-Tacoma . . . . .    | 199    | 18         | 1801                    | -248       | -93                    |
| Indianapolis . . . . .       | 217    | 37         | 2152                    | 100        | 405                    | N. C. Asheville . . . . .     | 129    | -63        | 1635                    | -4         | 213                    | Spokane . . . . .           | 281    | -16        | 2531                    | -189       | -81                    |
| South Bend . . . . .         | 228    | 48         | 2121                    | -200       | 207                    | Hatteras . . . . .            | 90     | 43         | 893                     | 42         | 234                    | Walla Walla . . . . .       | 191    | -18        | 1623                    | -271       | -105                   |
| IOWA. Burlington . . . . .   | 247    | 36         | 2266                    | 35         | 157                    | Charlotte . . . . .           | 115    | -53        | 1396                    | 164        | 227                    | Yakima . . . . .            | 247    | -4         | 2137                    | -298       | -142                   |
| Des Moines . . . . .         | 231    | 71         | 2296                    | -129       | 102                    | Greensboro . . . . .          | 119    | -70        | 1463                    | -4         | 45                     | W. VA. Beckley . . . . .    | 164    | -74        | 2203                    | 45         | 327                    |
| Dubuque . . . . .            | 277    | 39         | 2683                    | 6          | 201                    | Raleigh . . . . .             | 122    | -53        | 1455                    | 119        | 359                    | Charleston . . . . .        | 155    | -58        | 1919                    | 187        | 382                    |
| Sioux City . . . . .         | 307    | 5          | 2490                    | -67        | 132                    | Wilmington . . . . .          | 79     | -54        | 940                     | 67         | 224                    | Huntington . . . . .        | 170    | -46        | 1820                    | 87         | 363                    |
| KANS. Concordia . . . . .    | 249    | -12        | 1971                    | -85        | -55                    | N. Dak. Bismarck . . . . .    | 358    | -13        | 3513                    | 139        | -178                   | Parkersburg . . . . .       | 165    | -59        | 1947                    | 170        | 368                    |
| Dodge City . . . . .         | 248    | 13         | 1814                    | -52        | 17                     | Fargo . . . . .               | 312    | -79        | 3314                    | -114       | -194                   | WIS. Green Bay . . . . .    | 292    | -39        | 3038                    | 83         | 348                    |
| Goodland . . . . .           | 225    | 32         | 2303                    | 5          | 0                      | Williston . . . . .           | 323    | -48        | 3267                    | -198       | -366                   | LaCrosse . . . . .          | 267    | -58        | 2644                    | -60        | 123                    |
| Topeka . . . . .             | 247    | 3          | 1925                    | -7         | 109                    | OHIO. Akron-Canton . . . . .  | 220    | -46        | 2211                    | -38        | 383                    | Madison . . . . .           | 269    | -54        | 2668                    | -183       | 55                     |
| Wichita . . . . .            | 226    | 3          | 1701                    | -27        | 29                     | Cleveland . . . . .           | 217    | -42        | 2227                    | 43         | 434                    | Milwaukee . . . . .         | 260    | -45        | 2538                    | -124       | 200                    |
| KY. Lexington . . . . .      | 146    | 73         | 1844                    | 95         | 352                    | Columbus . . . . .            | 192    | -61        | 2010                    | -104       | 279                    | WYO. Casper . . . . .       | 325    | 41         | 2959                    | 110        | 128                    |
| Louisville . . . . .         | 150    | 67         | 1742                    | 17         | 348                    | Cincinnati . . . . .          | 195    | -37        | 2025                    | 172        | 314                    | Cheyenne . . . . .          | 315    | 55         | 2871                    | 144        | 121                    |
| LA. Baton Rouge . . . . .    | 18     | 78         | 624                     | 9          | 140                    | Dayton . . . . .              | 199    | -53        | 2094                    | 38         | 283                    | Lander . . . . .            | 361    | 53         | 3074                    | 45         | 99                     |
| Lake Charles . . . . .       | 33     | 52         | 570                     | 45         | 108                    | Toledo . . . . .              | 228    | -48        | 2429                    | 104        | 261                    | Sheridan . . . . .          | 313    | 22         | 2929                    | 5          | -31                    |
| New Orleans . . . . .        | 11     | 72         | 559                     | 37         | 106                    | Youngstown . . . . .          | 227    | -42        | 2400                    | 79         | 330                    |                             |        |            |                         |            |                        |



Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Dec. 29, 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 . . .    | 56             | +12       | 4.6                  | +3.4      | La. Baton Rouge . . .    | 65             | +13       | 1.2                  | + .1      | Youngstown . . .        | 32             | + 5       | .7                   | + .1      |
| Mobile . . .             | 66             | +14       | .5                   | - .9      | Lake Charles . . .       | 62             | + 9       | 2.2                  | +1.0      | OKLA. Okla. City . . .  | 38             | + 0       | T                    | - .3      |
| Montgomery . . .         | 60             | +13       | 2.8                  | +1.7      | New Orleans . . .        | 68             | +14       | .1                   | -1.0      | Tulsa . . .             | 39             | + 1       | T                    | - .4      |
| ALASKA. Anchorage . . .  | 14             | + 3       | .2                   | 0         | Shreveport . . .         | 51             | + 3       | .2                   | - .8      | OREG. Astoria . . .     | 40             | - 2       | 4.6                  | +2.3      |
| Barrow . . .             | -36            | -22       | T                    | - .1      | MAINE. Caribou . . .     | 15             | + 2       | .2                   | - .3      | Burns . . .             | 24             | - 2       | .1                   | - .3      |
| Fairbanks . . .          | 41             | - 1       | T                    | - .1      | Portland . . .           | 24             | + 1       | .2                   | - .6      | Medford . . .           | 32             | - 5       | 1.5                  | + .7      |
| Juneau . . .             | 35             | + 9       | 2.2                  | +1.2      | MD. Baltimore . . .      | 41             | + 8       | T                    | - .7      | Pendleton . . .         | 36             | + 2       | .1                   | - .3      |
| Kodiak . . .             | 41             | - 1       | T                    | - .1      | MASS. Boston . . .       | 34             | + 4       | .6                   | - .3      | Portland . . .          | 38             | - 1       | 1.8                  | + .4      |
| Nome . . .               | 39             | +36       | T                    | - .1      | Chatham . . .            | 37             | - 1       | .8                   | - .1      | Salem . . .             | 38             | - 2       | 1.7                  | + .1      |
| ARIZ. Flagstaff . . .    | 13             | -15       | .8                   | + .3      | MICH. Alpena . . .       | 30             | + 9       | T                    | - .4      | PA. Allentown . . .     | 34             | + 6       | .2                   | - .6      |
| Phoenix . . .            | 46             | - 5       | .1                   | - .1      | Detroit . . .            | 31             | + 5       | .3                   | - .2      | Erie . . .              | 32             | + 5       | .5                   | - .1      |
| Tucson . . .             | 41             | -10       | .1                   | - .1      | Flint . . .              | 31             | + 7       | .1                   | - .3      | Harrisburg . . .        | 35             | + 5       | .4                   | - .2      |
| Winslow . . .            | 29             | - 3       | .2                   | + .1      | Grand Rapids . . .       | 29             | + 4       | .1                   | - .3      | Philadelphia . . .      | 38             | + 5       | .1                   | - .6      |
| Yuma . . .               | 47             | - 8       | T                    | - .1      | Houghton Lake . . .      | 27             | + 7       | T                    | - .4      | Pittsburgh . . .        | 34             | + 6       | .7                   | + .1      |
| ARK. Fort Smith . . .    | 45             | + 5       | .5                   | - .1      | Lansing . . .            | 32             | + 7       | .2                   | - .2      | Scranton . . .          | 33             | + 6       | .3                   | - .2      |
| Little Rock . . .        | 47             | + 7       | 1.5                  | + .6      | Marquette . . .          | 29             | + 8       | T                    | - .4      | R.I. Providence . . .   | 32             | + 3       | .6                   | - .3      |
| CALIF. Bakersfield . . . | 45             | - 1       | T                    | - .2      | Muskegon . . .           | 33             | + 7       | .1                   | - .4      | S.C. Charleston . . .   | 57             | + 9       | .3                   | - .4      |
| Eureka . . .             | 43             | - 5       | 1.1                  | - .4      | S. Ste. Marie . . .      | 25             | + 8       | .1                   | - .4      | Columbia . . .          | 55             | +10       | 1.0                  | + .2      |
| Fresno . . .             | 41             | - 3       | .3                   | - .1      | MINN. Duluth . . .       | 20             | + 9       | T                    | - .3      | Greenville . . .        | 50             | + 8       | .7                   | - .3      |
| Los Angeles . . .        | 49             | - 8       | 1.1                  | + .6      | Internatl Falls . . .    | 19             | +14       | .3                   | + .1      | S.D. Aberdeen . . .     | 23             | +10       | T                    | - .1      |
| Red Bluff . . .          | 42             | - 3       | 1.4                  | + .5      | Minneapolis . . .        | 22             | + 7       | T                    | - .2      | Huron . . .             | 21             | + 5       | T                    | - .1      |
| San Diego . . .          | 51             | - 5       | .8                   | + .4      | Rochester . . .          | 21             | + 5       | T                    | - .1      | Rapid City . . .        | 24             | 0         | T                    | - .1      |
| San Francisco . . .      | 43             | - 3       | 1.3                  | + .3      | St. Cloud . . .          | 17             | + 5       | T                    | - .1      | Sioux Falls . . .       | 22             | + 5       | T                    | - .1      |
| Stockton . . .           | 40             | - 4       | .2                   | - .4      | MISS. Jackson . . .      | 60             | +12       | 3.8                  | +2.7      | TENN. Chattanooga . . . | 46             | + 6       | 2.9                  | +1.7      |
| COLO. Denver . . .       | 24             | - 7       | .1                   | 0         | Meridian . . .           | 58             | +11       | 3.8                  | +1.6      | Knoxville . . .         | 46             | + 6       | 3.7                  | +2.6      |
| Grand Junction . . .     | 19             | - 8       | .1                   | 0         | MO. Columbia . . .       | 31             | + 1       | .3                   | - .1      | Memphis . . .           | 49             | + 8       | 3.7                  | +2.6      |
| Pueblo . . .             | 19             | -12       | .3                   | + .2      | Kansas City . . .        | 30             | 0         | .1                   | - .3      | Nashville . . .         | 49             | +10       | 1.3                  | + .2      |
| CONN. Bridgeport . . .   | 35             | + 4       | .6                   | - .1      | St. Louis . . .          | 35             | + 3       | .2                   | - .2      | TEX. Abilene . . .      | 44             | - 1       | .3                   | + .1      |
| Hartford . . .           | 29             | + 4       | .5                   | - .3      | Springfield . . .        | 36             | + 2       | .2                   | - .3      | Amarillo . . .          | 31             | - 6       | .1                   | - .1      |
| D.C. Washington . . .    | 44             | + 9       | .1                   | - .6      | MONT. Billings . . .     | 22             | - 2       | .2                   | + .1      | Austin . . .            | 51             | 0         | .6                   | + .1      |
| FLA. Apalachicola . . .  | 63             | + 9       | T                    | - .7      | Glasgow . . .            | 21             | + 7       | T                    | - .1      | Beaumont . . .          | 60             | + 7       | 2.4                  | +1.3      |
| Daytona Beach . . .      | 67             | + 8       | T                    | - .4      | Great Falls . . .        | 25             | + 1       | .1                   | 0         | Brownsville . . .       | 61             | 0         | .3                   | 0         |
| Ft. Myers . . .          | 72             | + 8       | 0                    | - .3      | Havre . . .              | 23             | + 8       | .1                   | 0         | Corpus Christi . . .    | 58             | 0         | .2                   | - .2      |
| Jacksonville . . .       | 64             | +10       | 0                    | - .6      | Helena . . .             | 22             | + 1       | T                    | - .1      | Del Rio . . .           | 50             | - 1       | 1.4                  | +1.3      |
| Key West . . .           | 76             | + 5       | .3                   | 0         | Kalispell . . .          | 24             | + 2       | .3                   | - .1      | El Paso . . .           | 34             | - 9       | .6                   | + .5      |
| Lakeland . . .           | 69             | + 8       | 0                    | - .5      | Miles City . . .         | 21             | + 2       | .1                   | 0         | Fort Worth . . .        | 48             | + 2       | .4                   | 0         |
| Miami . . .              | 73             | + 5       | T                    | - .4      | Missoula . . .           | 23             | 0         | T                    | - .3      | Galveston . . .         | 59             | + 4       | 2.1                  | +1.3      |
| Orlando . . .            | 68             | + 7       | T                    | - .5      | NEBR. Grand Island . . . | 18             | - 6       | .3                   | + .2      | Houston . . .           | 57             | + 5       | .9                   | 0         |
| Tallahassee . . .        | 62             | +10       | T                    | -1.0      | Lincoln . . .            | 23             | - 1       | .1                   | 0         | Lubbock . . .           | 39             | - 1       | .2                   | + .1      |
| Tampa . . .              | 69             | + 8       | T                    | - .5      | Norfolk . . .            | 20             | - 1       | .4                   | + .3      | Midland . . .           | 45             | + 1       | .1                   | 0         |
| W. Palm Beach . . .      | 72             | + 6       | 0                    | - .6      | N. Platte . . .          | 18             | - 7       | T                    | - .1      | San Angelo . . .        | 47             | 0         | 1.0                  | + .8      |
| GA. Atlanta . . .        | 52             | +10       | 2.7                  | +1.7      | Omaha . . .              | 29             | + 6       | .3                   | + .2      | San Antonio . . .       | 51             | - 1       | .5                   | + .2      |
| Augusta . . .            | 52             | + 7       | .9                   | + .1      | Valentine . . .          | 23             | + 1       | T                    | - .1      | Victoria . . .          | 57             | + 2       | .4                   | 0         |
| Macon . . .              | 57             | +10       | .9                   | - .1      | NEV. Ely . . .           | 17             | - 7       | .1                   | 0         | Waco . . .              | 47             | - 1       | .5                   | + .1      |
| Savannah . . .           | 60             | +11       | .2                   | - .6      | Las Vegas . . .          | 38             | - 6       | .2                   | + .1      | Wichita Falls . . .     | 42             | 0         | T                    | - .3      |
| HAWAII. Hilo . . .       | 76             | + 3       | .2                   | - .7      | Reno . . .               | 22             | -10       | .3                   | + .0      | UTAH. Blanding . . .    | 21             | - 7       | .2                   | - .1      |
| Honolulu . . .           | 74             | + 2       | T                    | - .7      | Winnemucca . . .         | 20             | - 9       | .3                   | + .1      | Salt Lake City . . .    | 25             | - 3       | .1                   | - .2      |
| Kahului . . .            | 76             | + 4       | .5                   | -1.0      | N.H. Concord . . .       | 18             | + 4       | .6                   | - .1      | VT. Burlington . . .    | 25             | + 6       | .3                   | - .1      |
| Lihue . . .              | 76             | + 4       | .5                   | -1.0      | N.J. Atlantic City . . . | 38             | + 5       | .1                   | - .7      | VA. Lynchburg . . .     | 43             | + 7       | .1                   | - .6      |
| IDAHO. Boise . . .       | 28             | - 2       | .2                   | - .1      | Trenton . . .            | 39             | + 6       | .1                   | - .6      | Norfolk . . .           | 47             | + 6       | .4                   | - .3      |
| Lewiston . . .           | 32             | - 1       | T                    | - .3      | N.MEX. Albuquerque . . . | 23             | -12       | .4                   | + .3      | Richmond . . .          | 45             | + 8       | .3                   | - .4      |
| Pocatello . . .          | 17             | - 8       | .2                   | 0         | Roswell . . .            | 36             | - 2       | .1                   | 0         | Roanoke . . .           | 46             | +10       | .1                   | - .6      |
| ILL. Cairo . . .         | 40             | + 3       | 1.3                  | + .5      | N.Y. Albany . . .        | 25             | + 2       | .4                   | - .2      | WASH. Colville . . .    | 25             | 0         | 1.4                  | + .9      |
| Chicago . . .            | 30             | + 4       | .2                   | - .3      | Binghamton . . .         | 27             | + 4       | .5                   | - .1      | Omak . . .              | 24             | 0         | .3                   | - .1      |
| Moline . . .             | 30             | + 6       | T                    | - .4      | Buffalo . . .            | 33             | + 8       | .2                   | - .4      | Quillayute . . .        | 39             | - 1       | 5.0                  | +1.5      |
| Peoria . . .             | 29             | + 4       | .3                   | - .1      | New York . . .           | 39             | + 6       | .2                   | - .6      | Seattle-Tacoma . . .    | 36             | - 3       | 2.8                  | +1.5      |
| Rockford . . .           | 26             | + 4       | T                    | - .4      | Rochester . . .          | 33             | + 7       | .3                   | - .2      | Spokane . . .           | 25             | - 2       | .9                   | + .3      |
| Springfield . . .        | 32             | + 4       | .5                   | + .1      | Syracuse . . .           | 29             | + 4       | .3                   | - .4      | Walla Walla . . .       | 35             | 0         | .6                   | + .1      |
| IND. Evansville . . .    | 39             | + 6       | .9                   | + .2      | N.C. Asheville . . .     | 42             | + 4       | 1.0                  | + .2      | Yakima . . .            | 30             | + 1       | .2                   | - .1      |
| Ft. Wayne . . .          | 32             | + 6       | .5                   | 0         | Charlotte . . .          | 48             | + 7       | .9                   | + .1      | W. Va. Beckley . . .    | 41             | +10       | 1.0                  | + .2      |
| Indianapolis . . .       | 36             | + 7       | .3                   | - .3      | Greensboro . . .         | 48             | +10       | .8                   | + .1      | Charleston . . .        | 43             | + 8       | 1.1                  | + .3      |
| South Bend . . .         | 32             | + 6       | .3                   | - .3      | Hatteras . . .           | 52             | + 6       | .8                   | - .2      | Huntington . . .        | 44             | +10       | .8                   | + .1      |
| IOWA. Burlington . . .   | 30             | + 5       | .2                   | - .2      | Raleigh . . .            | 47             | + 7       | 1.1                  | + .4      | Parkersburg . . .       | 41             | + 8       | .6                   | 0         |
| Des Moines . . .         | 30             | + 7       | .1                   | - .1      | Wilmington . . .         | 54             | + 8       | .4                   | - .3      | WIS. Green Bay . . .    | 23             | + 5       | T                    | - .3      |
| Dubuque . . .            | 25             | + 5       | T                    | - .4      | N.DAK. Bismarck . . .    | 17             | + 5       | .4                   | + .3      | La Crosse . . .         | 26             | + 7       | 0                    | - .2      |
| Sioux City . . .         | 22             | + 2       | .1                   | 0         | Fargo . . .              | 20             | +11       | T                    | - .1      | Madison . . .           | 26             | + 7       | T                    | - .3      |
| KANS. Concordia . . .    | 29             | + 1       | .2                   | + .1      | Williston . . .          | 18             | + 6       | .1                   | 0         | Milwaukee . . .         | 28             | + 7       | T                    | - .4      |
| Dodge City . . .         | 29             | - 2       | .1                   | 0         | OHIO. Akron-Canton . . . | 34             | + 7       | .8                   | + .2      | WYO. Casper . . .       | 18             | - 6       | T                    | - .1      |
| Goodland . . .           | 23             | - 5       | .3                   | + .2      | Cincinnati . . .         | 37             | + 5       | .5                   | - .1      | Cheyenne . . .          | 20             | - 8       | .1                   | 0         |
| Topeka . . .             | 29             | 0         | .1                   | - .3      | Cleveland . . .          | 34             | + 6       | .6                   | + .1      | Lander . . .            | 13             | - 8       | .1                   | 0         |
| Wichita . . .            | 33             | + 1       | T                    | - .2      | Columbus . . .           | 37             | + 8       | .5                   | - .1      | Sheridan . . .          | 20             | - 3       | T                    | - .1      |
| KY. Lexington . . .      | 44             | +10       | 1.4                  | + .6      | Dayton . . .             | 36             | + 7       | .6                   | + .1      | P.R. San Juan . . .     | 78             | + 2       | .5                   | - .5      |
| Louisville . . .         | 44             | +10       | 1.0                  | + .2      | Toledo . . .             | 32             | + 6       | .4                   | - .1      |                         |                |           |                      |           |

