

Weekly Weather & Crop Bulletin

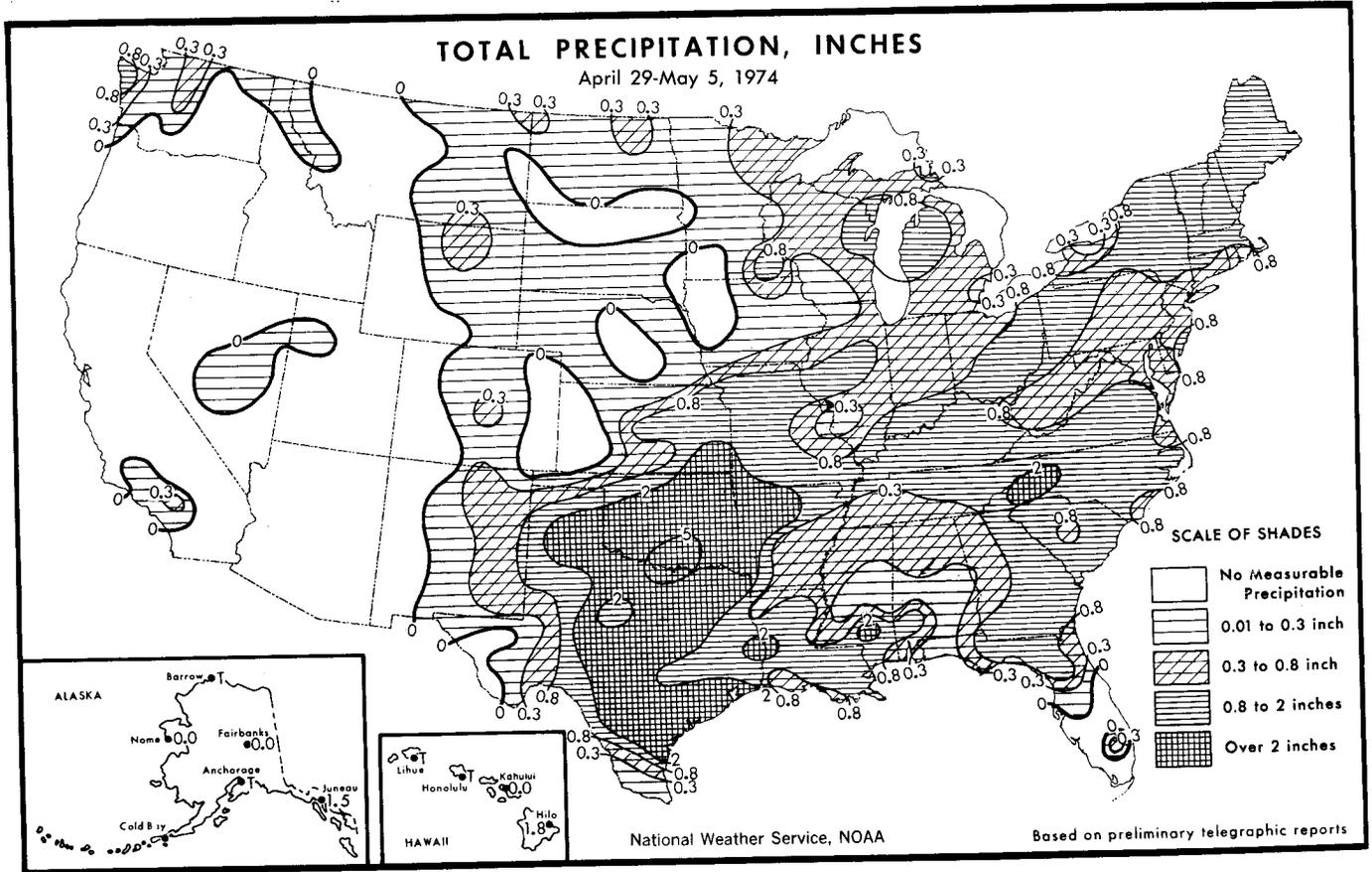
U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

Volume 61, No. 19

May 7, 1974

Washington, D. C.



NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Thunderstorms and scattered showers dumped more than 2.00 in. of precipitation over a wide area from eastern Texas through sections of Oklahoma, Kansas, Missouri, Arkansas, Louisiana and Alabama.

West of the Rocky Mountains, the Nation remained dry last week.

Temperatures soared as much as 7° above normal in the Nation's western third, while much of the midsection reported temperatures averaging 3° below normal.

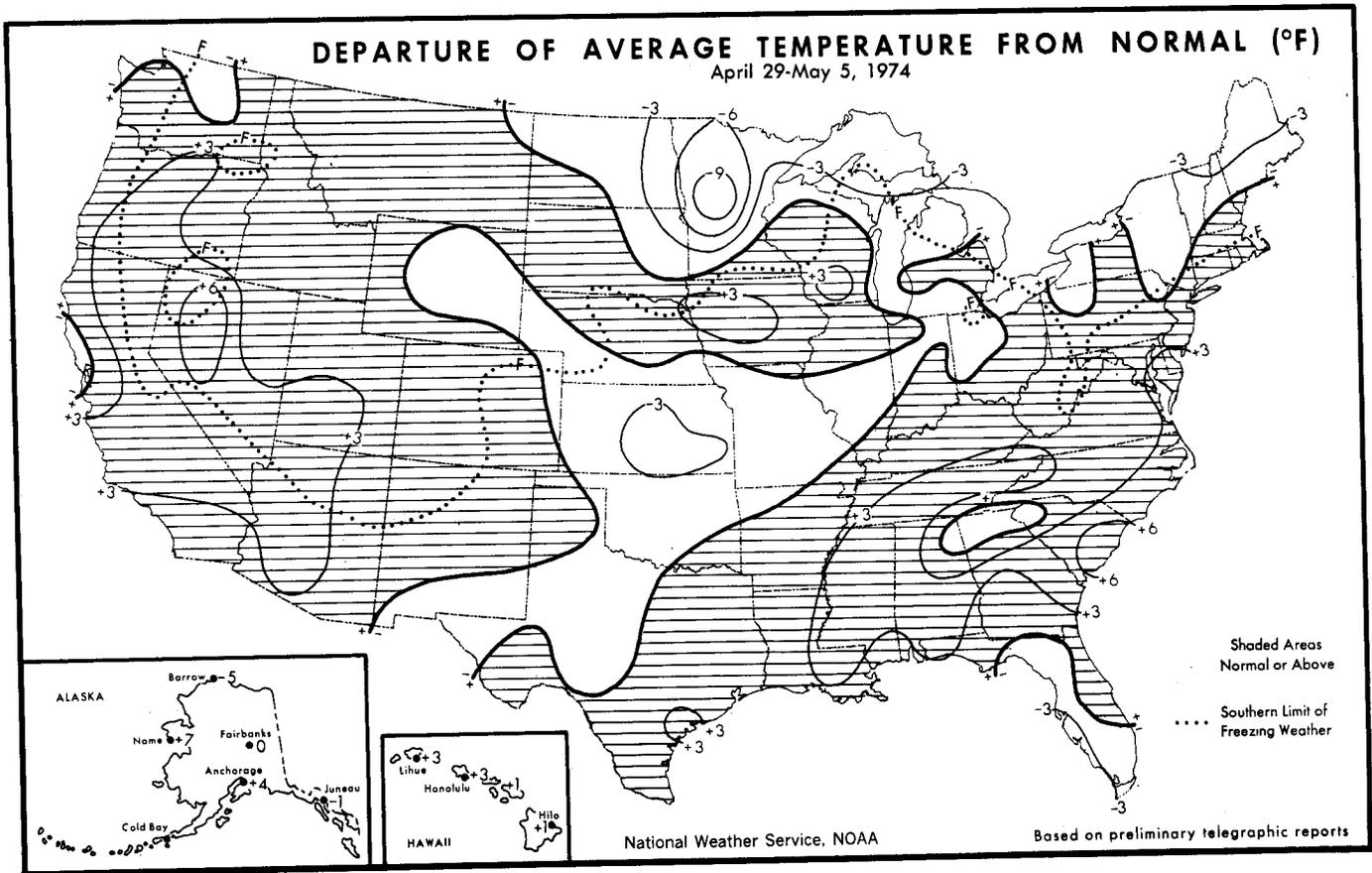
PRECIPITATION: Precipitation fell in many sections of the Country last week. Soggiest areas included: Oklahoma City, Okla., 3.46 in.; Fort Smith, Ark., 3.06 in.; Fort Worth, 3.57 in.; Wichita Falls, Tex., 4.81 in.

Early in the week thunderstorms produced heavy rains in the Mississippi Valley and the Central and

Southern Plains, causing some flooding near Des Moines, Ia. Rainfall from the storms totaled almost 2 in. at Wichita, Falls, Tex., and Polo, Mo. More than 1.00 in. fell at Tulsa, Okla., and Salina, Kan.

At midweek heavy rains fell along a cold front that extended from Texas to the Middle Atlantic States. After six hours, Texas rainfall totals included: Kileen, 1.33 in.; Waco, 1.13 in.; and Childress, 1.02 in. Wednesday evening showers and thundershowers over the Southcentral Region spread northeastward from east Texas and Oklahoma to Alabama and as far north as southern Missouri. Before the Low moved out of Texas Wednesday night, it dumped over 3.50 in. of rain on Galveston.

Rain, snow, and gale winds dominated the Nation's weather on Thursday. A Low in the Mississippi Valley triggered rains along a stationery front that stretched into the mid-Atlantic States. Meanwhile, a Low in southwestern Ontario, Canada, whipped gale



force winds across Lake Superior and parts of Lake Michigan. Snow was also reported at Casper, Wyo., by noon. Later Thursday severe thunderstorms erupted in the Ohio Valley and Southeastern U.S., dropping golf ball-size hail near Huntsville, Ala., and sweeping western Kentucky with damaging 55 mph winds. More hail pelted Birmingham, Ala., and Dalton, Ga., and trees were uprooted by winds in Athens, Tenn.

Friday evening, tornadoes touched down near Hot Springs, Ark.; Fort Hood, Tex.; and San Antonio, Tex. Meanwhile, heavy showers and thundershowers fell along a cold front in the northern parts of the Gulf Coast States and the Tennessee Valley. Friday night, Walnut Springs, Ark., was drenched by 11.00 in., while other parts of Sevier County measured 4 to 10.00 in. of rain.

During the weekend, a stationary front across the Gulf States triggered showers and thundershowers from eastern Texas into the southern Ohio Valley and the lower Atlantic Coast.

TEMPERATURES: Most of the Nation experienced mild temperatures with only a large section of the far West and Southeast recording above normal readings.

Temperatures in sections of California, Oregon, Nevada and Arizona averaged more than 3° above normal during the week and temperatures in the Southeast were above normal, as much as 5° at Columbia, S.C., and Meridian, Miss.

Below normal temperatures on the Atlantic seaboard were confined to the New England area and the southern tip of Florida, averaging nearly 3° below. A large area of the Nation's midsection also recorded below normal temperatures including: Minnesota, North Dakota, South Dakota and the Great Lakes area and a band extending through the Ohio Valley,

Missouri, Oklahoma, Illinois, Kansas, Wyoming, Arkansas, Texas, and New Mexico.

Early in the week summertime temperatures spread across the middle and northern Atlantic Coast States. Monday, record temperatures were set at Richmond, Va., 94°; Wilmington, Del., 91°; Harrisburg, Pa., 90°; Concord, N.H., 86°; and Portland, Me., 82°.

In contrast, unseasonably cold weather covered the northern Plains and the upper Mississippi Valley. Midweek temperatures were mild in the north-central U.S., with 70's reaching into parts of Montana, North Dakota and Minnesota. The mercury reached the 90's in the desert Southwest and a few spots in the Carolinas.

It was a chilly Thursday morning in the Northeast where a high pressure provided clear skies and many freezing temperatures. Caribou, Me., dropped to 18°, recording the Nation's lowest morning temperature. By Thursday night, strong northwesterly winds from more than 40 mph pushed a cold front through the Plains producing sharp temperature contrasts. Early evening readings were still in the 70's and 80's in Kansas and southern Colorado--but only in the 40's and 50's in Wyoming and northern Nebraska.

Friday, a large high pressure area in the upper Plains brought fair skies and mild temperatures to the upper Mississippi Valley through the Plains and Rockies to the Pacific Coast. Afternoon temperatures ranged from 38° at Hancock, Mich., to 92° at Harlingen, Tex.

Saturday temperatures continued rather cool over the North, with highs reaching the 40's in parts of northern New England, New York, and upper Michigan.

By Sunday, temperatures for most of the Nation warmed into the 60's and 70's with plenty of sunshine.

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Corn planting advanced rapidly to 27% complete in the Corn Belt. Winter wheat is ahead of last year's development in Oklahoma and Kansas. Rain brightened cotton planting prospects in Texas. Soybean planting got underway in the major producing States. Rains benefited dry Texas ranges.

SMALL GRAINS: Winter wheat made rapid growth in the Great Plains with both the Oklahoma and Kansas crops developing at a faster pace than a year earlier.

Kansas wheat remained in good condition but many fields are very dry in the southwest area. About 90% of the Kansas crop is jointing compared to 80% last year, and 15% is headed versus 5% last year. Oklahoma wheat is 78% headed compared to 31% headed this time in 1973 and a 5-year average of 55%. Most rains that fell in Texas last week came too late to benefit nonirrigated wheat acreage.

Insects and declining topsoil moisture were problems for Colorado wheat but condition remained good to excellent. Nebraska wheat is good with much acreage in the jointing or early boot stage. Spring small grain seeding neared completion in South Dakota, while progress was good in Montana, but slow in North Dakota.

COTTON: Recent rains provided excellent planting conditions in most areas of Texas. Arkansas and Mississippi farmers took advantage of the moderate weather early in the week and made rapid planting progress. In Texas, the leading cotton producing State, cotton planting is now 28% done, compared with only 13% a year earlier.

Cotton planting reached the half-way point in Mississippi during the week and compares with 10% planted last year. Normally 45% is in on this date. Nearly one-third of the Arkansas crop is planted. Early fields are up and making good progress in the South Central States. In California and Arizona, cotton is nearly all planted. Cool temperatures slowed cotton growth in California.

CORN: Dry, sunny weather enabled farmers to accomplish excellent corn planting progress in the Corn Belt last week. By May 5, intended Corn Belt acreage was 27% planted, sharply ahead of last year's slow pace of 6% and well ahead of the recent 5-year average of 18%.

Iowa farmers maintained a brisk pace as they planted slightly over a third of their acreage last week, pushing this year's progress to 44% planted compared to only 6% a year ago and the 5-year average of 28% complete. Ohio farmers had an excellent week too: They planted a fourth of their acreage and advanced planting to 40% complete. Illinois corn reached 25% planted versus only 5% in 1973 while Indiana reported 10% planted.

Planting progress in most Southern States is running ahead of last year. Corn is about 80% planted in Georgia and 67% planted in North Carolina.

SOYBEANS: Favorable weather allowed planting of soybeans to get underway in many of the major soybean States during the past week. Ohio and Georgia growers have 10 percent of their acreage in the ground followed by Missouri with 5 percent of their acreage in. The Nation's leading soybean producers, Illinois and Iowa, started plantings. Soybean planting will start picking up momentum as farmers in many areas are finishing up corn and cotton planting.

OTHER CROPS: Good field conditions and needed rain permitted excellent planting progress and aided growing crops in the South Central and South Atlantic States.

Sorghum planting in Texas is 46% complete against 41% last year.

