

WEEKLY WEATHER AND CROP BULLETIN

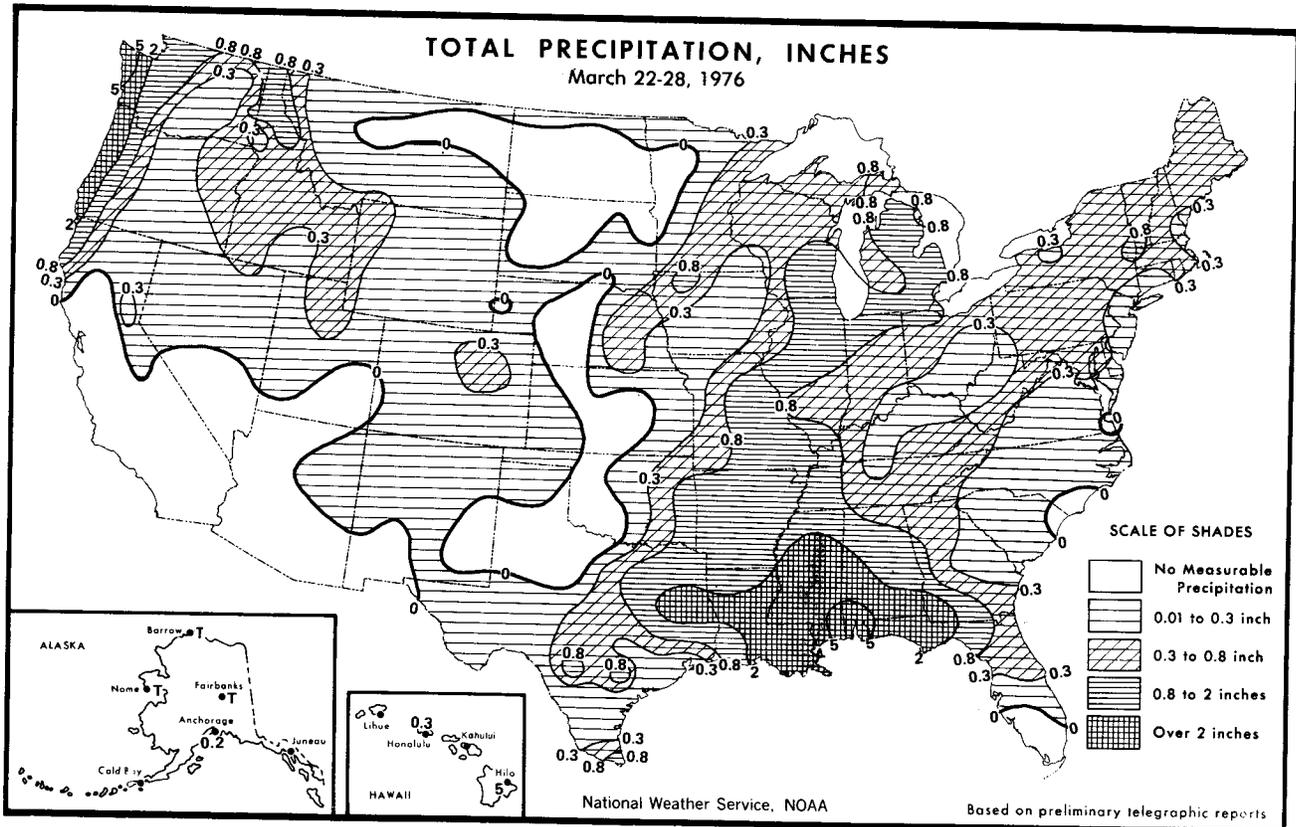
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National Weather Summary

For the week of March 22-28

HIGHLIGHTS: Blamed for a large share of the significant weekly precipitation in eastern U.S., moisture-laden Gulf air streaming northward produced severe thunderstorms and damaging tornadoes from Texas into the middle Mississippi Valley. Meantime vigorous winds churned across western U.S., where weekly temperatures averaged as high as 14° above normal in the central Plains. In contrast, slightly cooler air trailed a Pacific Cold front moving slowly across the northern Rockies.

After a weekend of widespread severe weather, fair skies greeted most of the Nation on Monday. Limited precipitation at sunrise included widely scattered snow flurries along the eastern end of the Great Lakes.

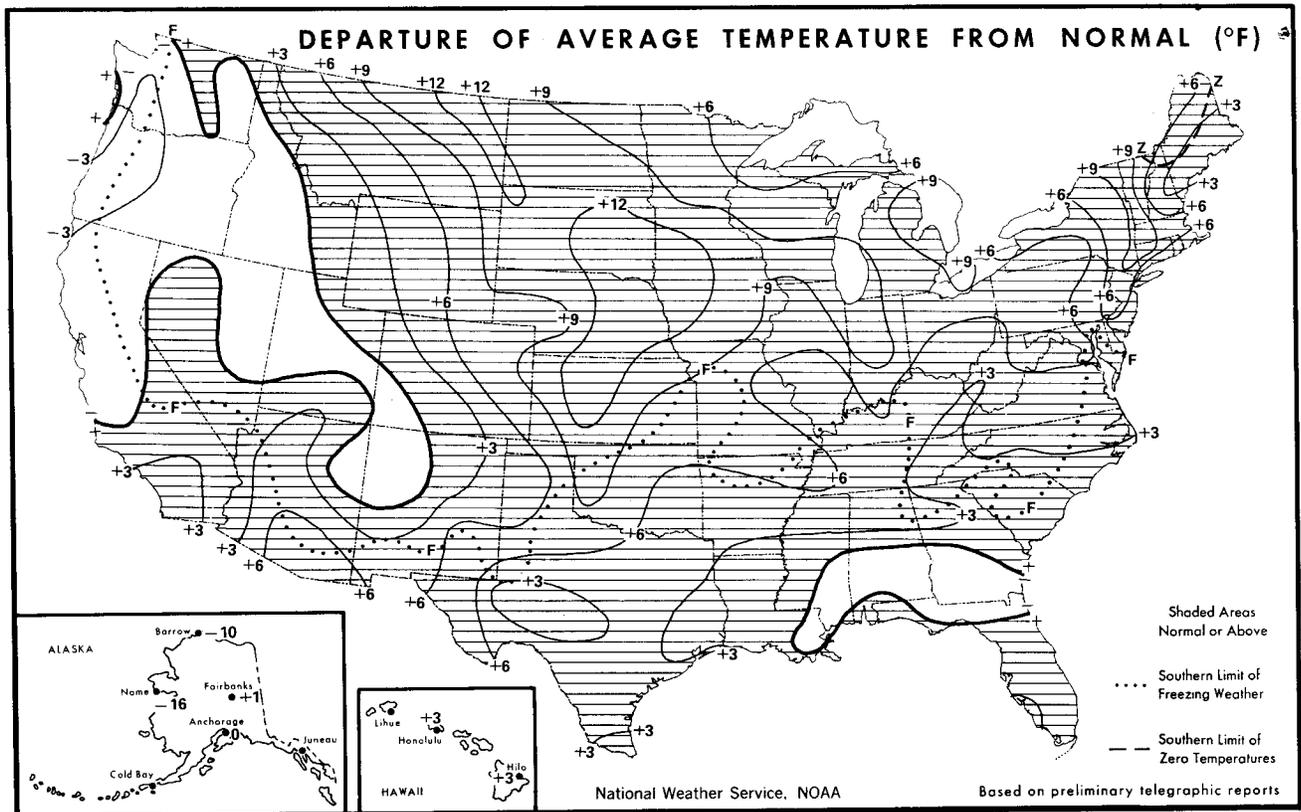
Confined to four areas, afternoon showers occurred from the Carolina Coast through eastern Georgia into Florida and also in southeast Texas. Other shower activity drifted from Arkansas into

Missouri, southern Illinois, and southern Indiana. Responsible for a final moisture area, a Pacific frontal system spread showers from the Northwest into Idaho and Montana and south to California.

Rather cool daytime temperatures over most of the eastern U.S. ranged from the teens and 20's in the North to 50's and 60's in the South. Florida's mercury pushed into the 80's in central and southern areas. Colder evening air guaranteed a chilly night for the Northeast; temperatures ranged from the 20's in Pennsylvania and southern sections of New York and New England to -10° in northern Maine.

In the northwest quarter of the Nation, target of the most nighttime precipitation, rain extended from the Coast into western Montana and southward through northern California.

Tuesday opened as a fair, springlike day across most of the Nation. Brisk air blasts ahead of a cold front swept mild temperatures northward through the Plains and Mississippi Valley: 50's



in North Dakota, Minnesota, and Wisconsin and 70's in Nebraska.

Meantime the cold front stretching from the upper Great Lakes through the central Plains into Arizona pushed cooler air southeastward, but failed to trigger any precipitation. In eastern U.S. seasonable readings prevailed, from 30's and 40's in the North to 70's and 80's in the South.

Though a nearly stationary high pressure system acted as an umbrella for areas east of the Mississippi, precipitation elsewhere ranged from a few thundershowers in southern Texas, scattered rain-showers over the Florida peninsula, snow showers in parts of Montana and Idaho, and some rain in northwestern Washington.

Moist Gulf air flowing northward on Wednesday touched off thundershowers in Texas that penetrated the middle and lower Mississippi Valley. Considerable precipitation in the Northwest occurred as showers--with snow in the mountains--from the Pacific Coast into the northern half of the Rocky Mountain region. Strong winds accompanied another in a series of Pacific cold fronts that churned through northwestern U.S. into the central intermountain region.

In the Midwest colder temperatures trailed a cold front that hustled southeastward over the middle Mississippi Valley. In the extreme northern Plains the mercury halted in the 30's.

On Thursday, the strong cold front joined forces with a high pressure system to prolong forceful winds in western U.S. Air blasts out of the Southwest sent afternoon temperatures soaring into the 80's over the west central and southwest Plains.

Forecasters put travelers on the lookout for local blowing and drifting snow in the northern mountains of Utah, where gusts hit 80 mph. Centered over northern Kansas, a low pressure system generated strong winds over much of the central

Plains, but little moisture fell.