Based on 1941 - 70 Normals



## DECEMBER WEATHER SUMMARY

**HIGHLIGHTS:** Temperatures averaged well above normal across most of the Nation in December. The main exceptions were the Desert Southwest, Nevada and California, and most of Texas, western Arkansas and Missouri. Most of the Washington-Boston corridor averaged at least 4° above normal. Further west northern Montana, North Dakota, Minnesota and Wisconsin averaged 4 to 10° above normal. In the Southwest, temperatures were 4 to 6° below normal in Colorado, New Mexico and Arizona.

Precipitation ranged from nearly nothing in the Southwest to 19.05 in. at Quillayute, Wash. Percentagewise, precipitation was near normal from the Corn Belt eastward to the Atlantic, in the Pacific Northwest and the Southeast. Areas well above normal included the New England coast, southwest Texas and southern California. The northern Great Plains generally remained dry.

**PRECIPITATION:** A vigorous storm lashed the Great Lakes and New England area during the first week of December as a strong low pressure passed through the area. Strong winds, high tides and heavy rains lashed coastal areas while the Detroit, Mich., Akron, Ohio area received 18 in. of snow. As cleared over West Virginia, two feet of snow remained in many parts, the worst storm since 1968. A complex storm system also dumped heavy rains over most of Mississippi and Louisiana.

Considerable snow fell during the second week in various parts of the Country. On the 11th, a complex system which had formed over the Gulf of Mexico combined with colder air from the north to drop heavy snow over Kansas and Oklahoma, and rain and thundershowers over the Lower Mississippi Valley.

A second storm moving across the northern United States produced rain over parts of the lower North-

east and snow over New England, the upper Great Lakes and New England.

By the 15th, nearly 11 in. of snow blanketed parts of Nebraska and Kansas.

Heavy rain during the week ending the 22d caused local flooding in the Mid-Atlantic States. Snow and wind over the northern and central Rockies endangered travelers and required an avalanche warning for the Colorado Mountains. The heaviest precipitation fell along the Gulf and East Coasts.

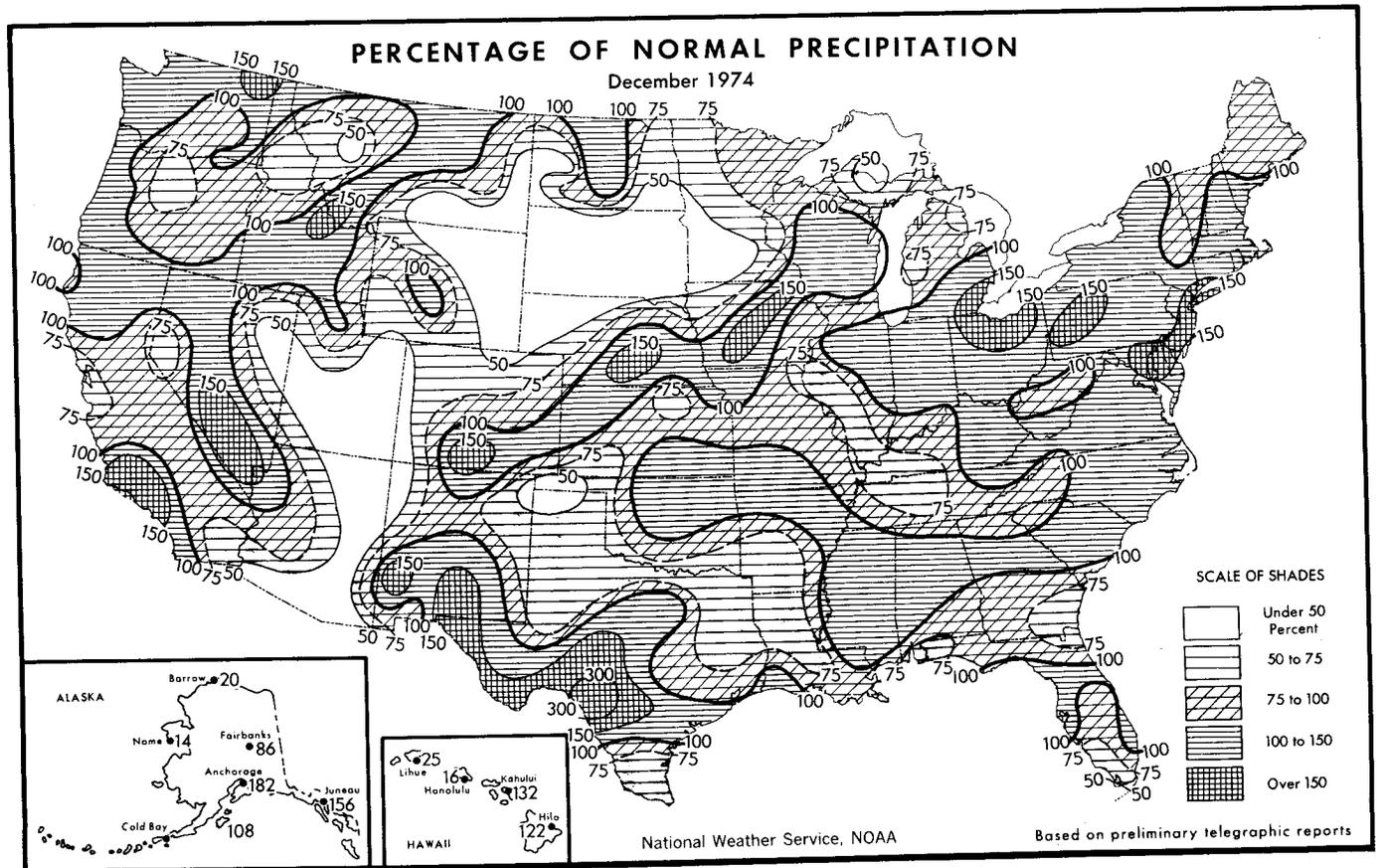
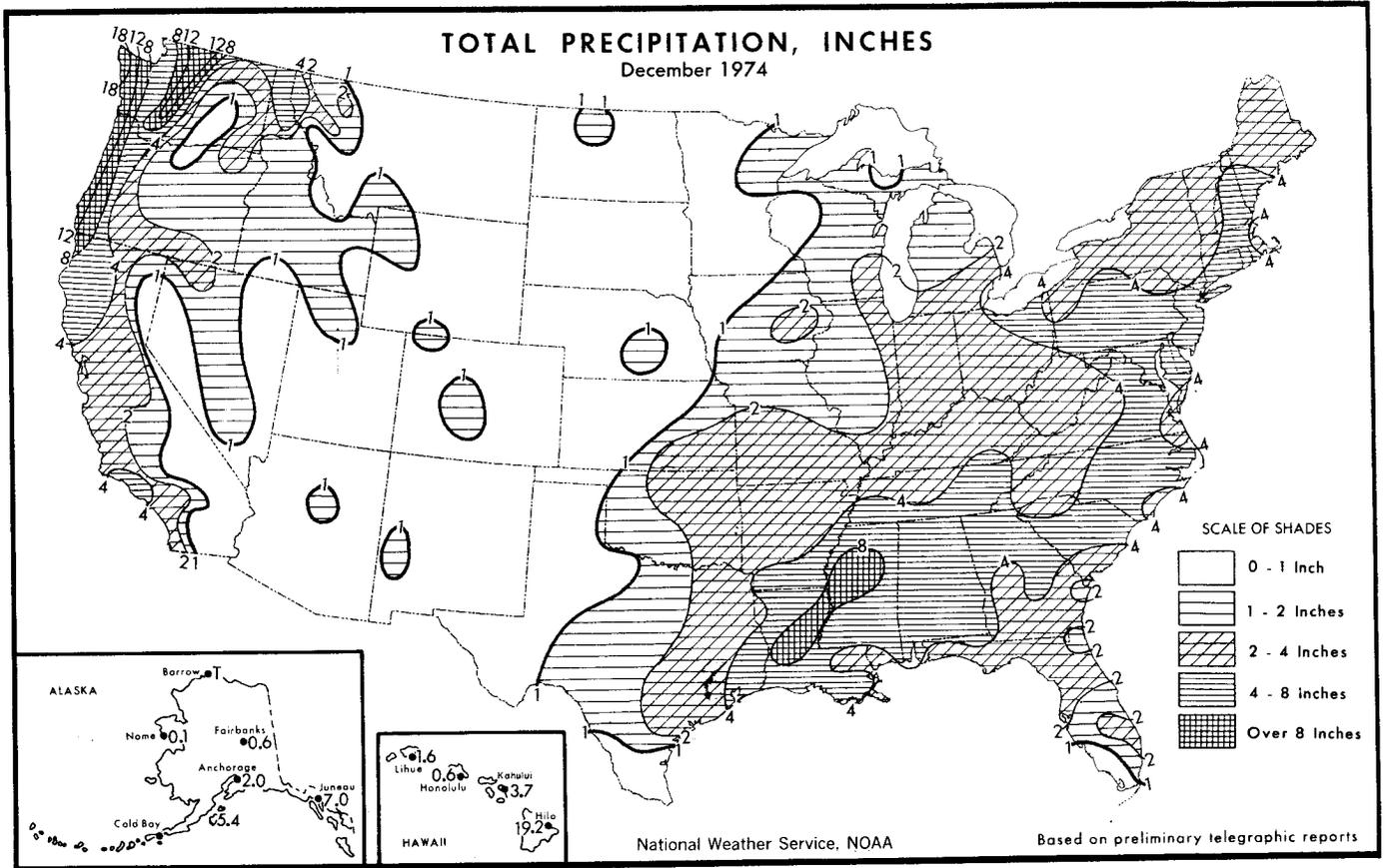
During the final week of the month, heaviest precipitation fell in the Deep South as 2.00 to 4.00 in. of rain fell over several States.