Transplanting flue-cured tobacco is less than 5% done in Virginia and is 40% complete in North Carolina. South Carolina's transplanting progress reached 97%, much ahead only 79%, in 1973. Tobacco beds in Kentucky are 77% emerged.

Peanuts are 58% planted in Georgia, sharply below normal, and 12% planted in Texas.

Potato planting continued in Idaho with the best progress being made in the southcentral and southeastern counties.

Rice planting is much ahead of last year in Texas at 91%, Louisiana at 90% and Arkansas at 65%.

FRUITS AND NUTS: Condition of citrus groves in Florida varied good to poor depending on moisture availability. Most nonirrigated groves were in various stages of wilt.

Harvest of Valencia oranges was active in Florida, increasing in Arizona and slow in California. Apples reached full bloom as far north as the Hudson River Valley. Chemical thinning was underway in Washington.

Peach condition is variable in the Southeast. Harvest is underway in Arizona and south Texas.

VEGETABLES: Sweet corn volume moved up sharply in Florida while tomatoes moved at the usual spring volume and celery remained in good supply.

Vegetable planting began in southern New England while onion planting neared completion on Long Island, N. Y.

In Texas, onion harvesting passed the peak in the Lower Rio Grande Valley and harvest of carrots and onions at Laredo was in full swing.

Lettuce harvesting was steady in several areas of California and Arizona.

Vegetable planting continued in Oregon while sweet corn seeding was underway in Washington.

PASTURES AND LIVESTOCK: Rains brought much needed moisture to the West Texas ranges. Pastures continue to make good growth in most northern and eastern States. Range feed shortages continued in several areas of Montana. Poor range conditions in the Southwest still require supplemental feeding. Livestock are rated in good condition in most areas of the Nation.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., May 5, 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	70	+3	.5	-.4	La. Baton Rouge	75	+3	1.8	+.7	Youngstown	53	0	1.2	+.3
Mobile	73	+1	.5	-.6	Lake Charles	74	+1	.8	-.3	OKLA. Okla. City	64	-1	3.5	+2.4
Montgomery	72	+3	.2	-.6	New Orleans	74	+2	.9	-.0	Tulsa	65	-1	3.4	+2.3
ALASKA. Anchorage	46	+4	T	-.1	Shreveport	71	+1	.8	-.5	OREG. Astoria	50	0	.3	-.5
Barrow	5	-5	0	-.1	MAINE. Caribou	39	-5	1.6	+1.0	Burns	51	+2	0	-.2
Fairbanks	40	0	T	-.1	Portland	50	+2	1.1	+.3	Medford	57	+3	0	-.3
Juneau	42	-1	1.5	+.8	MD. Baltimore	62	+3	.7	-.1	Pendleton	58	+3	0	-.3
Kodiak	---	---	---	---	MASS. Boston	55	+1	.8	0	Portland	56	+2	T	-.4
Nome	35	+7	0	-.2	Chatham	52	---	1.1	---	Salem	53	0	T	-.5
ARIZ. Flagstaff	50	+4	0	-.2	MICH. Alpena	44	-2	.7	+.1	PA. Allentown	56	0	.7	-.2
Phoenix	77	+5	0	-.1	Detroit	54	+1	.2	-.6	Erie	51	+1	1.0	+.2
Tucson	71	+1	0	-.1	Flint	52	+1	.6	-.1	Harrisburg	61	+2	.3	-.5
Winslow	59	0	0	-.1	Grand Rapids	52	0	.7	-.1	Philadelphia	61	+2	.6	-.1
Yuma	76	+1	0	0	Houghton Lake	46	-2	1.1	+.5	Pittsburgh	57	+1	1.0	+.2
ARK. Fort Smith	67	0	3.1	+1.8	Lansing	51	-1	.4	-.3	Scranton	52	-2	.8	0
Little Rock	68	+2	.6	-.7	Marquette	43	-3	.7	+.1	R.I. Providence	56	+3	.4	-.4
CALIF. Bakersfield	72	+5	T	-.1	Muskegon	49	+2	1.1	+.4	S.C. Charleston	75	+6	1.1	+.4
Eureka	51	0	T	-.6	S. Ste. Marie	41	-3	.3	-.3	Columbia	74	+5	.8	+.1
Fresno	68	+4	0	-.2	MINN. Duluth	43	-2	.5	-.2	Greenville	65	-1	1.8	+1.1
Los Angeles	65	+2	.1	0	Internat'l Falls	40	-5	.3	-.2	S.D. Aberdeen	50	-1	T	-.5
Red Bluff	67	+3	0	-.3	Minneapolis	52	0	T	-.6	Huron	51	-1	.1	-.4
San Diego	62	0	T	-.1	Rochester	52	+1	1.0	+.4	Rapid City	53	-2	.1	-.5
San Francisco	56	-1	T	-.2	St. Cloud	41	-9	.1	-.6	Sioux Falls	53	0	T	-.6
Stockton	64	+2	0	-.2	MISS. Jackson	73	+3	.2	-.9	TENN. Chattanooga	64	-1	.3	-.6
COLO. Denver	54	+1	.2	-.4	Meridian	74	+5	.2	-.8	Knoxville	68	+3	1.6	+.8
Grand Junction	60	+2	T	-.2	MO. Columbia	58	-2	1.3	+.3	Memphis	70	+3	.7	-.5
Pueblo	58	+1	.1	-.3	Kansas City	59	-2	1.6	+.8	Nashville	68	+3	1.3	+.4
CONN. Bridgeport	56	+2	.4	-.4	St. Louis	59	-3	.3	-.6	TEX. Abilene	67	-2	2.0	+1.2
Hartford	55	+1	1.0	+.2	Springfield	61	-1	1.5	+.4	Amarillo	63	+1	2.6	+2.1
D.C. Washington	64	+2	.8	0	MONT. Billings	52	+1	.1	-.3	Austin	74	+2	1.8	+.9
FLA. Apalachicola	73	+1	.1	-.5	Glasgow	51	+1	T	-.2	Beaumont	74	+2	2.1	+1.0
Daytona Beach	73	0	T	-.4	Great Falls	52	+2	T	-.4	Brownsville	80	+2	.1	-.3
Ft. Myers	73	-3	0	-.5	Havre	52	+1	.1	-.2	Corpus Christi	78	+2	2.1	+1.4
Jacksonville	72	0	.6	0	Helena	51	+2	0	-.3	Del Rio	75	0	1.3	+.8
Key West	77	-3	T	-.5	Kalispell	50	+2	T	-.3	El Paso	67	-1	.1	0
Lakeland	75	0	.1	-.5	Miles City	54	+2	.1	-.3	Fort Worth	71	+2	3.6	+2.6
Miami	75	-2	0	-1.1	Missoula	51	+2	T	-.3	Galveston	75	+2	3.4	+2.8
Orlando	74	0	.1	-.4	NEBR. Grand Island	57	+1	T	-.7	Houston	75	+2	3.4	+2.3
Tallahassee	71	-1	1.8	-1.0	Lincoln	56	-2	.1	-.5	Lubbock	64	-1	.8	+.3
Tampa	72	-3	T	-.4	Norfolk	56	+1	T	-.7	Midland	69	0	.2	-.2
W. Palm Beach	74	-2	T	-.9	N. Platte	53	-1	.1	-.5	San Angelo	70	-1	2.1	+1.5
GA. Atlanta	69	+3	.5	-.4	Omaha	57	0	0	-.8	San Antonio	74	+1	2.6	+1.9
Augusta	71	+3	1.8	+1.1	Valentine	53	+1	.1	-.4	Victoria	77	+3	2.6	+1.8
Macon	72	+2	.6	-.2	NEV. Ely	48	+2	.2	-.2	Waco	73	+2	2.5	+1.5
Savannah	74	+4	1.1	+.4	Las Vegas	73	+4	0	-.1	Wichita Falls	68	-1	4.8	+3.8
HAWAII. Hilo	74	+1	1.8	-.9	Reno	54	+3	0	-.1	UTAH. Blanding	55	+2	0	-.2
Honolulu	79	+3	T	-.2	Winnemucca	57	+7	0	-.2	Salt Lake City	56	+1	T	-.4
Kahului	76	+1	0	-.2	N.H. Concord	51	+1	1.3	+.6	VT. Burlington	48	-2	1.6	+1.0
Lihue	77	+3	T	-.6	N.J. Atlantic City	60	+3	1.3	+.5	VA. Lynchburg	63	+1	1.4	+.7
IDAHO. Boise	55	+1	0	-.3	Trenton	59	+1	.4	-.4	Norfolk	66	+3	.7	0
Lewiston	57	+2	0	-.3	N.MEX. Albuquerque	61	0	.1	0	Richmond	64	+1	1.2	+.5
Pocatello	53	+2	T	-.3	Roswell	65	0	.4	+.2	Roanoke	63	+2	1.0	+.3
ILL. Cairo	67	+2	.8	-.3	N.Y. Albany	52	-1	1.0	+.3	WASH. Colville	52	+1	.1	-.2
Chicago	56	+1	.5	-.3	Binghamton	51	0	.8	0	Omak	53	-1	T	-.2
Moline	57	0	.3	-.6	Buffalo	50	-1	.7	-.1	Quillayute	48	-1	1.1	-.3
Peoria	57	0	.8	-.2	New York	58	+1	.6	-.2	Seattle-Tacoma	54	+2	T	-.4
Rockford	56	+2	.1	-.8	Rochester	53	+1	.2	-.5	Spokane	51	0	T	-.3
Springfield	57	-2	.8	-.1	Syracuse	52	0	1.6	+.9	Walla Walla	59	+2	0	-.4
IND. Evansville	63	+1	.9	-.1	N.C. Asheville	63	+3	2.3	+1.6	Yakima	54	0	T	-.1
Ft. Wayne	55	0	.3	-.6	Charlotte	66	+1	.8	+.1	W.Va. Beckley	57	+2	.7	-.1
Indianapolis	59	+1	.4	-.5	Greensboro	65	+2	1.5	+.8	Charleston	62	+1	.6	-.2
South Bend	55	+1	.5	-.3	Hatteras	67	+4	1.1	+.4	Huntington	63	+2	.7	-.1
IOWA. Burlington	58	+1	.3	-.5	Raleigh	66	+2	1.8	+1.1	Parkersburg	61	+1	.9	+.1
Des Moines	59	+3	T	-.8	Wilmington	73	+5	.7	0	WIS. Green Bay	51	+1	1.4	+.7
Dubuque	55	+1	.2	-.8	N.DAK. Bismarck	50	0	.2	-.2	La Crosse	55	+1	.1	-.6
Sioux City	59	+3	T	-.6	Fargo	45	-5	T	-.5	Madison	55	+3	.2	-.5
KANS. Concordia	56	-3	.2	-.5	Williston	49	-1	.3	0	Milwaukee	49	-1	.3	-.3
Dodge City	58	-2	T	-.6	OHIO. Akron-Canton	55	+1	1.2	+.4	WYOM. Casper	47	-2	.2	-.2
Goodland	53	-2	1.6	+.8	Cincinnati	59	0	1.7	+.9	Cheyenne	49	+1	T	-.5
Topeka	58	-3	.6	-.2	Cleveland	56	+2	.8	0	Lander	49	0	T	-.6
Wichita	59	-3	.6	-.2	Columbus	58	+1	1.1	+.2	Sheridan	50	0	.3	-.2
KY. Lexington	61	0	1.2	+.3	Dayton	57	0	.7	-.1	P.R. San Juan	79	+1	0	-1.3
Louisville	63	+2	1.3	+.4	Toledo	53	-1	.5	-.2					

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: Sunny, dry early week followed by widely scattered showers and thunderstorms beginning north Wednesday. Thunderstorms locally severe Thursday, Friday and Saturday produced large hail central. Change to cool, dry Sunday night with lows north in 40's.

Corn and cotton plantings made good progress, slowed intermittently by rain. Rain beneficial to seedbeds and planted fields. Soybean planting slow. Cotton 67% planted, 25% in 1973, stands generally good. Corn 67% planted, less than 33% in 1973. Small grains almost 90% headed, with a few fields yellowing. Irish potato harvest continued in Baldwin County area with some moving to market. Some hay cut.

ARIZONA: No significant weather disturbances. Warm, dry. Brief showers White Mountains Sunday evening. Temperatures 2° to 7° subnormal north-east, northcentral and eastcentral. Elsewhere temperatures 1° to 4° above.

Ideal weather continued. Cotton good progress. Planting nearly complete. Small grains central and west making excellent progress. Sorghum progress good. Sugarbeet harvest expected shortly. Alfalfa hay cutting active all areas, growth good.

Lettuce harvest steady River Valley, tapering off Pima and Pinal Counties. Harvest mixed vegetables active. Cantaloups and watermelons good progress. Potato harvest continued. Dry onion clipping underway, harvest expected May 10. Peach harvest underway Queen Creek, full volume movement expected May 6. Harvest apricots expected May 10. Nectarines and Plums May 20. Harvest valencias and grapefruit increased. Groves generally good condition, good prospects 1974-75 crop. Ranges poor statewide. Southeast driest. Supplemental feeding continued, new growth limited. Stockwater short. Livestock Pinal Co. mostly fair, other areas very poor to poor.

ARKANSAS: Temperatures above normal. Mild early week, warm midweek, cool weekend. Precipitation general; most areas 1.00 in.

Rain slowed land preparation and planting. Most fields ready for planting. Cotton 30% planted. Early cotton up to stand. Rice 65% planted; sorghum 30%; corn 65% planted. Wheat and oats headed out. Pastures average. Cattle good. Fruit and vegetables making satisfactory growth. Strawberries being harvested.

CALIFORNIA: Fair weather continued. Night and morning low cloudiness along coast. Dry except for scattered showers Saturday northeast. Lows remained above freezing lower elevations. Average weekly temperatures near or slightly above normal nearly all areas.

Warm weather hastening maturity small grains, hay. Early wheat, barley yellowing, limited harvest desert. Growers cutting new alfalfa. Seeding rice full swing. Planting corn, milo, safflower, cotton nearly complete; growth slow. Grape crop progressing normally. Harvest table varieties to begin Coachella Valley mid-May. Almonds, walnuts progressing normally. Cherry harvest continued. Valencia orange and grapefruit harvest slow. Lemon picking active. Asparagus strong.

Broccoli continued in good supply. Cauliflower active, south, central coast. Carrots continued desert. Celery strong, increase expected Oxnard. Lettuce steady Salinas, Westside district. Onions continued desert. Potatoes some maturity problem, increase expected Kern County. Strawberries strong, near peak. Market tomatoes continued Imperial Valley. Processing tomatoes planting continued, earlier plantings doing well.

Rangelands, pastures good. Feed maturing rapidly. Mountain ranges continue spring growth. Livestock good to excellent. Spring calving near completion northeast. Water ample. Sheep shearing continued Sacramento Valley. Bee activity San Joaquin Valley increased. Egg production very good.

COLORADO: Showers early week over mountains and eastern plains and general light rain Thursday eastern plains. Mild temperatures prevailed, slightly above normal eastern plains. Extremes: 88° at Lajunta, 15° Walden.