As more moisture-laden air streamed northward from the Gulf, heavy rains soaked southern Louisiana and a tornado touched down near Houston, Tex. Unseasonably mild temperatures covered a large portion of the Nation from the Great Plains to the Atlantic Coast--from the low 70's in southern Oklahoma to the upper 50's in southwest Wisconsin.

Racing swiftly across the Nation, the vigorous cold front ignited severe thunderstorms and tornadoes in the middle and lower Mississippi Valley. Tornadoes totaling 24 resulted in five reported deaths. Heavy rains pushed rivers in Alabama above flood stage. Reports of funnel clouds and hail were numerous, though Illinois seemed hardest hit by wind damage.

Ahead of the cold front warm air rushing northward from the Gulf to the Great Lakes produced record high readings: Alpena, Mich. 67° and Chicago, Ill. 77°. Amid the colder air behind the front, however, temperatures dropped sharply. Parts of the southwestern Plains measured readings in the 30's and 40's, compared to the 80's and low 90's on Thursday.

Most of Saturday's severe weather appeared in Alabama and Mississippi, as lines of thunderstorms passed through the area in the morning. A larger area of daytime shower activity extended from the lower Great Lakes through the Carolina Coast and eastward to New England. West of the Rockies, snow showers whitened the landscape from western Montana through portions of Idaho and Nevada.

Sunday's pattern of pressure systems produced gusty northwestern winds along the Pacific Coast from Mexico to Canada. Only a minimum of severe weather occurred. As the complex frontal system began to wind down over central U.S., showers and thundershowers ranged from the Mississippi Valley into the central and southern Plains.

National Agricultural Summary

For the week of March 22-28

HIGHLIGHTS: Temperature far above normal melted snow and removed frost from soils except in the most extreme northern areas. Fieldwork, including plowing and disking, advanced far ahead for this time of spring. Corn planting extended into Tennessee and spring grain seeding advanced into South Dakota. Winter wheat headed in Florida and south Texas and broke dormancy in Wyoming and Montana.

SMALL GRAINS: Seeding of oats extended across the Corn Belt into South Dakota. Planting was far advanced, ranging from 50% complete in Illinois to 75% in Kansas. In Missouri 71% of the oats crop was sown, compared with 28% average. In California some early planted spring grains need moisture and some were past recovery.

The winter wheat crop was again subjected to powerful winds on the eastern slopes of the Rocky Mountains and in the western Great Plains from Colorado and Kansas to Montana and the Dakotas. The crop remained in fair to poor condition in the Oklahoma Panhandle and adjacent areas of Colorado, Kansas, New Mexico, and Texas. Elsewhere winter wheat was in good to excellent condition.

In Texas, wheat was fair in the High and Low Plains but excellent in eastern areas. Farmers sprayed to control greenbugs in the High Plains. Stands were heading from the Blacklands southward but crop prospects were poor. The Oklahoma crop, exposed to warm, dry, high winds, deteriorated except where moisture was adequate. A third of the acreage entered the jointing stage, about average for the date, but ahead of a year earlier. Wheat showed moisture stress in the west but eastern acreages looked good.

High winds deteriorated the Colorado wheat crop, which is now in poor condition. The New Mexico dry-land wheat was poor but irrigated wheat was fair to good. Wheat condition remained unchanged in Kansas, where scattered showers offset wind damage. Vegetative cover was short in the west. Cutworms, greenbugs, and winterkill were evident.

Winter wheat was breaking dormancy in Wyoming and southern Montana. In Washington warm weather is needed but the crop is in good condition. The wheat crop was in good condition throughout the eastern third of the Nation.

OTHER CROPS: Corn planting extended across the south and up the Atlantic Coast to southern Virginia. Corn planting was 25% complete in Texas and Louisiana, 22% in South Carolina, and 16% in Mississippi. In some areas planting was 1 to 2 weeks earlier than normal.

Cotton planting was active in Texas, Arizona, and California. In Oklahoma 80% of the cotton land was ready to plant. In Texas cotton stands emerged and made good growth in the Coastal Bend, South Texas, and the Lower Rio Grande Valley. Adequate moisture for planting was available from the Blacklands to the Upper Gulf Coast. In Arizona first plantings emerged and planting and preplant

irrigation continued. Planting was active in California desert areas but slow in the San Joaquin Valley.

Texas sorghum made excellent growth from the Blacklands to the Lower Rio Grande Valley. Planting progressed rapidly to 41% complete, compared with 31% in 1975 and 32% average.

Rice seeding advanced to 16% complete in Louisiana compared with 23% in 1975 and 14% average. In Texas rice planting gained momentum.

Tobacco transplanting made headway from Florida to South Carolina; transplanting in Georgia was 35% complete. Farther north in Tennessee, West Virginia, and Kentucky, farmers seeded plant beds. In Virginia, growers prepared land for transplanting.

Sugarcane harvest was nearly complete in Florida. Young cane was in good condition in Louisiana and Florida. The sugarbeet crop was only 1% planted in Colorado. In Arizona sugarbeets developed a good taproot but disease symptoms persisted.

FRUITS AND NUTS: Growers pruned and cleaned orchards in northern production areas in Virginia, Michigan, and Washington. Only a few areas sustained severe damage from earlier cold weather. The degree of damage depended on stage of bloom development. The peach crop was in good condition throughout the United States except in the Texas High and Low Plains. In the California Napa Valley growers readied wind machines to prevent frost damage.

Citrus fruits moved to market from Florida, Texas, Arizona, and California. The citrus bloom was almost ended. Texas pecans began to break open buds as far north as Central Texas and Cross-Timbers. In California grape vines leafed out.

VEGETABLES: Growers planted spring vegetable crops in California and southeastern United States. An increasing volume of Louisiana strawberries moved to market. In Arizona lettuce and other miscellaneous vegetable harvests were active. Almost half of the South Carolina watermelon crop was planted, along with other spring vegetables. In Florida, total vegetable volume increased 2% but cabbage shipments declined 12%. Wind burn and frost damage occurred on some watermelons but the crop was in fair to good condition. Harvest should begin around mid-April.

In Texas, onion, cabbage, and carrot harvests were active in the Lower Rio Grande Valley and San-Antonio-Winter Garden areas. Elsewhere, pepper, onion, and potato plantings were active. Rains perked up vegetables and melons.

PASTURE AND LIVESTOCK: Greening of pastures advanced northward as a result of mild temperatures. Grasslands in Illinois provided up to 25% of cattle roughage requirements. At higher western elevations ranges remained dormant. Cattle condition was fair to good and improving on the new pasture growth. Calving and lambing continued with no unusual problems or losses.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., March 28, 1976