**TEMPERATURE:** Temperature departures varied widely during the month with the first week much colder than usual over the eastern half of the country and warm in the western States. The cold temperatures in the East were associated with Canadian air reaching as far south as Florida and the Gulf Coast.

During the second week, the Nation was again divided, but on an east-west axis. The northern half of the Nation was well above normal. Temperatures in Minnesota and the Dakotas averaged 6 to 12° above normal. To the south, parts of Arizona and New Mexico averaged 6 to 9° below normal.

Except for the Southeast, most of the Nation was warmer than normal during the week ending the 22d. This was the result of the combination of warm Gulf air being pushed northward by a large High over the Gulf and cold shallow air off the mountains being warmed at it moved downslope.

Temperatures during the final week of December were much warmer than usual over the eastern half of the Nation as warm Gulf air, pumped by a large high over the Atlantic, covered the area. Temperatures to the west were well below normal.



Temperature and Precipitation Data for December 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 . . .      | 47             | + 2       | 6.0                  | + .8      | La. Baton Rouge . . .         | 54             | + 1       | 3.7                  | -1.3      | Youngstown . . . . .       | 31             | + 2       | 3.0                  | + .4      |
| Mobile . . . . .           | 55             | + 2       | 4.3                  | -1.6      | Lake Charles . . . . .        | 55             | + 1       | 7.8                  | +2.1      | OKLA. Okla. City . . .     | 40             | 0         | 1.5                  | + .2      |
| Montgomery . . . . .       | 51             | + 2       | 4.7                  | - .2      | New Orleans . . . . .         | 55             | 0         | 4.9                  | - .2      | Tulsa . . . . .            | 40             | 0         | 2.9                  | +1.3      |
| ALASKA Anchorage . . .     | 19             | + 6       | 2.0                  | + .9      | Shreveport . . . . .          | 47             | - 2       | 2.3                  | -1.9      | OREG. Astoria . . . . .    | 46             | + 3       | 13.8                 | +3.2      |
| Barrow . . . . .           | -27            | -15       | T                    | - .2      | MAINE Caribou . . . . .       | 19             | + 3       | 2.1                  | - .5      | Burns . . . . .            | 28             | 0         | 1.4                  | - .3      |
| Fairbanks . . . . .        | -11            | - 1       | .6                   | - .1      | Portland . . . . .            | 30             | + 4       | 4.4                  | + .3      | Medford . . . . .          | 39             | + 1       | 3.9                  | + .2      |
| Juneau . . . . .           | 34             | + 7       | 7.0                  | +2.5      | MD. Baltimore . . . . .       | 40             | + 4       | 5.7                  | +2.4      | Pendleton . . . . .        | 41             | + 5       | 1.6                  | + .1      |
| Kodiak . . . . .           | 28             | - 2       | 5.4                  | + .4      | MASS. Boston . . . . .        | 38             | + 5       | 3.9                  | - .3      | Portland . . . . .         | 44             | + 3       | 6.1                  | + .1      |
| Nome . . . . .             | 6              | -10       | 1.1                  | - .6      | Chatham . . . . .             | 38             | - 1       | 3.5                  | ---       | Salem . . . . .            | 43             | + 2       | 6.9                  | 0         |
| ARIZ. Flagstaff . . . . .  | 27             | - 3       | 1.2                  | -1.0      | MICH. Alpena . . . . .        | 28             | + 5       | 1.0                  | - .9      | PA. Allentown . . . . .    | 35             | + 4       | 4.5                  | + .9      |
| Phoenix . . . . .          | 51             | - 2       | .6                   | - .2      | Detroit . . . . .             | 29             | 0         | 4.0                  | +1.7      | Erie . . . . .             | 31             | + 2       | 3.6                  | + .8      |
| Tucson . . . . .           | 47             | - 5       | .3                   | - .6      | Flint . . . . .               | 29             | + 2       | 2.4                  | + .7      | Harrisburg . . . . .       | 35             | + 2       | 4.6                  | +1.5      |
| Winslow . . . . .          | 29             | - 5       | .3                   | - .3      | Grand Rapids . . . . .        | 28             | + 1       | 1.8                  | - .4      | Philadelphia . . . . .     | 39             | + 4       | 4.0                  | + .7      |
| Yuma . . . . .             | 53             | - 3       | .3                   | - .3      | Houghton Lake . . . . .       | 26             | + 3       | 1.4                  | - .4      | Pittsburgh . . . . .       | 33             | + 2       | 4.0                  | +1.5      |
| ARK. Fort Smith . . . . .  | 40             | - 2       | 2.3                  | - .6      | Lansing . . . . .             | 29             | + 2       | 2.4                  | + .4      | Scranton . . . . .         | 34             | + 4       | 3.4                  | + .9      |
| Little Rock . . . . .      | 44             | + 2       | 3.0                  | -1.1      | Marquette . . . . .           | 29             | + 5       | .8                   | -1.2      | R. I. Providence . . . . . | 36             | + 4       | 4.5                  | + .4      |
| CALIF. Bakersfield . . .   | 47             | - 1       | 1.2                  | + .5      | Muskegon . . . . .            | 31             | + 2       | 1.6                  | - .8      | S. C. Charleston . . . . . | 51             | + 2       | 3.0                  | - .1      |
| Eureka . . . . .           | 49             | 0         | 6.4                  | - .2      | S. Ste. Marie . . . . .       | 24             | + 4       | 1.9                  | - .5      | Columbia . . . . .         | 48             | + 2       | 4.6                  | +1.2      |
| Fresno . . . . .           | 45             | - 1       | 1.3                  | - .4      | MINN. Duluth . . . . .        | 20             | + 6       | 1.2                  | - .2      | Greenville . . . . .       | 43             | 0         | 2.5                  | -1.6      |
| Los Angeles . . . . .      | 56             | - 2       | 3.6                  | +1.4      | Internatl Falls . . . . .     | 17             | + 8       | .8                   | - .2      | S. D. Aberdeen . . . . .   | 23             | + 6       | .1                   | - .4      |
| Red Bluff . . . . .        | 44             | - 2       | 4.9                  | +1.0      | Minneapolis . . . . .         | 24             | + 5       | .4                   | - .5      | Huron . . . . .            | 23             | + 4       | T                    | - .5      |
| San Diego . . . . .        | 56             | - 1       | 2.2                  | + .5      | Rochester . . . . .           | 22             | + 3       | .6                   | - .2      | Rapid City . . . . .       | 29             | + 2       | .1                   | - .3      |
| San Francisco . . . . .    | 49             | - 1       | 2.4                  | -1.6      | St. Cloud . . . . .           | 21             | + 5       | .5                   | - .4      | Sioux Falls . . . . .      | 24             | + 4       | .1                   | - .6      |
| Stockton . . . . .         | 44             | - 2       | 2.2                  | - .5      | MISS. Jackson . . . . .       | 50             | + 1       | 7.2                  | +2.2      | TENN. Chattanooga . . .    | 41             | 0         | 4.5                  | - .8      |
| COLO. Denver . . . . .     | 31             | - 2       | .3                   | - .1      | Meridian . . . . .            | 50             | + 2       | 6.5                  | + .9      | Knoxville . . . . .        | 42             | 0         | 4.5                  | 0         |
| Grand Junction . . . . .   | 27             | - 3       | .3                   | - .3      | MO. Columbia . . . . .        | 32             | - 1       | 1.7                  | - .1      | Memphis . . . . .          | 45             | + 2       | 5.0                  | + .3      |
| Pueblo . . . . .           | 29             | - 3       | .3                   | 0         | Kansas City . . . . .         | 32             | 0         | 1.5                  | 0         | Nashville . . . . .        | 43             | + 3       | 2.8                  | -1.7      |
| CONN. Bridgeport . . . . . | 38             | + 4       | 5.9                  | +2.5      | St. Louis . . . . .           | 34             | - 1       | 1.7                  | - .3      | TEX. Abilene . . . . .     | 44             | - 2       | 1.1                  | - .3      |
| Hartford . . . . .         | 31             | + 3       | 4.5                  | + .4      | Springfield . . . . .         | 36             | 0         | 2.7                  | + .2      | Amarillo . . . . .         | 36             | - 3       | .4                   | - .3      |
| D. C. Washington . . . . . | 43             | + 6       | 4.4                  | +1.4      | MONT. Billings . . . . .      | 30             | + 3       | .3                   | - .4      | Austin . . . . .           | 51             | - 1       | 2.0                  | - .2      |
| FLA. Apalachicola . . . .  | 56             | + 1       | 3.9                  | + .6      | Glasgow . . . . .             | 25             | + 8       | .3                   | 0         | Beaumont . . . . .         | 53             | - 1       | 4.5                  | - .4      |
| Daytona Beach . . . . .    | 60             | 0         | 2.2                  | + .2      | Great Falls . . . . .         | 33             | + 6       | .6                   | - .1      | Brownsville . . . . .      | 61             | - 2       | .8                   | - .4      |
| Ft. Myers . . . . .        | 66             | + 1       | .9                   | - .4      | Havre . . . . .               | 29             | +11       | .4                   | 0         | Corpus Christi . . . . .   | 58             | - 1       | .8                   | - .7      |
| Jacksonville . . . . .     | 55             | 0         | 1.7                  | - .9      | Helena . . . . .              | 28             | + 5       | .3                   | - .3      | Del Rio . . . . .          | 51             | - 1       | 1.5                  | +1.0      |
