

Weekly Weather & Crop Bulletin

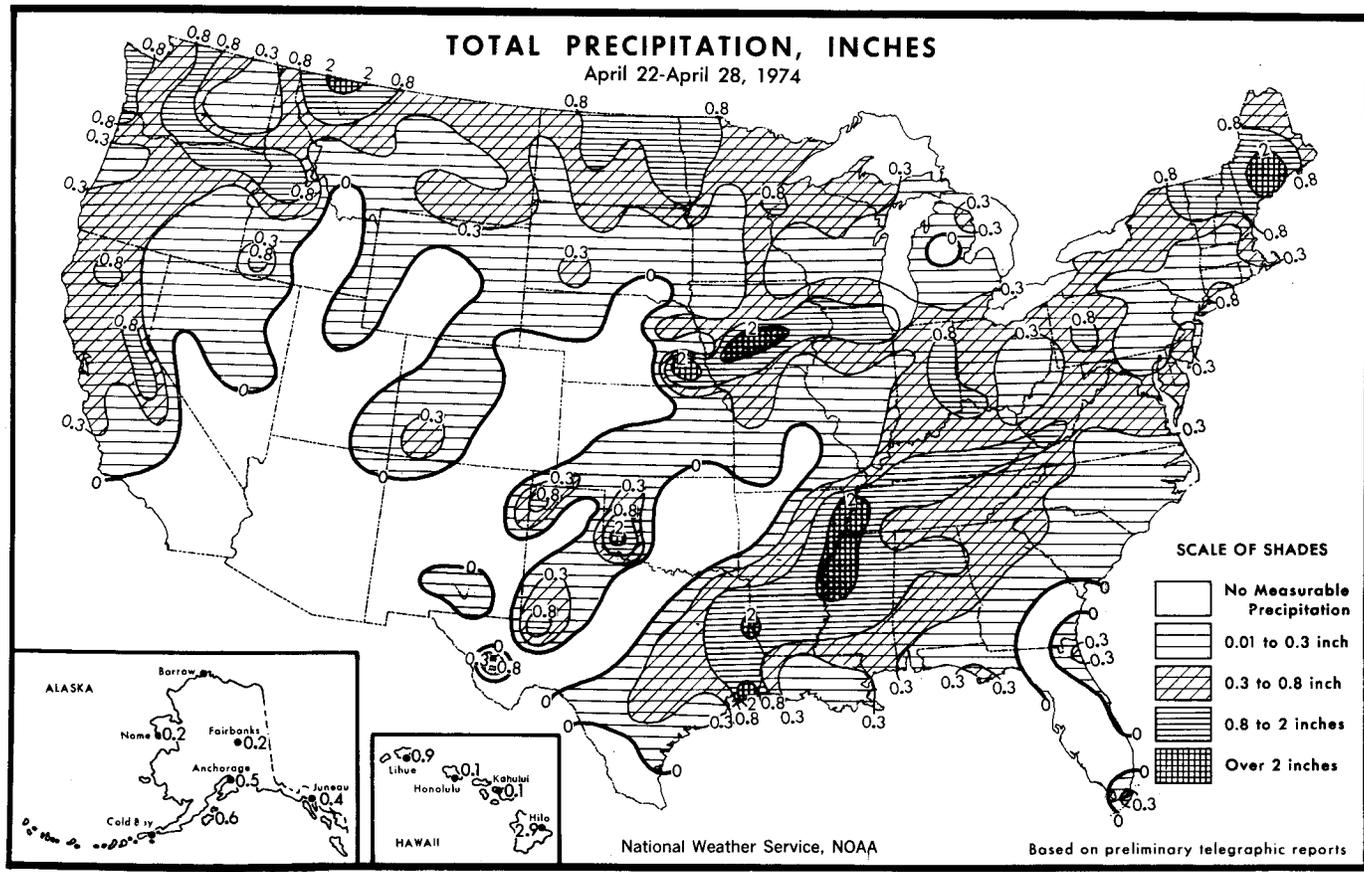
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Locally heavy rains, averaging more than 2.00 in., caused considerable flooding in Texas, Oklahoma, Kansas, Arkansas and Louisiana. Little or no rain fell over the Western States.

Temperatures averaged more than 5° above normal in the Nation's midsection last week with Amarillo, Tex., 10° above normal. In contrast, temperatures in the Southeast were cooler than usual for the second consecutive week, averaging as much as 8° below normal in Florida.

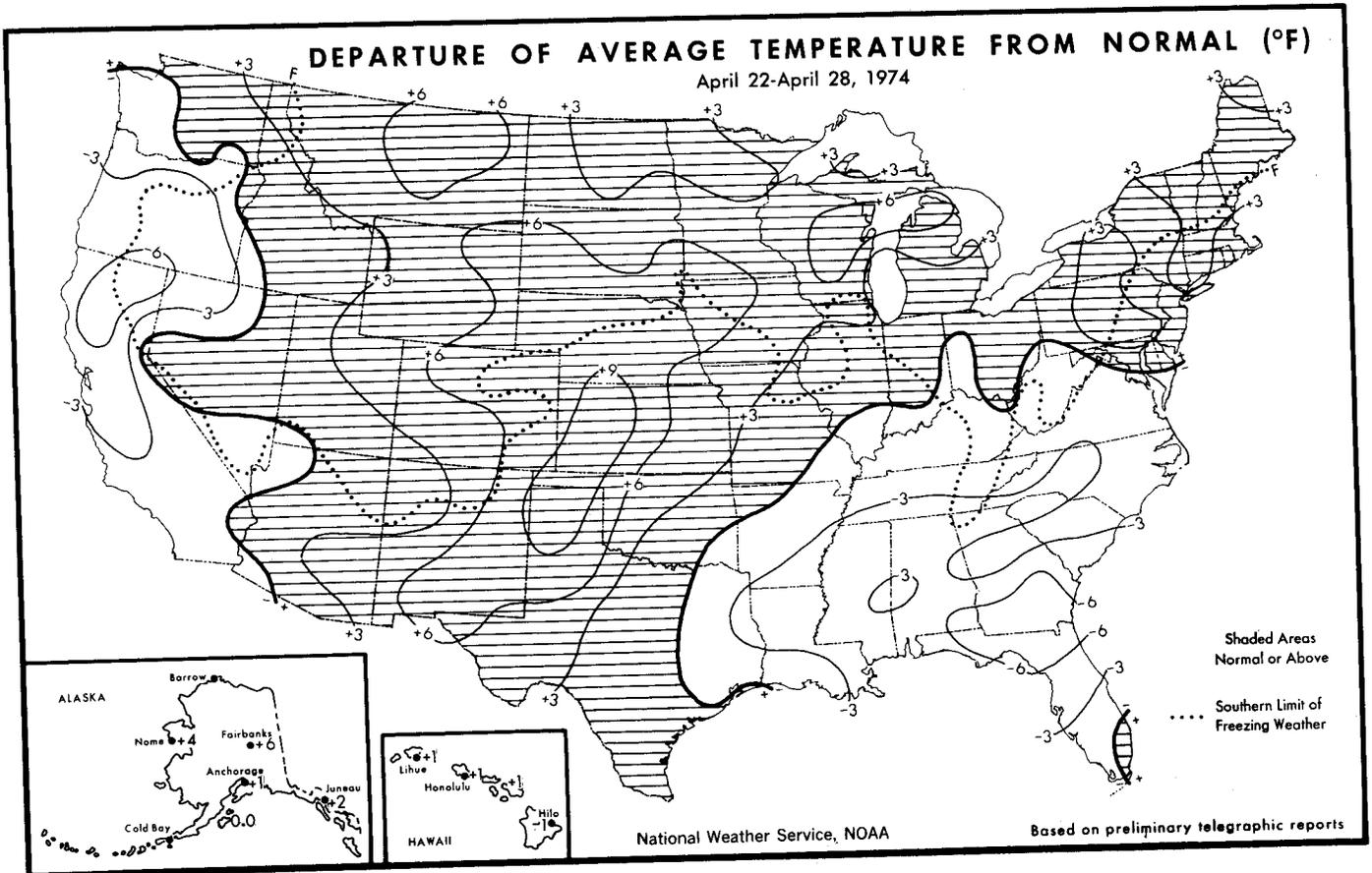
PRECIPITATION: Moderate precipitation fell over much of the eastern half of the Nation. More than 2.00 in. of rain soaked Des Moines, Ia.; Lincoln, Neb.; Memphis, Tenn.; Shreveport, La.; and Beaumont-Port Arthur, Tex., during the week. Rain totaled 4.00 to 7.00 in. in an area from Arkansas into western Tennessee and northern Mississippi. Rain also dampened the Pacific Northwest and northern California during the week.

Only the Southwest remained dry, except a small section of Colorado.

On Monday morning 2.75 in. of rain fell at Dryersburg, Tenn., with 2.07 in. reported at Memphis. Over 1.00 in. fell at Greenwood, Miss.; 1.85 in. at Hopkinsville, Ky.; and Killeen, Tex., got 1.10 in.

Late Monday heavy rain drenched northern Louisiana, southern Arkansas, and central Mississippi. Almost 2.00 in. fell in only six hours at Monroe, La., and 1.68 in. was recorded at Shreveport, La. By evening, all river and streams in southcentral Mississippi were out of their banks and record overflows occurred near Eminence, Mo., and at Benton, Ark.

On Tuesday, the severe thunderstorms and heavy rain subsided but a cold front stretching from western New York through Alabama and southeast Texas set off more showers across the Atlantic Coast States and along the Gulf Coast.



Midweek, a Low off the New England Coast brought rain and snow to an area from the lower Great Lakes into New England. By Wednesday morning the storm had spread to western New York and down through West Virginia. By evening, 4 to 6 in. of heavy snow had fallen in a band from northern New Hampshire into the Houlton, Me., area. Greenville, Me., measured 9 in.