| 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 . . . | 59 | + 3 | 1.6 | + .2 | LA. Baton Rouge . . . | 63 | + 1 | 3.3 | +2.1 | Youngstown . . . | 46 | + 7 | .4 | - .4 |
| Mobile . . . | 63 | + 1 | 6.6 | +4.9 | Lake Charles . . . | 64 | + 1 | 1.3 | + .5 | OKLA. Okla. City . . . | 58 | + 7 | .1 | - .4 |
| Montgomery . . . | 58 | - 1 | 1.4 | 0 | New Orleans . . . | 62 | - 1 | 2.2 | +1.0 | Tulsa . . . | 57 | + 6 | .8 | + .1 |
| ALASKA. Anchorage . . . | 26 | 0 | .2 | + .1 | Shreveport . . . | 62 | + 3 | 1.3 | + .3 | OREG. Astoria . . . | 45 | 0 | 3.1 | +1.7 |
| Barrow . . . | -23 | -10 | T | - .1 | MAINE. Caribou . . . | 33 | + 6 | .6 | + .1 | Burns . . . | 36 | - 2 | .3 | + .1 |
| Fairbanks . . . | 15 | + 1 | T | - .1 | Portland . . . | 38 | + 3 | .3 | - .5 | Medford . . . | 43 | - 3 | .3 | 0 |
| Juneau . . . | --- | --- | --- | --- | MD. Baltimore . . . | 52 | + 6 | .3 | - .5 | Pendleton . . . | 45 | 0 | .6 | + .4 |
| Kodiak . . . | --- | --- | --- | --- | MASS. Boston . . . | 48 | + 7 | .2 | - .7 | Portland . . . | 44 | - 3 | 1.3 | + .6 |
| Nome . . . | 7 | -16 | T | - .1 | Chatham . . . | --- | --- | --- | --- | Salem . . . | 43 | - 3 | 2.1 | +1.2 |
| ARIZ. Flagstaff . . . | 41 | + 5 | T | - .4 | MICH. Alpena . . . | 41 | +11 | .6 | + .1 | PA. Allentown . . . | 47 | + 6 | .2 | - .6 |
| Phoenix . . . | 68 | + 6 | 0 | - .1 | Detroit . . . | 46 | + 7 | .8 | + .2 | Erie . . . | 42 | + 6 | .6 | - .1 |
| Tucson . . . | 65 | + 6 | 0 | - .1 | Flint . . . | 45 | + 9 | 1.1 | + .6 | Harrisburg . . . | 50 | + 6 | .5 | - .2 |
| Winslow . . . | 47 | 0 | T | - .1 | Grand Rapids . . . | 46 | + 9 | .5 | - .2 | Philadelphia . . . | 52 | + 7 | .2 | - .6 |
| Yuma . . . | 68 | + 2 | 0 | 0 | Houghton Lake . . . | 40 | + 9 | 1.0 | + .6 | Pittsburgh . . . | 48 | + 6 | .3 | - .5 |
| ARK. Fort Smith . . . | 57 | + 4 | 1.1 | + .2 | Lansing . . . | 45 | + 8 | .8 | + .2 | Scranton . . . | 46 | + 6 | .4 | - .2 |
| Little Rock . . . | 57 | + 4 | 1.3 | + .2 | Marquette . . . | 37 | + 6 | .3 | - .2 | R. I. Providence . . . | 45 | + 5 | .5 | - .4 |
| CALIF. Bakersfield . . . | 58 | 0 | 0 | - .2 | Muskegon . . . | 45 | + 9 | .6 | 0 | S. C. Charleston . . . | 60 | + 1 | T | -1.0 |
| Eureka . . . | 46 | - 3 | 1.1 | + .1 | S. Ste. Marie . . . | 32 | + 4 | 1.8 | +1.4 | Columbia . . . | 59 | + 2 | .1 | - .9 |
| Fresno . . . | 54 | - 1 | 0 | - .4 | MINN. Duluth . . . | 33 | + 5 | .4 | - .1 | Greenville . . . | 55 | + 1 | .1 | -1.1 |
| Los Angeles . . . | 63 | + 3 | 0 | - .4 | Internatl Falls . . . | 32 | + 6 | 1 | - .2 | S. D. Aberdeen . . . | 44 | +12 | T | - .3 |
| Red Bluff . . . | 53 | - 1 | T | - .5 | Minneapolis . . . | 44 | +11 | .4 | 0 | Huron . . . | 46 | +13 | T | - .3 |
| San Diego . . . | 63 | + 4 | 0 | - .4 | Rochester . . . | 43 | +11 | .2 | - .2 | Rapid City . . . | 45 | +11 | T | - .3 |
| San Francisco . . . | 52 | - 2 | T | - .5 | St. Cloud . . . | 39 | + 8 | .3 | - .1 | Sioux Falls . . . | 48 | +14 | .1 | - .3 |
| Stockton . . . | 53 | - 1 | 0 | - .4 | MISS. Jackson . . . | 61 | + 2 | 2.1 | + .8 | TENN. Chattanooga . . . | 55 | + 2 | .3 | - .9 |
| COLO. Denver . . . | 46 | + 7 | .6 | + .3 | Meridian . . . | 58 | - 1 | 3.5 | +1.1 | Knoxville . . . | 54 | + 1 | .3 | - .7 |
| Grand Junction . . . | 44 | 0 | .1 | - .1 | MO. Columbia . . . | 51 | + 6 | 1.0 | + .3 | Memphis . . . | 60 | + 6 | 1.7 | + .5 |
| Pueblo . . . | 46 | + 3 | .2 | 0 | Kansas City . . . | 54 | + 9 | .1 | - .6 | Nashville . . . | 57 | + 5 | .1 | -1.0 |
| CONN. Bridgeport . . . | 44 | + 3 | .1 | - .7 | St. Louis . . . | 52 | + 5 | .7 | - .1 | TEX. Abilene . . . | 62 | + 5 | 0 | - .3 |
| Hartford . . . | 49 | +10 | .2 | - .7 | Springfield . . . | 55 | + 8 | .6 | - .1 | Amarillo . . . | 53 | + 5 | .1 | - .1 |
| D. C. Washington . . . | 56 | + 8 | .4 | - .4 | MONT. Billings . . . | 39 | + 4 | T | - .3 | Austin . . . | 65 | + 3 | .2 | - .2 |
| FLA. Apalachicola . . . | 63 | 0 | 1.8 | + .7 | Glasgow . . . | 41 | +12 | T | - .1 | Beaumont . . . | 65 | + 3 | .3 | - .4 |
| Daytona Beach . . . | 68 | + 2 | .4 | - .3 | Great Falls . . . | 39 | + 6 | T | - .2 | Brownsville . . . | 73 | + 3 | 1.2 | +1.1 |
| Ft. Myers . . . | 70 | 0 | 0 | - .7 | Havre . . . | 41 | +10 | .1 | 0 | Corpus Christi . . . | 71 | + 4 | .1 | - .1 |
| Jacksonville . . . | 62 | - 1 | .4 | - .4 | Helena . . . | 36 | + 3 | .1 | - .1 | Dallas . . . | --- | --- | --- | --- |
| Key West . . . | 77 | + 1 | 0 | - .4 | Kalispell . . . | 38 | + 5 | .1 | - .1 | Del Rio . . . | 69 | + 4 | .1 | - .1 |
| Lakeland . . . | 70 | + 2 | T | - .9 | Miles City . . . | 43 | + 9 | T | - .1 | El Paso . . . | 60 | + 3 | T | - .1 |
| Miami . . . | 75 | + 2 | 0 | - .5 | Missoula . . . | 39 | + 3 | .2 | 0 | Fort Worth . . . | 63 | + 5 | .9 | + .3 |
| Orlando . . . | 69 | + 2 | .3 | - .5 | NEBR. Grand Island . . . | 52 | +13 | .7 | + .4 | Galveston . . . | 66 | + 3 | .2 | - .4 |
| Tallahassee . . . | 61 | - 1 | 2.4 | +1.1 | Lincoln . . . | 52 | +12 | T | - .4 | Houston . . . | 65 | + 2 | .3 | - .3 |
| Tampa . . . | 70 | + 2 | T | - .8 | Norfolk . . . | 51 | +14 | .5 | + .1 | Lubbock . . . | 58 | + 6 | 0 | - .2 |
| W. Palm Beach . . . | 73 | + 2 | T | - .8 | N. Platte . . . | 45 | + 8 | T | - .3 | Midland . . . | 60 | + 3 | .3 | + .2 |
| GA. Atlanta . . . | 58 | + 4 | .5 | - .8 | Omaha . . . | 52 | +13 | .1 | - .3 | San Angelo . . . | 61 | + 1 | .2 | 0 |
| Augusta . . . | 59 | + 2 | .1 | - .9 | Valentine . . . | 45 | +11 | .1 | - .1 | San Antonio . . . | 86 | + 3 | .3 | - .1 |
| Macon . . . | 59 | 0 | .1 | -1.0 | NEV. Ely . . . | 33 | - 2 | 2 | 0 | San Antonio . . . | 69 | + 4 | .1 | - .3 |
| Savannah . . . | 61 | + 1 | .2 | - .8 | Las Vegas . . . | 58 | + 1 | 0 | - .1 | Victoria . . . | 64 | + 4 | .6 | 0 |
| HAWAII. Hilo . . . | 74 | + 3 | 5.0 | +2.0 | Reno . . . | 42 | 0 | .1 | 0 | Waco . . . | 63 | + 8 | 0 | - .4 |
| Honolulu . . . | 76 | + 3 | .3 | - .4 | Winnemucca . . . | 40 | + 1 | .2 | + .1 | Wichita Falls . . . | 41 | + 1 | 0 | - .2 |
| Kahului . . . | --- | --- | --- | --- | N. H. Concord . . . | 39 | + 3 | T | - .4 | UTAH. Blanding . . . | 42 | 0 | .6 | + .2 |
| Lihue . . . | --- | --- | --- | --- | N. J. Atlantic City . . . | 47 | + 3 | T | -1.0 | Salt Lake City . . . | 42 | + 9 | .3 | - .2 |
| IDAHO. Boise . . . | 41 | - 2 | .3 | + .1 | Trenton . . . | 51 | + 7 | .1 | - .8 | VT. Burlington . . . | 42 | + 9 | .3 | - .2 |
| Lewisville . . . | 43 | - 2 | .2 | 0 | N. MEX. Albuquerque . . . | 47 | - 1 | T | - .1 | VA. Lynchburg . . . | 53 | + 4 | .1 | - .7 |
| Pocatello . . . | 38 | 0 | .4 | + .2 | Roswell . . . | 58 | + 6 | 0 | - .1 | Norfolk . . . | 55 | + 4 | T | - .7 |
| ILL. Cairo . . . | 56 | + 4 | 1.1 | 0 | N. Y. Albany . . . | 45 | + 8 | 1.1 | + .5 | Richmond . . . | 55 | + 5 | .1 | - .6 |
| Chicago . . . | 51 | +10 | 1.1 | + .4 | Binghamton . . . | 42 | + 7 | .5 | - .2 | Roanoke . . . | 52 | + 4 | .1 | - .6 |
| Moline . . . | 48 | + 8 | .7 | 0 | Buffalo . . . | 42 | + 6 | .7 | + .1 | WASH. Colville . . . | 39 | 1 | .1 | - .1 |
| Peoria . . . | 48 | + 7 | .9 | + .1 | New York . . . | 50 | + 6 | .1 | - .8 | Omak . . . | 41 | 0 | .4 | + .2 |
| Rockford . . . | 45 | + 7 | .8 | + .1 | Rochester . . . | 43 | + 6 | .3 | - .3 | Quillayute . . . | 41 | 1 | 5.5 | +3.2 |
| Springfield . . . | 48 | + 5 | 1.7 | +1.0 | Syracuse . . . | 42 | + 5 | .7 | 0 | Seattle-Tacoma . . . | 42 | 3 | 1.4 | + .6 |
| IND. Evansville . . . | 53 | + 5 | .5 | - .6 | N. C. Asheville . . . | 52 | + 3 | .1 | - .9 | Spokane . . . | 38 | 1 | .6 | + .2 |
| Ft. Wayne . . . | 48 | + 8 | .7 | 0 | Charlotte . . . | 55 | + 2 | .1 | - .9 | Walla Walla . . . | 45 | + 2 | .4 | + .1 |
| Indianapolis . . . | 55 | +12 | .4 | - .5 | Greensboro . . . | 55 | + 4 | .2 | - .6 | Yakima . . . | 42 | + 2 | T | - .1 |
| South Bend . . . | 50 | +11 | 1.5 | + .8 | Hatteras . . . | 56 | + 3 | .1 | - .7 | W. Va. Beckley . . . | 48 | + 5 | .2 | - .7 |
| IOWA. Burlington . . . | 50 | + 9 | .7 | 0 | Raleigh . . . | 57 | + 5 | .2 | - .6 | Charleston . . . | 51 | + 3 | .3 | - .6 |
| Des Moines . . . | 50 | +12 | .1 | - .5 | Wilmington . . . | 59 | + 2 | T | - .9 | Huntington . . . | 52 | + 4 | .1 | - .8 |
| Dubuque . . . | 45 | + 9 | .6 | - .2 | N. DAK. Bismarck . . . | 40 | +10 | T | - .2 | Parkersburg . . . | 51 | + 5 | .3 | - .6 |
| Sioux City . . . | 49 | +12 | .6 | + .2 | Fargo . . . | 38 | + 9 | 0 | - .3 | WIS. Green Bay . . . | 40 | + 7 | .7 | + .2 |
| KANS. Concordia . . . | 54 | +12 | T | - .4 | Williston . . . | 39 | +10 | T | - .2 | La Crosse . . . | 45 | + 9 | .3 | - .2 |
| Dodge City . . . | 56 | +12 | T | - .2 | OHIO. Akron-Canton . . . | 47 | + 7 | .3 | - .5 | Madison . . . | 45 | +11 | 1.0 | + .5 |
| Goodland . . . | 49 | +10 | T | - .2 | Cincinnati . . . | 49 | + 4 | .2 | - .7 | Milwaukee . . . | 46 | +11 | 2.0 | +1.4 |
| Topeka . . . | 54 | + 9 | T | - .6 | Cleveland . . . | 49 | + 9 | .3 | - .5 | WYO. Casper . . . | 38 | + 5 | .3 | - .1 |
| Wichita . . . | 56 | + 9 | T | - .5 | Columbus . . . | 48 | + 5 | .2 | - .6 | Cheyenne . . . | 39 | + 6 | T | - .3 |
| KY. Lexington . . . | 51 | + 4 | .3 | - .8 | Dayton . . . | 49 | + 7 | .4 | - .4 | Lander . . . | 37 | + 3 | T | - .3 |
| Louisville . . . | 53 | + 6 | .2 | -1.0 | Toledo . . . | 46 | + 7 | .9 | + .3 | Sheridan . . . | 38 | + 4 | .2 | - .1 |
| | | | | | | | | | | P. R. San Juan . . . | 77 | 0 | .2 | - .3 |

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State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by SRS State offices in cooperation with the National Weather Service, NOAA.