| Key West . . . . .         | 72             | 0         | .3                   | -1.2      | Kalispell . . . . .           | 29             | + 5       | 1.2                  | - .3      | El Paso . . . . .          | 41             | - 3       | .9                   | + .4      |
| Lakeland . . . . .         | 61             | - 1       | 1.7                  | - .4      | Miles City . . . . .          | 27             | + 5       | .4                   | - .1      | Fort Worth . . . . .       | 47             | - 1       | 1.9                  | + .1      |
| Miami . . . . .            | 69             | + 1       | 1.2                  | - .4      | Missoula . . . . .            | 28             | + 3       | .7                   | - .4      | Galveston . . . . .        | 57             | 0         | 4.3                  | + .6      |
| Orlando . . . . .          | 61             | - 1       | 1.6                  | - .3      | NEBR. Grand Island . . . .    | 25             | - 2       | 1.3                  | + .7      | Houston . . . . .          | 55             | 0         | 3.4                  | - .6      |
| Tallahassee . . . . .      | 52             | - 1       | 3.8                  | - .4      | Norfolk . . . . .             | 27             | 0         | .7                   | 0         | Lubbock . . . . .          | 41             | 0         | .4                   | - .2      |
| Tampa . . . . .            | 62             | + 1       | 2.8                  | + .6      | N. Platte . . . . .           | 24             | - 3       | .4                   | 0         | Midland . . . . .          | 46             | 0         | .3                   | - .2      |
| W. Palm Beach . . . . .    | 67             | 0         | 2.6                  | + .4      | Omaha . . . . .               | 29             | + 3       | .8                   | 0         | San Angelo . . . . .       | 47             | - 1       | 1.4                  | + .7      |
| GA. Atlanta . . . . .      | 44             | 0         | 5.3                  | +1.1      | Valentine . . . . .           | 27             | + 3       | T                    | - .3      | San Antonio . . . . .      | 51             | - 2       | 1.4                  | + .9      |
| Augusta . . . . .          | 46             | 0         | 4.1                  | + .7      | NEV. Ely . . . . .            | 24             | - 2       | .3                   | - .4      | Victoria . . . . .         | 56             | 0         | 2.6                  | + .6      |
| Macon . . . . .            | 50             | + 2       | 3.7                  | - .6      | Las Vegas . . . . .           | 44             | - 1       | .6                   | + .2      | Waco . . . . .             | 46             | - 4       | 1.9                  | - .1      |
| Savannah . . . . .         | 53             | + 3       | 1.9                  | -1.4      | Reno . . . . .                | 31             | - 2       | .6                   | - .5      | Wichita Falls . . . . .    | 43             | - 1       | .9                   | - .4      |
| HAWAII. Hilo . . . . .     | 72             | 0         | 19.2                 | +3.4      | Winneucca . . . . .           | 29             | - 1       | 1.2                  | + .3      | UTAH. Blanding . . . . .   | 28             | - 2       | .6                   | - .7      |
| Honolulu . . . . .         | 76             | + 2       | .6                   | -3.1      | N. H. Concord . . . . .       | 27             | + 2       | 4.0                  | + .7      | Salt Lake City . . . . .   | 32             | + 2       | 1.3                  | - .1      |
| Kahului . . . . .          | 75             | + 2       | 3.7                  | + .9      | N. J. Atlantic City . . . . . | 39             | + 4       | 4.8                  | + .8      | VT. Burlington . . . . .   | 29             | + 6       | 2.1                  | - .1      |
| Lihue . . . . .            | 76             | + 3       | 1.6                  | -4.7      | Trenton . . . . .             | 39             | + 4       | 5.2                  | +1.9      | VA. Lynchburg . . . . .    | 39             | + 1       | 3.7                  | + .5      |
| IDAHO. Boise . . . . .     | 33             | + 1       | 1.7                  | + .3      | N. MEX. Albuquerque . . . .   | 32             | - 4       | .5                   | 0         | Norfolk . . . . .          | 46             | + 4       | 3.8                  | + .7      |
| Lewiston . . . . .         | 37             | + 2       | .8                   | - .5      | Roswell . . . . .             | 40             | + 1       | .6                   | + .1      | Richmond . . . . .         | 42             | + 3       | 4.2                  | +1.0      |
| Pocatello . . . . .        | 25             | - 2       | .9                   | - .1      | N. Y. Albany . . . . .        | 29             | + 3       | 2.6                  | - .3      | Roanoke . . . . .          | 39             | + 2       | 3.2                  | + .1      |
| ILL. Cairo . . . . .       | 39             | 0         | 2.6                  | -1.3      | Binghamton . . . . .          | 28             | + 3       | 3.1                  | + .3      | WASH. Colville . . . . .   | 31             | + 4       | 3.8                  | +1.6      |
| Chicago . . . . .          | 31             | + 2       | 2.4                  | + .3      | Buffalo . . . . .             | 32             | + 4       | 3.1                  | + .1      | Omak . . . . .             | 30             | + 3       | 2.3                  | + .7      |
| Moline . . . . .           | 29             | + 2       | 1.8                  | 0         | New York . . . . .            | 40             | + 4       | 6.4                  | +2.8      | Quillayute . . . . .       | 44             | + 3       | 19.1                 | +3.5      |
| Peoria . . . . .           | 30             | + 2       | 1.9                  | 0         | Rochester . . . . .           | 31             | + 3       | 2.9                  | + .5      | Seattle-Tacoma . . . . .   | 43             | + 2       | 6.5                  | + .6      |
| Rockford . . . . .         | 27             | + 2       | 1.6                  | - .1      | Syracuse . . . . .            | 30             | + 2       | 3.5                  | + .4      | Spokane . . . . .          | 30             | + 1       | 2.5                  | + .1      |
| Springfield . . . . .      | 33             | + 2       | 1.4                  | - .5      | N. C. Asheville . . . . .     | 40             | + 1       | 2.4                  | -1.2      | Walla Walla . . . . .      | 42             | + 5       | 2.0                  | 0         |
| IND. Evansville . . . . .  | 37             | + 2       | 3.0                  | - .3      | Charlotte . . . . .           | 42             | - 1       | 3.8                  | + .4      | Yakima . . . . .           | 35             | + 4       | 1.1                  | - .1      |
| Ft. Wayne . . . . .        | 30             | + 1       | 2.6                  | + .4      | Greensboro . . . . .          | 42             | + 2       | 4.2                  | +1.0      | W. Va. Beckley . . . . .   | 34             | + 1       | 3.5                  | + .2      |
| Indianapolis . . . . .     | 33             | + 2       | 2.8                  | + .1      | Hatteras . . . . .            | 50             | + 2       | 5.1                  | + .6      | Charleston . . . . .       | 37             | + 1       | 3.2                  | 0         |
| South Bend . . . . .       | 33             | + 5       | 3.0                  | + .5      | Raleigh . . . . .             | 43             | + 2       | 4.0                  | + .9      | Huntington . . . . .       | 39             | + 3       | 2.9                  | - .1      |
| IOWA. Burlington . . . . . | 29             | + 1       | 1.2                  | - .4      | Wilmington . . . . .          | 50             | + 2       | 3.7                  | + .3      | Parkersburg . . . . .      | 37             | + 2       | 3.3                  | + .5      |
| Des Moines . . . . .       | 28             | + 3       | 1.8                  | + .7      | N. DAK. Bismarck . . . . .    | 18             | + 2       | .5                   | 0         | WIS. Green Bay . . . . .   | 25             | + 4       | 1.7                  | + .4      |
| Dubuque . . . . .          | 26             | + 3       | 1.5                  | - .4      | Fargo . . . . .               | 21             | + 8       | .3                   | - .3      | La Crosse . . . . .        | 27             | + 5       | 1.4                  | + .4      |
| Sioux City . . . . .       | 25             | + 1       | .5                   | - .3      | Williston . . . . .           | 23             | + 8       | .3                   | - .2      | Madison . . . . .          | 27             | + 5       | 1.8                  | + .3      |
| KANS. Concordia . . . . .  | 32             | + 2       | .5                   | - .3      | OHIO. Akron-Canton . . . . .  | 32             | + 3       | 4.3                  | +1.9      | Milwaukee . . . . .        | 29             | + 5       | 2.1                  | + .3      |
| Dodge City . . . . .       | 34             | + 0       | .3                   | - .2      | Cincinnati . . . . .          | 34             | + 1       | 3.8                  | + .9      | WYO. Casper . . . . .      | 24             | - 2       | .2                   | - .3      |
| Goodland . . . . .         | 30             | 0         | .4                   | 0         | Cleveland . . . . .           | 32             | + 2       | 4.9                  | +2.5      | Cheyenne . . . . .         | 27             | - 2       | .1                   | - .3      |
| Topeka . . . . .           | 33             | + 1       | 1.2                  | - .3      | Columbus . . . . .            | 34             | + 3       | 2.7                  | + .3      | Lander . . . . .           | 20             | + 3       | .7                   | + .2      |
| Wichita . . . . .          | 35             | 0         | 2.2                  | +1.1      | Dayton . . . . .              | 33             | + 2       | 2.9                  | + .6      | Sheridan . . . . .         | 27             | + 1       | .2                   | - .5      |
| KY. Lexington . . . . .    | 38             | + 2       | 3.7                  | + .1      | Toledo . . . . .              | 29             | + 1       | 3.4                  | +1.2      | P. R. San Juan . . . . .   | 78             | + 1       | 3.9                  | - .8      |
| Louisville . . . . .       | 39             | + 3       | 2.9                  | - .4      |                               |                |           |                      |           |                            |                |           |                      |           |