Fieldwork remained active; weather dry and warm. Corn 48% planted, 7% 1973, 21% 1969-73 average. Sugarbeets 83% planted, 28% 1973, 6% 5-year-average, 29% emerged. Spring barley 88% seeded, 60% emerged. Oats 73% planted, 48% emerged. Summer potatoes 67% planted, 14% emerged. Fall potato planting beginning. Emerged spring planted crops mostly good condition. Winter wheat and barley good to excellent except southeast. Insects continued problem. Wheat streak mosaic beginning to show eastcentral and northeast. Topsoil moisture declining all areas. Winter wheat 62% jointing, 42% 1973, 41% 5-year average. Winter barley 25% jointing. Alfalfa good to excellent, although weevils, cutworms present. Livestock good. Ranges and pastures good, moisture needed eastern plains.

FLORIDA: Warm days and mild nights. Temperatures averaged few degrees subnormal. Rainfall mainly on last two days of period, mostly north. Amounts generally light to moderate but locally heavy in a few locales. Soil moisture short over entire State, central and south very dry.

Fieldwork limited due to dry weather. Growth slow on recently planted crops. Peanut planting delayed. Land being prepared for planting soybeans. Sugarcane harvest complete. Harvesting of small grains to start soon. Small grains mostly poor due to diseases. Pastures in drought conditions most of south and in other areas. Cattle and calves fair to good.

Citrus tree condition good to poor depending on available moisture. Some lakes and ponds dry, most non-irrigated groves in some stages of wilt, new crop fruit setting. Valencia harvest very active. Potatoes increased, supplies approaching full volume levels. Sweetcorn moved up sharply, Everglades principle source. Tomatoes in usual spring volume, peak expected around May 20. Celery in good supply, cabbage declining. Watermelons steady. Peppers fell off. Cucumbers increased. Salad crops, other vegetables in seasonal supply.

GEORGIA: Dry most of week but showers spread across north Friday. Rainfall amounts averaged

0.10 in. northwest to 0.80 in. northeast with little or no rain elsewhere. Temperatures for week near or just above normal. Much needed rain received most sections over weekend. Soil moisture short to very short most areas. Fieldwork continued very active. Progress of planting increased sharply.

Cotton fair to good, 62% planted, still below normal. Corn fair to mostly good, 80% planted, slightly below normal progress. Peanuts fair to good, 58% planted, sharply below normal. Soybeans 10% planted. Wheat and oats mostly fair. Disease and insects damaging crops some areas. Peach conditions variable. Early varieties fair to good but mid and late varieties mostly poor due to lack of chilling hours. Pastures, cattle good. Vegetables and melons fair to good, cool nights slowed development.

HAWAII: Weather continued favorable statewide. Showers benefitted crops higher elevations. Irrigation heavy use in lowlands. Production leafy vegetables continued at a high level. Other vegetables adequate supply. Papaya production continues heavy. Bananas holding steady. Pastures higher elevation green, lowland pastures turning brown, however, forage feed sufficient. Sugar and pineapple operations in full swing.

IDAHO: Sunny skies early week, midweek cooler with cloudy skies, followed by mild, dry weather through weekend. Highs mid-60's to upper 70's, lows in 20's. Temperatures averaged 2° to 7° sub-normal. Warmer weather caused some rivers to rise but no serious flooding. Precipitation light, below normal all areas.

Farming operations made rapid headway. Seeding of spring grains over 50% complete north and east, 95% southwest and southcentral. Emerged stands average to good. Potato planting beyond 75% southwest, 60% southcentral, over 50% east. Blocking and thinning starting southwest. Dry pea and lentil seeding approaching 60% completion north. Corn and dry bean planting underway lower elevations south. Topsoil moisture short southwest and southcentral, adequate to surplus north and east. Irrigation water plentiful.

ILLINOIS: Temperatures 1° to 2° above normal north, 1° to 3° below normal south. Quite warm early week, readings in 80's, cooled to 60's by weekend. Precipitation moderate, occurred early week.

Corn planting 25% completed, 5% planted in 1973 1971-73 average 23%. Soybean planting started few areas. Corn and soybean acreage 95% plowed, 42% in 1973, average 75%. Winter wheat 93% good to excellent. Red clover hay good to excellent condition. Alfalfa hay fair to good. Alfalfa weevil infestations severe several areas, spraying underway. Pastures supplying 85% roughage requirements. Fertilizer supplies short: nitrogen--74%; phosphate--44%; potash--34%. Soil moisture 56% adequate, 44% surplus. Fieldwork: 3 days suitable.

INDIANA: Temperatures near normal. Coolest night, 31° at Bluffton on 5th. Precipitation ranged from 0.50 in. northwest to 1.50 in. southeast. Drying rates and humidities below normal. Soil temperatures near normal.

Fieldwork: 4 days suitable. Topsoil moisture mostly adequate to surplus. Subsoil moisture adequate. Corn and soybean land 85% plowed, 70% average, 30% in 1973. Corn 10% planted, about average. Few soybean fields planted. Oats 90% seeded, 2 weeks ahead of 1973. Clover 90% seed-

ed. Wheat 13 inches high, 10 inches average, 12 inches in 1973. Fertilizer supplies remain tight; nitrogen and phosphate least available. Pastures good.

IOWA: Temperatures averaged near normal. Precipitation averaged well below normal.

Excellent week for fieldwork. Over 5 days suitable fieldwork. Corn planted--44%, year ago 6%, average 28%. Early fields emerging. Some soybeans planted. Oat stands 95% of normal, most plantings emerged. Alfalfa and clover stands fair to good. Some weevil damage. Topsoil moisture supplies 61% adequate, 15% surplus; 24% short.

KANSAS: Temperatures averaged near normal. Precipitation ranged from 0.50 in. to over 3.00 in. east but very little west third.

Wheat crop condition good, many very dry wheat fields southwest. Wheat 90% jointing stage, 80% 1973 and average. Wheat 15% headed, 1973 5%, average 15%. Wheat streak mosaic evident southwest through northcentral. Corn 30% planted, equal to average. Soybean planting started. Sugarbeets half planted. Alfalfa weevil severe most counties. First cutting alfalfa will be below normal. Livestock condition very good.

KENTUCKY: Gradual cooling trend. Temperatures near normal. Frequent precipitation Tuesday through Friday and scattered showers Sunday averaged 1.00 to 1.25 in. for the week.

Nearly 4 days fieldwork. Showers at midweek beneficial to pastures and tobacco plant beds, limited fieldwork. Soil moisture 12% short, 69% adequate, 19% surplus. Corn 42% planted, 6% last year, 26% 1972. Tobacco plant size: Dime or less 44%, quarter 33%, half dollar 23%. Growth slightly ahead last year. Condition fair to good. Some cold weather damage evident. Wheat 57% headed or heading, 49% year ago. Condition wheat variable; disease, insect and freeze damage evident. Pastures, livestock good. About 65% apple crop expected, less than 33% peach crop.

LOUISIANA: Temperatures near normal northwest, 2° to 5° above normal other areas. Weather mild to warm most days. Showers early week and again over weekend. Extremes: 90° Monroe and Winnfield and 55° Shreveport and Monroe. Weekly rainfall 0.25 to more than 3.00 in. scattered. Greatest 1-day rain 2.53 in. Friday at Bogalusa.

Planting good progress, interrupted by showers north. Soybean and sorghum planting begun. Soil moisture adequate, short some southern parishes. Fieldwork possible 5.4 days. Cotton planting 50%, 5% 1973, 55% 1972; 45% up to stand. Corn planting windup stages many parishes, over 80% planted, 30% 1973, 85% 1972. Rice 90% seeded, 40% 1973, 90% 1972; still some water mold problems. Sugar-cane good. Some fertilizer shortages. Seasonal vegetable harvest New Orleans area. Pasture feed average. Cattle good to fair.

MARYLAND-DELAWARE: Temperatures 4° to 9° above normal. Highs from 79° Garret County and low 80's elsewhere to low 90's. Lows from low 30's to upper 40's. Precipitation ranged from 0.25 in. over 1.75 in., heaviest Eastern Shore of Maryland and central and southern Delaware.

Excellent work week. Corn planted at record pace, 33% of acreage put in during week; planting 48% complete, 1973 37%, average 15%. Small grains growing slowly. Wheat heading in south, barley heading all areas. Powdery mildew damaging some wheat. Tobacco plant beds growing slowly, watering required. Vegetable planting well

advanced. Apple growers optimistic. Peach prospects generally favorable but scattered damage from mid-April frosts showing up.

MICHIGAN: Rain early week. Rain and snow end week. Snow accumulation 1.00 in. to 2.00 in. north central 5th. Precipitation totaled 1.00 in. to 2.00 in. central and west lower. Temperatures near normal lower. Warm early week. Highs 70's. Frost or freezing 5 nights.

Spring planting progress rapid. Fieldwork: 4.5 days suitable. Soil moisture adequate to surplus. About 62% acreage plowed spring planting, 33% 1973. Oats 72% planted, 40% 1973. Sugarbeets 82% planted; average 53%. Potatoes 27% planted. Corn planting active. Wheat good to excellent. Cherries, peaches ranged from partial to full bloom southwest. Bud development from pre-pink westcentral to dormant extreme northwest. Asparagus harvest started southwest.

MINNESOTA: Temperatures averaged 2° to 5° subnormal north two-thirds, near-normal south third. Precipitation 0.10 to 0.50 in. subnormal north third and eastcentral and over 0.50 in. subnormal elsewhere except locally 0.25 in. above normal southeast.

Continued dry conditions enabled rapid progress land preparation, planting small grains, corn, soybeans except wet north third. Spring wheat 32% planted, 48% normal, 93% 1973. Barley 32% planted, 38% normal, 78% 1973. Oats 59% planted, 54% average, 86% 1973. None planted in important Red River Valley. Corn 28% planted, normal 12%. Soybean planting just started, 1% same as usual progress. Green peas for canning 44% planted, normal 28%. Top and subsoil moisture mostly adequate but getting short in south and central. Mostly surplus supply in north third.

MISSISSIPPI: Moderate temperatures prevailed most days except week's end, north. Temperatures averaged near normal. Extremes: 42° at Holly Springs and Winona on 27th to 89° at Port Gibson 2nd. Greatest 24-hour rainfall 2.85 in. near Savannah in Pearl River County on 3rd.

Soil moisture mostly adequate. Fieldwork: 5 days suitable, 2.5 days week earlier and 2 days in 1973. Corn 62% planted, 28% 1973, normal 50%. Condition fair to good. Cotton 50% planted, 10% 1973 normal--45%; 14% up to stand, condition mostly fair to good. Rice 80% seeded, 10% 1973, normal 36%. Soybeans 2% planted, normal 4%. Sweetpotato planting 8% complete, sorghums 5%. Wheat 98% headed, oats 96%. Condition fair to good. Pastures and livestock in fair to good condition.

MISSOURI: Precipitation averaged more than 1.00 in. over most of State. Temperatures averaged below normal.

Three days suitable for fieldwork. Intended plowing 79% complete. Corn 50% planted, normal 26%. Soybeans 5% planted. Cotton 17% planted, 23% normal. Soil moisture supplies 7% short, 75% adequate, 18% surplus. Winter wheat crop fair to good condition, 20% headed.

MONTANA: Warm and generally dry except few light showers beginning of week. Temperatures averaged near normal. Extremes: Upper 20's to 70's. Precipitation below normal with southcentral receiving largest amounts.

Soil moisture short parts of northcentral, central and southwest. Cutworms showing up northcentral. Spray programs underway northcentral and east. Seeding progress good; 50%

complete for spring wheat and oats, 60% barley, 20% corn and potatoes, 80% sugarbeets, and 15% dry beans. Range feed short much of northwest, northcentral, and southwest. Recent rains helped, more needed. Nearly 60% livestock on hay, 25% moved to summer ranges. Calving and lambing 90% complete, losses below normal.

NEBRASKA: Temperatures above normal except Friday and Saturday. Rainfall up to 3.20 in. extreme southeast early week. Under 0.25 in. west and north Thursday.

Winter wheat 80% good, 11% excellent and 9% fair with generally good stands. Wheat jointing or in early boot many areas. Corn planting progressed rapidly, 30% planted, 6% 1973, 15% normal. Dry surface soil delaying some planting. Sorghum and soybean planting started. Alfalfa hay condition declined but continues good. Many fields invaded by alfalfa weevil, largest infestation and some extensive damage southeast. Wild hay mostly good. Fieldwork: 6 days. Topsoil moisture supplies 57% short, 43% adequate. Subsoil supplies 93% adequate, 7% short. Most areas need rain to germinate planted crops. Pasture and range feed supply declined, adequate 73% counties, short in 27%. Most cattle moved to summer pastures.

NEVADA: Temperatures averaged 4° above normal. Extremes: 95° Caliente, 20° Mountain City and McDermitt. Precipitation practically nil.

Planting spring grains and vegetables progressed satisfactorily. Warm, calm weather allowed better cotton planting progress than week earlier. Calving, lambing, shearing well along. Ranges poor to fair some areas due no rain. Livestock generally good.

NEW ENGLAND: Unseasonably high temperatures Monday, highs in 70's and 80's over all but east Maine. Rhode Island and Connecticut had highs around 90°. Down to 20's and 30's by Thursday morning. Caribou, Me., had low 18°. Storm systems minor but a general rain Tuesday night brought 0.50 to 1.00 in. rain to most of region. Another rain system late Friday and Friday night averaged between 0.25 and 0.50 in.

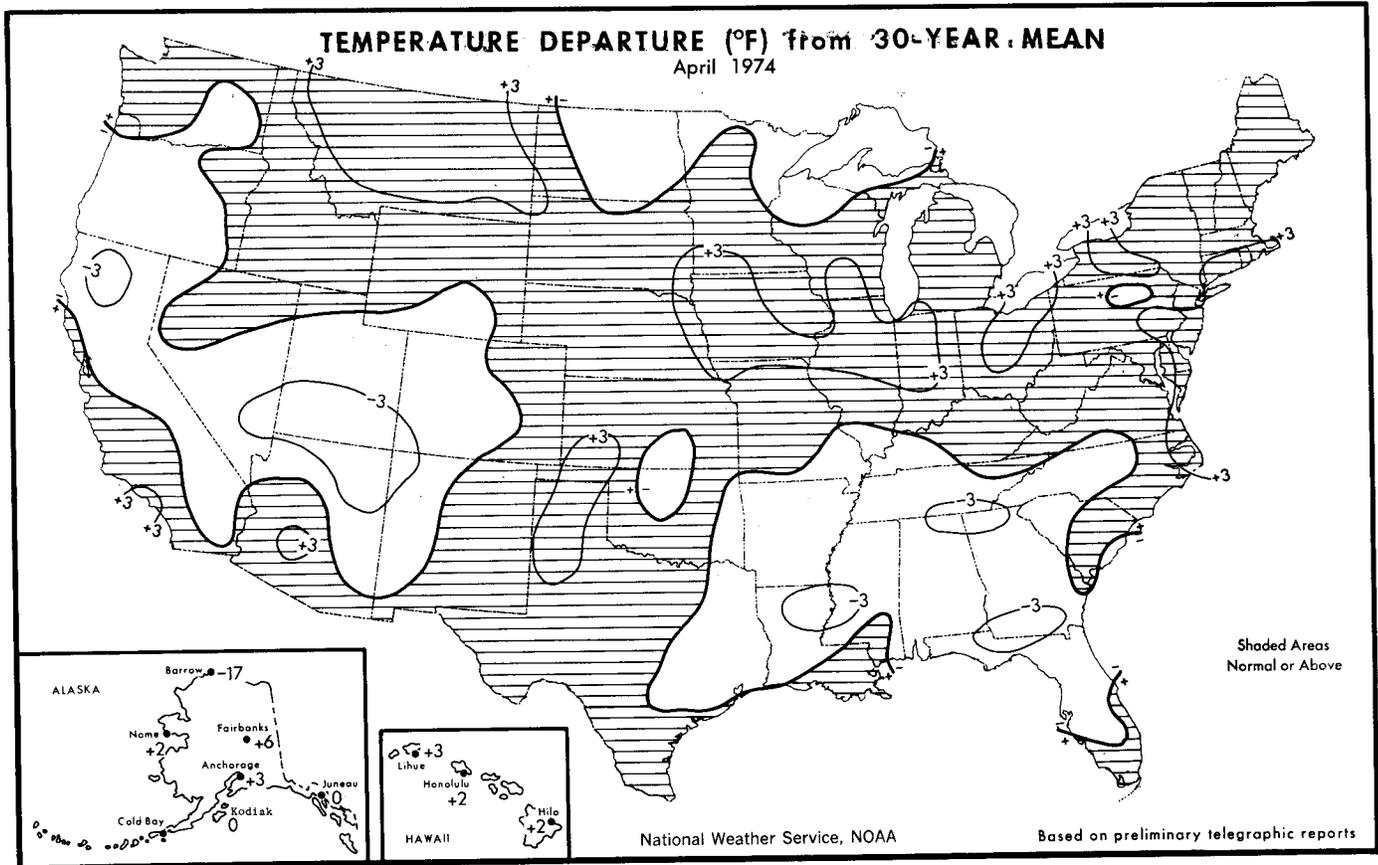
Vegetables, sweet corn, potato planting begun south, also some field corn. Early variety apples approaching full bloom south, McIntosh about 58% bloom south. Frost May 1 and again May 5 caused extensive fruit crop losses in some local areas.