ALABAMA: Pleasant early week. Rainfall moderate to heavy, most falling 26th. Temperatures ranged from 32 to 80°.

Fieldwork slowed by rains. Corn planted as conditions permitted. Small grains making good growth. Pastures and livestock condition improving.

ARIZONA: Unseasonal warm, dry weather, then cooling during last three days. Gusty dry winds. Precipitation limited amounts ranging from traces in northeast to over 0.50 in. over parts of Mogolon Rim and White Mountains. Snow up to 7 in. in the White Mountains.

Preplant operations cotton crop continue. Emergence of early plantings progressing satisfactorily. Irrigation, application of fertilizer, insect control continue for wheat and barley. Both crops progressing satisfactorily. Sugarbeets good top root development, disease symptoms persist. Some irrigation in Yuma areas. Alfalfa hay growth progressed nicely, first cutting underway. Lettuce harvest continued west increasing central. Harvest miscellaneous vegetables active. Cantaloupes, good growth. Limited picking valencia oranges, grapefruit, Kinnow mandarins Yuma, Salt River Valley. Range feed started but short Desert. Additional rains needed. Cattle, calves mostly fair, good condition. Spring calving underway. Fat lamb shipments active.

ARKANSAS: Rain ranging from 1.05 in. to 0.25 in. Above normal temperatures south and north. Near to below normal through central.

Little fieldwork eastern areas. Fruit prospects good. Excellent forage growth. Some cattle feeding where shortage of cool season pastures exists. Cattle on good winter pasture showing weight gain. Some herds treated for external parasites.

CALIFORNIA: Light precipitation at times north-west and north 24th, otherwise, fair. Lows mostly above freezing low valleys except near 30° at times north and central coastal valleys. Highs mostly 65 to 75° central valley, 60's and 70's coastal valleys, and 80's low southeast deserts. Weekly averages slightly below normal north and central coast, 2 to 6° above south, and near normal other areas.

Planting small grain at higher elevations. Many dry land fields planted earlier past recovery due lack of moisture. First cutting alfalfa well along Sacramento, San Joaquin Valleys. Cotton planting active desert, still slow San Joaquin Valley. Fruit crops past peak bloom. Vineyards leafing out. Thrip control nectarines. Napa Valley, wind machines started for frost control. Irrigation, cultivation continuing. Navel, lemon harvests continue. Avocado harvest slowed, prices declining. California vegetables advanced in plantings and in desert valley harvests. Rodents becoming slight problem in some vegetables. Range feed supplies short. More rain needed. Supplemental feeding necessary. Cattle fair, poor condition. Lambing, calving in northern areas. Water supplies sufficient but below normal.

COLORADO: Three cold fronts during week each producing strong gusty surface winds across eastern plains. Last two fronts 25th and 26th deposited 6 to 12 in. snow mountains, trace to

6 in. plains. Average temperature 4 to 7° above east, near normal west.

Winter wheat deterioration continues due to high winds, condition poor. Spring crops seeded: oats 11%, last year, 15%, average 16%; spring barley 15%, last year 7%, average 17%; sugar beets 1%, contract dispute curtailing planting, last year 3%, average 3%.

FLORIDA: Partly cloudy, mild near normal temperatures. Cold front early week in Panhandle, accompanied by windy weather Peninsula. Some low temperatures in the 30's over normally colder Panhandle locations. Otherwise, warm with most afternoon temperatures in the 70's and 80's. Moderate to heavy rainfall and thundershowers western Panhandle. Light to moderate rains remainder of Panhandle and northern Peninsula. Elsewhere generally dry.

Soil moisture adequate west, extreme north areas, mostly short elsewhere. Planting spring crops active. Corn planting good progress, ahead of normal. Peanut planting underway all areas. Tobacco transplanting active. Small grains good condition. Oats and wheat heading. Sugarcane harvest complete. Young cane good condition. Pastures improved slightly. Permanent pasture grasses continue adding growth as moisture improves. South and south central pastures less advanced due to overgrazing, moisture shortage. Panhandle, north Florida pastures doing well. Cattle, calves fair condition, showing improvement. Most citrus groves excellent condition. Some non-irrigated groves need rain. Bloom, almost over, very plentiful most groves. Total vegetable volume increased 2%. Volume leader, cabbage, was only crop declining, down 12%. Crops showing an increase included sweet corn, eggplant, green peppers, potatoes and radishes. Crops with steady supplies were snap beans, carrots, celery, cucumbers, escarole, lettuce, squash, strawberries and tomatoes. Strong winds caused some wind burn on watermelons. Crop condition generally fair to good. Stages of development central and southern areas range from open bloom to fruit set. Early melons weigh about 10 pounds. First harvest expected mid-April. Planting about complete north and west where some frost damage occurred.

GEORGIA: Temperatures 1 to 4° above normal. Cool midweek with frost north warming last of week. Rainfall 0.75 to 1.25 in. north and 0.15 to 0.25 in. south. Scattered showers and thundershowers northwest 20th ending over southeast 21st.

Soil moisture surplus central and north, adequate south. Land preparation 60% complete north, 30% central, 90% south. Field crop planting active south, beginning central and north. Small grains good, topdressing 70% complete north, 95% central, finished south. Tobacco plants good, transplanting 35% complete. Pastures fair to mostly good and improving. Cattle mostly fair to good. Peaches good condition.

HAWAII: Cloudy weather. Showers frequent all islands. Wet fields causing problems. Farm activity restricted to harvesting. Vegetable supplies mostly light. Head cabbage production Maui active. Banana, papaya, pineapple light. Sugar mills grinding. Pastures good.

IDAHO: Temperatures 1 to 3° below normal most areas. Extremes: 4 and 69°. Scattered light precipitation all areas, totals from trace to 0.42 in.

Fieldwork picked up momentum on lighter soils. Southern and eastern portion remain snow covered with no fieldwork being done. Calving active. Livestock good condition. Feed supplies adequate.

ILLINOIS: Temperatures 5 to 10° above normal, highest departures north. Precipitation 0.50 in. to 2.75 in., heaviest end of week.

Winter wheat, other small grains and legumes mostly good to excellent, some wheat disease problems. Oats 50% seeded, above 1975 and average. Corn and soybean acreage 78% plowed. Pastures mostly fair to good, supplying 25% livestock roughage requirements. Fruit trees and livestock generally good. Soil moisture mostly adequate. Fieldwork: 4.75 days suitable.

INDIANA: Warm, sunny. Temperatures 6° above normal and ranged from 17° on 22nd to 76° on 27th. Rainfall 0.40 to 0.70 in. in most areas, 1.50 near Lake Michigan. Sunshine 75% of possible.

Spring much advanced. Several days suitable for fieldwork and good progress made in soil preparation, oats seeding, chopping stalks. Soils became too wet to work late in period.

IOWA: Temperatures 11° above normal. Showers latter week and weekend varied from 0.10 to 1.50 in., average 0.50 in. North received normal rain, elsewhere 0.33 in. below normal.

Fieldwork underway. Some frozen ground, wet spots. Rapid progress in dry sandy soils. Warm days, strong winds dried most fields earlier than normal. Plowing, disking, fertilizing, oats seeding underway. Plowing, oats seeding ahead of normal. Plowing fall and spring 66% complete. Oats 22% seeded. Most seeding in southeast, just underway in north. Fertilizer, seed corn supplies adequate. Topsoil moisture 31% short, 69% adequate. Subsoil moisture 59% short, 41% adequate. Moisture improved since late winter. Need rain to retard wind erosion. Fieldwork: Five days suitable. Livestock good shape, pastures greening.

KANSAS: Local 0.50 in. to 1.00 in. rain southeast, elsewhere little significant moisture. Temperatures ranged from 54° north central to 58° southeast, 10 to 15° above normal. Strong gusty winds over State 23rd, 25th, and 28th produced considerable blowing dust west portion.

Wheat condition unchanged. Scattered, light moisture received. Vegetative cover remains short west. Wind damage reported southwest. Cutworms, greenbugs and winterkill reported across State. Oats 75% seeded, 10% last year, 50% average. Barley 45% seeded, 35% last year and average.

KENTUCKY: Fair weather first half, rain 26th, 23th, and 27th. Temperatures near or slightly above normal with highs 60's and 70's. Lows upper 20's early in week and on 28th. Otherwise, lows in 40's. Precipitation between 0.25 and 0.50 in.

Farmers active with outside jobs. Soil preparation for spring seeded crops continued. Seeding tobacco plant beds active. Pasture renovation and reseeded active. Pastures green and supplying limited grazing.

LOUISIANA: Temperatures near normal south, 2 to 4° above north. Extremes: 84 and 42°. Torrential rains southwest and south central 24th and 25th. Totals 7 to 10 in. many locations.

Soil moisture generally surplus. Days suitable for fieldwork 2.4. Main activities application of herbicides and fertilizer, seedbed preparation, livestock care, opening drainage ditches. Rice 16% seeded, 23% last year, 14% average. Corn 25% planted, 16% last year. Most sugarcane fields clean, first cultivation nearly complete. Strawberry harvest increased; quality good. Irish potatoes growing well. Small grains good. Pastures average. Cattle mostly fair.