On Friday, a Low in Montana and Utah brought showers and thundershowers to much of the central and northern Rockies and into Kansas and Nebraska. A few showers were also scattered over northern and central California. Early Friday morning, a tornado touched down in the southwestern part of Pecos, Tex., injuring two persons and damaging three trailers and four vehicles. Friday afternoon, showers moved off the New England Coast after leaving 3.00 in. of snow at the summit of Mount Washington, New Hampshire.

During the weekend, some severe thunderstorm activity occurred in Nebraska bringing golf ball-size hail and winds of 65 mph to Callaway. Hail and very heavy rains fell around Broken Bow with some flash flooding on highways.

A cold front trailing from a Low in the northern Plains triggered showers and thundershowers from western Texas into the upper Mississippi Valley. On Sunday, the cold front stretched from northern Michigan into extreme southwestern Texas. All along the front scattered showers and thunder-

showers dampened the day.

TEMPERATURE: The Nation's midsection enjoyed mild temperatures last week with many areas recording at least 3° above normal. Only sections in the Southeast and the Pacific Coast registered temperatures below normal.

During the week a High in Canada reaching south into the Plains brought fair skies but cool temperatures to much of the central part of the U.S. Northerly winds from Canada chilled parts of the Great Lakes, Ohio Valley, and Mississippi Valley. Lows in the 20's were common as far south as northern Missouri and central Illinois.

On Thursday, unseasonably cool weather prevailed in most of the Atlantic Coast States and the Intermountain region, while the Plains and Rocky Mountains were generally warmer than normal. Thursday morning record lows were set at Athens, Ga., 36°; Savannah, Ga., 42°; and Charleston, S. C., 37°. By afternoon, it warmed to 54° as far south as Cape Hatteras, N. C., while it reached 82° as far north as Glasgow, Mont.

Cool temperatures persisted in the Atlantic Coast States on Friday because of Canadian air. Temperatures warmed Saturday and normal spring-time readings were common along the Gulf Coast States and into California. By Sunday unseasonable warmth prevailed east of the Mississippi: 84° as far north as Rochester, N.Y.; Concord, N. H., recorded 83°, which was 21° above normal.

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NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Warm temperatures pushed winter wheat growth and development well ahead of average progress in the southern Great Plains. Cotton planting gained momentum in the South but is behind average. Corn planting reached 7% complete in the Corn Belt, ahead of average. Very few soybeans were planted.

SMALL GRAINS: Warmer than normal temperatures over the Great Plains for the second straight week pushed winter wheat growth and development well ahead of both last year's pace and the average of recent years in Kansas and Oklahoma. The crop responded well to the warmth and substantial recent rainfall; condition generally improved and growth was rapid.

Kansas wheat is rated in very good condition with 80% of the acreage in or past the jointing stage compared to 60% for both a year earlier and the average. Some southwest Kansas counties are dry and need rain. The Oklahoma wheat crop is 32% headed compared to only 18% a year ago. Nonirrigated wheat in the Oklahoma and Texas Panhandles remained in poor condition due to lack of moisture but irrigated wheat showed satisfactory progress.

Colorado wheat is good to excellent except in the dry southeast section. The crop is 25% jointing versus 24% last year and a 5-year average of 20%. Early seeded winter wheat fields in Nebraska made rapid growth; most acreage there is rated good and showed improvement.

Winter wheat continued in mostly good condition in remaining Corn Belt States and in the northern western States. Most of Montana needs more rain. Some fields in Washington are in the boot stage. Wheat in the South Atlantic States is being hurt by powdery mildew and other disease problems.

The warm weather speeded spring small grain seeding to ahead of average progress in Montana, South Dakota and most other Corn Belt States, but rains continued to delay the start of fieldwork and planting in North Dakota and northern Minnesota.

COTTON: Cotton planting gained momentum in most Southern States last week. Progress is ahead of a year earlier but behind the 1969-73 average in most States. Planting progress ranges from almost none planted in Arkansas to 36% planted in Georgia.

In Texas, which accounts for 40% of the Nation's 1974 intended cotton acreage, planting is 24% complete versus 10% a year ago and an average of 22%. Farmers on the Texas High and Low Plains, where the bulk of the Lone Star State crop is grown, are waiting for adequate soil moisture to plant. Cotton planting neared completion in Arizona and California.

CORN: Last week provided favorable weather over most major corn producing areas of the North Central Region and fieldwork was active. Corn

planting got underway and reached 7% complete for the Corn Belt, an area which accounts for 81% of the Nation's 1974 intended corn acreage. This puts Corn Belt planting progress about a week ahead of a year earlier and also ahead of the 5-year average of 4%.

Iowa, the leading corn producing State with a 21% share of the Corn Belt total prospective acreage showed 8% planted compared to 5% in 1973 and about 6% average. Illinois farmers also had 8% of their corn planted while Missouri leads the region with 33% corn planted versus 1% a year ago and an average of 17%. Corn in both Ohio and Kansas is 15% planted.

SOYBEANS: Very little soybean planting occurred last week since most farmers gave priority to planting other crops. Ohio farmers managed to get 5% of their intended acreage seeded.

OTHER CROPS: Sorghum planting made satisfactory progress in Texas at 42% complete versus 38% a year ago.

Flue-cured tobacco transplanting reached 19% complete in North Carolina. Kentucky tobacco plants are rated fair to good, watering is now necessary in the central and bluegrass districts.

Peanut planting progress in Georgia equals last year's record slow pace at 26%.

Potato planting in Idaho neared 75% done in the southwest and 30% in the southcentral areas. Planting got underway in eastern Washington.

New crop sugarbeets are doing well in California as plantings continued. Sugarbeet planting is well along in Idaho.

FRUITS AND NUTS: The drought intensified in southern Florida forcing growers to continue irrigation of citrus groves.

Apple trees are in various stages of bloom northward into New Jersey, Pennsylvania and Washington.

In California, the Navel orange harvest is in final stages and early peach picking got underway.

VEGETABLES: Sweet corn shipments from Florida were up sharply last week while tomatoes remained in moderate supply.

Spinach and green leafy crops are available in New Jersey, tomato planting started there. Onions and lettuce were actively planted in New York while early vegetable planting started in Michigan and increased in Washington last week.

Mixed vegetable harvesting continued actively in Texas, Arizona and California.