NEW JERSEY: Temperatures early week averaged well above normal. Frost and near freezing temperatures north, midweek. Frost, on 5th all counties, freezing temperatures general north and central. Greatest single rainfall total 1.65 in. Cape May Court House and Hammonton 1.07 in. on 3rd and 4th.

Soil moisture expressed in percent of field capacity averaged 87% north, 73% central, 92% south. Fieldwork progressing well. Asparagus volume light to moderate. Spinach supplies good. Processing tomato planting has begun. Sweet corn planting active. Apple bloom past peak. Strawberries in bloom. Field corn and soybean planting underway. Oat seeding complete.

NEW MEXICO: Spotty rains east half Tuesday and Wednesday. Several amounts near 0.50 in. and some to more than 1.00 in. Very widely scattered showers west with amounts less than 0.10 in. A few small tornadoes southeast border Saturday. Temperatures averaged near normal. Still a few

(Continued on Page 11)



APRIL WEATHER

HIGHLIGHTS: A typical April with highly variable temperatures and precipitation, mixed with a heavy portion of violent weather. For the month, temperatures averaged near normal and precipitation was generally lighter than normal. The Southeast, portions of several western States, and the upper fringes of the Plains were the only areas below normal. Precipitation was highly variable in both amount and distribution. For example, Scottsbluff, Neb., received only 0.25 in. which is 25 percent of the normal; 75 miles to the north 3.48 in. fell, which is more than twice the norm. Similar situations occurred in several States.

PRECIPITATION: Highly variable was the word for the month. Totals varied from nothing across southern Arizona to over 10.00 in. at Meridian, Miss. Generally amounts were below normal over most of the Country, with most above normal totals associated with thunderstorms and violent weather during short periods of time.

The first week of April will go down in the annals as one of the most devastating in modern times. Nearly 100 tornadoes roared through 11 States in an area extending from Georgia to Canada. The storms claimed over 320 lives, destroyed millions of dollars of property and left thousands of families homeless. It was the worst outbreak associated with a particular storm in 49 years. Heavy precipitation accompanied the storms.

A series of thunderstorms and heavy spring rains added to the problems in cleaning up after the tornadoes during the second week of April, particularly in the Southeast. From 2.00 in. to 8.00 in. of rain fell over Louisiana, Mississippi, and Alabama.

Near midmonth, winter-like conditions returned to many areas. Over 12.0 in. of snow fell at Salt Lake City, Utah and at Albany, N.Y. Easter weekend was generally clear, but cool over most of the Nation.

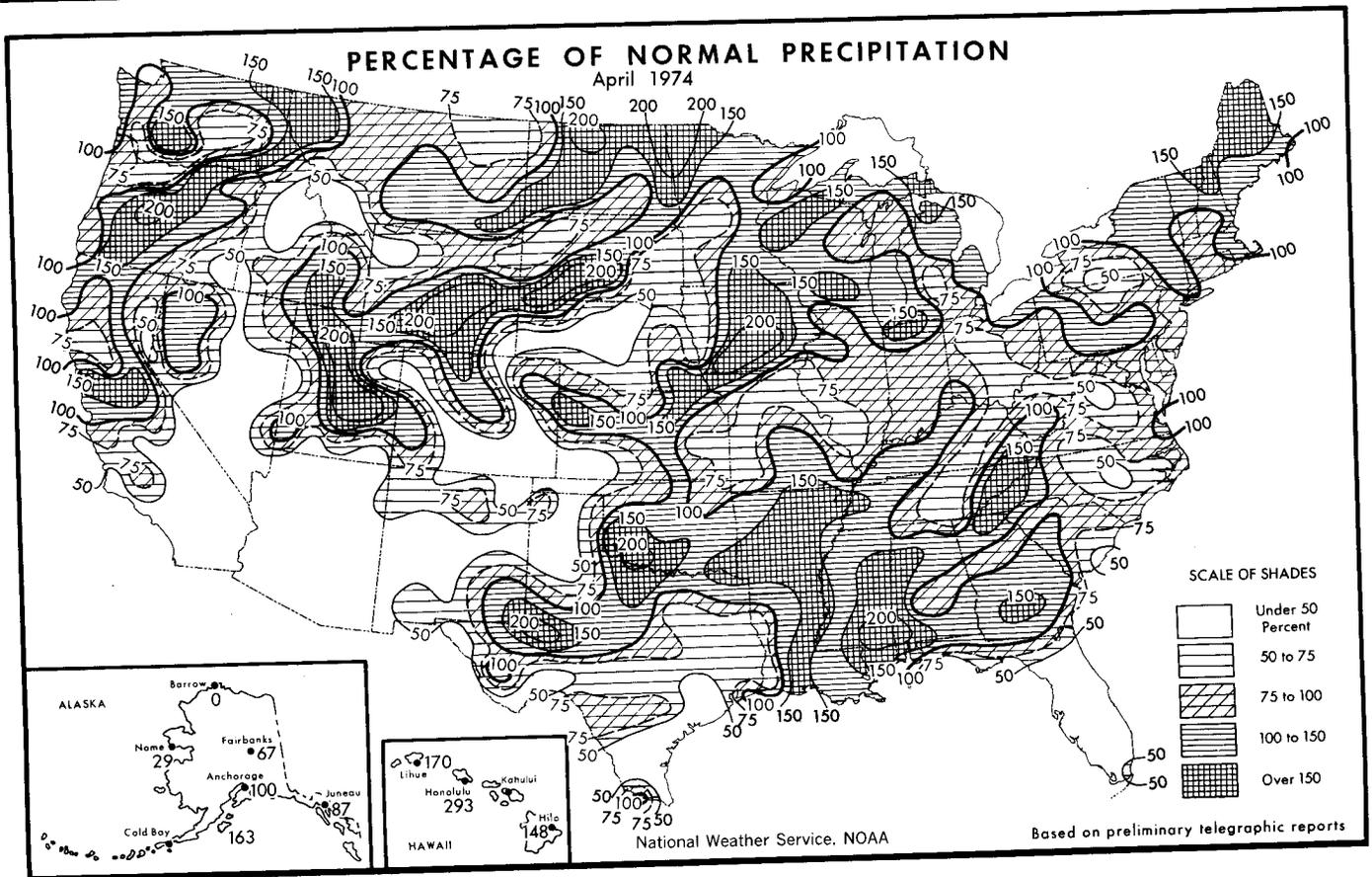
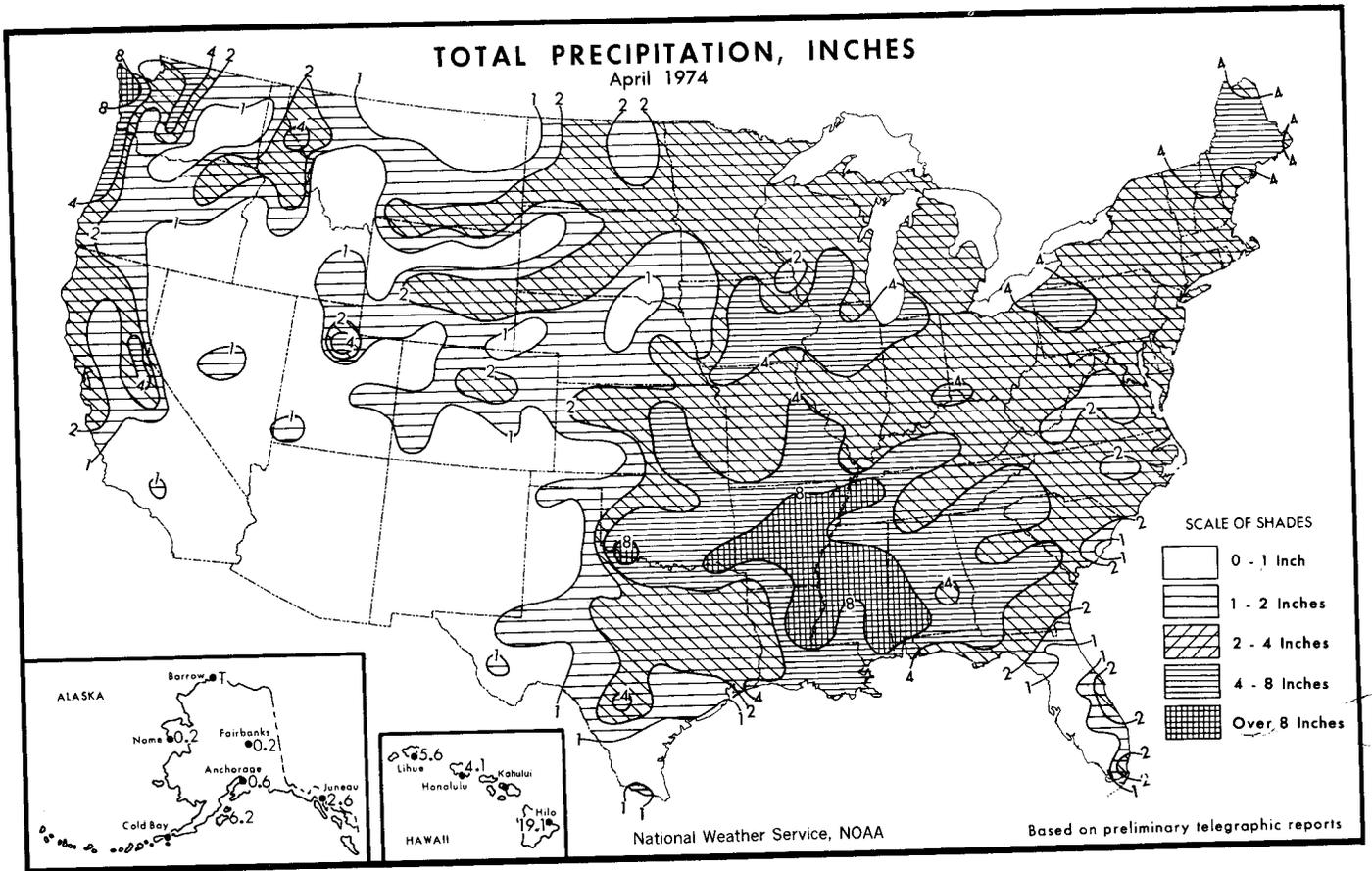
Blustery weather continued into the third week as tornadoes, thunderstorms and gusty winds lashed portions of Texas, Nebraska, Oklahoma, Illinois and Wisconsin. Precipitation was generally light with most significant precipitation confined to the central States. Over 2.00 in. fell over a band stretching from northern Texas to northern Iowa.

The month ended with generally light precipitation, but there was considerable local flooding as thundershower activity dominated. Rain totaled 4.00 to 7.00 in. in an area from Arkansas into western Tennessee and northern Mississippi.

TEMPERATURE: Temperatures were near normal over the month, but were quite variable during the month. The month began and ended on the warm side, but the middle two weeks were cool and blustery.

During the first week of April, temperatures were generally warmer than normal over the eastern half of the Country, but cooler than expected in the West. However, the situation changed about the 10th as a late winter storm brought cooler than normal weather to most of the country. Record low temperatures were experienced from Florida to the Great Lakes. The unusually cool temperatures continued in the Southeast for most of the month.

Temperatures warmed markedly over the western half of the Country during the last half of April as temperatures averaged from 3° to 6° above normal.