MARYLAND & DELAWARE: Temperatures 5 to 11° above normal. Extremes: 19° and low 80's. Precipitation light amounts ranging from trace to 1.06 in. Heaviest in western area.

Mild weather allowed farmers to get much outside work done. Plowing, fertilizing, and preparing to plant crops major activities.

MICHIGAN: Temperatures 7 to 11° above normal over Lower and 2 to 6° above normal over the Upper Peninsula. Unseasonably warm maximum temperatures 70° over most of southern Lower 24th and 70's over southern Lower and the 60's over northern Lower 26th. Dry early week. Precipitation 0.40 to 1.00 in. Precipitation bands totaling 1.00 to 1.40 in. along southern border and from Houghton Lake through Flint into the Thumb. Most fell as rain and snow over Lower 26th and over Upper 25th and 26th.

Pruning fruit trees, feeding of livestock, and normal farm chores main agricultural activities.

MINNESOTA: Warm week. Temperatures 5° above normal northeast to 14° above southwest. Extremes: 72 and 16°. Precipitation near normal east central, northeast to 75% subnormal west third. Average precipitation 0.30 in. east to 0.10 west. Snow depth 4 to 16 in. north central, northeast. Frost out many southern areas.

Fieldwork possible on lighter soils in 10 days if drying continues.

MISSISSIPPI: Temperatures 1 to 4° above normal. Extremes: 85 and 32°.

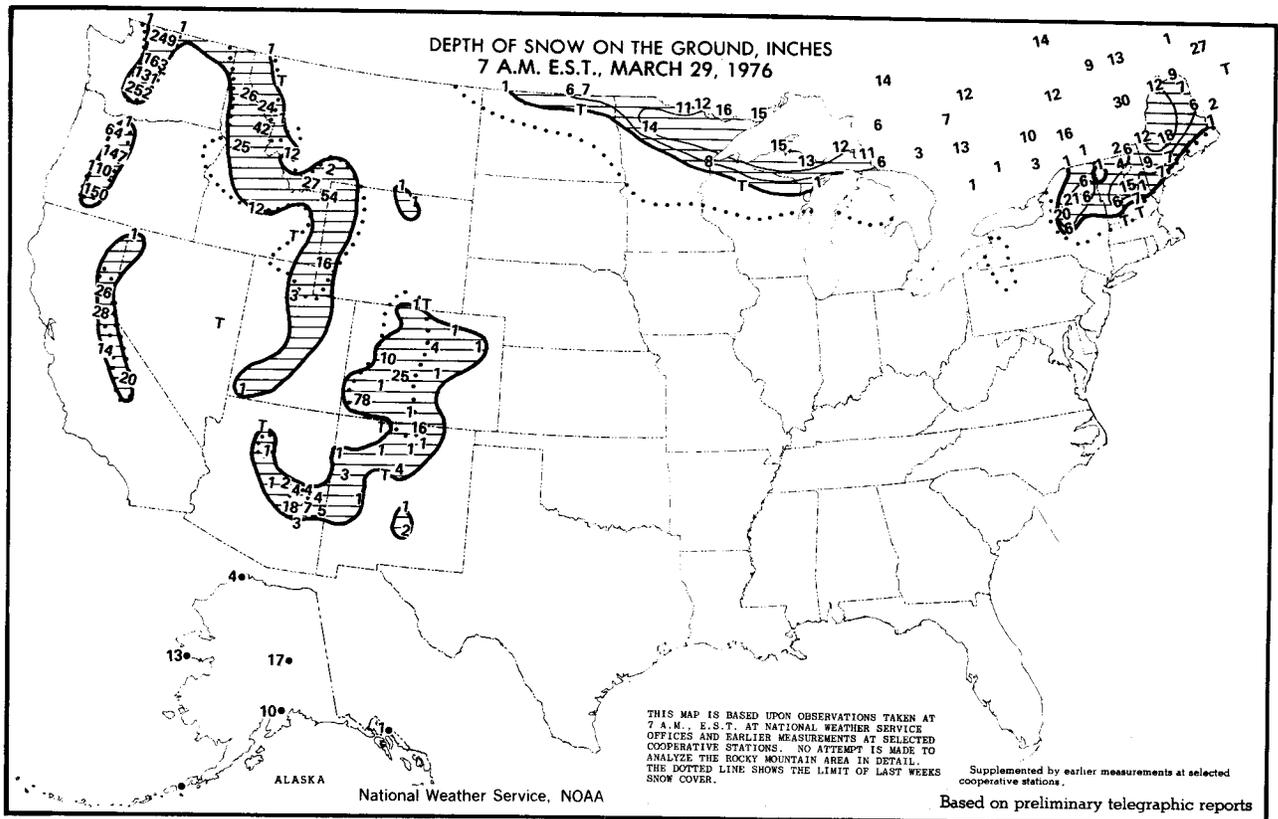
Soil moisture mostly surplus. Fieldwork: 1.4 days suitable. Plowing 48% completed. Corn 16% planted, 16% 1975. Irish potatoes 87% planted, 58% 1975. Winter wheat 47% jointed, 33% 1975. Oats 48% jointed, 32% 1975. Winter wheat and oats in fair to good condition. Livestock in fair condition. Pastures fair to good condition.

MISSOURI: Temperatures 2° above normal East Ozarks to 8° above normal West Ozarks and West Central Plains. Precipitation 1.00 in. Bootheel and 0.25 in. to 0.50 in. elsewhere.

Fieldwork: Four days suitable. Plowing 72% complete, five year average 27%. Oats sown 71% complete, five year average 28%. Wheat condition mostly good. Pasture condition generally fair. Soil moisture adequate.

MONTANA: Mild temperatures near normal except well above normal northeast. Moderate precipitation west of Divide and southwest. Light showers elsewhere with some thunderstorm activity. Windy along east slopes and plains area.

Winter wheat mostly dormant except greening central and southern areas. Condition fair to good. Wind damage to winter wheat moderate to heavy western portion of north central and parts of central and south. Top soil moisture short where persistent heavy winds occurred. Field tillage starting southern areas. About 40% calving and 30% lambing and shearing complete. Losses of



calves and lambs near normal. Most livestock on supplemental feed.

NEBRASKA: Fieldwork began to pick up: Farmers shredding stalks, plowing, fertilizing, and disking. Topsoil moisture short 68%, adequate 32%. Subsoil moisture reported short 92%, compared with 91% early April last year. Winter wheat mostly fair condition but deteriorating somewhat because of the high winds. Some wheat with poor stands being reseeded to spring crops. Pasture and range feed supplies short. Weather continues good for calving.

NEVADA: Mild, dry weather early, much cooler with snow later. Strong winds most areas. Temperatures ranged from 3° below normal to 6° above. Extremes: 2 and 84°. Precipitation light.

Seedbed preparation slowed by cold, windy weather. Range grasses mostly dormant. Calving, lambing continues.

NEW ENGLAND: Cold 22nd and 23rd, temperatures averaged 5 to 10° below normal. Warming 24th and 25th readings 10 to 20° above normal north and 10 to 15° above normal south. Extremes: -2 and 71°. Cold front 27th brought precipitation of 0.25 to 0.50 in.

NEW JERSEY: Temperatures 4° above normal. Extremes: 14 and 76°. Rainfall 0.24 in. north, 0.08 in. central and 0.08 in. south. Estimated soil moisture in percent of field capacity, past week averaged: 96% north, 85% central and 83% south.

Four inch soil temperature today averaged: 43° north, 48° central and south. Soil preparations increasing. Peach bloom expected April 4th

to 5th. Pastures, hay and cover crop beginning to grow.

NEW MEXICO: Cool beginning week warming last half turning considerably cooler through weekend. Scattered showers and light snows mountains and most of north 26th and 28th.

Soil moisture short. Ranges fair, many in poor condition some supplemental feeding. Livestock fair, calving and lambing continued. Dryland wheat poor. Irrigated wheat and barley fair in east, good southern areas. Durum wheat good condition. Light greenbug populations. Land preparation. Preirrigation, irrigating wheat, barley, and alfalfa continued. Orchard pruning nearly complete.

NEW YORK: Temperatures 2 to 10° above normal. Extremes: -10 and 75°. Rainfall below normal, less than 0.25 in. Extreme northwest and southeast. Only portions upper Hudson Valley received more than 1.00 in. Cold moderated to unseasonably mild levels by 24th. Showery colder weather 25th, unseasonably mild readings 26th and 27th. Showery very windy weather 27th heralded seasonably cold weather 28th.

NORTH CAROLINA: Temperatures 5° above normal. Precipitation very light.

Fieldwork: 4.9 days suitable. Soil moisture adequate. Small grains mostly good. Pastures, tobacco plant beds, Irish potatoes, fair to good. Farm work mainly land preparation. Some corn planting and tobacco transplanting began, about 1 to 2 weeks ahead of normal.

NORTH DAKOTA: Temperatures 2° above normal north central, northeast to 8° above normal northwest,

south central. Precipitation below normal, except north central, northeast, ranging 0.16 in. below normal central, southeast to 0.08 in. above normal northeast. Weekend warm, dry. Snow mostly confined to north central, northeast.

Mild temperatures allowed considerable snow melt. Crop farmers preparing machinery while livestock farmers concerned with calving and lambing.

OHIO: Mild spring weather through 27th with warmer air and above normal temperatures. Scattered showers 25th and 26th. Thunderstorms across State 26th to 27th with strong gusty winds up to 78 mph.

Plowing progressing far ahead of normal. Oat seeding advancing due to warm dry conditions.

OKLAHOMA: Temperatures 4 to 7° above normal. Precipitation none in west central to 0.22 in. southeast. Weekend mild with light to moderate rain most areas.

Warm temperatures, no significant moisture, and high winds caused further loss of wheat condition. Good growth where moisture adequate with near third of acreage jointing, near average for date, but ahead year ago. Some spraying for insects continues. Wheat showing moisture stress in west, eastern acreage good. Small barley acreage poor to fair condition, jointing started. Oats fair condition. Corn and sorghum ground preparation started panhandle, well advanced elsewhere. Near 80% ground tilled for cotton, soybeans, and peanuts, well ahead of usual. Weevil working terminals of alfalfa with spray programs underway. Ranges slow in west, but making good growth in east. Cattle condition fair.