PASTURES AND LIVESTOCK: Pastures in the Central States continued to flourish under mild weather and adequate moisture. Greening and growth accelerated in northern areas. Drought continued to reduce grazing in the Southwest. Movement of cattle to mountain pastures is underway in the West.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., April 28, 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 . . .	62	- 4	.6	- .4	La. Baton Rouge . . .	69	- 2	1.6	- .3	Youngstown . . .	53	+ 2	.4	- .5
Mobile . . .	67	- 3	.1	-1.1	Lake Charles . . .	70	- 1	.4	- .4	OKLA. Okla. City . . .	66	+ 2	T	-1.0
Montgomery . . .	64	- 4	.3	- .6	New Orleans . . .	68	- 3	.1	- .8	Tulsa . . .	67	+ 3	T	-1.1
ALASKA Anchorage . . .	40	+ 1	.5	+ .4	Shreveport . . .	65	- 4	1.7	+ .4	OREG. Astoria . . .	47	- 2	1.0	+ .1
Barrow . . .	41	+ 6	.2	+ .1	MAINE Caribou . . .	43	+ 2	.3	- .3	Burns . . .	43	- 4	.2	0
Fairbanks . . .	41	+ 6	.2	+ .1	Portland . . .	49	+ 3	1.2	+ .4	Medford . . .	47	- 5	.8	+ .6
Juneau . . .	43	+ 2	.4	- .3	MD. Baltimore . . .	58	+ 1	.2	- .5	Pendleton . . .	53	0	1.3	+1.0
Kodiak . . .	39	0	.6	- .3	MASS. Boston . . .	54	+ 2	.6	- .2	Portland . . .	52	- 1	.4	- .1
Nome . . .	28	+ 4	.2	+ .1	Chatham . . .	47	- 1	.3	- .1	Salem . . .	50	+ 2	.1	- .4
ARIZ. Flagstaff . . .	46	+ 1	T	- .3	MICH. Alpena . . .	50	+ 6	.5	- .1	PA. Allentown . . .	54	+ 1	.3	- .6
Phoenix . . .	74	+ 4	T	- .1	Detroit . . .	54	+ 3	.3	- .5	Erie . . .	50	+ 2	.7	- .1
Tucson . . .	70	+ 2	0	- .1	Flint . . .	52	+ 3	.1	- .6	Harrisburg . . .	59	+ 3	.1	- .6
Winslow . . .	58	+ 1	0	- .1	Grand Rapids . . .	52	+ 2	.3	- .5	Philadelphia . . .	59	+ 3	.3	- .4
Yuma . . .	73	- 1	0	0	Houghton Lake . . .	50	+ 4	T	- .6	Pittsburgh . . .	54	0	.2	- .6
ARK. Fort Smith . . .	65	0	T	-1.2	Lansing . . .	52	+ 2	.1	- .6	Scranton . . .	52	0	.1	- .7
Little Rock . . .	63	- 2	.4	- .9	Marquette . . .	47	+ 3	.4	- .2	R.I. Providence . . .	52	+ 2	T	- .8
CALIF. Bakersfield . . .	63	- 2	T	- .2	Muskegon . . .	49	0	.1	- .6	S.C. Charleston . . .	63	- 4	T	- .6
Eureka . . .	48	- 2	.4	- .2	S. Ste. Marie . . .	47	+ 5	.1	- .5	Columbia . . .	65	- 2	T	- .8
Fresno . . .	59	- 4	.1	- .1	MINN. Duluth . . .	46	+ 3	.7	+ .1	Greenville . . .	60	- 4	.4	- .5
Los Angeles . . .	62	- 1	0	- .2	Internatl Falls . . .	47	+ 4	.7	+ .3	S.D. Aberdeen . . .	54	+ 5	.2	- .3
Red Bluff . . .	55	- 7	.6	+ .2	Minneapolis . . .	55	+ 5	.4	- .1	Huron . . .	55	+ 5	.1	- .4
San Diego . . .	62	0	0	- .1	Rochester . . .	54	+ 5	.2	- .4	Rapid City . . .	56	+ 7	.1	- .5
San Francisco . . .	53	- 3	.6	+ .3	St. Cloud . . .	52	+ 4	.1	- .5	Sioux Falls . . .	57	+ 6	.1	- .5
Stockton . . .	57	- 4	.5	+ .2	MISS. Jackson . . .	63	- 5	1.7	+ .6	TENN. Chattanooga . . .	58	- 5	.4	- .5
COLO. Denver . . .	57	+ 6	.2	- .3	Meridian . . .	66	- 2	.8	- .3	Knoxville . . .	61	- 2	.4	- .4
Grand Junction . . .	60	+ 5	T	- .1	MO. Columbia . . .	60	+ 1	T	-1.0	Memphis . . .	63	- 3	2.1	+ .9
Pueblo . . .	61	+ 6	0	- .4	Kansas City . . .	62	+ 3	.3	- .5	Nashville . . .	61	- 2	1.0	+ .1
CONN. Bridgeport . . .	55	+ 3	.4	- .4	St. Louis . . .	61	+ 1	.1	- .8	TEX. Abilene . . .	70	+ 2	T	- .7
Hartford . . .	54	+ 3	.1	- .7	Springfield . . .	62	+ 2	T	-1.1	Amarillo . . .	70	+10	T	- .4
D.C. Washington . . .	60	0	.3	- .4	MONT. Billings . . .	54	+ 6	.4	0	Austin . . .	72	+ 1	T	- .9
FLA. Apalachicola . . .	68	- 3	.8	+ .1	Glasgow . . .	55	+ 7	.5	+ .3	Beaumont . . .	71	0	2.2	+1.1
Daytona Beach . . .	67	- 4	.1	- .4	Great Falls . . .	52	+ 5	.8	+ .3	Brownsville . . .	78	+ 1	T	- .4
Ft. Myers . . .	74	- 1	0	- .5	Havre . . .	53	+ 5	.3	0	Corpus Christi . . .	76	+ 1	T	- .6
Jacksonville . . .	64	- 6	.4	- .3	Helena . . .	51	+ 4	.2	0	--	--	--	--	
Key West . . .	77	- 2	T	- .5	Kalispell . . .	50	+ 4	1.0	+ .7	Del Rio . . .	76	+ 2	.1	- .4
Lakeland . . .	70	- 4	T	- .5	Miles City . . .	54	+ 4	.3	- .1	El Paso . . .	73	+ 6	T	- .1
Miami . . .	76	0	.1	- .9	Missoula . . .	51	+ 4	.1	- .2	Fort Worth . . .	69	+ 1	T	-1.1
Orlando . . .	70	- 3	T	- .6	NEBR. Grand Island . . .	60	+ 6	T	- .7	Galveston . . .	73	+ 1	.2	- .4
Tallahassee . . .	62	- 8	.1	- .7	Lincoln . . .	60	+ 5	2.2	+1.6	Houston . . .	70	- 2	.3	- .7
Tampa . . .	70	- 4	0	- .4	Norfolk . . .	59	+ 6	.5	- .1	Lubbock . . .	71	+ 8	.4	0
W. Palm Beach . . .	75	0	0	- .8	N. Platte . . .	59	+ 7	T	- .5	Midland . . .	72	+ 5	1.0	+ .7
GA. Atlanta . . .	63	- 1	.5	- .5	Omaha . . .	60	+ 6	.1	- .6	San Angelo . . .	73	+ 3	T	- .5
Augusta . . .	62	- 5	.1	- .6	Valentine . . .	58	+ 8	T	- .5	San Antonio . . .	73	+ 1	.3	- .4
Macon . . .	66	- 3	.1	- .7	NEV. Ely . . .	44	0	T	- .2	Victoria . . .	74	+ 1	T	- .7
Savannah . . .	65	- 4	0	- .7	Las Vegas . . .	66	- 1	0	- .1	Waco . . .	70	0	.5	- .6
HAWAII. Hilo . . .	72	- 1	2.9	0	Reno . . .	49	0	.1	0	Wichita Falls . . .	69	+ 2	0	- .9
Honolulu . . .	76	+ 1	.1	- .1	Winnemucca . . .	45	- 3	.2	0	UTAH. Blanding . . .	52	+ 1	.2	0
Kahului . . .	75	+ 1	.1	- .1	N.H. Concord . . .	51	+ 3	.3	- .4	Salt Lake City . . .	55	+ 3	.1	- .4
Lihue . . .	75	+ 1	.9	+ .2	N.J. Atlantic City . . .	56	+ 1	.3	- .5	VT. Burlington . . .	51	+ 4	1.0	+ .4
IDAHO. Boise . . .	52	0	T	- .3	Trenton . . .	57	+ 2	.5	- .2	VA. Lynchburg . . .	58	- 2	.2	- .4
Lewiston . . .	54	+ 1	.7	+ .4	N.MEX. Albuquerque . . .	62	+ 3	T	- .1	Norfolk . . .	59	- 2	.3	- .3
Pocatello . . .	51	+ 2	T	- .3	Roswell . . .	69	+ 6	.1	0	Richmond . . .	60	- 1	.6	- .1
ILL. Cairo . . .	62	- 2	.1	-1.0	N.Y. Albany . . .	53	+ 2	.2	- .5	Roanoke . . .	58	- 1	.2	- .5
Chicago . . .	56	+ 3	.9	0	Binghamton . . .	52	+ 3	.2	- .6	WASH. Colville . . .	52	+ 3	.3	0
Moline . . .	58	+ 3	.6	- .3	Buffalo . . .	50	+ 2	.8	0	Omak . . .	54	+ 2	.6	+ .3
Peoria . . .	57	+ 2	.4	- .6	New York . . .	58	+ 3	.1	- .7	Quillayute . . .	47	0	1.6	- .1
Rockford . . .	55	+ 3	1.0	+ .1	Rochester . . .	53	+ 3	.7	- .0	Seattle-Tacoma . . .	50	- 1	.6	+ .1
Springfield . . .	59	+ 2	.2	- .8	Syracuse . . .	53	+ 3	.3	- .4	Spokane . . .	50	+ 1	.2	- .1
IND. Evansville . . .	59	- 1	.6	- .3	N.C. Asheville . . .	58	- 1	.3	- .5	Walla Walla . . .	53	- 2	.8	+ .4
Ft. Wayne . . .	54	+ 1	.9	+ .1	Charlotte . . .	61	- 3	.1	- .6	Yakima . . .	53	+ 1	1.3	+1.2
Indianapolis . . .	57	+ 1	.6	- .3	Greensboro . . .	58	- 4	.2	- .5	W. Va. Beckley . . .	53	- 1	1.0	+ .2
South Bend . . .	54	+ 2	.4	- .5	Hatteras . . .	60	- 2	.2	- .5	Charleston . . .	58	- 1	.3	- .5
IOWA. Burlington . . .	58	+ 3	.2	- .7	Raleigh . . .	60	- 2	.1	- .6	Huntington . . .	59	0	.1	- .7
Des Moines . . .	59	+ 5	3.8	-3.0	Wilmington . . .	64	- 2	.1	- .6	Parkersburg . . .	57	- 1	.2	- .6
Dubuque . . .	55	+ 3	1.8	+ .8	N.DAK. Bismarck . . .	51	+ 3	.5	+ .1	WIS. Green Bay . . .	54	+ 6	.1	- .6
Sioux City . . .	60	+ 6	.2	- .4	Fargo . . .	51	+ 4	1.3	+ .8	La Crosse . . .	56	+ 4	.2	- .5
KANS. Concordia . . .	64	+ 8	T	- .6	Williston . . .	52	+ 5	.3	0	Madison . . .	55	+ 6	.5	- .1
Dodge City . . .	67	+ 9	.1	- .4	OHIO. Akron-Canton . . .	54	+ 2	.2	- .6	Milwaukee . . .	50	+ 2	.5	- .2
Goodland . . .	60	+ 7	T	- .4	Cincinnati . . .	56	- 1	1.4	+ .6	WYO. Casper . . .	51	+ 5	T	- .4
Topeka . . .	63	+ 5	.1	- .8	Cleveland . . .	54	+ 2	.6	- .2	Cheyenne . . .	53	+ 7	T	- .4
Wichita . . .	64	+ 4	.2	- .6	Columbus . . .	55	+ 1	.3	- .6	Lander . . .	52	+ 5	T	- .6
KY. Lexington . . .	57	- 2	.4	- .5	Dayton . . .	56	0	.6	- .2	Sheridan . . .	52	+ 5	.2	- .4
Louisville . . .	59	0	.7	- .2	Toledo . . .	52	0	.4	- .3	P.R. San Juan . . .	80	+ 2	.6	- .4

Based on 1941-70 normals.

CONDENSED STATE SUMMARIES

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

ALABAMA: Plenty of sunshine during week with warm days and cool nights. Clearing followed Tuesday with rainfall amounts greatest north portions of central Alabama averaging 1.00 in. Clear dry weather for remainder of week with slightly below normal temperatures.

Farmers made excellent progress planting cotton, corn and peanuts. Scattered showers slowed fieldwork few localities north and central early week. Good progress made completing land preparation for soybeans. Few fields planted lower half. Cotton planting took priority, about 30% complete, 15% in 1973. Early plantings emerging fairly even stand, but cool temperatures slowing germination few northern localities. Corn 33% planted, 20% in 1973. Growers have slightly over 25% peanut crop in ground, about 10% in 1973. Small grains developing favorably, nearly 80% headed. Few fields yellowing. Irish potato harvest underway Baldwin County area. Hay crops making good growth with few fields about ready to cut.

ARIZONA: Cloudy, light showers central, east 24th, 25th. Otherwise fair, dry. Temperatures near normal early week, some cooling later, below freezing low as 5,000 ft. over weekend.

Cotton progressing well, planting approaching completion, some counties over 90% planted. Wheat, barley generally turning color, very near maturity Yuma area. Some harvesting for seed increased Yuma area. Sorghum looks good, stands established, some fields being readied for later planting. Harvesting sugarbeets to begin soon, good yields expected. Alfalfa hay cutting varies from completion to just starting first cutting in higher elevation areas. All areas looking good.

