

WEEKLY WEATHER AND CROP BULLETIN

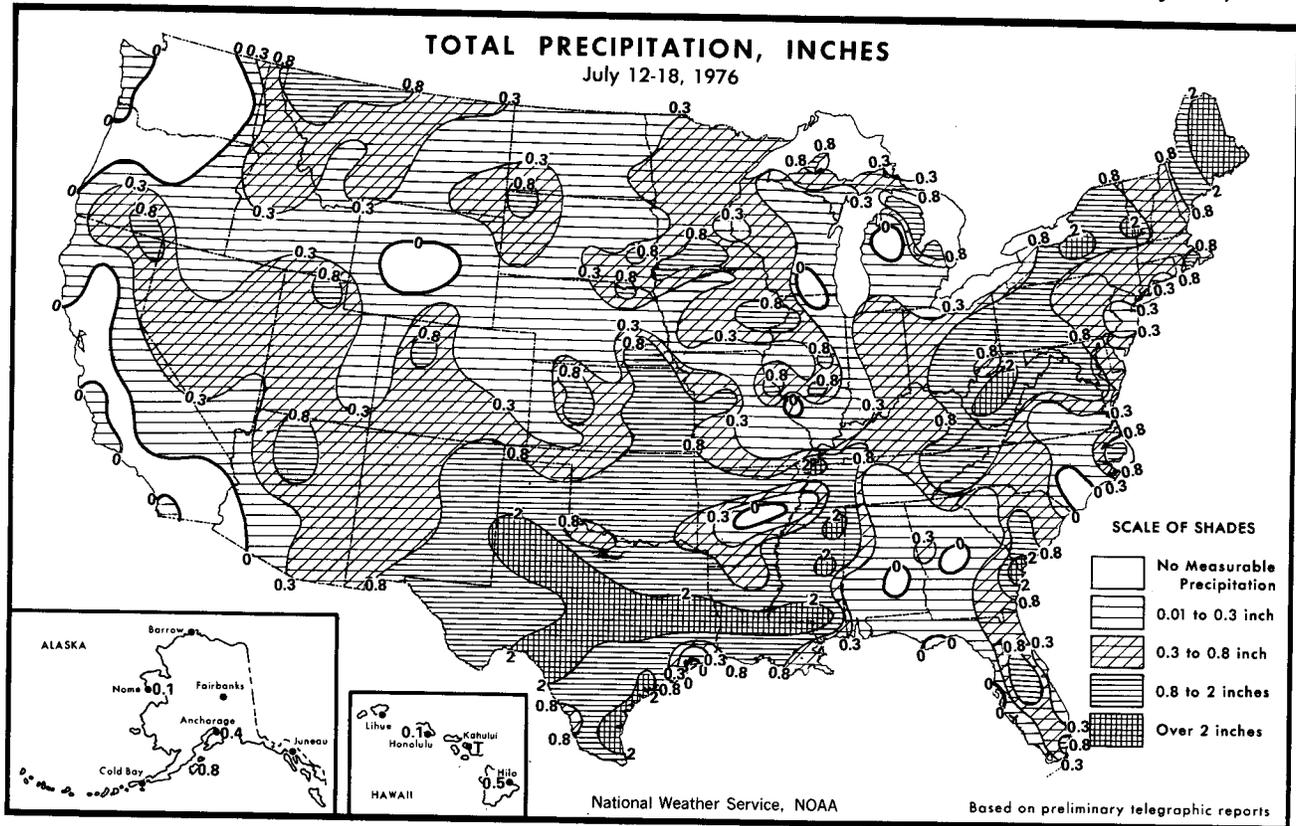
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National Weather Summary