OREGON: Temperatures slightly below normal. Extremes: 50's, 34° west; 50's, 25° east. Precipitation along coast, western valleys 1.31 to 3.44 in., trace to 0.39 in. east. Heavy snowfall in mountains.

Fertilizing fall grain, land preparation underway east. Rainfall limited western farm activities. Feed supplies adequate. Livestock in good shape. Calving continuing.

PENNSYLVANIA: Warm, sunny and dry. Maxima mostly 50's and 60's and minima 20's and 30's averaging 4 to 8° above normal. Extremes: 76 and 9°. Rainfall 25th and 27th when showers and thunderstorms produced 0.25 in. southern tier to over 1.00 in. parts of Middle Susquehanna Valley and Pocono Mountains. Elsewhere mostly 0.50 in. Snow completely gone.

Some plowing done. Minimal damage to fruit from cool weather and wind.

PUERTO RICO: Rainfall 0.55 in. or 0.02 in. below normal. Temperatures 75° on coasts and 70° interior. Extremes: 50 and 91°.

Sugarcane harvest active. Dry sunny weather favored maturity of crop. Coffee field operations progressed under favorable weather. Good weather for tobacco harvest and drying in shed. Fieldwork planting and fertilizing pastures north and central sections. More rains needed pasturelands. Planting, cultivating, and harvesting major farm activities.

SOUTH CAROLINA: Temperatures well below normal early, above normal late week. Scattered frost central, western 23rd, 24th. Rainfall less than normal.

Land preparation, application of fertilizer, herbicides, lime. Corn 22% planted. Transplant-

ing tobacco. Planting spring vegetables, water-melons 47% planted. Soil moisture adequate.

SOUTH DAKOTA: Unseasonably warm weather. Temperatures 8 to 17° above normal. Extremes: 78 and 6°. Only precipitation was trace in southeast.

Soil blowing due to high winds 26th and 28th. Plowing, disking and seeding oats and spring wheat increasing. Stock ponds low in scattered areas. Calving and lambing continue.

TENNESSEE: Above normal temperatures. Frontal activity caused widespread rainfall but below seasonal normals. Temperatures mid-50's east to upper-50's west or 2 to 7° above normal. Rainfall 0.25 to 0.50 in., over 1.50 in. southwest.

Fieldwork resumed midweek after rains early week. Plowing, disking, fertilizing, tobacco bed seeding and some early corn planting main activities. Fieldwork: Days suitable 3 east and 2.5 west. Frost damaged early fruit east. Frost damage danger high as early warm spell caused fruit trees to bloom earlier than normal. Alfalfa weevil central and eastern, slight damage reported.

TEXAS: Scattered showers, thunderstorms central, eastern above normal rainfall. Northeast, southeast Texas Rio Grande Valley also above normal. Precipitation near normal Central Texas while Panhandle southwest Texas below normal. Temperatures 1° above normal East Texas, 3 to 7° above normal elsewhere except west central Texas 11° above normal.

Wheat, oats fair, poor progress except Blacklands, East; excellent moisture available. Planting cotton, corn, sorghum, rice gaining momentum south. Farmers north, west seeding as moisture conditions permit. Corn: Planting good progress Blacklands southward. Most areas established rapid growing stands. Preplant irrigation underway High Plains. Planting 25% compares 45% last year, three-year average 24%. Cotton: Stands emerged, showing good growth Coastal Bend, South, Lower Rio Grande Valley. Planting moisture available Blacklands to Upper Gulf Coast. Sorghum: Excellent growth Blacklands to Lower Rio Grande Valley. Farmers rapidly completing planting. Planting 41% complete, 31% last year, average 32%. Wheat: Fair growth High, Low Plains; irrigation available, but excellent progress noted north, east. Greenbugs continue cause problems High Plains where farmers spraying for control. Stands heading from Blacklands southward but crop prospects generally poor.

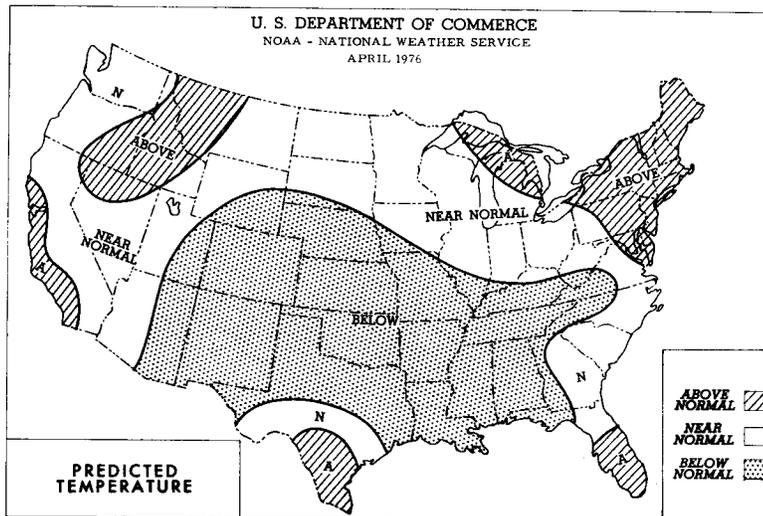
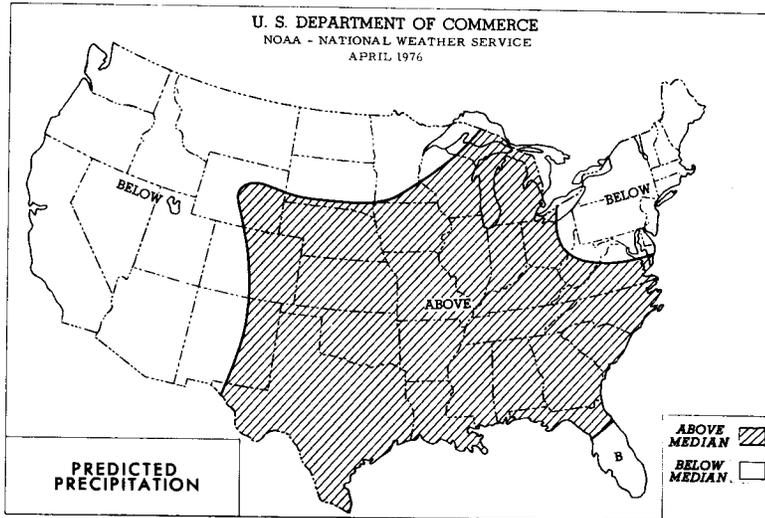
Lower Rio Grande Valley: Onion harvest continues full swing. Yields being reduced many fields by excessive seedstems. Carrot, cabbage harvest active. Coastal Bend: Dryland vegetable outlook improved by general rains. Irrigated watermelons running. Most dryland melons revived by recent rains. San Antonio-Winter Garden: Most potatoes emerged good stands. Onion irrigation needed. Cabbage, carrots, onions being harvested. Pepper planting complete. Knox-Haskell: Irish potatoes continue emerging. High Plains: Onion, potato planting active. Peaches: Crop remains good condition all areas except High Plains, Northern Low Plains where most crop destroyed by freezing temperatures. Pecans: Beginning break bud far north as Central Texas, Cross-Timbers. Citrus: Harvest remains active with most crops being diverted to processing.

Pasture livestock conditions rapidly improving East Texas, Blacklands, South Central following rains. Grazing short elsewhere, where drought conditions prevail heavy feed necessary to maintain herds. Sheep shearing gaining momentum, goat shearing nears completion.

Average Monthly Weather Outlook

AGRICULTURAL IMPLICATIONS: Above normal precipitation across the southern and central Great Plains would help relieve the dry conditions that have persisted for several months, improve winter wheat condition, fill soil moisture profiles, and provide needed moisture for spring-sown crops. Spring is ahead of normal across most of the country. Normal or below normal temperatures would

slow crop development. In the case of sensitive fruit crops this could help reduce the risk of frost damage. Fieldwork is also well ahead of normal in most areas and thus any delays because of wet fields in the Corn Belt and Deep South would be offset by the additional moisture. Many Western States are already very dry; continued below normal precipitation would be detrimental, particularly to dryland farming.