Lettuce harvest continued Salt River Valley, reached volume proportions Pima, Pinal Counties. Harvest mixed vegetables active. Melons good growth Yuma, Salt River Valley. Insect controls effective. Harvest potatoes expected week to 10 days. Dry onions good progress, digging expected early May. Picking Valencia oranges increased. Demand for Kinnows remains good. Harvest about complete. Grapefruit harvest increased, groves good. Early fruit set good all varieties. Ranges generally poor, stockwater short. Dryness limited growth new feed, supplemental feeding common. Livestock mostly fair.

ARKANSAS: North half dry entire week. South half dry most of week but did receive measurable amounts early week. Evenings quite cool during midweek. Temperatures near normal rest of week.

Heavy rains April 21 and 22 stopped fieldwork until midweek. Most fields in good shape, ready for planting. Little cotton planted, soil too cold. Rice crop 50% planted statewide. Early planted rice up. Corn 40%, sorghum 15% planted. Wheat and oats headed out. Pastures average, warm season grasses growing slowly. Livestock doing good on pasture. Fruit growers spraying pesticides. Limited harvesting of strawberries.

CALIFORNIA: Trend toward cooler temperatures continued. Average temperatures 3° to 5° subnormal. Precipitation confined mostly to northern half, generally about 0.50 in.

Small grains good progress, lodging few fields. Barley, oats green chopped. Rain delayed rice planting. New crop sugarbeets doing well, plantings continued. Cotton planting nearly complete; chopping, thinning, cultivation underway. Sorghum planting underway. Alfalfa harvest continued.

Rain, wet grounds some parts of State, but most areas spring fieldwork moving right along. Grape vines progressing normally. Almonds look good, walnuts leafing out. Pears generally good shape. Apple crop fair to good. Prunes looking good. Peaches fair to good, desert early peach harvest underway Riverside. Cherry harvest underway Stockton. Navel orange harvest final stages. Quality, color Valencia oranges good, harvest continues. Lemon harvest variable.

Avocado harvest slow. Asparagus continued strong. Broccoli strong Salinas. Cauliflower active south coast, increased Salinas. Carrots continued Imperial Valley. Lettuce strong San Joaquin Valley, rain delayed central coast. Onions began Imperial Valley, some rain damage delta region. Potatoes active Kern County. Strawberries strong south coast, rain disrupted central coast. Market tomatoes starting Imperial Valley. Canning tomato planting delayed by rain, early plantings progressing well. Livestock remain good to excellent. Rangeland, pastures good, drying in some areas. Water supplies ample north. Sheep shearing Sacramento Valley. Cattle to mountain pastures. Bee activity good in citrus, clover areas San Joaquin Valley.

COLORADO: Partly cloudy skies and mild temperatures most of week. Little precipitation except light rain in northeast and snow northern mountains. Six to eleven inches of snow reported in mountains west of Denver Sunday night. All areas averaged above normal temperatures southeast from 3° to 9° above normal. La Junta and Lamar had highs in 90's.

Fieldwork very active, warm, dry weather. Corn 13% planted, 5% 1973, 11% 1969-73 average. Spring barley 80% planted, 48% 1973, 75% 5-year average; 44% emerged. Oats 72% seeded, 43% emerged. Sugarbeets 62% planted, 19% 1973, 55% 5-year average; 21% emerged. Summer potatoes 35% planted, 4% emerged. All emerged spring planted crops generally good condition.

Winter wheat and barley good to excellent except southeast corner. Topsoil moisture declining all areas causing stress southeast. Worms and mites active eastern plains but spraying for control. Winter wheat 25% jointing, 24% 1973, 20% 5-year average. Winter barley 7% jointing. Livestock good. Ranges and pastures providing limited forage lower elevations.

FLORIDA: Mild days and cool nights. Temperatures averaged a few degrees below normal. Rainfall generally light in scattered showers early week.

Soil moisture mostly adequate west and central, but continued extremely dry central and south. Planting corn and tobacco about completed, cultivation active. Land being prepared for soybeans and peanuts. Sugarcane harvest nearly complete. Wheat and oats headed. Wheat outlook down due to disease problems. Pastures very poor to good. Cattle and calves fair to good.

Citrus groves need rain--irrigation continued in all areas--tree condition depends on available moisture--bloom all but complete. Valencia harvest full swing. Potato supplies increased as harvest in Hastings picks up. Sweet corn movement sharply up. Everglades moving toward volume, Zellwood start expected mid-May. Tomatoes in moderate supply, sharp increase expected week ended May 13. Watermelons steady. Harvest progressing into central areas. Cabbage in seasonal decline. Celery increased, peppers declined. Snap beans, cucumbers, escarole, lettuce steady. Squash, eggplant heavy.

GEORGIA: Showers most areas Monday followed by cooling trend. Coldest early Thursday with low to mid-30's north and freezing in mountains. Weekly average 3° to 5° subnormal statewide. Rainfall averaged 0.25 to 0.50 in. north and westcentral to less than 0.10 in. south third and none extreme southeast. Weekend fair and warmer.

Soil moisture adequate except short southcentral and southeast. Fieldwork very active. Most plantings later than normal. Cool nights slowed germination and growth. Corn 65% planted, subnormal, fair to mostly good. Tobacco 99% transplanted, some cool weather stunting, fair to mostly good. Cotton 28% planted, lowest on record, 5% emerged, fair to good. Peanuts 26% seeded, equals last year's record low, mostly fair to good. Heavy small grain losses in south to disease and insects, north mostly good. Peaches declined, now mostly poor to fair. Pastures, cattle good. Frost on apples north, damage not assessed, other areas OK.

HAWAII: Weather favorable to crop progress throughout State. Field preparations on Oahu and Kauai at standstill because of previous week's rainstorm. Farm activities included cleaning debris and repairs to land where eroded. On Maui and Hawaii, crop prospects continue good. Supplies of vegetables adequate. Bananas steady. Papayas increased gradually. Pasture and cattle in good condition. Sugar operations active. Pineapple operations still idle but expected active this week as strike ended.

IDAHO: Temperatures averaged near or slightly above normal, lows generally above freezing all areas except east. Warm days midweek brought snow melt in mountains, causing some rivers north, central, and east to rise near flood stage, but cooling at end of period slowed runoff. Precipitation below normal.

Fieldwork rapid progress lower elevations south and east, slowed by wet soil north and higher elevations. Seeding spring wheat and barley 25% complete north, 80% southwest and southcentral, 33% east. Fall grains look good, emerging spring grains average to good stands. Potato planting nearing 75% complete southwest, 30% southcentral, starting east. Onion seeding generally complete, stands good. Less than 33% dry peas, lentils seeded north. Dry pea seeding neared completion south. Sugarbeets 70% planted southcentral, nearly done southwest, 25% planted east. Orchard frost damage minimum, apples nearing full bloom.

ILLINOIS: Temperatures 1° to 3° above normal except west where temperatures slightly subnormal. Early week warm, cooling trend midweek. Warmest on 26th, 80°. Precipitation varied, heaviest early week southwest.

Corn 8% planted, last year just starting, 1971-73 average 10%. Rain delayed progress many areas. Oat seeding virtually complete most areas, 50% 1973, average nearly 75%. Just over 85% corn and soybean acreage plowed, 35% 1973, average nearly 70%. Winter wheat good to excellent 87%. Pastures good to

excellent 86%, supplying nearly 70% roughage needs. Hay crops mostly fair to good.

Fuel supplies 97% adequate, 3% short. Nitrogen 76% short, phosphate 44% short, potash 31% short. Remaining respondents reported adequate fertilizer supplies. Soil moisture short 2%, adequate 65%, surplus 33%. Averaged just over 4 days suitable fieldwork.

INDIANA: Excellent weather for outdoor activities. Above normal sunshine, temperature, and subnormal humidity and precipitation. Some killing frost on low lands of extreme northwest on 25th. Soil temperatures at 4-in. depth in 50's and low 60's.

Another good week for spring tilling and seeding activities. Five days suitable for fieldwork. Topsoil and subsoil moisture remained mostly adequate. Fieldwork one day ahead of normal. Corn and soybean land 70% plowed, 60% average, 20% in 1973. Less than 5% of corn seeded. Oats 70% seeded, 70% average, 25% 1973, progress doubled last week. Winter wheat 10 in. high, same as 1973, average 8 in. Few fields headed. Clover 85% seeded. Barley 15% headed. Rye 5% headed. Pastures improving, rated mostly fair to good.

IOWA: Temperatures averaged 3° to 6° above normal. Precipitation light and scattered except for locally heavy rains in central and eastcentral areas.

Fieldwork made good progress, 5 days suitable. Soil temperatures remain cool and ground drying slow northeast. Frost at midweek scattered locations. Oat seeding 95% complete, 56% 1973, 1968-72 average 88%. Corn 8% planted, about average, 5% 1973. Plowing 92% complete, 48% 1973, average 78%. Pastures supplying average feed, growth slow. Topsoil moisture 84% adequate, 9% surplus, 7% short, mainly west third. Subsoil moisture 89% adequate, 10% surplus, 1% short northwest. Other fieldwork mainly fertilizer application, discing and chisel plowing. Soil in good tilth.