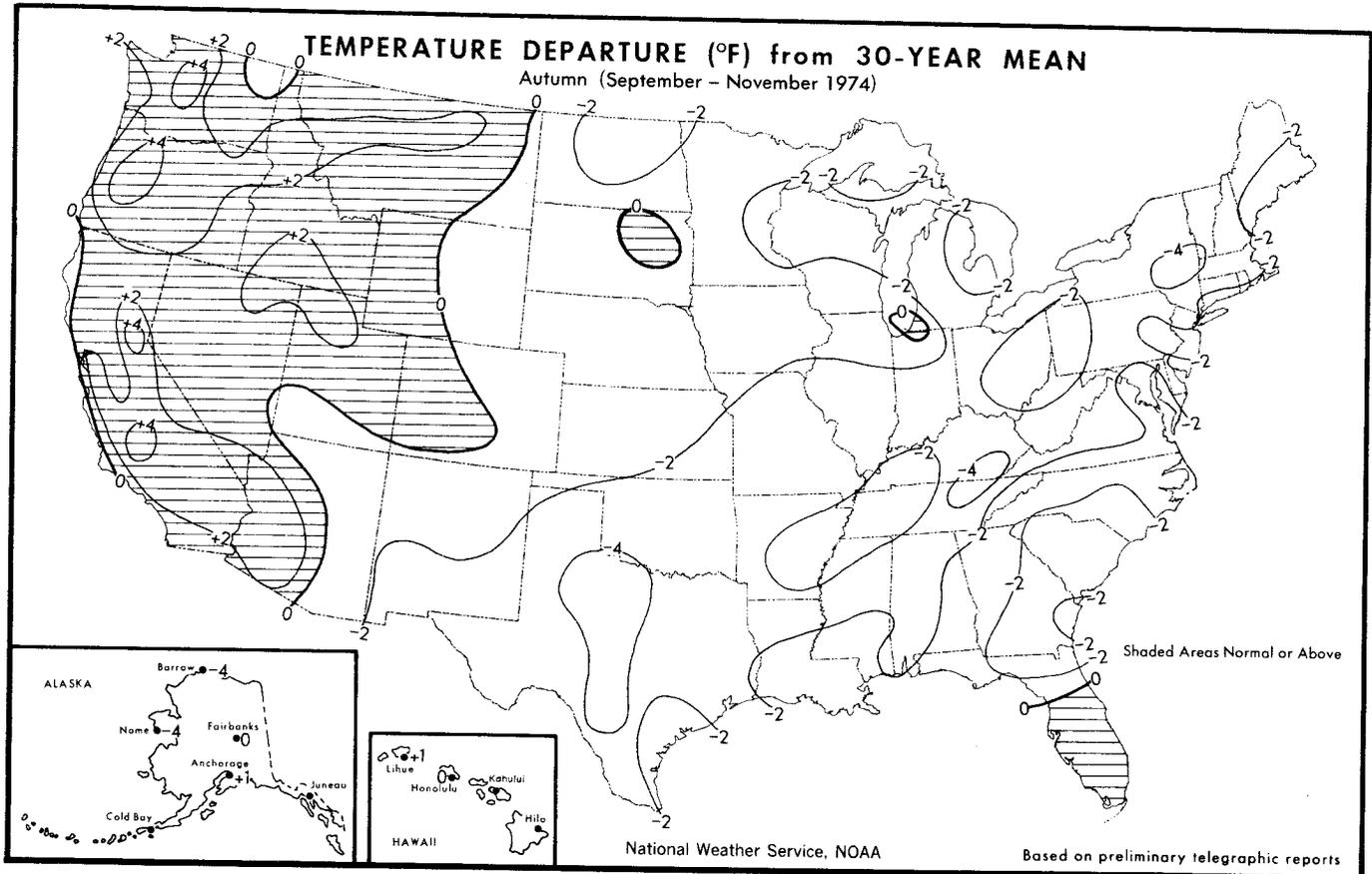
Based on 1941-70 Normals

Heating Degree Days (Base 65° F.)