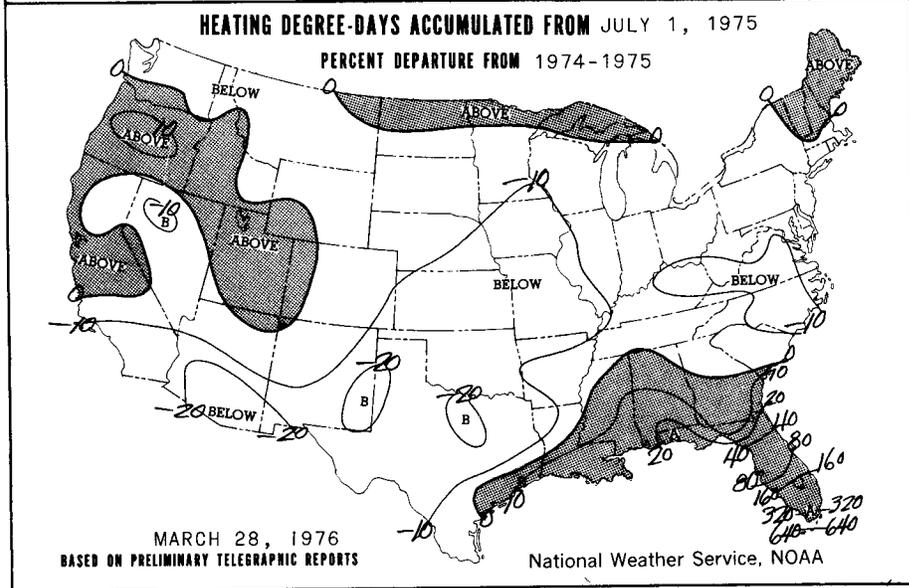
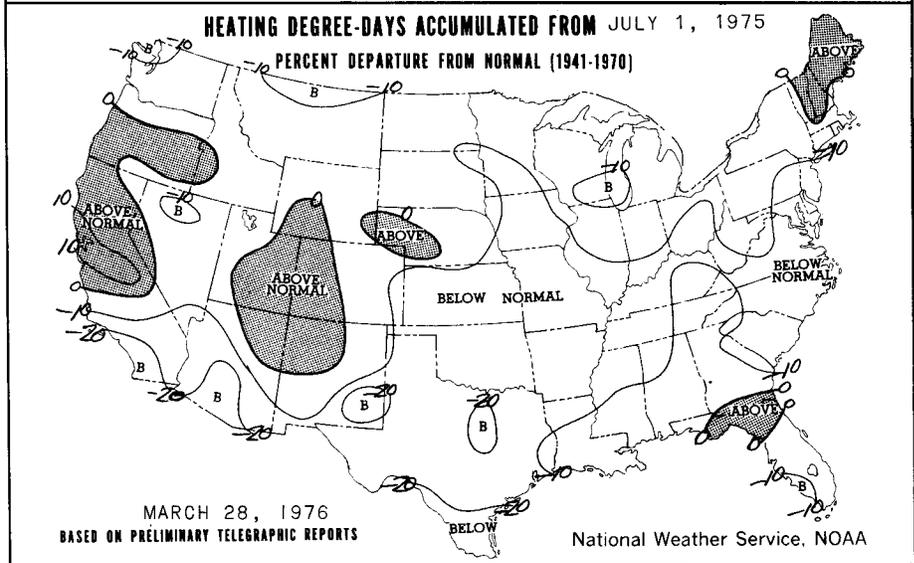
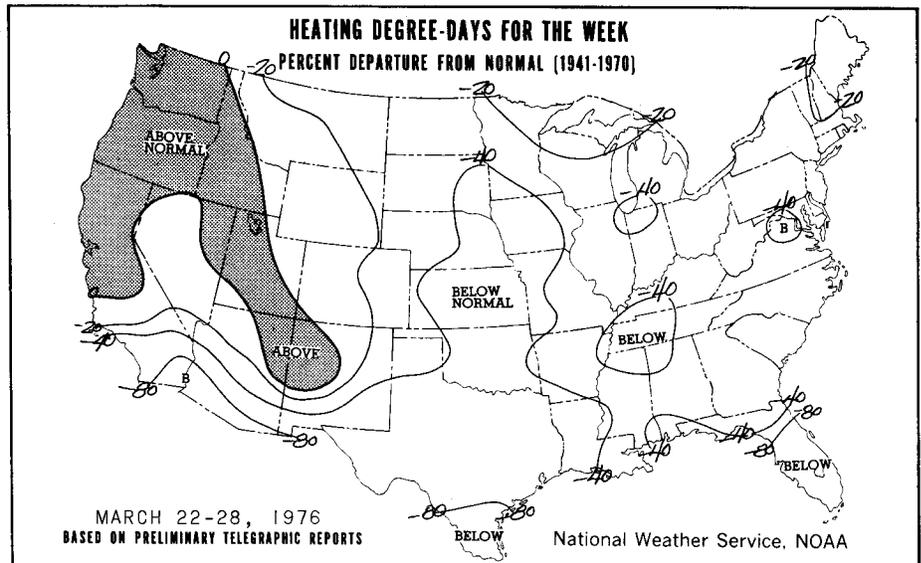
World Weather and Crop Update

Cold weather in Europe retarded crop growth and development and damaged tender crops in parts of the Mediterranean Basin, especially in Spain and southern France. Meantime cold, wet weather also hurt fruits and vegetables in the USSR's Trans-Caucas region. An unusually early cold snap, with near record temperatures for so early in the season, hit central Provinces of Argentina and included the possibility of some frost. Argentina has much late planted grain that would be vulnerable to frost.

Snow fell in the dry Manchurian Plain, where precipitation is needed for spring planting. Shower activity continued to increase in the Malay

Peninsula and East Africa, providing hope for an end to the prolonged dry spells. Sri Lanka showed signs of showers. Continued dry weather in most of India was beneficial to harvest but harmful to forage and filling rice. Temperatures moderated in the USSR's spring wheat region and encouraged recession of the snow cover.

Reports from Indonesia indicate severe crop losses from flooding in north Java in January. Rice and other low-lying crops were especially hard hit. During the winter equatorial and temperate air settled over this region, resulting in persistent wet weather for Indonesia and one of the driest winters for the Malay Peninsula.