Temperature and Precipitation Data for April 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	-1	5.4	+ .8	La.Baton Rouge . . .	69	+1	5.6	+ .5	Youngstown	50	+2	3.1	- .6
Mobile	66	-2	5.9	+ .3	Lake Charles	68	-1	3.0	-1.3	OKLA.Okla. City . .	60	0	4.7	+1.2
Montgomery	64	-1	3.7	- .8	New Orleans	69	0	5.5	+1.3	Tulsa	62	+1	3.7	- .5
ALASKA.Anchorage . .	38	+3	.6	0	Shreveport	64	-2	3.1	-2.1	OREG.Astoria	48	0	4.9	+ .3
Barrow	18	-17	T	- .2	MAINE.Caribou	37	0	3.8	+1.4	Burns	43	-1	.7	0
Fairbanks	35	+6	.2	- .1	Portland	45	+2	3.8	+ .5	Medford	48	-2	1.7	+ .7
Juneau	39	0	2.6	- .4	MD.Baltimore	55	+1	2.6	- .5	Pendleton	52	+1	2.1	+1.1
Kodiak	37	0	6.2	+2.4	MASS.Boston	51	+2	3.9	+ .4	Portland	51	0	1.8	- .4
Nome	21	+2	.5	- .5	Chatham	46	-	4.3	-	Salem	49	-1	1.5	- .8
ARIZ.Flagstaff	43	+1	.6	- .7	MICH.Alpena	42	+2	3.0	+ .6	PA.Allentown	53	+3	4.0	+ .2
Phoenix	71	+3	T	- .3	Detroit	49	+1	2.8	- .4	Erie	48	+3	4.9	+1.3
Tucson	66	0	T	- .4	Flint	48	+2	3.4	+ .5	Harrisburg	56	+3	3.2	+ .2
Winslow	51	-3	T	- .4	Grand Rapids	47	0	2.9	- .5	Philadelphia	56	+3	2.8	- .5
Yuma	71	0	0	- .1	Houghton Lake	43	+1	3.5	+1.1	Pittsburgh	52	+2	3.3	- .1
ARK.Fort Smith	61	-1	5.0	+ .3	Lansing	48	+1	2.1	- .8	Scranton	49	0	2.7	- .7
Little Rock	61	-1	9.8	+4.5	Marquette	40	0	3.3	+ .7	R.I. Providence . . .	51	+4	2.9	- .8
LITF.Bakersfield . . .	64	+1	.7	- .2	Muskegon	45	0	3.6	+ .4	S.C. Charleston . . .	64	-1	.9	-2.1
Eureka	50	0	3.2	+ .2	S. Ste. Marie	38	0	3.6	+1.4	Columbia	65	+1	3.0	- .5
Fresno	60	0	.6	- .6	MINN.Duluth	38	-1	2.1	- .5	Greenville	59	-2	4.1	- .2
Los Angeles	65	+3	.1	-1.2	Internatl Falls	38	0	2.1	+ .4	S.D. Aberdeen	46	+2	2.1	+ .1
Red Bluff	57	-3	1.5	- .3	Minneapolis	47	+2	2.4	+ .4	Huron	48	+2	1.1	- .9
San Diego	62	+1	T	- .8	Rochester	47	+2	2.6	+ .2	Rapid City	47	+2	1.6	- .5
San Francisco	55	0	2.3	+ .7	St. Cloud	44	+1	1.2	-1.1	Sioux Falls	49	+3	1.3	-1.0
Stockton	58	-1	2.8	+1.4	MISS.Jackson	63	-3	6.7	+2.0	TENN.Chattanooga . .	57	-4	3.1	-1.3
COLO.Denver	48	0	2.3	+ .4	Meridian	65	0	10.1	+5.0	Knoxville	60	0	5.8	+2.2
Grand Junction	51	-1	1.0	+ .2	MO.Columbia	56	+1	3.6	- .2	Memphis	62	-1	6.3	+ .9
Pueblo	51	-1	.3	-1.0	Kansas City	56	+1	2.9	- .6	Nashville	59	-1	4.0	- .1
CONN.Bridgeport	52	+4	3.4	- .0	St. Louis	57	0	2.4	-1.5	TEX.Abilene	66	+1	3.4	+ .9
Hartford	51	+3	3.6	- .2	Springfield	57	0	3.0	-1.3	Amarillo	60	+3	T	-1.2
D.C.Washington	58	+2	2.3	- .6	MONT.Billings	48	+3	1.7	+ .1	Austin	69	0	1.8	-1.7
FLA.Apalachicola . . .	68	0	2.0	-1.6	Glasgow	48	+5	.5	- .2	Beaumont	69	0	5.3	+1.1
Daytona Beach	69	-1	.4	-2.0	Great Falls	47	+4	1.0	- .2	Brownsville	76	+1	.5	- .8
Ft. Myers	75	+2	.1	-1.9	Havre	48	+4	.8	- .2	Corpus Christi	74	+1	.1	-2.1
Jacksonville	66	-2	1.5	-1.6	Helena	46	+3	.8	- .1	Del Rio	72	0	1.4	- .2
Key West	78	0	.2	-2.0	Kalispell	45	+3	1.9	+ .9	El Paso	65	+1	.1	- .1
Lakeland	71	-1	.6	-2.0	Miles City	48	+3	1.2	- .1	Fort Worth	66	+1	2.5	-1.8
Miami	76	+1	2.1	-1.5	Missoula	46	+2	.6	- .4	Galveston	70	+1	.9	-1.7
Orlando	71	0	1.2	-1.5	NEBR.Grand Island . .	52	+2	1.7	- .8	Houston	67	-2	1.7	-1.8
Tallahassee	65	-3	4.0	- .1	Lincoln	52	+1	3.9	+1.4	Lubbock	63	+3	.8	- .3
Tampa	71	-1	.4	-1.7	Norfolk	51	+2	1.7	- .5	Midland	66	+2	1.2	+ .6
W.Palm Beach	74	0	1.2	-2.3	N.Platte	50	+2	1.2	- .7	San Angelo	68	+1	1.9	+ .2
GA.Atlanta	61	0	3.7	- .9	Omaha	53	+3	1.7	-1.1	San Antonio	70	0	2.2	- .3
Augusta	62	-2	4.0	+ .6	Valentine	48	+2	1.3	- .5	Victoria	72	+1	.9	-1.8
Macon	64	-2	4.1	+ .5	NEV.Ely	40	-1	.8	- .8	Waco	67	0	3.3	- .7
Savannah	66	0	2.8	- .1	Las Vegas	63	-1	T	- .3	Wichita Falls	65	+1	6.2	+3.0
HAWAII.Hilo	74	+2	19.1	+6.2	Reno	47	0	.2	- .3	UTAH.Blanding	43	-4	.3	- .6
Honolulu	77	+2	4.1	+2.7	Winnemucca	45	0	.7	0	Salt Lake City	48	-1	4.6	+2.5
Kahului	-	-	-	-	N.H.Concord	46	+2	2.6	- .3	VT.Burlington	44	+1	3.5	+ .9
Lihue	76	+3	5.6	+2.3	N.J.Atlantic City . . .	55	+3	2.7	- .7	VA.Lynchburg	57	0	3.1	+ .4
IDAHO.Boise	50	+1	.7	- .4	Trenton	55	+3	2.7	- .5	Norfolk	61	+3	3.3	+ .6
Lewiston	51	+1	1.7	+ .6	N.MEX.Albuquerque . .	56	0	.1	- .4	Richmond	60	+2	1.6	-1.2
Pocatello	46	+1	1.4	+ .5	Roswell	61	+1	.5	0	Roanoke	57	+1	1.9	- .9
ILL.Cairo	59	-1	3.4	-1.0	N.Y.Albany	48	+1	2.8	+ .1	WASH.Colville	48	+1	1.2	+ .2
Chicago	52	+2	4.3	+ .5	Binghamton	49	+4	2.0	-1.2	Omak	49	0	1.1	+ .1
Moline	53	+2	5.1	+1.3	Buffalo	46	+1	3.1	- .1	Quillayute	47	+1	9.3	+1.1
Peoria	54	+3	4.1	- .3	New York	54	+2	2.9	- .7	Seattle-Tacoma	50	+1	2.4	- .1
Rockford	51	+3	3.4	- .5	Rochester	49	+3	2.6	- .1	Spokane	46	0	.8	- .3
Springfield	55	+2	3.1	-1.0	Syracuse	49	+2	3.1	0	Walla Walla	52	-1	2.3	+ .9
IND.Evansville	57	0	3.7	- .4	N.C.Asheville	55	-1	5.0	+1.5	Yakima	50	0	1.5	+1.0
Ft. Wayne	51	+2	3.4	- .2	Charlotte	60	-1	3.3	- .1	W.Va.Beckley	53	+1	3.4	+ .1
Indianapolis	55	+3	3.4	- .5	Greensboro	58	-1	2.2	-1.0	Charleston	57	+1	3.1	- .2
South Bend	52	+4	4.2	+1.4	Hatteras	62	+3	2.4	- .7	Huntington	58	+2	2.2	-1.1
IOWA.Burlington	54	+3	2.7	-1.1	Raleigh	60	0	1.3	-1.8	Parkersburg	56	+1	2.5	-1.0
Des Moines	53	+3	6.3	+3.4	Wilmington	64	+1	2.2	- .7	WIS.Green Bay	46	+2	2.6	- .1
Dubuque	49	+1	4.2	- .0	N.DAK.Bismarck	42	-1	2.2	+ .8	La Crosse	49	+1	1.8	- .8
Sioux City	53	+4	1.6	- .6	Fargo	42	0	3.4	+1.3	Madison	49	+4	4.2	+1.5
KANS.Concordia	55	+2	2.3	0	Williston	43	+1	.8	- .4	Milwaukee	46	+1	3.8	+1.0
Dodge City	57	+3	.5	-1.2	OHIO.Akron-Canton . .	52	+3	2.5	- .8	WYO.Casper	43	0	3.9	+2.4
Goodland	50	+1	1.5	+ .6	Cincinnati	54	0	5.1	+1.5	Cheyenne	43	0	.5	-1.1
Topeka	57	+2	2.8	- .8	Cleveland	51	+3	3.6	+ .1	Lander	44	+1	2.4	0
Wichita	56	-1	4.3	+1.3	Columbus	54	+3	2.7	-1.0	Sheridan	46	+2	1.6	- .5
KY.Lexington	56	+1	3.3	- .6	Dayton	53	+2	3.0	- .3	P.R.San Juan	80	+2	1.2	-2.2
Louisville	57	+1	2.7	-1.4	Toledo	49	+1	2.6	- .4					

Based on 1941-70 normals.

(Continued from Page 7)

subfreezing readings at night higher elevations.

Soil moisture short north, very short south. Ranges poor to fair. Livestock fair to good. Alfalfa, lettuce, onions, barley good. Irrigated winter wheat and apples fair to good. Dryland wheat poor with heavy abandonment. Cotton about 75% planted south and coming up to stands. Planting starting more north. Lettuce harvest underway Mesilla Valley. Alfalfa first cutting started south.

NEW YORK: Temperatures averaged a few degrees below normal north third, 2° above elsewhere. Extremes: 88° at Poughkeepsie and New York City, 18° at Saranac Lake. Rainfall near or above average most sections. Watertown and Rochester areas had light amounts but several points had over 1.00 in.

Fieldwork slow, cool wet conditions persisted. Fall plowed soils too wet for fitting and planting. Oats about 37% seeded. Corn planting restricted to well drained soils. Some pastures ready for grazing but cool weather holding back plant growth. Wheat and hay good, development slow. Potato planting Long Island over 95% planted. Volume planting of potatoes upstate underway. Onion planting nearly complete, some wind damage to fields. Cold weather delaying celery transplanting. Peaches, pears, cherries, McIntosh and Cortland apples at full bloom in Hudson Valley. Below freezing temperatures damaged buds, cool weather restricted pollination. Peaches, sweet and tart cherries blooming in west. Apples, pears mostly in half-inch green to pink stage. Freezing weather May 2 caused further damage. Sweet and tart cherry crop potential reduced.

NORTH CAROLINA: Dry weather continued until midweek. Coastal areas still need moisture. Temperatures averaged 3° to 5° above normal.

Soil moisture generally adequate. Farmers averaged 4.5 days of fieldwork. Flue-cured tobacco about 40% set, -- ahead of 1973 and normal. Growing crop fair to good. Corn 67% planted, -- slightly ahead of 1973 and normal. Soybean planting underway. Cotton 60% planted, -- ahead of 1973 and normal. Small grains condition 70% good. Pastures fair to good. Strawberry harvest gaining momentum, cabbage harvest starting.

NORTH DAKOTA: Temperatures generally well below normal, greatest departure 6° northcentral 4° northeast, elsewhere 2° to 3° below normal. Temperature extremes; high 88° at Lisbon on 30th, low 24° at Fortuna on 3rd. Heaviest daily precipitation 1.40 in. at Petersburg, in northeast district on 27th, weekly total of 1.93 in. Partly cloudy skies and cool weather prevailed weekend.

Generally fair weather permitted resumption of seedbed preparation and seeding where dry soils permitted. Grain seeding progressed significantly many southern areas but little progress north. Soils still cool. Pastures growing and providing some forage.

OHIO: Showers northwest on 29th. Rain statewide on 30th and 2d. Amounts on 2d ranged from 0.44 in. at Toledo to 1.42 in. at Cincinnati. Warm on 29th with highs in upper 70's to mid 80's. High was 86° at Chesapeake on 30th. Rest of week cooler with highs in 60's and lows from mid-30's to 40's. Record low of 29° at Toledo on 5th. Scattered light frost on morning of 4th.

Corn planting well ahead of normal, 40% complete. Soybean planting nearly 10% completed. Oat and sugarbeet planting nearly completed. Some northwest areas need more moisture for good germination. Nitrogen supplies reported short by 88% of reporters, 58% report phosphate short, and 48% report potash short.

OKLAHOMA: Temperatures averaged 1° to 4° above normal. Precipitation averaged about 0.50 in. panhandle to 4.25 in. southwest. Weekend mild and dry.

Small grains made rapid growth. Wheat 78% heading--1% dough stage, 31% headed 1973 and 55% 5-year average. Wheat improved except for panhandle which remains dry. Oats 52% headed, barley 63% headed, about 1 week ahead 1973. Corn 48% planted, 41% up to stand. Seedbed preparation for cotton, peanuts, soybeans, 33% to 75% complete. First alfalfa cutting short due to weevils and dry weather. Strawberry harvest activity light. Pecan grafting in east third. Potatoes up to stand in Caddo County area. Pastures received big boost from rains. Cattle mostly good.

OREGON: Rainfall restricted early week, shower activity occurred north coast midweek. Amounts averaged 0.50 in. on north, central coast. Elsewhere amounts total less than 0.10 in. Temperatures averaged near to slightly below normal. Highs mostly in 70's, few low 80° readings. Lows in upper 20's, southcentral, lowest remainder in mid-30's.

Dry, warm weather allowed rapid fieldwork. Crop conditions good. Plowing, spraying, fertilizing, seeding continued. Spring planted grains near completion. Fertilizer mostly short to adequate. Vegetable planting continued. Radish, asparagus, rhubarb harvest continued. Fruit crops past full bloom. Pastures, range much improved; growth improved.

PENNSYLVANIA: Considerable cloudiness and rain west and north; mostly fair, sunny and dry southcentral and southeast. Rainfall totaled from 1.50 in. west to 0.25 in. southcentral. Temperatures in 80's and 90's Monday, much cooler remainder of week when highs reached 50's & 60's lows dipped into the 20's north and 30's and 40's south. Extremes: 17° and 92°. Freezing widespread Sunday with record lows several places.

PUERTO RICO: Island average rainfall 1.33 in. or 0.26 in. subnormal. Highest weekly total 6.77 in. at Dos Bocas. Highest 24-hour total 3.89 in. at Dos Bocas. Temperatures averaged about 77° on coasts and 70° interior. Extremes: 91°, 49°.

Sugarcane harvest continued normally under favorable dry weather. Rains in some areas expected to improve development of coffee trees but other zones have been hurt seriously by drought. Harvest and curing tobacco continued well. Pastures hurt seriously by drought most sections especially south slopes and coast but a little improvement expected in areas favored by rains during week. Farmers preparing soil for planting food crops but more moisture needed. Bananas, vegetables and citrus harvested in west interior.

SOUTH CAROLINA: Temperatures several degrees above normal in most areas but near normal in northeast. Most of week sunny. Cloudy, cooler weather at end of week. Rainfall ranged under 0.50 in. to over 1.00 in. locally. High pressure system persisted off coast early week until weather front passed near midweek. Slow moving front

near end of week set off general showers over weekend.

Weather ideal for fieldwork. Lack of moisture inhibited germination. Rains over weekend beneficial to growing crops. Cotton generally good; 71% planted, 61% 1973. Corn good; 88% planted, 78% 1973. Tobacco good; 97% planted, 79% 1973. Usual disease, insect problems in tobacco. Small grains fair to good, plants headed; in south, turning color. Grain hay harvest active. Hay crops, pastures fair to good. Peaches good in Piedmont; fair in sandhills, ridge, coastal plains. Spring vegetables fair. Soybean planting underway.

SOUTH DAKOTA: Temperatures averaged near normal. Precipitation averaged 0.50 in. subnormal. Southeast suffers moisture deficiency, 3.00 in. plus since first of year, 2.00 in. for growing season. West of river above normal precipitation for growing season.

Some frost damage to crops. Winds eroded soils and depleted moisture southeast. Herbicide shortage creating problems. Wild oats in northcentral, cheatgrass and weeds other areas causing some problems. Spring seeding neared completion, ahead of normal, behind 1973. Corn planting well underway, ahead of normal and last year. Fall seeded grains making moderate growth. Stock moving to pastures, supplemental feeding continues. Branding started.

TENNESSEE: Rains from mid to end of week were heavy, averaging 1.00 to 2.00 in., with Milan receiving 3.01 in. Temperatures averaged up to 3° above normal. Highs ranged 80's early week to 60's weekend. Lows were in 50's and 60's.