December 1974

|                              |      |                               |      |                             |      |
|------------------------------|------|-------------------------------|------|-----------------------------|------|
| ALA. Birmingham . . . . .    | 542  | MAINE, Caribou . . . . .      | 1431 | OKLA. Okla. City . . . . .  | 784  |
| Mobile . . . . .             | 336  | Portland . . . . .            | 1071 | Tulsa . . . . .             | 777  |
| Montgomery . . . . .         | 452  | MD. Baltimore . . . . .       | 759  | OREG. Astoria . . . . .     | 596  |
| ALASKA, Anchorage . . . . .  | 1425 | MASS. Boston . . . . .        | 836  | Burns U. . . . .            | 1128 |
| Barrow . . . . .             | 2848 | Chatham . . . . .             | 833  | Medford . . . . .           | 1803 |
| Fairbanks . . . . .          | 2370 | MICH. Alpena . . . . .        | 1140 | Pendleton . . . . .         | 749  |
| Juneau . . . . .             | 957  | Detroit . . . . .             | 1123 | Portland . . . . .          | 640  |
| Nome . . . . .               | 2214 | Flint . . . . .               | 1096 | Salem . . . . .             | 674  |
| ARIZ. Flagstaff . . . . .    | 1178 | Grand Rapids . . . . .        | 1127 | PA. Allentown . . . . .     | 917  |
| Phoenix . . . . .            | 439  | Houghton Lake . . . . .       | 1197 | Erie . . . . .              | 1046 |
| Tucson . . . . .             | 552  | Lansing . . . . .             | 1099 | Harrisburg . . . . .        | 911  |
| Winslow . . . . .            | 1099 | Marquette U . . . . .         | 1097 | Philadelphia . . . . .      | 786  |
| Yuma . . . . .               | 359  | S. Ste. Marie . . . . .       | 1260 | Pittsburgh . . . . .        | 1001 |
| ARK. Fort Smith . . . . .    | 761  | MINN. Duluth . . . . .        | 1404 | Scranton . . . . .          | 941  |
| Little Rock . . . . .        | 634  | Internatl Falls . . . . .     | 1491 | R. I. Providence . . . . .  | 899  |
| CALIF. Bakersfield . . . . . | 558  | Minneapolis . . . . .         | 1254 | S. C. Charleston . . . . .  | 432  |
| Eureka U. . . . .            | 501  | Rochester . . . . .           | 1317 | Columbia . . . . .          | 521  |
| Fresno . . . . .             | 628  | St. Cloud . . . . .           | 1369 | Greenville . . . . .        | 663  |
| Los Angeles U . . . . .      | 268  | MISS. Jackson . . . . .       | 466  | S. DAK. Aberdeen . . . . .  | 1302 |
| Red Bluff . . . . .          | 645  | Meridian . . . . .            | 461  | Huron . . . . .             | 1293 |
| Stockton . . . . .           | 639  | Vicksburg U . . . . .         | ---- | Rapid City . . . . .        | 1112 |
| San Diego . . . . .          | 265  | MO. Columbia . . . . .        | 1016 | Sioux Falls . . . . .       | 1279 |
| San Francisco . . . . .      | 499  | Kansas City . . . . .         | 1009 | TENN. Chattanooga . . . . . | 746  |
| COLO. Denver . . . . .       | 1043 | St. Louis . . . . .           | 954  | Knoxville . . . . .         | 713  |
| Grand Junction . . . . .     | 1167 | Springfield . . . . .         | 899  | Memphis . . . . .           | 607  |
| Pueblo . . . . .             | 1118 | MONT. Billings . . . . .      | 1079 | Nashville . . . . .         | 685  |
| CONN. Bridgeport . . . . .   | 846  | Glasgow . . . . .             | 1232 | TEX. Abilene . . . . .      | 631  |
| Hartford . . . . .           | 1057 | Great Falls . . . . .         | 1000 | Amarillo . . . . .          | 890  |
| D. C. Washington . . . . .   | 674  | Havre . . . . .               | 1109 | Austin . . . . .            | 441  |
| FLA. Apalachicola . . . . .  | 286  | Helena . . . . .              | 1149 | Beaumont . . . . .          | 384  |
| Ft. Myers . . . . .          | 74   | Kalispell . . . . .           | 1109 | Brownsville . . . . .       | 169  |
| Jacksonville . . . . .       | 321  | Miles City . . . . .          | 1166 | Corpus Christi . . . . .    | 260  |
| Key West . . . . .           | 4    | Missoula . . . . .            | 1147 | Dallas . . . . .            | ---- |
| Lakeland U. . . . .          | 151  | NEBR. Grand Island . . . . .  | 1229 | Del Rio . . . . .           | 431  |
| Miami . . . . .              | 32   | Lincoln . . . . .             | 1177 | El Paso . . . . .           | 721  |
| Orlando . . . . .            | 163  | Norfolk . . . . .             | 1208 | Fort Worth . . . . .        | 546  |
| Daytona Beach . . . . .      | 286  | North Platte . . . . .        | 1266 | Galveston U. . . . .        | 254  |
| Tallahassee . . . . .        | 398  | Omaha . . . . .               | 1115 | Houston . . . . .           | 336  |
| Tampa . . . . .              | 138  | Valentine . . . . .           | 1162 | Lubbock . . . . .           | 573  |
| GA. Atlanta . . . . .        | 633  | NEV. Ely . . . . .            | 1250 | Midland . . . . .           | 594  |
| Augusta . . . . .            | 588  | Las Vegas . . . . .           | 637  | San Angelo . . . . .        | 560  |
| Macon . . . . .              | 469  | Reno . . . . .                | 1046 | San Antonio . . . . .       | 433  |
| Savannah . . . . .           | 368  | Winnemucca . . . . .          | 1330 | Victoria . . . . .          | 286  |
| IDAHO, Boise . . . . .       | 984  | N. H. Concord . . . . .       | 1182 | Waco . . . . .              | 578  |
| Lewiston . . . . .           | 852  | N. J. Atlantic City . . . . . | 799  | Wichita Falls . . . . .     | 673  |
| Pocatello . . . . .          | 1247 | Trenton U . . . . .           | 785  | UTAH, Blanding R . . . . .  | ---- |
| ILL. Cairo U. . . . .        | 796  | N. MEX. Albuquerque . . . . . | 1020 | Salt Lake City . . . . .    | 1025 |
| Chicago . . . . .            | 1041 | Roswell . . . . .             | 784  | VT. Burlington . . . . .    | 1128 |
| Moline . . . . .             | 1122 | N. Y. Albany . . . . .        | 1113 | VA. Lynchburg . . . . .     | 799  |
| Peoria . . . . .             | 1081 | Binghamton . . . . .          | 1144 | Norfolk . . . . .           | 584  |
| Rockford . . . . .           | 1179 | Buffalo . . . . .             | 1024 | Richmond . . . . .          | 715  |
| Springfield . . . . .        | 996  | New York . . . . .            | 783  | Roanoke . . . . .           | 801  |
| IND. Evansville . . . . .    | 865  | Rochester . . . . .           | 1034 | WASH. Colville . . . . .    | 1045 |
| Fort Wayne . . . . .         | 1086 | Syracuse . . . . .            | 1069 | Omak . . . . .              | ---- |
| Indianapolis . . . . .       | 988  | N. C. Asheville . . . . .     | 760  | Quillayute . . . . .        | 656  |
| South Bend . . . . .         | 984  | Charlotte . . . . .           | 699  | Seattle-Tacoma . . . . .    | 690  |
| IOWA, Burlington . . . . .   | 1086 | Greensboro . . . . .          | 711  | Spokane . . . . .           | 1062 |
| Des Moines . . . . .         | 1131 | Hatteras R. . . . .           | 459  | Walla Walla U. . . . .      | 980  |
| Dubuque . . . . .            | 1220 | Raleigh . . . . .             | 669  | Yakima . . . . .            | 917  |
| Sioux City . . . . .         | 1241 | Wilmington . . . . .          | 473  | W. VA. Beckley . . . . .    | 943  |
| KANS. Concordia . . . . .    | 1005 | N. DAK. Bismarck . . . . .    | 1466 | Charleston . . . . .        | 869  |
| Dodge City . . . . .         | 963  | Fargo . . . . .               | 1362 | Huntington . . . . .        | 812  |
| Goodland . . . . .           | 1099 | Williston U . . . . .         | 1294 | Parkersburg U. . . . .      | 857  |
| Topeka . . . . .             | 990  | OHIO. Akron-Canton . . . . .  | 1029 | WIS. Green Bay . . . . .    | 1248 |
| Wichita . . . . .            | 920  | Cincinnati U. . . . .         | 942  | Madison . . . . .           | 1179 |
| KY. Lexington . . . . .      | 836  | Cleveland . . . . .           | 1026 | Milwaukee . . . . .         | 1103 |
| Louisville . . . . .         | 794  | Columbus . . . . .            | 954  | WYO. Casper . . . . .       | 1253 |
| LA. Baton Rouge . . . . .    | 361  | Dayton . . . . .              | 988  | Cheyenne . . . . .          | 1180 |
| Lake Charles . . . . .       | 348  | Toledo . . . . .              | 1108 | Lander . . . . .            | 1401 |
| New Orleans . . . . .        | 341  | Youngstown . . . . .          | 1064 | Sheridan . . . . .          | 1178 |
| Shreveport . . . . .         | 541  |                               |      |                             |      |

Preliminary reports from airport locations, except those marked U for urban and R for rural.  
\*Estimated.



### FALL 1974

**HIGHLIGHTS:** Fall temperatures averaged below normal east of the Rockies and above normal over the western States. The greatest departures occurred in north central Texas which averaged 4° below normal and in the valleys of Oregon and Washington which were 4° warmer than usual.

Precipitation totals for the period ranged from a record 25.5 in. at Tulsa, Okla. to only 0.20 in. at Yuma, Ariz., which is only 30 percent of normal but by no means a record. Record totals were received at several locations in Texas and New Mexico as rainfall was well above normal across Oklahoma, Texas, New Mexico and Arizona.