FIRST CLASS MAIL

Heating Degree Days (Base 65°) For Week Ending March 28, 1976

| States and Stations | Weekly | | | Seasonal Accumulation | | | States and Stations | Weekly | | | Seasonal Accumulation | | | States and Stations | Weekly | | | Seasonal Accumulation | | |
|--------------------------|--------|------------|------------|-----------------------|------------|------------|--------------------------|--------|------------|------------|-----------------------|------------|------------|-------------------------|--------|------------|------------|-----------------------|------------|------------|
| | TOTAL | Departure* | Departure* | TOTAL | Departure* | Departure* | | TOTAL | Departure* | Departure* | TOTAL | Departure* | Departure* | | TOTAL | Departure* | Departure* | TOTAL | Departure* | Departure* |
| | | | 1974-75 | | | 1974-75 | | | | | | 1974-75 | | | | | | | 1974-75 | |
| ALA. Birmingham . . . | 43 | -27 | 2427 | -256 | 96 | | Portland . . . | 191 | -19 | 6225 | -33 | 257 | | Tulsa . . . | 52 | -47 | 3025 | -415 | -486 | |
| Mobile . . . | 19 | -19 | 1379 | -233 | 148 | | MD. Baltimore . . . | 88 | -45 | 3589 | -639 | -216 | 0 | OREG. Astoria . . . | 140 | 0 | 3962 | -109 | 191 | |
| Montgomery . . . | 46 | -7 | 2114 | -53 | 296 | | MASS. Boston . . . | 116 | -52 | 4329 | -489 | -286 | 202 | Burns . . . | 13 | 6379 | 476 | 582 | | |
| ARIZ. Flagstaff . . . | 168 | -36 | 5598 | -273 | -254 | | MICH. Alpena . . . | 168 | -79 | 6730 | -338 | 26 | 255 | Medford . . . | 22 | 4104 | 16 | 205 | | |
| Phoenix . . . | 3 | -29 | 1030 | -450 | -396 | | Detroit . . . | 131 | -53 | 5236 | -319 | -372 | 139 | Pendleton . . . | 2 | 3013 | -1458 | -832 | | |
| Tucson . . . | 11 | -32 | 1347 | -269 | -585 | | Flint . . . | 139 | -62 | 5415 | -603 | -315 | 143 | Portland . . . | 143 | 15 | 3680 | -255 | 201 | |
| Winslow . . . | 127 | 0 | 4324 | -127 | -277 | | Grand Rapids . . . | 134 | -64 | 5573 | -282 | -584 | 157 | Salem . . . | 25 | 4028 | 114 | 394 | | |
| Yuma . . . | 0 | -14 | 860 | -115 | -191 | | Houghton Lake . . . | 176 | -64 | 6649 | -401 | -144 | 122 | PA. Allentown . . . | -43 | 4604 | -495 | -260 | | |
| ARK. Fort Smith . . . | 57 | -29 | 2972 | -184 | -326 | | Lansing . . . | 137 | -61 | 5684 | -262 | -205 | 158 | Erie . . . | -44 | 5245 | -504 | -288 | | |
| Little Rock . . . | 55 | -30 | 2661 | -502 | -141 | | Marquette . . . | 196 | -44 | 6609 | -265 | 42 | 108 | Harrisburg . . . | -36 | 4182 | -488 | -460 | | |
| CALIF. Bakersfield . . . | 49 | -4 | 1866 | -136 | 38 | | Muskegon . . . | 140 | -61 | 5272 | -567 | -455 | 92 | Philadelphia . . . | -48 | 3777 | -544 | -202 | | |
| San Francisco . . . | 133 | 20 | 3799 | 309 | 281 | | S. Ste. Marie . . . | 227 | -34 | 7538 | -51 | -22 | 116 | Pittsburgh . . . | -47 | 4746 | -449 | -111 | | |
| Eureka . . . | 77 | 9 | 2695 | 314 | 208 | | MINN. Duluth . . . | 218 | -43 | 8180 | -3 | -166 | 130 | Scranton . . . | -48 | 4884 | -587 | -132 | | |
| Fresno . . . | 24 | -32 | 978 | -435 | -192 | | INTERNAT. Falls . . . | 149 | -78 | 6494 | -755 | -616 | 141 | R.I. Providence . . . | -54 | 4838 | -238 | 56 | | |
| Los Angeles . . . | 84 | 10 | 2508 | 140 | -154 | | Minneapolis . . . | 153 | -75 | 6439 | -714 | -817 | 34 | S.C. Charleston . . . | -18 | 1762 | -292 | -14 | | |
| Red Bluff . . . | 16 | -30 | 2661 | -502 | -141 | | Rochester . . . | 180 | -60 | 7604 | -98 | -254 | 43 | Columbia . . . | -20 | 2042 | -439 | -114 | | |
| San Diego . . . | 92 | 12 | 2659 | 271 | 174 | | St. Cloud . . . | 33 | -22 | 2005 | -196 | 121 | 71 | Greenville . . . | -12 | 2751 | -209 | -186 | | |
| San Francisco . . . | 92 | 12 | 2659 | 271 | 174 | | MISS. Jackson . . . | 45 | -10 | 2293 | 10 | 330 | 144 | S. DAK. Aberdeen . . . | -87 | 6746 | -761 | -232 | | |
| Stockton . . . | 86 | 8 | 2593 | 113 | -42 | | Meridian . . . | 97 | -45 | 4133 | -450 | -765 | 140 | Rapid City . . . | -77 | 5752 | -422 | -520 | | |
| COLO. Denver . . . | 130 | -50 | 4765 | -321 | -405 | | MO. Columbia . . . | 77 | -68 | 4243 | -428 | -713 | 116 | Sioux Falls . . . | -99 | 6391 | -473 | -428 | | |
| Pueblo . . . | 143 | -5 | 5250 | 260 | 84 | | Kansas City . . . | 90 | -40 | 3965 | -352 | -604 | 65 | TENN. Chattanooga . . . | -24 | 3171 | -86 | -177 | | |
| CONN. Bridgeport . . . | 148 | -21 | 4298 | -349 | -143 | | St. Louis . . . | 70 | -56 | 3684 | -463 | -575 | 74 | Knoxville . . . | -15 | 3172 | -54 | 64 | | |
| Hartford . . . | 127 | -55 | 5032 | -478 | -247 | | Springfield . . . | 177 | -32 | 5862 | -244 | -390 | 37 | Memphis . . . | -47 | 2460 | -585 | -180 | | |
| DEL. Wilmington . . . | 63 | -55 | 3068 | -762 | -306 | | MONT. Billings . . . | 167 | -82 | 7063 | -649 | -27 | 55 | Nashville . . . | -42 | 2861 | -579 | -250 | | |
| D. C. Washington . . . | 95 | -47 | 3881 | -494 | -248 | | Glasgow . . . | 194 | -31 | 6150 | -236 | -278 | 23 | TEX. Abilene . . . | -39 | 3275 | -498 | -710 | | |
| FLA. Apalachicola . . . | 17 | -12 | 1333 | 11 | 368 | | Great Falls . . . | 166 | -77 | 6426 | -1130 | -508 | 18 | Amarillo . . . | -20 | 1364 | -316 | -250 | | |
| Daytona Beach . . . | 1 | -17 | 835 | -39 | 297 | | Havre . . . | 198 | -26 | 6612 | -225 | -299 | 0 | Austin . . . | -14 | 518 | -131 | -11 | | |
| Key West . . . | 0 | 0 | 57 | 5 | 50 | | Helena . . . | 94 | -104 | 5688 | -471 | -529 | 1 | Corpus Christi . . . | 1 | 736 | -190 | 83 | | |
| Lakeland . . . | 0 | -11 | 625 | -41 | 261 | | Kalispell . . . | 182 | -22 | 6291 | -327 | -27 | 17 | Del Rio . . . | -10 | 1170 | -328 | -223 | | |
| Miami . . . | 0 | 0 | 202 | -4 | 143 | | Miles City . . . | 87 | -97 | 5297 | -368 | -707 | 17 | El Paso . . . | -42 | 2278 | -290 | -411 | | |
| Orlando . . . | 1 | -12 | 659 | -33 | 282 | | Missoula . . . | 92 | -81 | 5084 | -480 | -880 | 25 | Fort Worth . . . | -35 | 1785 | -488 | -386 | | |
| Tallahassee . . . | 31 | 1 | 1562 | 42 | 105 | | NEBR. Grand Island . . . | 94 | -104 | 5688 | -471 | -529 | 6 | Galveston . . . | -6 | 25 | 981 | -213 | 116 | |
| Tampa . . . | 0 | -14 | 666 | -40 | 280 | | Lincoln . . . | 140 | -54 | 6156 | 314 | 32 | 18 | Houston . . . | -13 | 1279 | -122 | 42 | | |
| W. Palm Beach . . . | 0 | 0 | 306 | 7 | 199 | | North Platte . . . | 91 | -78 | 4843 | -583 | -936 | 41 | Lubbock . . . | -51 | 2715 | -575 | -614 | | |
| GA. Atlanta . . . | 51 | -31 | 2603 | -291 | -46 | | Omaha . . . | 134 | -80 | 6001 | -294 | -248 | 33 | Midland . . . | -30 | 2085 | -415 | -262 | | |
| Augusta . . . | 40 | -21 | 2063 | -363 | -387 | | Valentine . . . | 220 | 8 | 6189 | -117 | -39 | 22 | Beaumont . . . | -22 | 1324 | -149 | -17 | | |
| Macon . . . | 39 | -13 | 1998 | -152 | 72 | | NEW. Ely . . . | 47 | -13 | 2183 | -279 | -172 | 29 | San Angelo . . . | -22 | 1973 | -175 | -228 | | |
| Savannah . . . | 31 | -14 | 1675 | -199 | 232 | | Reno . . . | 159 | -5 | 5079 | 143 | 9 | 14 | San Antonio . . . | -18 | 1376 | -152 | -147 | | |
| IDAHO. Boise . . . | 163 | 8 | 4991 | 49 | 289 | | Winnemucca . . . | 173 | -8 | 4833 | -617 | -516 | 6 | Victoria . . . | -6 | 19 | 386 | -217 | 34 | |
| Idaville . . . | 151 | 7 | 4338 | -312 | -25 | | N.H. Concord . . . | 177 | -27 | 6703 | 422 | 156 | 24 | Waco . . . | -25 | 1588 | -397 | -578 | | |
| Pocatello . . . | 181 | 0 | 5804 | -117 | -138 | | N.J. Atlantic City . . . | 125 | -22 | 4245 | -104 | 84 | 27 | Wichita Falls . . . | -48 | 2248 | -505 | -553 | | |
| ILL. Cairo . . . | 82 | -39 | 3039 | -543 | -498 | | Trenton . . . | 100 | -45 | 3873 | -199 | -228 | 162 | UTAH. Salt Lake C. . . | 1 | 5033 | -87 | 378 | | |
| Chicago . . . | 99 | -71 | 4856 | -517 | -474 | | N.MEX. Albuquerque . . . | 122 | 4 | 4034 | 127 | -191 | 157 | VT. Burlington . . . | -65 | 6517 | -217 | 86 | | |
| Moline . . . | 117 | -60 | 5077 | -611 | -631 | | Roswell . . . | 49 | -43 | 2651 | -807 | -687 | 83 | VA. Lynchburg . . . | -32 | 3474 | -371 | -389 | | |
| Peoria . . . | 114 | -52 | 5028 | -393 | -428 | | N.Y. Albany . . . | 139 | -55 | 5617 | -366 | -448 | 72 | Norfolk . . . | -29 | 2642 | -529 | -177 | | |
| Rockford . . . | 136 | -52 | 5703 | -303 | -306 | | Binghamton . . . | 164 | -46 | 5839 | -359 | -430 | 70 | Richmond . . . | -36 | 3027 | -582 | -535 | | |
| Springfield . . . | 118 | -34 | 4456 | -537 | -453 | | Buffalo . . . | 157 | -49 | 5418 | -442 | -427 | 92 | Roanoke . . . | -25 | 3346 | -532 | -496 | | |
| IND. Evansville . . . | 83 | -41 | 3762 | -458 | -273 | | New York . . . | 103 | -46 | 3859 | -448 | -221 | 4 | WASH. Quillayute . . . | 4 | 4059 | -522 | -329 | | |
| Fort Wayne . . . | 118 | -56 | 4922 | -509 | -479 | | Rochester . . . | 152 | -46 | 5362 | -381 | -215 | 23 | Seattle-Tacoma . . . | 163 | 23 | 3811 | -347 | -144 | |
| Indianapolis . . . | 106 | -46 | 4512 | -450 | -410 | | Syracuse . . . | 157 | -41 | 5530 | -194 | -108 | 187 | Spokane . . . | 8 | 5670 | -55 | -225 | | |
| South Bend . . . | 107 | -76 | 4795 | -811 | -348 | | N.C. Asheville . . . | 90 | -24 | 3603 | -197 | 29 | 136 | Walla Walla . . . | 13 | 3889 | -302 | -65 | | |
| IOWA. Burlington . . . | 104 | -66 | 4892 | -585 | -686 | | Hatteras . . . | 82 | -26 | 1993 | -470 | -80 | 160 | Yakima . . . | 160 | 10 | 4947 | -204 | 101 | |
| Des Moines . . . | 105 | -84 | 5044 | -917 | -817 | | Charlotte . . . | 68 | -19 | 2680 | -329 | -316 | 18 | W. VA. Beckley . . . | -33 | 4158 | -698 | -581 | | |
| Debouque . . . | 134 | -67 | 5905 | -474 | -628 | | Greensboro . . . | 70 | -32 | 2989 | -537 | -288 | 95 | Charleston . . . | -27 | 3564 | -570 | -747 | | |
| Sioux City . . . | 109 | -85 | 5684 | -499 | -598 | | Raleigh . . . | 60 | -33 | 2735 | -517 | -500 | 90 | Huntington . . . | -33 | 3545 | -613 | -462 | | |
| KANS. Concordia . . . | 78 | -81 | 4428 | -582 | -652 | | Wilmington . . . | 40 | -23 | 1801 | -506 | -271 | 93 | Parkersburg . . . | -39 | 3920 | -399 | -305 | | |
| Dodge City . . . | 68 | -78 | 3925 | -585 | -688 | | N. Dak. Bismarck . . . | 173 | -74 | 7127 | -700 | -701 | 178 | WIS. Green Bay . . . | -47 | 6679 | -566 | -255 | | |
| Goodland . . . | 109 | -73 | 4605 | -683 | -750 | | Fargo . . . | 185 | -65 | 7563 | -493 | -272 | 141 | LaCrosse . . . | -64 | 6175 | -372 | -420 | | |
| Topeka . . . | 73 | -72 | 4226 | -502 | -592 | | Williston . . . | 181 | -70 | 7686 | -219 | 57 | 137 | Madison . . . | -78 | 5945 | -741 | -436 | | |
| Wichita . . . | 67 | -62 | 3875 | -391 | -562 | | OHIO. Akron-Canton . . . | 127 | -50 | 4756 | -636 | -287 | 133 | Milwaukee . . . | -76 | 5503 | -812 | -538 | | |
| KY. Lexington . . . | 86 | -35 | 3934 | -330 | -155 | | Cleveland . . . | 111 | -67 | 4847 | -458 | -279 | 188 | WYO. Casper . . . | -33 | 6120 | -143 | -455 | | |
| Louisville . . . | 81 | -45 | 3491 | -711 | -400 | | Columbus . . . | 115 | -41 | 4522 | -512 | -193 | 180 | Cheyenne . . . | -42 | 5803 | -145 | -383 | | |
| LA. Baton Rouge . . . | 21 | -13 | 1528 | 98 | 182 | | Cincinnati . . . | 109 | -30 | 4056 | -463 | -440 | 198 | Lander . . . | 19 | 6607 | 20 | 6 | | |
| Lake Charles . . . | 15 | -18 | 1387 | -74 | 151 | | Dayton . . . | 110 | -48 | 4421 | -567 | -331 | 186 | Sheridan . . . | -33 | 6154 | -282 | -549 | | |
| New Orleans . . . | 25</ | | | | | | | | | | | | | | | | | | | |