Rain further delayed land preparation and planting in west, was beneficial in overcoming dry conditions east. Plowing 65% completed west, 80% east, 1973 50%, 80% normal. Barley and wheat 75% headed, oats 60%. Yellow barley virus damaging some fields. Strawberry picking started. Fuel supplies generally adequate to meet agricultural needs. High analysis fertilizer mixtures in short supply.

TEXAS: Widespread rainfall across most areas. Weak fronts triggered local heavy showers, thunderstorms large portion State. Heaviest amounts fell northcentral, total averaged 3.00 to 4.00 in. Rains 2.00 to 3.00 in. common upper coastal plains, central, Edwards Plateau. Lesser amounts panhandle, far west. Temperatures near or slightly above normal most of State. Readings over panhandle, far west near to slightly below normal.

Wheat, flax harvest stopped by moderate to heavy rains. Most rains too late benefit most dry land crop. Oats cut and baled for hay south half, some grain harvest underway. Planting cotton, corn, sorghum, peanuts excellent progress. Recent rains provided excellent planting moisture most areas. Early stands cotton, corn, sorghum excellent progress south half State. Major crops percent planted: cotton 28, 1973 13; corn 89, 1973 79; sorghum 46, 1973 41; peanuts 12, 1973 13; rice 91, 1973 52. Major crops percent harvested: flax 30, 1973 0; oats 1, 1973 0.

Lower Rio Grande Valley: Onion harvest passed peak. Light harvest cabbage and carrots. Potato and cucumber harvest started. Tomatoes made good growth. Laredo: Carrot and onion harvest in full swing. Coastal Bend: Cucumber and squash harvest remains active. San Antonio-Winter Garden: Potato harvest delayed due to rain. Onion harvest also slowed. Central: Tomatoes, cantaloups, and watermelons made good progress. East: Tomatoes excellent growth, most plants beginning to bloom. Watermelon planting continued. Knox-Haskell: Potato

crop continued good growth. North: Tomatoes satisfactory progress. High Plains: Onions, potatoes continue good growth. Cabbage and carrots emerging.

Peach harvest got underway in south Texas. Pecan crop looks very promising, most areas heavy blooming. Citrus harvest virtually complete. Rains benefitted ranges. Sheep shearing, lamb marking active west. New screwworm cases confirmed south.

UTAH: Few isolated showers latter part of week. Average temperatures for week ranged near normal to 8° below. Frost reported few localities early in week.

Spring planting, fertilizing, and other field work progressed rapidly. Except for apricots and a few sweet cherries no freeze damage to fruit or other crops. First crop alfalfa hay fair to good. Cutting started in St. George area. Spring wheat, oats and barley about 90% planted. Potatoes about 70% seeded for fall crop and 100% for early varieties in Davis County. In south, potato planting expected to start this week. Planting only 10% completed for field corn, 15% sweet corn, 80% green peas, over 95% sugarbeets. Condition of sweet and sour cherries, peaches, pears, and apples good. Apricots good in Box Elder, poor in Davis and Weber Counties. Calving, over 90% complete; lambing 70%; shearing 90%. Range feed supplies fair to good.

VIRGINIA: Unseasonably hot Monday and Tuesday with record breaking temperatures both days at Richmond. Cooler remainder of week, rain Thursday, Friday and Sunday. Precipitation totaled about 2.00 in. south-west to about 0.50 in. extreme east. Extremes: 94° and 38°.

Third consecutive week of open weather, 4.8 or more fieldwork days. Topsoil moisture 46% short, 54% adequate. Corn 67% planted in Tidewater, 42% statewide, 35% 1973. Cotton 25% planted, peanuts 13%, soybeans 5%, flue-cured tobacco less than 5% transplanted. Plant beds dusted for insects, few fields of fire-cured transplanted. Small grains good. More disease reported in wheat, needs moisture. Eastern Shore area transplanting tomatoes, and planting sweet corn, snapbeans, cucumbers; strawberry harvest starts next week. Pasture condition down, needs more moisture.

WASHINGTON: West: Temperatures near normal; highs 60's, lows 40's. Precipitation ranged from 0.10 to 0.80 in. Squash, green peas, sweet corn planting begun. Soil preparation underway for grass seedings and silage corn. Strawberries starting to bloom. Blueberries near full bloom in Pierce-King Counties. Field rhubarb and tulip harvest continues. Pastures showing good growth, increased grazing possible.

East: Average temperature below normal; highs 70's, lows 40's. Colder end of week. Scattered showers central and from 0.01 in. to 0.30 in. east. Sweet corn, potatoes, bean planting underway. Thinning, weeding sugarbeets. Chemical thinners applied to apple trees. Orchard heating begun. Asparagus harvest continues. Weed spraying active. Early planted winter wheat near boot stage. Seeding of spring grains almost completed. Twining of hops nearly finished.

WEST VIRGINIA: Temperatures above normal. Highs in high 80's and 90° Monday and Tuesday, cooler temperatures remainder of week with frost in higher elevations Saturday morning. Precipitation 0.50 to 1.00 in. most of State Tuesday through Friday.

Fieldwork 4.2 days. Soil moisture 28% short, 64% adequate, 8% surplus. Main farm activities planting, plowing and gardening. Spring oats 72% planted. Potatoes 84% planted. Corn 19% planted.

Tobacco beds 77% emerged. Wheat good. Oats, barley, hay and pasture fair to good.

WISCONSIN: Temperatures near normal with mixture of warm and cool days. Nights rather cold with near or little below freezing. Precipitation mostly light showers, a little snow northeast Sunday.

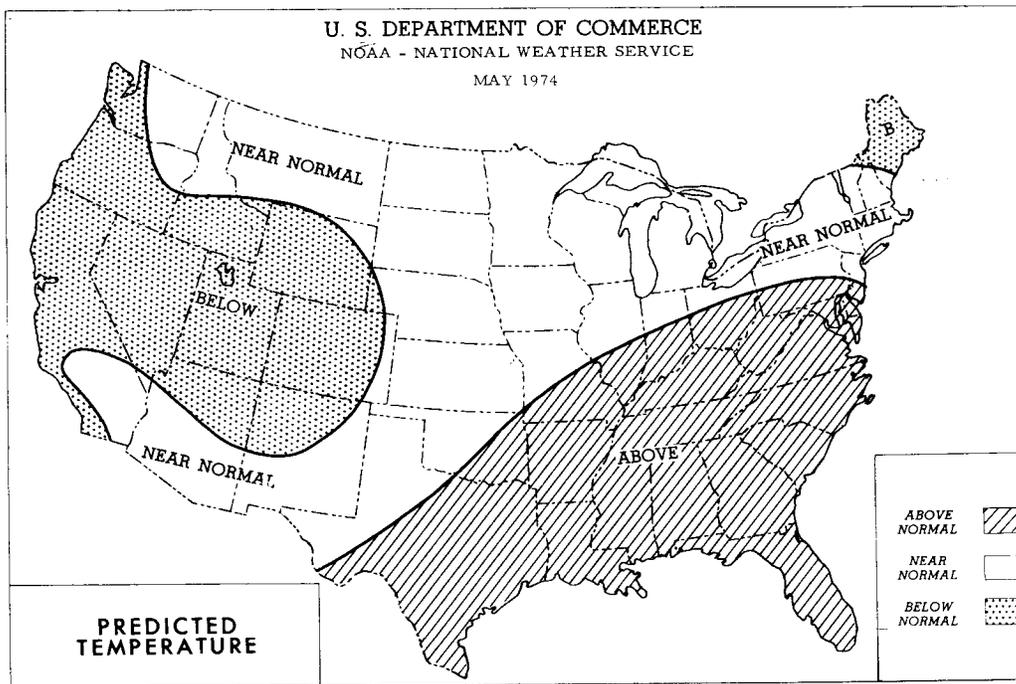
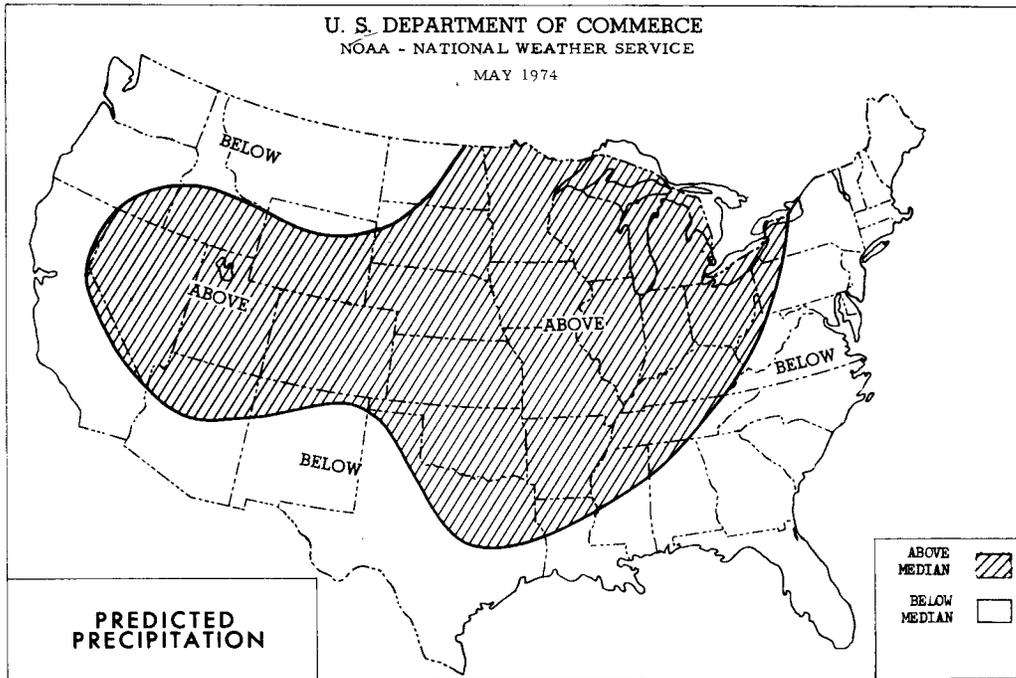
Much progress on crop planting. Oats 80% done, 1973 45%, normal 55%. Many finished sowing oats, starting on corn. Best progress on corn planting this early in many years. Early oats up and early corn emerging. Spring plowing 60% done, 1973 40%, normal 45%. Able to plow areas not workable last two springs. Pastures and hay fields look good but growth slowed by cool, dry weather. Warm spring rain would be helpful for all crops. Soil moisture 30% short, 70% adequate. Topsoil getting dry. North, west, and central most in need of moisture.

Planting of peas, potatoes, early sweet corn and other vegetable crops proceeding well. Many home gardens being planted. Tobacco beds being seeded. Apple and cherry trees budding.

WYOMING: Precipitation widespread although most stations received less than normal. Temperatures mostly seasonal with lows in 20's and highs in 70's. Seeding small grains, sugarbeets continued. Seedbed preparation, some planting corn, beans, potatoes. Spring wheat, oats, about 60% seeded. Barley, sugarbeets 70% seeded. Planting corn underway. Barley, spring wheat emergence about 40%, sugarbeets 35%, oats 25%. Topsoil moisture adequate. Irrigating crops, hay underway. Calving about 80% complete. Range lambing 50%, farm flock lambing 85% finished. Light to normal death losses. Range shearing 60% farm flock shearing 80% complete.

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

AVERAGE MONTHLY WEATHER OUTLOOK

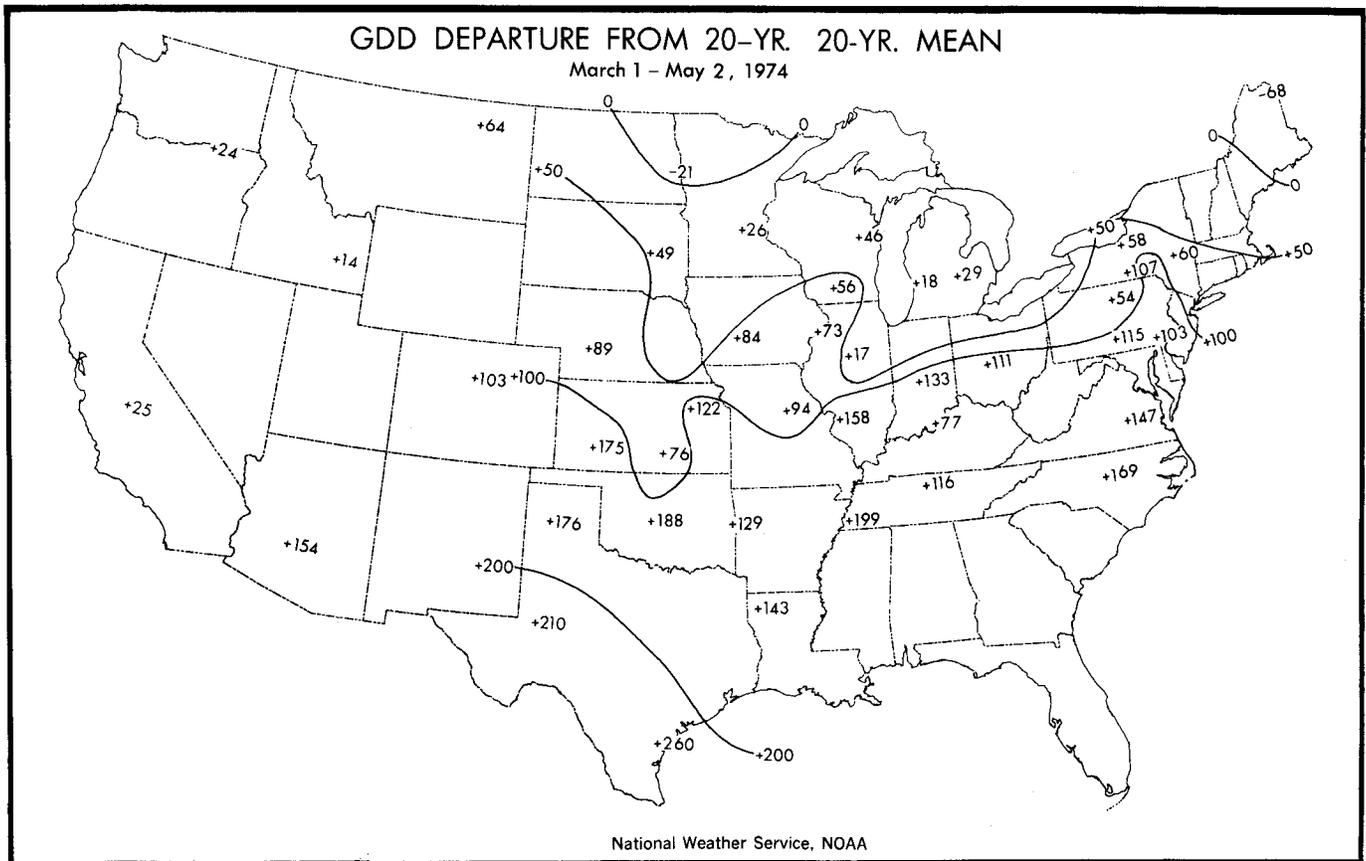
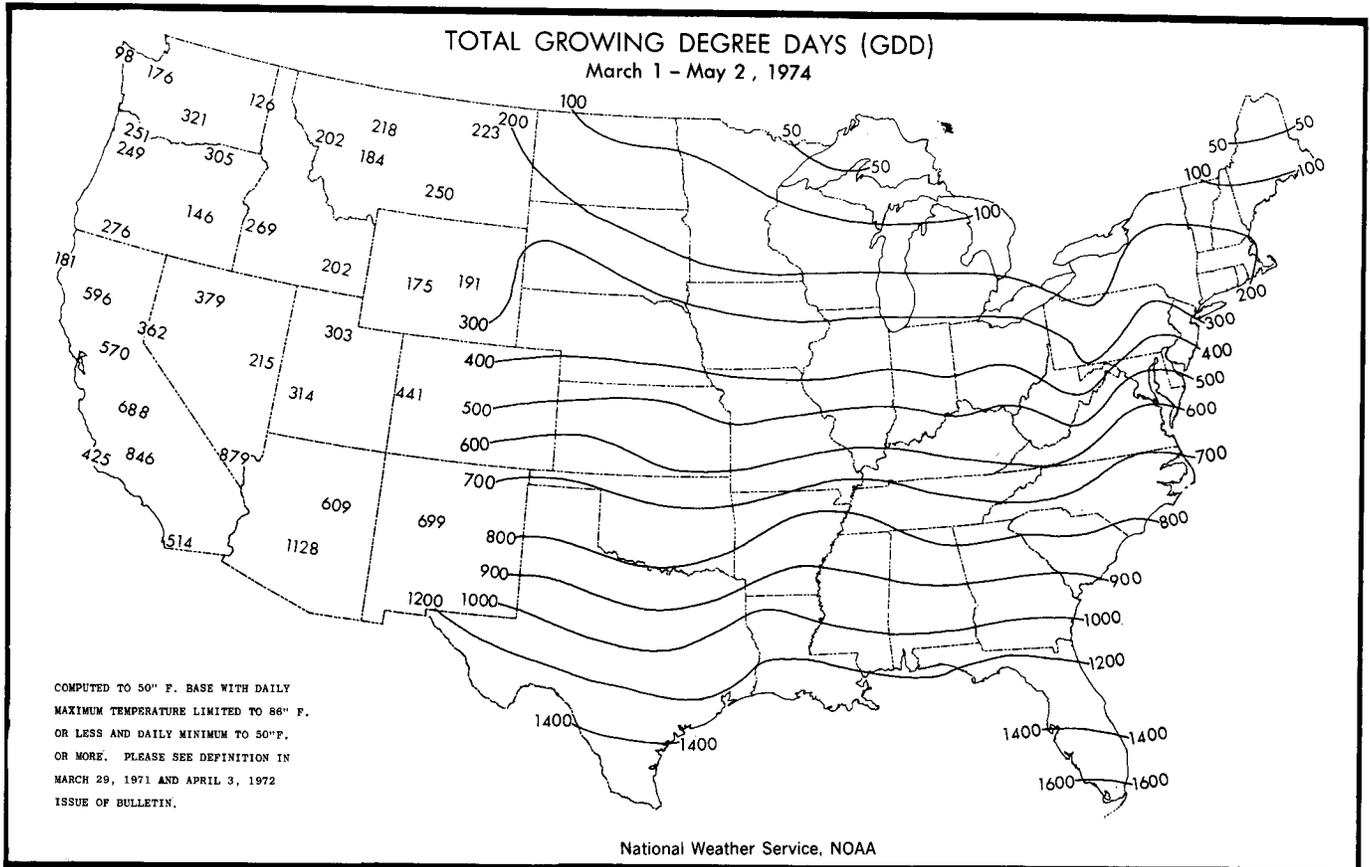


These prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They are taken from the Weather Service's publication Average Monthly Weather Outlook which contains additional information necessary for complete interpretation.

Heating Degree Days (Base 65°) For Week Ending May 5, 1974

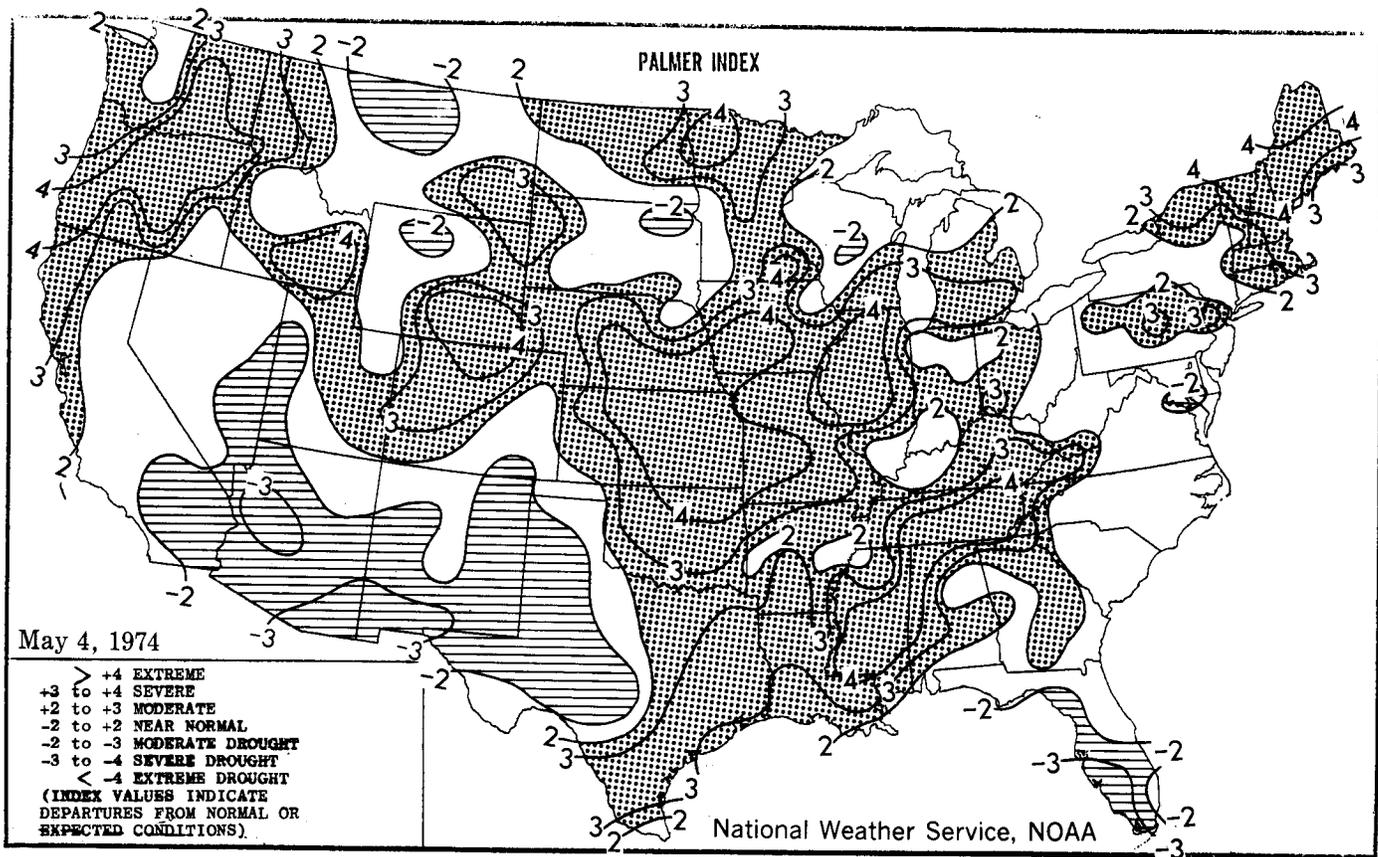
States and Stations	Weekly		Seasonal + Accumulation			States and Stations	Weekly		Seasonal + Accumulation								
	TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73		TOTAL	Departure*	TOTAL	Departure*	Departure From 1972-73						
ALA. Birmingham	0	-7	2138	-691	-865	Portland	105	-13	6572	-521	-402	Tulsa	5	-9	3311	-351	-720
Mobile	0	0	1037	-647	-559	MD. Baltimore	45	0	4286	-364	-199	OREG. Astoria	104	1	4896	177	268
Montgomery	0	-7	1643	-623	-536	MASS. Boston	72	-5	5068	-361	-213	Burns	96	-17	6465	-219	-431
ARIZ. Flagstaff	103	-27	6147	-586	-1549	MICH. Alpena	147	13	7698	-309	-15	Medford	55	-23	4302	-338	-294
Phoenix	0	0	2	1093	-459	Detroit	82	0	5998	-205	-47	Pendleton	46	-25	4501	-498	-763
Tucson	0	-2	1652	-55	-739	Flint	90	-5	6325	-412	-8	Portland	59	-18	4110	-344	-73
Winslow	43	-5	4705	77	12	Grand Rapids	86	-3	6408	-141	-92	Salem	80	-5	4510	26	-276
Yuma	0	0	907	-98	-283	Houghton Lake	128	10	7641	-280	50	PA. Allentown	74	7	5097	-566	-346
ARK. Fort Smith	5	-2	3047	-277	-837	Lansing	96	6	6512	-129	-245	Erie	100	-4	5891	-617	-271
Little Rock	2	-9	2647	-693	-601	Marquette	153	17	7757	-52	-157	Harrisburg	50	0	4557	-573	-371
CALIF. Bakersfield	0	-15	1760	-413	-458	Muskegon	110	11	6541	-38	158	Philadelphia	60	10	4361	-416	-195
Eureka	93	-5	4099	32	113	S. Ste. Marie	168	23	8705	106	400	Pittsburgh	65	-3	5070	-681	-287
Fresno	1	-22	2379	-228	-472	MINN. Duluth	159	19	9410	234	-99	Scranton	102	26	6048	-41	-106
Los Angeles	17	-17	1350	-306	9	Internatl Falls	71	-67	9968	-46	393	R. I. Providence	71	-16	5255	-483	-135
Red Bluff	2	-27	2688	53	-389	Minneapolis	90	-3	7625	-389	-117	S. C. Charleston	0	-7	1393	-753	-569
San Diego	17	7	1047	-345	-102	Rochester	87	-9	7705	-219	-308	Columbia	5	-2	1597	-994	-888
San Francisco	63	7	2804	-52	-37	St. Cloud	125	-20	8451	-81	-85	Greenville	19	5	2749	-395	-378
Stockton	8	-21	2466	-278	-290	MISS. Jackson	0	-7	1746	-553	-622	S. DAK. Aberdeen	102	6	8255	-33	628
COLO. Denver	79	-6	5611	-131	-628	Meridian	0	-7	1537	-849	-731	Huron	97	9	7361	-411	-12
Grand Junction	30	-24	5808	319	-601	MO. Columbia	46	-5	4754	-225	-431	Rapid City	82	-16	6532	-407	-639
Pueblo	51	-4	5016	-240	-891	Kansas City	38	-1	4804	-261	-485	Sioux Falls	84	-1	7148	-425	-285
CONN. Bridgeport	67	-12	4731	-536	-98	St. Louis	44	9	4541	-121	-288	TENN. Chattanooga	12	-7	2910	-557	-819
Hartford	79	0	5619	-590	37	Springfield	27	-7	4004	-489	-669	Knoxville	9	-10	2842	-602	-670
DEL. Wilmington	48	-4	4258	-801	-479	MONT. Billings	86	-15	6352	-520	-983	Memphis	1	-7	2504	-706	-969
D.C. Washington	34	3	3359	-790	-382	Glasgow	97	-7	8055	-492	-2	Nashville	7	-10	2957	-705	-530
FLA. Apalachicola	0	0	515	-382	-230	Great Falls	88	-20	6873	-326	-395	TEX. Abilene	3	-4	2091	-513	-1237
Daytona Beach	0	0	234	-223	-114	Havre	86	-21	7630	-772	-155	Amarillo	20	-13	3399	-716	-1464
Ft. Myers	0	0	933	-294	-252	Helena	98	-17	7256	-420	-1097	Austin	0	0	1310	-427	-818
Jacksonville	0	0	41	-21	-20	Kalispell	106	-16	7221	-733	-543	Brownsville	0	0	422	-230	-499
Key West	0	0	383	-295	-243	Miles City	77	-14	6905	-642	-565	Corpus Christi	0	0	703	-227	-532
Lakeland	0	0	131	-75	-7	Missoula	95	-18	6865	-547	-517	Del Rio	0	0	1063	-460	-685
Miami	0	0	408	-296	-101	NEBR. Grand Island	55	-10	6057	-184	-425	El Paso	5	3	2286	-392	-637
Orlando	0	0	1106	-457	-415	Lincoln	64	5	6113	42	-191	Fort Worth	0	-2	1853	-529	-848
Tallahassee	0	0	418	-300	-205	Norfolk	59	-12	6355	-429	-443	Galveston	0	0	730	-494	-672
Tampa	0	0	174	-125	-14	North Platte	82	3	6490	-5	-511	Houston	0	-3	1137	-297	-346
W. Palm Beach	0	0	2305	-773	-641	Omaha	50	-14	6109	-312	-348	Lubbock	14	-3	2634	-893	-1481
GA. Atlanta	0	-14	1974	-568	-410	Valentine	82	-7	6585	-431	-588	Midland	0	-2	2017	-604	-1356
Augusta	1	-6	1587	-652	-478	NEV. Ely	118	-13	7049	-146	-753	Beaumont	0	0	1106	-412	-799
Macon	0	-7	1274	-678	-321	Las Vegas	0	-10	2418	-179	-623	San Angelo	0	-2	1637	-603	-1114
Savannah	0	0	5029	-511	-559	Reno	72	-25	5233	-384	-1012	San Antonio	0	0	1220	-350	-637
IDAHO. Boise	69	-11	4892	-307	-325	Winnemucca	53	-53	5492	-703	-1047	San Antonio	0	0	842	-385	-673
Lewiston	55	-18	6444	-216	-767	N. H. Concord	100	-4	7022	-38	-464	Victoria	0	0	1630	-428	-1042
Pocatello	85	-16	3430	-375	-480	N. J. Atlantic City	61	-8	4434	-415	-171	Waco	0	0	2272	-624	-1160
ILL. Cairo	6	-6	5690	-251	-175	Trenton	24	-7	4214	-41	-628	Wichita Falls	0	-7	5438	-273	-672
Chicago	62	-6	5959	-276	-24	N. MEX. Albuquerque	16	1	3024	-663	-760	UTAH. Salt Lake C	64	-11	7388	-169	-180
Moline	54	-9	5626	-318	-285	Roswell	16	1	6632	-29	223	VT. Burlington	119	11	3670	-501	-436
Peoria	56	-5	8251	-386	-99	N. Y. Albany	95	10	6429	-532	-422	VA. Lynchburg	33	0	2695	-757	-487
Rockford	62	-16	5041	-406	-388	Binghamton	105	4	6339	-79	119	Norfolk	23	-2	3296	-597	-346
Springfield	67	9	3892	-661	-666	Buffalo	104	3	4395	-408	-340	Richmond	31	5	3548	-684	-562
IND. Evansville	21	-13	5417	-824	-267	New York	62	5	6078	-375	34	Roanoke	29	-9	5538	234	179
Fort Wayne	70	-3	4742	-704	-420	Rochester	90	-2	6339	-79	119	WASH. Quillayute	118	3	4425	-343	-347
Indianapolis	50	-6	5638	-365	-296	Syracuse	98	9	3396	-752	-457	Seattle-Tacoma	77	-13	6248	-184	-23
South Bend	68	-13	5930	-613	-576	N. C. Asheville	21	-16	1861	-838	-430	Spokane	98	0	4260	-392	-525
IOWA. Burlington	45	-15	6795	-243	-165	Hatteras	7	-14	2763	-431	-564	W. VA. Beckley	75	-1	5370	-359	-266
Des Moines	39	-26	6145	-632	-391	Charlotte	13	-1	3364	-417	-542	Charleston	64	-5	4535	-864	-575
Debuque	72	-9	5241	-245	-438	Greensboro	20	-2	2776	-703	-619	Huntington	29	-11	3781	-745	-698
Sioux City	42	-24	4568	-372	-1107	Raleigh	18	-1	1687	-744	-584	Parkersburg	44	0	4136	-583	-346
KANS. Concordia	58	5	5744	-155	-716	Wilmington	4	-3	8960	304	715	WIS. Green Bay	95	-10	7403	-339	129
Dodge City	54	10	4909	-233	-394	N. Dak. Bismarck	106	2	9258	343	531	LaCrosse	68	-8	6949	-252	-206
Goodland	79	6	4569	-44	-580	Fargo	135	28	8786	30	289	Madison	71	-23	6994	-433	-58
Topeka	45	2	3912	-730	-346	Williston	103	-4	5183	-749	-323	Milwaukee	109	4	6583	-497	-253
Wichita	39	6	3726	-835	-458	OHO. Akron-Canton	71	-6	4757	-799	-344	WYO. Casper	122	7	7058	-43	-919
KY. Lexington	34	-5	1050	-620	-590	Cleveland	71	-9	4526	-431	-364	Cheyenne	113	-3	6634	-153	-985
Louisville	29	-9	1104	-394	-691	Columbus	54	-8	5016	-488	-229	Lander	114	0	8200	783	-884
LA. Baton Rouge	0	0	931	-534	-693	Cincinnati	47	-1	6069	-99	5	Sheridan	107	-2	6925	-317	-740
Lake Charles	0	0	1912	-255	-538	Dayton	64	4	5753	-435	-363						
New Orleans	0	2	9125	34	-292	Toledo	81	4	6069	-99	5						
Shreveport	0	0	9125	34	-292	Youngstown	86	1	5753	-435	-363						
MAINE. Caribou	181	34	9125	34	-292	OKLA. Okla. City	9	-7	3285	-384	-910						