Very dry areas included eastern South Dakota and central Nebraska, northern Montana and North Dakota, and the coasts of California, Georgia, Maryland and southwestern Florida.

**PRECIPITATION:** Rainfall amounts were generally light during September except in the Southeast. Hurricane Carmen moved into the Louisiana coast the morning of the 8th. Although relatively light by hurricane standards, 2.00 to 5.00 in. fell over much of Louisiana and parts of Mississippi, Alabama and Georgia. Warm moist air moving into the Southwest from Baja California also dropped heavy rains over western Texas and New Mexico.

Rainfall was highly variable during October with some normally dry areas very wet and some usually wet areas very dry. Twice the normal rainfall fell over Oklahoma, Texas and much of the Desert Southwest, with heaviest amounts late in the month. Most of the Southeast and the Pacific Northwest received less than half the normal amount of rainfall. Good rains across much of the Corn Belt helped to replenish soil moisture levels.

Record breaking rains fell again in parts of

Texas and Oklahoma during November. Precipitation was very light in most western States and the upper Great Plains. Tulsa, Okla. received 7.30 in, which is 406 percent of normal; Austin, Texas 7.35 in.

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 Peru, Ind. As much as 2 feet of snow fell over the northern Great Lakes. New England's first major snowstorm struck on the 20th, leaving a foot of snow in northern areas.

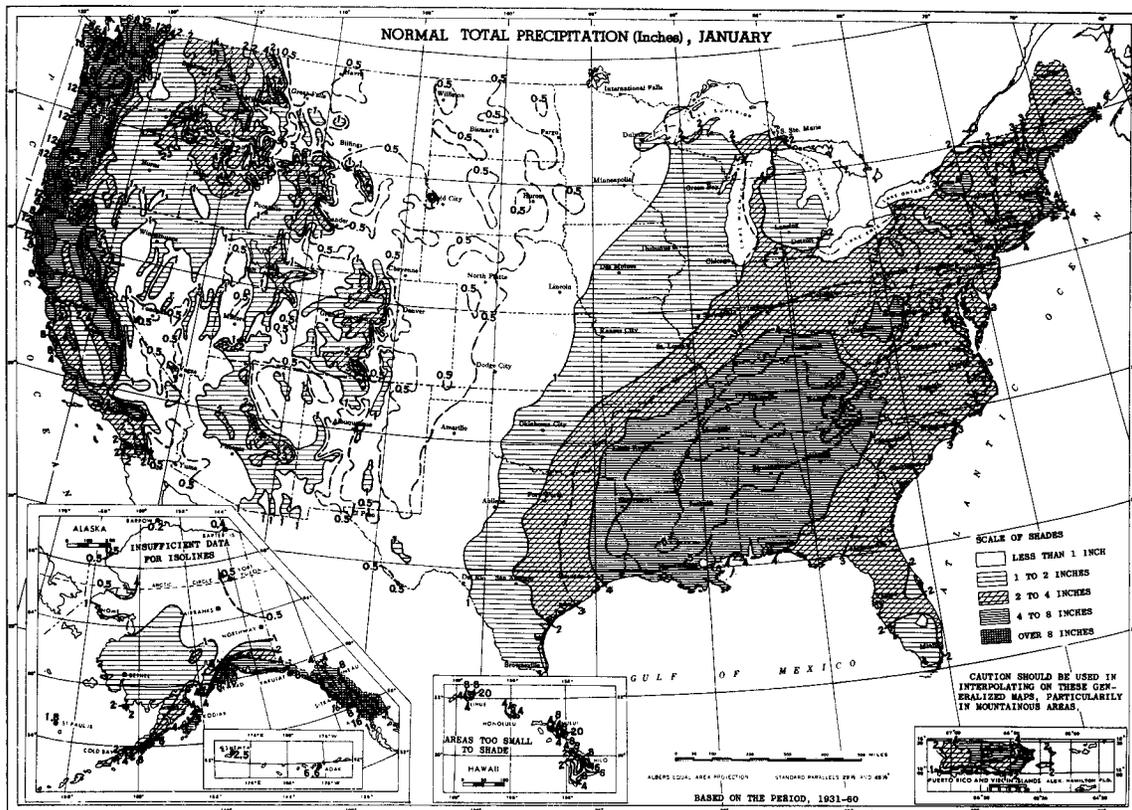
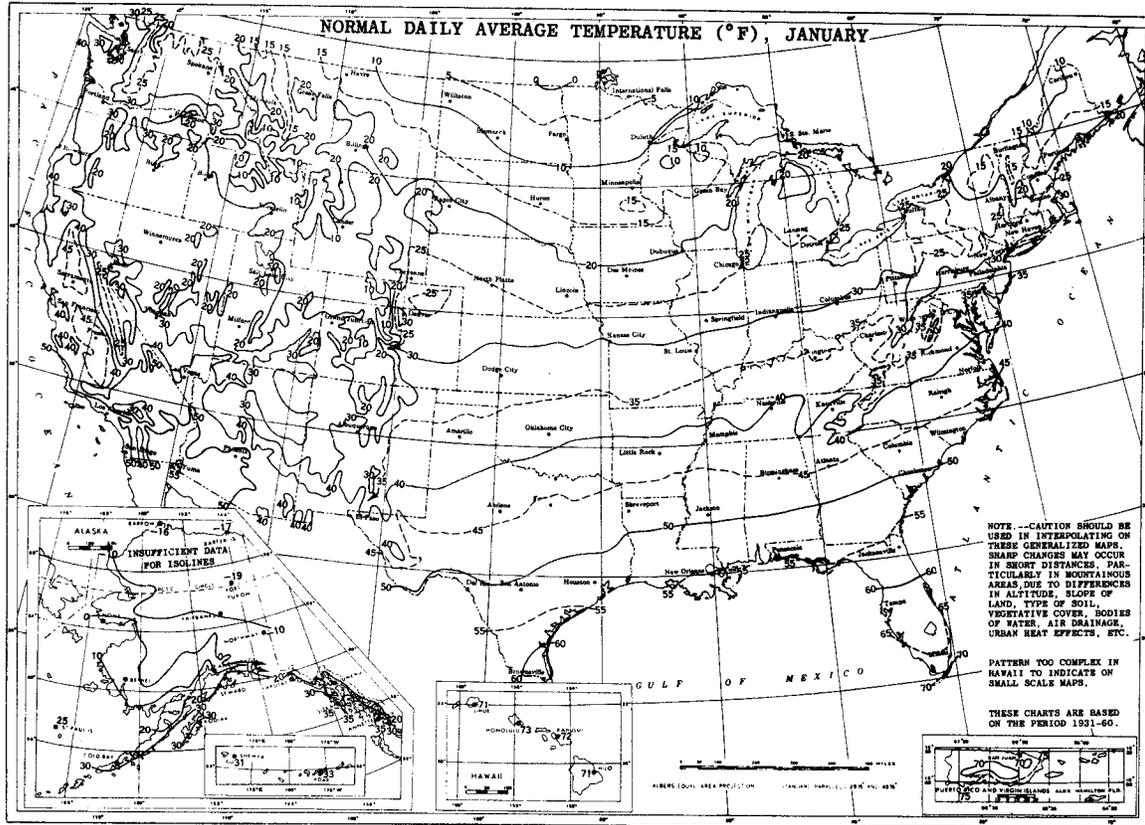
**TEMPERATURE:** September was an exceptionally cool month across most of the country with record early frosts in many areas. The Corn Belt averaged from 2 to 6° below normal while the southern Great Plains and Desert Southwest averaged 6 to 10° below normal.

Light frost hit parts of five States early on the 3d: Iowa, Minnesota, the Dakota's and Nebraska. Subfreezing temperatures on the morning of the 22d and 23d halted growth over the northern half of the Corn Belt.

The remainder of the Corn Belt was struck by frost on the 2d of October. Overall, October temperatures were slightly above normal west of the Mississippi, but considerably below normal in the East. The month began with cool Canadian air covering the Nation. Temperatures warmed near normal for a brief period, but then cooled again. However, the month ended with record warmth across the eastern half of the Nation.

Temperatures were generally near normal over most of the Nation in November, with most areas slightly above the norm.









# FIRST CLASS MAIL

Total Annual Subscriptions: \$5.00 in U.S. and possessions, \$6.50 including domestic airmail, \$11.25 including foreign airmail. For December through March issues only, \$1.50, \$2.00 with domestic airmail, \$3.50 with foreign airmail. Make checks payable to Department of Commerce, NOAA.

Publication of this bulletin began in 1872 as the Weekly Weather Chronicle. It is now issued under general authority contained in the Act of January 12, 1895 (44 USC 213), 53d Cong., III. Sess. Quotation or reproduction of this material is encouraged. Please give credit to this publication and, in case of special articles, to authors.

Please send subscriptions and any questions or comments to the Editor at above address.

## SPECIAL ITEMS IN THIS ISSUE

| Item                           | Page  |
|--------------------------------|-------|
| Previous Week's Table and Maps | 14-15 |
| December Weather Summary       | 16-18 |
| Fall 1974 (Seasonal Summary)   | 20-21 |
| Average Monthly Outlook        | 23    |