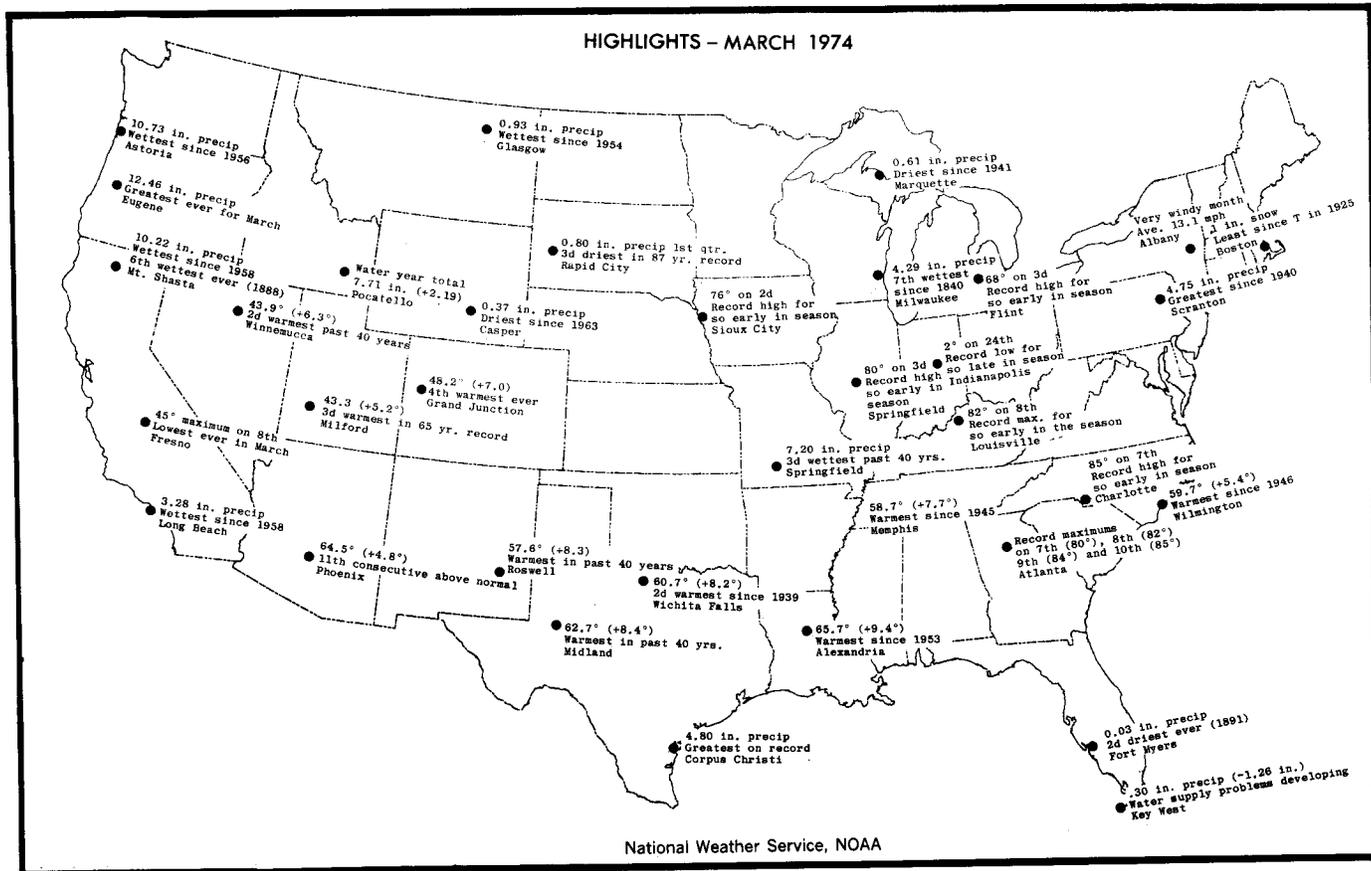
KANSAS: Some severe weather over weekend portions central. Temperature 10° above normal northwest and westcentral, 4° above normal northeast and southeast.

Wheat condition very good, 80% of acreage in or past jointing stage, 60% 1973 and average. Some southwest counties dry. Oat and spring barley seeding virtually complete. Corn acreage 15% seeded, equal to average. Sugarbeet planting well along. Alfalfa weevil problem serious central and eastern counties, spraying common. Nearly all cattle on native grasses. First summer fallow operations completed west.

KENTUCKY: Temperatures averaged near normal. Scattered frost midweek. Well above normal over weekend. Showers early week averaged near 0.75 in. with locally heavier amounts.

Farmers averaged 4 days in field, less western areas, more central and eastern. Soil moisture 21% short, 61% adequate, 18% surplus. Surplus primarily in west, topsoil moisture short northern bluegrass. Corn 18% planted, 2% 1973 and 9% 1972. Tobacco plant size: Dime or less 72%, quarter 21%, half dollar 7%. Growth comparable last year. Tobacco plants fair to good, watering necessary in central and bluegrass. Wheat 18%, barley 69% headed or heading. Alfalfa average height 10 in. Pastures mostly good, rain would be welcome many central and bluegrass areas.

LOUISIANA: Temperatures averaged from normal to 4° below. Mild all week. Extremes 89° Hammond, 43° Winnfield. Precipitation widespread early



week. Greatest amount 4.03 in. at Cotton Valley 22nd, 23rd.

Fieldwork limited north. Planting active elsewhere. Soil moisture surplus north, adequate elsewhere. Fieldwork 3.7 days. Wet soil continued to delay cotton planting northeast, 10% planted, 1% 1973. Corn 70% planted, 20% 1973, cool soils slowed growth, stands poor. Rice 85% seeded, 20% 1973, 75% 1972. Water mold problems several fields. Sugarcane good. Fieldwork ahead of last year. Sweet potato transplanting active. Commercial strawberry harvest over. Pastures average. Cattle good to fair.

MARYLAND-DELAWARE: Temperatures near normal except 3° below Garrett County. Highs mid-70's to low 80's and low, mid-20's to mid-30's. Precipitation light, 0.25 to 0.75 in., heaviest Eastern Shore.

Good work week. Plowing and land preparation chief jobs, soil temperatures too low for good germination. Corn planting 13% done, 18% 1973, average 10%. Small grain generally good, barley starting to head. Tobacco marketing being pushed. Apples and strawberries in full bloom. Potato planting nearly done. Vegetable planting underway. Asparagus harvest started.

MICHIGAN: Temperatures averaged near normal south to 7° above north lower. Upper 70's to low 80's over lower peninsula 27th. Frost and freezing lower peninsula mornings of 24th, 25th. Precipitation light, less than 0.30 most areas.

Cold, wet soils slowed fieldwork until near end of week. Averaged 4.6 days suitable for fieldwork. Soil moisture mostly adequate to surplus. About 36% of acreage intended for spring planting was fall plowed. Oats 36% planted, 33% 1973. Sugarbeets 19%, potatoes 6% planted. Field corn planting started. Wheat good, 48% reported less than average and 46% average winter damage. Only 2% of 1973 corn crop left to harvest this spring. Crib-

bed corn condition mostly good. Tree fruit and bud development near normal but later than last year. Little or no freeze damage to fruit buds. Early vegetable planting starting.

MINNESOTA: Temperatures averaged 3° to 5° above normal. Precipitation 0.75 to 1.50 in. above normal northwest and 0.25 to 0.50 in. above normal northcentral and northeast. Elsewhere below normal.

Tilling operations of row crop acreage and small grain seeding well advanced in south half but wet conditions delayed start of fieldwork north. Spring wheat 21% planted, normal 30%, 1973 74%. Oats 42% planted, normal 35%, 1973 69%. Barley 11% seeded, normal 21%, 1973 56%. Tilling of corn land 27% completed, soybeans 13%. Few farmers south starting to plant corn. Top and subsoil moisture largely adequate except northwest adequate to surplus, southwest short to adequate.

MISSISSIPPI: Mild early and late week. Rain with some locally heavy amounts early week. North half recorded measurable rainfall on 22nd, rain spread over most of State by 23rd. Temperatures averaged 2° to 3° subnormal for week. Weekend mild, dry.

Soil moisture supplies adequate to excessive. Averaged 2.5 days suitable for fieldwork. Wheat and oats 90% headed. Corn 43% planted, 24% up to stand, rated fair to good. Cotton 13% planted, 3% up to stand, rated mostly fair to good. Rice 68% planted, 10% up to stand, rated fair to good. Less than 1% soybeans planted. Sorghum 2% planted. Sweet potatoes 10% planted. Irish potatoes and truck crops fair to good. Peaches poor to good. Pastures and livestock fair to good.

MISSOURI: Showers and thunderstorms general early week, amounts quite variable. Total rain for month as much as 1.00 to 2.00 in. Subnormal over much of State except for Bootheel area. Soil getting dry some areas. Temperatures averaged near normal. Cold on 24th with frost and

near freezing temperatures many areas. Warm early and latter half week.

Five days suitable for fieldwork. Intended plowing now 75% complete, normal 57%. Corn planting 33% complete, normal 17%. Seeding of oats virtually complete, normal 54%. Pastures generally fair to good. Soil moisture 27% short, 64% adequate, 9% surplus.

MONTANA: Dry, warm weather first half week interrupted over weekend by spring storm, giving colder temperatures, rain or snow, and gusty northerly winds most divisions. Temperatures averaged above normal, with highest maximums midweek in 70's and 80's dropping to 40's later.

Warm weather speeded spring seeding. Nearly 40% spring wheat and oats, 45% barley, 65% sugarbeets, 10% corn, and potatoes, and under 5% beans sown. Weekend rain and snow brought welcome moisture, especially to northcentral, but more needed all areas except northwest. Range grass growth accelerating but supplies still short. Nearly 70% livestock on supplemental feed. About 10% cattle and sheep moved to summer ranges.

NEBRASKA: Temperatures averaged 4° to 8° above normal with cooler period early week. Scattered showers late week produced up to 2.22 in. rain southeast while some areas south received none.

Winter wheat improved, 84% good, 11% excellent, 8% fair. Early seeded fields making rapid growth, however, some late seedings show little improvement. Oats and barley seeding virtually complete. Early seeded fields up and showing good growth. Corn planting in full swing most areas, nearly 5% planted, slightly ahead of normal. Alfalfa and wild hay good. Farmers prepared seedbeds applied herbicides and fertilizer, plowed, disked, seeded, repaired machinery and fences with 6 days suitable for work.

Fertilizer supplies generally short in 94% counties and adequate in 6%. Counties with short supplies report about 78% fertilizer available to meet current needs and demand. Soil moisture adequate. Range and pasture feed adequate except short northcentral, northeast. Livestock good. Cattle moving to summer range and grazing in some winter wheat fields.