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



MEAN GROWING DEGREE DAYS (ADJUSTED 50° BASE):
ACCUMULATED WEEKLY MARCH 1 TO INDICATED DATES

Station	May 10	May 17	May 24	May 31	June 7	June 14	June 21	June 28	July 5
West:									
Phoenix, Ariz.	1123	1274	1442	1614	1794	1976	2172	2378	2593
Fresno, Calif.	767	877	1008	1139	1276	1411	1569	1732	1895
Denver, Colo.	378	447	524	613	709	819	937	1068	1212
Pocatello, Idaho	247	305	378	456	540	630	734	846	965
Glasgow, Mont.	209	274	347	429	517	613	716	821	934
Pendleton, Ore.	345	418	504	592	698	795	913	1033	1159
North Central:									
Des Moines, Iowa	340	428	525	629	753	897	1046	1201	1369
Minneapolis, Minn.	224	295	374	458	565	691	822	954	1103
North Platte, Nebr.	366	440	523	617	722	846	977	1115	1271
Omaha, Nebr.	405	502	607	722	854	1007	1165	1327	1504
Fargo, N. Dak.	186	250	325	404	503	612	724	839	968
Huron, S. Dak.	272	345	425	514	621	743	870	1001	1150
Green Bay, Wis.	176	234	302	374	466	573	683	797	923
Madison, Wis.	255	325	406	491	597	719	845	977	1119
South Central:									
Fort Smith, Ark.	794	929	1081	1240	1406	1589	1774	1964	2159
Dodge City, Kans.	537	634	741	865	997	1154	1318	1487	1667
Topeka, Kans.	519	623	741	867	1006	1168	1333	1503	1685
Wichita, Kans.	582	691	816	952	1100	1271	1447	1628	1819
Shreveport, La.	1020	1178	1348	1525	1706	1902	2100	2300	2504
Columbia, Mo.	519	622	741	864	1003	1168	1330	1501	1681
St. Louis, Mo.	541	647	770	899	1047	1220	1389	1566	1752
Oklahoma City, Okla.	728	849	988	1137	1294	1475	1658	1844	2039
Amarillo, Tex.	667	770	889	1019	1156	1311	1478	1649	1830
Corpus Christi, Tex.	1411	1600	1794	1998	2200	2412	2626	2840	3055
Fort Worth, Tex.	988	1140	1308	1486	1670	1871	2072	2278	2488
Midland, Tex.	964	1110	1263	1431	1603	1788	1978	2171	2364
Midwest:									
Chicago, Ill.	313	391	481	579	701	843	984	1142	1310
Moline, Ill.	344	429	526	629	755	898	1045	1200	1365
Peoria, Ill.	367	454	554	660	788	938	1085	1245	1415
Indianapolis, Ind.	411	499	602	708	834	986	1132	1293	1462
Louisville, Ky.	569	677	801	932	1073	1239	1399	1572	1752
Flint, Mich.	239	302	375	455	555	676	795	924	1064
Grand Rapids, Mich.	252	321	398	482	588	717	841	976	1121
Columbus, Ohio	404	490	593	697	818	964	1104	1260	1424
Northeast:									
Portland, Maine	135	181	237	304	386	470	563	668	787
Albany, N.Y.	244	313	393	478	586	702	820	963	1110
Binghamton, N.Y.	198	253	320	387	476	580	683	805	938
Syracuse, N.Y.	236	300	376	457	559	677	794	930	1075
Harrisburg, Pa.	377	463	563	667	792	936	1075	1239	1410
Philadelphia, Pa.	384	475	576	681	811	955	1094	1262	1436
Pittsburgh, Pa.	364	442	533	625	736	869	994	1140	1295
Williamsport, Pa.	318	397	485	576	686	814	937	1083	1237
Richmond, Va.	620	733	858	984	1120	1279	1430	1608	1786
Southeast:									
Macon, Ga.	999	1149	1314	1484	1656	1842	2029	2225	2421
Raleigh, N.C.	718	839	976	1113	1255	1420	1579	1757	1936
Memphis, Tenn.	793	935	1094	1257	1427	1618	1804	1999	2198
Nashville, Tenn.	705	831	974	1120	1276	1454	1626	1810	1998



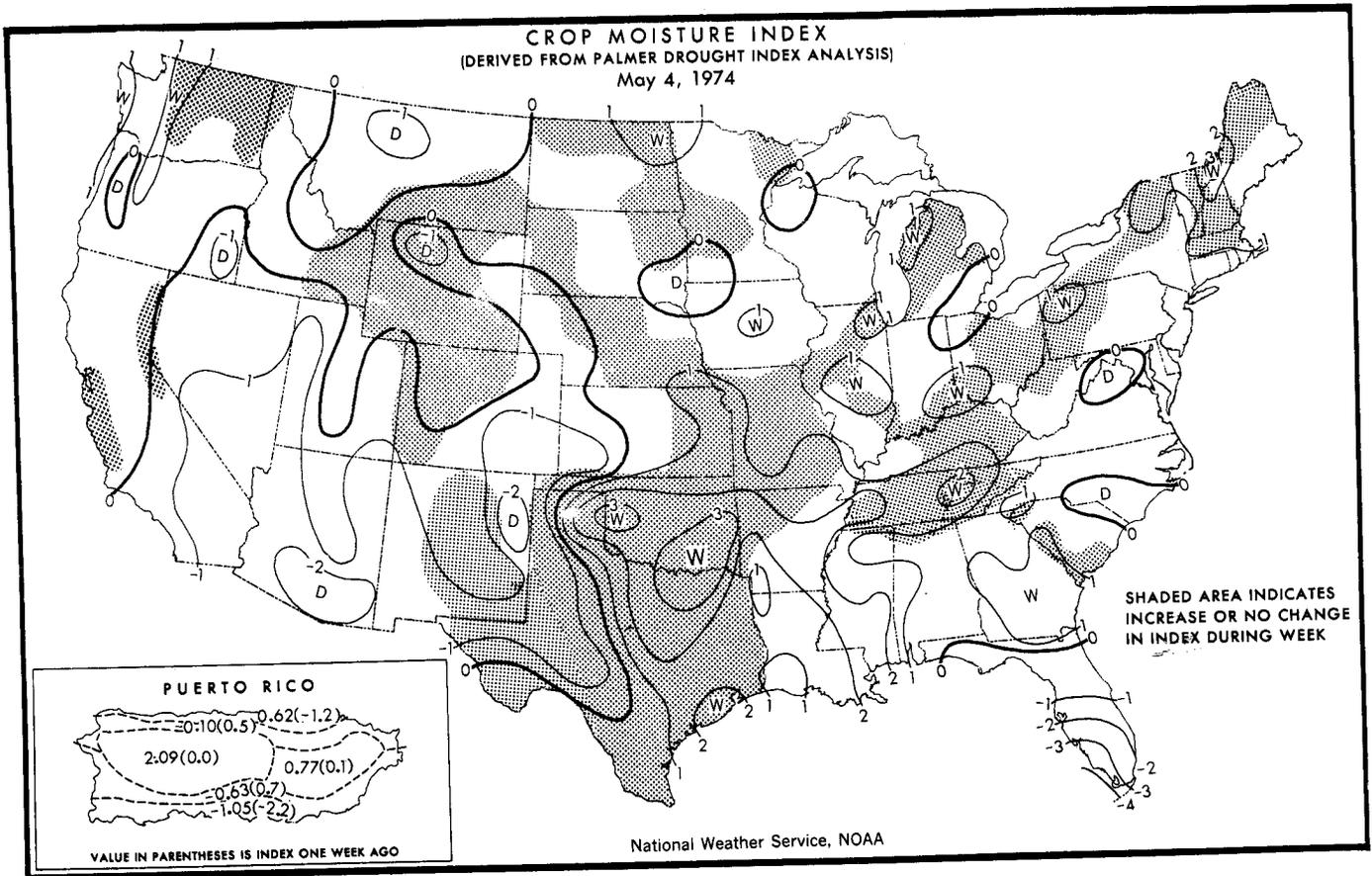
THE PALMER INDEX

The Palmer Index map will be published in the Bulletin in the first issue of each month during the season from April through October. The Crop Moisture Index map will appear each week during the same period.

There has been much misconception and misinterpretation of the Palmer Index. The index was originally devised as a climatological index of drought severity. The word "drought" is used here to describe prolonged periods of abnormally dry weather.

Just as the negative values of the index depict weather, the positive values depict the degree of severity of prolonged periods of wet weather. However, when an excessive amount of precipitation falls, the positive index may rise to much higher values than the negative index because precipitation is bounded by zero on the lower end but is unbounded on the upper end. Therefore, it may take longer to indicate the end of a wet spell than to end a dry spell.

The Crop Moisture Index should be used to see current moisture conditions and the Palmer Index for the long-term conditions.



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.



FIRST CLASS MAIL

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

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Heating Degree Days (Base 65° F.)

April 1974

ALA. Birmingham . . .	147	MAINE, Caribou . . .	837	OKLA. Okla. City . . .	168
Mobile . . .	49	Portland . . .	595	Tulsa . . .	137
Montgomery . . .	104	MD. Baltimore . . .	309	OREG. Astoria . . .	503
ALASKA, Anchorage . . .	805	MASS. Boston . . .	429	Burns U.	662
Barrow . . .	2191	Chatham . . .	560	Medford	504
Fairbanks . . .	895	MICH. Alpena . . .	697	Pendleton	391
Juneau . . .	765	Detroit . . .	476	Portland	403
Nome . . .	1316	Flint . . .	504	Salem	463
ARIZ. Flagstaff . . .	650	Grand Rapids . . .	532	PA. Allentown	385
Phoenix . . .	5	Houghton Lake . . .	649	Erie	521
Tucson . . .	49	Lansing . . .	513	Harrisburg	289
Winslow . . .	231	Marquette U.	747	Philadelphia	292
Yuma . . .	3	S. Ste. Marie	805	Pittsburgh	403
ARK. Fort Smith . . .	166	MINN. Duluth	806	Scranton	480
Little Rock . . .	163	Internatl Falls	806	R. I. Providence	433
CALIF. Bakersfield . . .	92	Minneapolis	535	S. C. Charleston	114
Eureka U.	454	Rochester	547	Columbia	99
Fresno	160	St. Cloud	623	Greenville	205
Los Angeles U.	54	MISS. Jackson	115	S. DAK. Aberdeen	563
Red Bluff	228	Meridian	76	Huron	506
Stockton	189	Vicksburg U.	---	Rapid City	530
San Diego	85	MO. Columbia	290	Sioux Falls	477
San Francisco	298	Kansas City	270	TENN. Chattanooga	242
COLO. Denver	507	St. Louis	253	Knoxville	190
Grand Junction	415	Springfield	268	Memphis	148
Pueblo	409	MONT. Billings	511	Nashville	227
CONN. Bridgeport	382	Glasgow	526	TEX. Abilene	78
Hartford	435	Great Falls	530	Amarillo	190
D. C. Washington	228	Havre	497	Austin	36
FLA. Apalachicola	27	Helena	564	Beaumont	36
Ft. Myers	1	Kalispell	598	Brownsville	5
Jacksonville	68	Miles City	507	Corpus Christi	13
Key West	0	Missoula	569	Del Rio	11
Lakeland U.	8	NEBR. Grand Island	366	El Paso	79
Miami	0	Lincoln	403	Fort Worth	70
Orlando	8	Norfolk	414	Galveston U.	10
W. Palm Beach	2	North Platte	445	Houston	60
Tallahassee	89	Omaha	379	Lubbock	122
Tampa	12	Valentine	510	Midland	68
GA. Atlanta	155	NEV. Ely	747	San Angelo	53
Augusta	140	Las Vegas	82	San Antonio	39
Macon	104	Reno	545	Victoria	17
Savannah	73	Winemucca	581	Waco	52
IDAHO, Boise	452	N. H. Concord	573	Wichita Falls	88
Lewiston	408	N. J. Atlantic City	328	UTAH, Blanding R	---
Pocatello	580	Trenton U.	307	Salt Lake City	502
ILL. Cairo U.	206	N. MEX. Albuquerque	255	VT. Burlington	618
Chicago	397	Roswell	151	VA. Lynchburg	265
Moline	360	N. Y. Albany	511	Norfolk	183
Peoria	348	Binghamton	495	Richmond	204
Rockford	427	Buffalo	553	Roanoke	255
Springfield	316	New York	331	WASH. Colville	512
IND. Evansville	264	Rochester	475	Onak	---
Fort Wayne	423	Syracuse	492	Quillayute	548
Indianapolis	314	N. C. Asheville	299	Seattle-Tacoma	433
South Bend	403	Charlotte	182	Spokane	554
IOWA, Burlington	354	Greensboro	232	Walla Walla U.	375
Des Moines	373	Hatteras R.	143	Yakima	433
Dubuque	472	Raleigh	187	W. VA. Beckley	362
Sioux City	374	Wilmington	113	Charleston	277
KANS. Concordia	322	N. DAK. Bismarck	674	Huntington	248
Dodge City	254	Fargo	676	Parkersburg U.	277
Goodland	454	Williston U.	653	WIS. Green Bay	590
Topeka	258	OHIO, Akron-Canton	402	Madison	494
Wichita	263	Cincinnati U.	332	Milwaukee	560
KY. Lexington	289	Cleveland	419	WYO. Casper	650
Louisville	257	Columbus	332	Cheyenne	643
LA; Baton Rouge	28	Dayton	380	Lander	633
Lake Charles	32	Toledo	483	Sheridan	572
New Orleans	16	Youngstown	465		
Shreveport	78				

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