NEVADA: Temperatures ranged from 86° Las Vegas and Logandale to 12° McDermitt. Light precipitation mid-week confined to north and central. McDermitt recorded heaviest, 0.30 in. Reno had 0.10 in. Deepest snow depths in Sierras 95 in. at Alpine Meadows, 90 in. Norden and 74 in. Echo Summit.

First cutting alfalfa hay about completed southern valleys. Planting small grains and cotton active. Topsoil dry and blowing. Irrigating underway. Cattle moving to spring and summer ranges. Dry spring limited grass growth ranges central and south.

NEW ENGLAND: Early week temperatures 10° to 20° above normal, 80° readings as far northeast as Portland, Me. Showers and thunderstorms accompanied arrival of colder air 22nd, 23rd. Local heavy amounts 1.00 to 1.50 in. some areas. A late snow also fell on south and central Maine and New Hampshire, amounts 2 to 8 in.

Temperatures coldest on 24th, 10° to 20° sub-normal, highs that day only reached around 40° north and 50° south. Warming trend began 25th, mostly sunny and dry rest of week. By Sunday temperatures back to as much as 20° above normal. Readings in 70's and 80's common except north Maine.

NEW JERSEY: Temperatures averaged well above normal on 23rd, 29th. Midweek cool with many stations reporting frost on 25th through 28th. Extremes 82° at Freehold and Toms River on 23rd, 29° at Newton and Belvidere on 25th. Week averaged above normal central and south. Weekly rainfall totals subnormal for second week. Northern counties averaged 0.10 in. central 0.20 in., and south 0.30 in.

Soil preparation and planting active. Asparagus harvest increased. Spinach and "greens" available. Tomato planting begun. Early planted snapbeans and potatoes breaking ground. Apples and blueberries in bloom. Strawberries beginning to bloom. Grain crops made good growth. Soil preparation for field corn well advanced.

NEW MEXICO: Widely scattered showers eastern plains and some mountainous areas middle and last half week. Rain amounts negligible except some rain and melted hail totals near 0.33 to 0.50 in. near east border. Warming trend early week, readings remained high thereafter. Temperatures averaged 2° to 8° warmer than normal. Nighttime freezing temperatures only at higher elevations.

Weather dry, cloudy, moisture short to very short. Ranges poor to fair, livestock fair to good. Irrigated wheat fair to good, dryland wheat poor, considerable acreage abandoned. Winter, spring barley good. Alfalfa good, first cutting starting southern areas. Cotton about 25% planted south. Apples fair to good, considerable fruit lost to earlier freezes. Lettuce, onions good. Fieldwork active.

NEW YORK: Temperatures averaged up to 5° above normal but ranged widely. Elmira had low 28° on 25th and high 89° on 28th. Most Up-state points had highs in 80's and lows in 20's or low 30's. Saranac Lake had 18° on 25th after 2 in. of snow on 24th. Precipitation generally subnormal averaging from near normal in Buffalo-Rochester area to below normal over lower Hudson Valley and Long Island.

Plowing and readying soil for field crops major farm activities. Cool weather and wet soils have slowed field progress now behind last year. Oat seeding widespread. Small amount of silage corn planted. Wheat mostly good. Cool weather delaying pasture and hay growth. Soil moisture adequate. Long Island potato planting over half completed and planting of vegetables active. Orange County onion planting continued while earliest planted in flag stage. Celery transplant underway. Elba area onion planting about 40% complete. Early plantings emerging. Oswego area onion planting heavy, lettuce planting continues. Some first planting lettuce up. Cool temperatures have slowed orchard development. Freeze damage to peaches and cherries evident in west. Hudson Valley peaches and sweet cherries blooming.

NORTH CAROLINA: Dry week. Temperatures and precipitation averaged below normal. Cold front moved eastward across State 23rd. Scattered light frost mornings of 25th, 26th.

Soil moisture decreased to mostly adequate. Averaged 4.9 days suitable for fieldwork. Corn acreage 44% planted. Flue-cured tobacco transplanting about 19% complete. Cotton planting underway, about 17% of crop seeded. Truck crops, Irish potatoes, small grains fair to good. Reports of mildew in wheat. Pastures in good shape. Peaches fair.

THE COMPUTER DOOED IT!!!

A computer "bug" has confounded already late efforts to begin publishing the Growing Degree-day maps for 1974. We fully expect to begin publishing the maps next week.

NORTH DAKOTA: Temperatures 3° above normal, northwest 5° above normal. Highs ranged from 81° at Rugby to 56° at Grand Forks, lows ranged from 59° at Ft. Yates and Rugby to 23° at McHenry. Precipitation all divisions above normal except southeast 0.13 in. below normal. Greatest totals at Ft. Yates 4.34 in. of which 4 in. fell on April 20. Weekend brought additional rainfall all reporting stations with 1.31 in. at Fargo. Temperatures remained cool.

General rains again delayed fieldwork. Minimal fieldwork and planting accomplished to date, and only in southern counties. Season late, pastures starting to furnish feed.

OHIO: Rain on 22nd and 23rd with a few severe thunderstorms on 22nd, heaviest amounts ranged up to 1.50 in. in Cincinnati area. Less than 0.10 in. on 23rd, 24th, and 28th. Cold front dropped temperatures below freezing on 25th. Low of 21° at Toledo. Warming over weekend with temperatures in 80's on 27th and a high of 88° at Portsmouth on 28th.

More than 15% of corn planted. Soybean planting nearly 5% done. Both a week ahead of normal. Sugarbeet planting nearing completion. Winter wheat reported mostly good with northwest quarter of State reporting good to excellent. Soil moisture supplies mostly adequate.

OKLAHOMA: Temperatures averaged from 4° below normal in southeast to 7° above normal panhandle. Precipitation light. Weekend warm with rain showers most areas along with some thunderstorms.

Wheat development rapid past week, 32% headed, compared 18% 1973. Oats 19% headed, 9% 1973. Barley 31% headed, 15% 1973. Beneficial rainfall from thunderstorms several areas. Panhandle wheat remains in poor condition due to lack of moisture. Corn 26% planted, 7% 1973. Rainfall early Monday, April 29 believed general and substantial. Seedbed preparation sorghums, soybeans, peanuts ranges 35% to 75% complete. Livestock good condition as range, pasture grasses made good growth except in drier areas.

OREGON: Precipitation during most of week, abundant amounts east last half week. Hermiston wettest with 1.60 in., three times normal. West, southeast near normal amounts. Temperatures averaged near normal except 2° to 4° subnormal south third. Highs in 60's to 70's mainly early week. Lows near end of week with mid-20's and 30's east, 30's to low 40's west.

Frequent showers interrupted progress of spring work. Crop conditions good. Plowing, spraying, fertilizing seeding continued. Chemical, fertilizer supplies short; fuel mostly adequate. Vegetable planting continued. Radish, asparagus, rhubarb harvest continued. Pears mid-bloom at Hood River. Apples blooming at Medford. Western pastures overgrazed, growth slow. Ranges improving.

PENNSYLVANIA: Mild beginning, very cool mid-week, moderating to summertime levels weekend. Low of 22° northcentral morning of 25th. In 80's most places Sunday afternoon and 90° central. Even overnight lows remained in the 50's and 60's Sunday night. Warmest week statewide since

October and first 90° reading since early September. Showers early week produced from 0.50 to 0.75 in. rainfall northwest and parts central to less than 0.25 in. elsewhere.

Spring plowing exceeds midway point and oats 70% seeded south two-thirds. North third, spring plowing 25% completed, oats 20% seeded. Hay fields and pastures green and progressing well. Amount of feed from pastures average to below. No hay harvest yet. Winter wheat and barley greening nicely. Peach bud development in post-bloom stage with pears mostly full bloom. Apples between first bloom and full.

PUERTO RICO: Island average rainfall 0.36 in. or 0.94 in. below normal. Highest weekly total rainfall 6.07 in. at Hac Constanza Mayaguez. Highest 24-hour total 5.55 in. at Hac Constanza. Temperatures averaged about 77° coasts and 72° interior. Extremes: 92° at San Juan, 54° at Utuado. Sugarcane harvest continued normally.

Dry weather preventing farmers from planting and is hurting cane already planted. It is also retarding coffee flowering and setting of fruit and preventing new growths from developing. Harvesting and curing of tobacco good but growth arrested. Pastures declined. Food crops hurt by drought.

SOUTH CAROLINA: Temperatures near normal early, late week but below normal midweek. Scattered frost reported morning of 25th west, central. Rainfall much lighter than usual, weekly totals from 0.50 in. mountains to few tenths near coast, most fell Monday night.

Soil moisture short to adequate. All growing crops need good rainfall. Cool temperatures slowing germination. Cotton 36% planted, 32% 1973. Corn fair to good, 74% planted, 56% 1973. Tobacco fair to good, 94% planted, 59% 1973. Some replanting necessary due to cool weather, frost. Flea beetles, blue-mold, cut worms, wire worms causing problems in tobacco. Small grains good to fair. Wheat suffering from powdery mildew, rust, lack of moisture, army worms. Hay crops, pastures good. Peaches fair to good in piedmont, poor to fair elsewhere. Spring vegetables fair to good, some damage to cucumbers from cold. Watermelons 87% planted, some damage from cold. Peanuts 31% planted, 30% 1973.

SOUTH DAKOTA: Cool, dry early week, temperatures in upper 70's and mid-80's later in week. Extremes: 88° at Edgemont and Oral on 25th, 21° at Summit on 22nd. Temperatures averaged 4° to 9° above normal. Precipitation fell over most of State end of week, generally less than 0.25 in.

Fieldwork made good progress. Spring seeding ahead of normal, behind last year. Spring wheat 74% seeded, normal 70%, 83% 1973. Oats 77% seeded, 83% 1973, normal 74%. Barley 66% seeded, normal 61%, 81% 1973. Flax seeding at 20% and spring plowing at 50% complete, both same as year ago, 8 points ahead of normal. Corn planting just started in eastcentral and southeast. Winter wheat and rye greening up, but growth slow due to cool nights. Some early planted spring grains have emerged.

Livestock good. Calving and lambing generally finished, losses light due to favorable weather. Pastures greening up but growth slow, more warm weather needed.

TENNESSEE: Rains, locally heavy in west early week. Clear remainder of week. Temperatures averaged slightly above normal although frost reported in east morning of 25th.

Torrential rains west third further delayed land preparation, many lowland fields under water. Much of small planted acreage corn and cotton washed severely, will need replanting. Dry weather east half pushed fieldwork to near normal levels. Corn 20% planted, average 30%, 5% 1973. Cotton 5% planted, average 15%, almost none 1973. Alfalfa weevil causing considerable damage to alfalfa. Some late apple trees blooming and appear to have survived late March freezes. Wheat 40%, oats 33%, and over 50% barley headed. Considerably above normal for all three crops. Many heading with short foliage. Small grains only fair, some deterioration from week earlier.

TEXAS: Dry week. Only west Texas averaged above normal precipitation. Some relief came to sections of panhandle, central and east. Temperatures averaged as much as 11° above normal in panhandle and slowly tapered down to near normal along coast.

Seeding cotton, corn, sorghum, rice, peanuts made satisfactory progress. Early stands cotton, corn, sorghum excellent progress. Seedbed preparation neared completion high, low plains. Seeding to begin soon as planting moisture adequate. Wheat, oats satisfactory progress south, east. In high and low plains, only irrigated wheat showing satisfactory progress. Few fields south Texas already harvested. Major crops percent planted: Cotton 24, 1973 10; corn 83, 1973 68; sorghum 42, 1973 38; peanuts 8, 1973 11; rice 88, 1973 46.

Lower Rio Grande Valley: Onion harvest continued. Some carrots, potatoes, cabbages harvested. Tomatoes good growth. Cantaloups harvest to start next week. Laredo: Onion and carrot harvest continued. Coastal Bend: Cucumber, squash harvest underway. Watermelons fruiting. Onion harvest near completion. Some carrots ready for harvest. San Antonio-Winter Garden: Strawberry harvest passed peak. Potato digging begun early fields, onion harvest underway. Light supplies cabbage, carrots available. Watermelons, cantaloups average growth, blooming but moisture needed some areas. Upper Gulf Coast: Tomatoes fruiting. Harvest of potatoes, squash, green beans underway.

UTAH: Few isolated light areas of rain or snow. Average temperatures near normal.

Spring fieldwork made good progress. Soil moisture very short to adequate. Planting of spring grains, dry onions, and green peas well along. Sugarbeet planting passed mid-point. Sweet cherries, pears, and peaches in bloom. Good fruit crops still expected. Range lambing has good start. Calving and shearing about 75% done. Movement of cattle and sheep to spring ranges about half done. Ranges and pasture providing part of feed for range cattle and calves--very little for dairy cattle.

VIRGINIA: Temperatures averaged 2° below normal. Extremes: 90° and 26°. Precipitation averaged 0.40 in. during showers early week.

Good fieldwork progress with 5.3 days open weather along with 4.8 days previous week for

best 2-week period thus far. Topsoil moisture 75% adequate, 25% short. Corn 23% planted statewide, about 50% in Tidewater. Some earlier planted fields up and in good condition. Peanut planting beginning, expected to be in full swing couple of weeks. A few early fields of cotton and soybeans planted. Tobacco plantbeds good, a few early fields flue-cured transplanted. Small grains generally good, some disease and powdery mildew problems. Final potato planting in upper Accomack County in wind-up stage. Tomato, snapbean, sweet corn and cabbage planting active. Pastures good, need rain to prevent deterioration.

WASHINGTON: West: Temperatures averaged near normal or a little below. Highs 50's, lows 40's. Precipitation above normal, heaviest amounts midweek. Weekly totals ranged 0.10 to 2.00 in. Raspberries, strawberries, blueberries showing good growth although late in a few areas. Planting of early vegetables, potatoes, field corn, peas continued. Alfalfa, new grass, spring grain being seeded. Tulip, field rhubarb harvest neared completion. Cool, wet weather retarded pasture growth.

East: Temperatures slightly below normal. Highs 60's, lows 30's. Precipitation above normal, heaviest midweek, caused some local flooding. Weekly totals varied from 0.10 to over 1.00 in. Apples in full bloom in earliest areas but hampered by moisture in others. Planting potatoes, beets, beans, sweet corn underway. Asparagus harvest, sugarbeet thinning continued. Wheat fields being sprayed, fertilized. Some fields in boot stage. Spring seeding of wheat, barley winding down. Calving and lambing ending.

WEST VIRGINIA: Temperatures near normal. Light frosts most areas Wednesday morning and over entire State Thursday. Lows in high 20's and low 30's, highs in high 70's and low 80's. Precipitation normal except northeast below normal. Most rain fell early week.

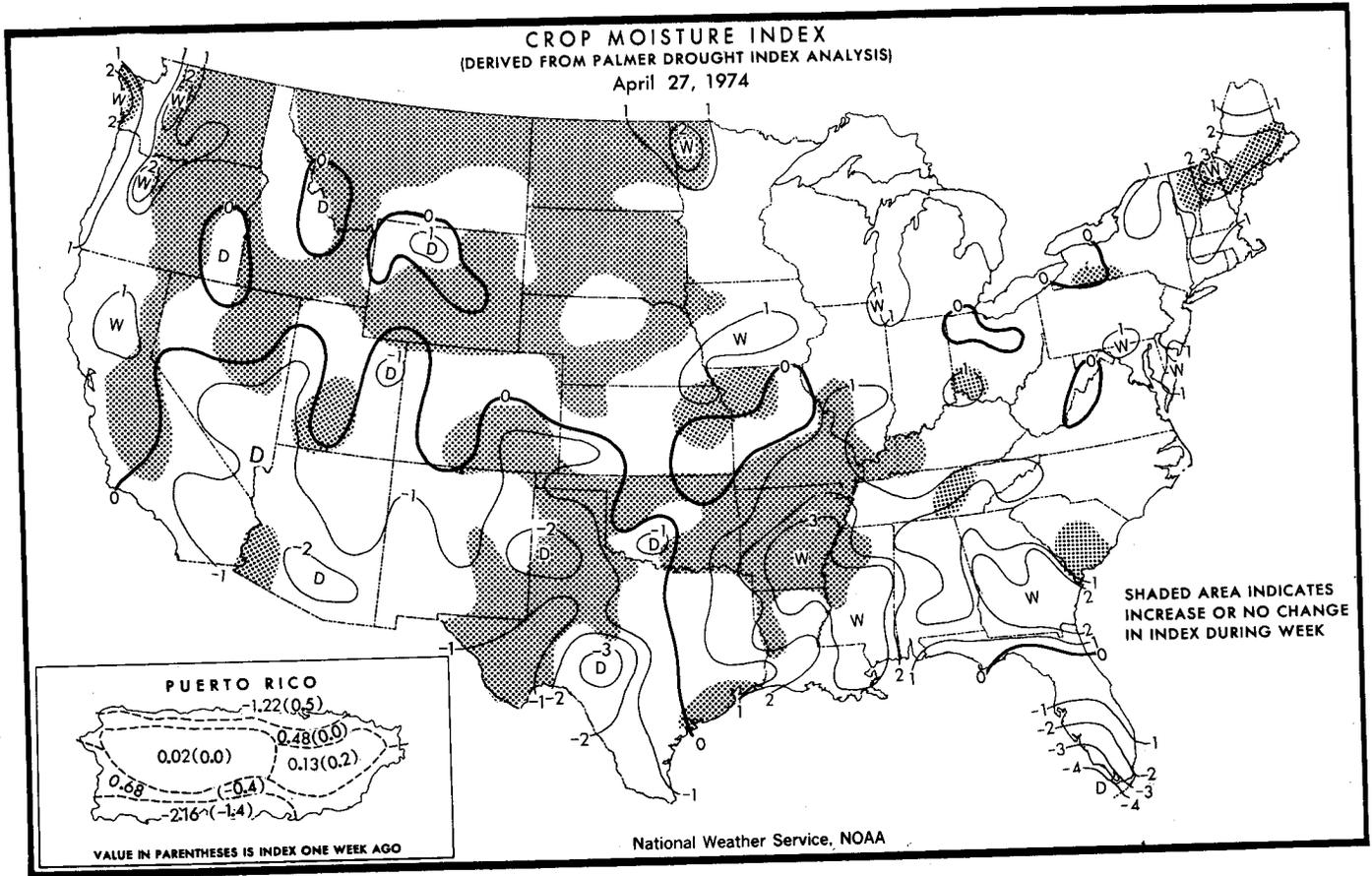
Excellent drying conditions mid and late week. Field work 4.1 days. Spring oats 57% planted. Potatoes 58% seeded. All tobacco beds seeded, 56% emerged. Livestock good. Wheat and barley good condition. Oats and pasture fair to good.

WISCONSIN: Temperatures averaged well above normal in all areas.

Soils dried and warmed nicely during sunny, warm weather. Oats planting 35% done, 1973 35%, normal 30%. Many done in south where a little corn planted. Some barley and spring wheat planted south. Winter wheat doing well. Spring plowing 33% done, 1973 and normal 30%. Ground working up nice for spring planting. Potato and pea planting active. Early cabbage going in southeast. Sprays applied to apple trees, mulch removed from strawberry beds. Tobacco beds steamed and seeded. Hay fields and pastures greening and growth picking up with warmer temperatures. Outlook for new seedings encouraging. Soil moisture 5% short, 70% adequate, 25% surplus.

WYOMING: Above normal temperatures across State, highs mostly in upper 70's and lower 80's and lows mostly in 20's. Precipitation varied over State with many stations reporting none.

Planting small grains, sugarbeets progressed. Spring wheat, oats about 50% seeded, barley 60%, sugarbeets 70%. Spring wheat, oats, sugarbeet emergence about 10%, barley 20%. Topsoil, subsoil moisture adequate. Current winter wheat prospects good.



SHADED AREAS: Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- Below -4.0 Not enough rain, still extremely dry

UNSHADED AREAS: Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.



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Heating Degree Days (Base 65°) For Week Ending April 28, 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 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73
ALA. Birmingham	25	11	2138	-694	-840	Portland	110	-23	6467	-508	-398	Tulsa	6	-16	3306	-342	-702
Mobile	4	4	1037	-647	-558	MD. Baltimore	56	-3	4241	-364	-180	OREG. Astoria	122	11	4792	176	270
Montgomery	17	10	1643	-616	-525	MASS. Boston	82	-11	4996	-356	-212	Burns	150	23	6369	-202	-398
ARIZ. Flagstaff	129	-13	6044	-559	-1502	MICH. Alpena	107	-40	7551	-322	-30	Medford	125	37	4247	-315	-279
Phoenix	0	-7	1093	-457	-459	Detroit	79	-17	5916	-205	-42	Pendleton	81	0	4453	-475	-741
Tucson	0	-8	1642	-63	-733	Flint	91	-18	6233	-407	11	Portland	98	0	4051	-326	-64
Winslow	56	-12	4662	82	46	Grand Rapids	97	-6	6322	-138	-64	Salem	105	11	4418	19	-269
Yuma	0	0	907	-98	-283	Houghton Lake	106	-27	7513	-290	-56	PA. Allentown	74	-8	5023	-573	-340
ARK. Fort Smith	13	-1	3042	-275	-816	Lansing	94	-9	6419	-135	-232	Erie	107	-11	5791	-613	-266
Little Rock	24	8	2645	-684	-586	Marquette	124	-25	7604	-69	-129	Harrisburg	47	-16	4507	-573	-360
CALIF. Bakersfield	22	-1	1760	-398	-452	Muskegon	112	-1	6431	-49	182	Philadelphia	45	-18	4313	-414	-195
Eureka	117	14	4006	37	133	S. Ste. Marie	125	-35	8537	83	398	Pittsburgh	101	21	5026	-657	-242
Fresno	42	11	2378	-204	-453	MINN. Duluth	132	-24	9251	215	-83	Scranton	92	1	5946	-67	-115
Los Angeles	45	6	1333	-289	18	Internatl Falls	128	-27	9797	-79	367	R.I. Providence	88	-15	5184	-467	-132
Red Bluff	28	28	2685	80	-380	Minneapolis	71	-40	7533	-386	-78	S.C. Charleston	22	15	1393	-746	-550
San Diego	22	-8	1030	-338	-90	Rochester	77	-35	7618	-210	-261	Columbia	21	14	1592	-992	-864
San Francisco	84	21	2741	45	-25	St. Cloud	88	-34	8326	-101	-77	Greenville	39	21	2730	-400	-373
Stockton	51	13	2458	-257	-285	MISS. Jackson	18	11	1746	-546	-610	S.DAK. Aberdeen	78	-35	8153	-39	609
COLO. Denver	54	-44	5532	-125	-585	Meridian	9	2	1537	-842	-718	Huron	66	-38	7264	-420	-12
Grand Junction	36	-34	5778	343	-557	MO. Columbia	43	-8	4708	-230	-440	Rapid City	64	-49	6450	-391	-608
Pueblo	30	-40	4965	-236	-859	Kansas City	31	-19	4766	-260	-482	Sioux Falls	69	-33	7064	-424	-273
CONN. Bridgeport	67	-26	4664	-524	-628	St. Louis	46	3	4497	-130	-294	TEX. Chattanooga	49	26	2898	-550	-792
DELA. Wilmington	78	-18	5540	-536	-117	Springfield	35	8	3977	-482	-648	Knoxville	35	11	2833	-592	-635
D.C. Washington	40	-1	3325	-804	-466	MONT. Billings	76	-41	6268	-505	-925	Memphis	22	8	2500	-702	-954
FLA. Apalachicola	1	1	790	-571	-381	Glasgow	74	-48	7958	-485	12	Nashville	40	17	2950	-695	-501
Daytona Beach	4	4	515	-382	-226	Great Falls	77	-47	6752	-339	-382	TEX. Abilene	2	-10	2088	-509	-1220
Ft. Myers	0	0	234	-223	-114	Havre	84	-41	7543	-752	-123	Amarillo	7	-38	3379	-703	-1441
Jacksonville	16	16	933	-394	-241	Helena	96	-34	7157	-404	-1047	Austin	0	-1	1310	-427	-815
Key West	0	0	41	-21	-20	Kalispell	103	-33	7115	-717	-509	Brownsville	0	0	422	-230	-499
Lakeland	0	0	383	-295	-243	Miles City	79	-27	6828	-628	-531	Corpus Christi	0	0	703	-227	-532
Miami	0	0	131	-75	7	Missoula	99	-26	6770	-529	-482	Del Rio	0	0	1063	-460	-685
Orlando	0	0	408	-296	-101	NEBR. Grand Island	32	-47	6004	-172	-391	El Paso	0	-8	2281	-395	-632
Tallahassee	10	10	1106	-457	-397	Lincoln	44	-27	6049	37	-190	Fort Worth	2	-5	1853	-527	-838
Tampa	0	0	418	-300	-205	Norfolk	46	-40	6296	-417	-417	Galveston	0	0	730	-494	-672
W. Palm Beach	0	0	174	-125	-14	North Platte	46	-47	6413	-3	-493	Houston	2	2	1137	-297	-756
GA. Atlanta	26	8	2305	-759	-612	Omaha	47	-31	6059	-298	-327	Lubbock	3	-22	2620	-890	-1472
Augusta	27	19	1973	-562	-384	Valentine	55	-50	6503	-424	-567	Midland	0	-9	2017	-602	-1331
Macon	11	4	1587	-645	-464	NEV. Ely	148	3	6931	-133	-721	Beaumont	2	2	1106	-412	-797
Savannah	11	4	1274	-678	-313	Las Vegas	10	-7	2418	-169	-601	San Angelo	0	-7	1637	-601	-1104
IDAHO. Boise	90	-3	4960	-500	-554	Reno	113	3	5161	-359	-968	San Antonio	0	0	1220	-350	-636
Lewiston	79	-6	4837	-289	-303	Winnemucca	143	23	5439	-650	-968	Victoria	0	0	842	-385	-673
Pocatello	94	-22	6359	-200	-741	N.H. Concord	102	-19	6922	-34	-464	Waco	0	-2	1630	-428	-1033
ILL. Cairo	36	14	3424	-366	-462	N.J. Atlantic City	63	-7	4234	-555	-153	Wichita Falls	1	-10	2272	-617	-1134
Chicago	76	-6	5628	-245	-155	Trenton	55	-13	4373	-423	-174	UTAH. Salt Lake C	67	-22	5374	-262	-649
Moline	63	-12	5905	-267	-16	N.MEX. Albuquerque	25	-20	4190	-34	-601	VT. Burlington	101	-25	7269	-180	-197
Peoria	63	-10	5570	-313	-283	Roswell	6	-19	3008	-664	-756	VA. Lynchburg	50	8	3637	-501	-415
Rockford	74	-17	6189	-370	-6	N.Y. Albany	89	-11	6537	-39	208	VA. Lynchburg	45	11	2674	-753	-480
Springfield	56	4	4984	-415	-393	Binghamton	92	-24	6344	-615	-410	Richmond	44	10	3265	-602	-341
IND. Evansville	52	10	3871	-648	-650	Buffalo	103	-14	8215	-300	40	Rosnoke	51	4	3519	-675	-540
Fort Wayne	78	-7	5651	-297	-58	New York	53	-17	4333	-413	-350	WASH. Quillayute	126	3	5420	231	168
Indianapolis	64	-4	4692	-698	-413	Rochester	86	-20	5988	-373	37	Seattle-Tacoma	103	2	4348	-303	-337
South Bend	79	-15	5349	-811	-253	Syracuse	90	-13	6241	-88	117	Spokane	105	-7	6150	-184	-19
IOWA. Burlington	55	-16	5593	-350	-287	N.C. Asheville	53	7	3375	-736	-421	Walla Walla	80	9	4216	-377	-517
Des Moines	47	-31	5891	-587	-551	Hatteras	37	10	1846	-832	-429	W. VA. Beckley	82	7	5295	-358	-272
Rockford	71	-23	6723	-234	-138	Charlotte	33	15	2750	-430	-541	Charleston	55	8	3807	-648	-446
Sioux City	43	-38	6103	-608	-363	Cincinnati	52	22	3744	-702	-599	Huntington	51	2	3752	-734	-662
KANS. Concordia	25	-39	5183	-250	-445	Wilmington	23	13	1682	-742	-572	Parkersburg	59	6	4092	-583	-325
Dodge City	13	-43	4514	-382	-1092	N.Dak. Bismarck	99	-22	8854	302	724	WIS. Green Bay	84	-36	7308	-329	167
Goddard	41	-47	5665	-161	-693	Fargo	95	-30	9123	315	503	LaCrosse	69	-22	6882	-243	-149
Topeka	28	-24	4864	-235	-395	Williston	87	-38	8683	34	295	Madison	78	-32	6923	-410	21
Wichita	18	-24	4530	-50	-577	OHIO. Akron-Canton	81	-10	5211	-723	-134	Madison	103	-15	8474	-501	-227
KY. Lexington	60	10	3878	-725	-329	Cleveland	87	-6	5112	-740	-308	WYO. Casper	93	-38	6936	-50	-874
Louisville	51	5	3997	-626	-444	Columbus	70	5	4701	-793	-326	Cheyenne	82	-49	6521	-150	-942
LA. Baton Rouge	1	1	1050	-620	-590	Cincinnati	67	8	4479	-430	-345	Lander	90	-39	7086	-217	-1828
Lake Charles	0	0	1104	-394	-690	Dayton	76	3	4951	-493	-224	Sheridan	91	-33	6818	-315	-703
New Orleans	3	3	931	-534	-683	Toledo	90	-1	5988	-103	14						
Shreveport	9	2	1910	-253	-534	Youngstown	90	-7	5667	-436	-355						
MAINE. Caribou	150	-19	8944	0	-343	OKLA. Okla. City	10	-13	3276	-377	-891						

* Based on 1941-70 Normals. † Accumulated from July 1, 1973.