For the week of July 12 - 18

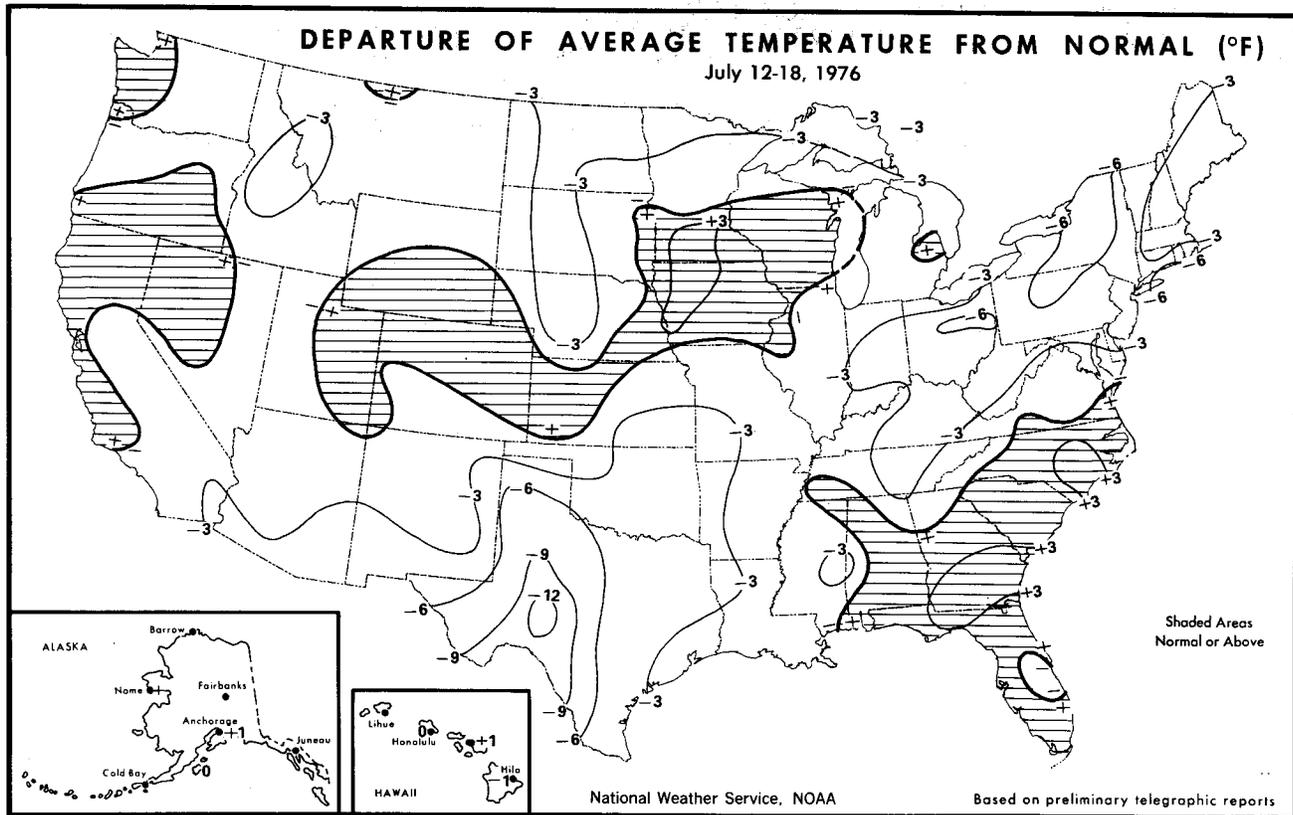
HIGHLIGHTS: Widespread thunderstorms rampaged across the Nation during the week. Heavy rains swelled the already bulging Texas, Vermont, Ohio, and West Virginia waterways to flood levels and caused flash flood activity in many areas. Precipitation made the news in West Enfield, Maine, which received 5 inches, and Corpus Christi, Tex., which collected roughly 4 1/2 inches in respective 24-hour periods. Although temperatures remained seasonably warm and sometimes hot as showers and thunderstorms raged over most of the country, forecasters reported unseasonably low weekly readings over southwest Texas and portions of New York and Pennsylvania. A Canadian cool air mass on Saturday dropped temperatures in the eastern segment of the Nation to end the week's weather story.

Scattered thunderstorms and warm temperatures dominated the Nation's weather picture on Monday. The threat of flash floods loomed over Ohio, West

Virginia, Vermont, and Texas from heavy morning rains and thunderstorms. Gradually, showers and thunderstorms spread over the northern Rockies into the western Plains, along the Gulf Coast, over the Atlantic Coast, as well as from the Mississippi Valley into the Tennessee Valley.

Midday temperatures ranged from 42° in Bremer-ton, Wash. to 99° in Rochester, Minn, and Pierre, S. Dak. Readings in other parts of South Dakota and Nebraska nudged the 100° mark. Out of the shower and thunderstorm area, a seasonably hot afternoon took shape. By nightfall, storm activity delivered high winds, heavy rains, and hail in Rapid City, S. Dak. Strong winds extended into the northern Rockies and gusted up to 50 mph at Havre, Mont.

Other thunderstorms developed in central Georgia, while several persisted in the Gulf States, New England, and northeastern New York. The day ended with clear skies and dry weather from the Pacific



Coast to the Rockies.

A deep low pressure center produced cloudy skies and lower temperatures in the Great Lakes area and the northern and middle Atlantic States early Tuesday morning. Early morning temperatures plunged to record lows of 45° in Lansing, Mich.; 48° in Detroit, Mich.; 49° in Indianapolis, Ind.; and 53° in Richmond, Va.

Temperatures rose with the day's progression. Although the mercury hit 90° plus in the east central Plains, portions of the mid and upper Mississippi Valley, and much of the southern half of the Nation; it was contained in the 60's in the northern half of the Intermountain region, the northern Atlantic States, northern New England, and most of upstate New York.

Severe thunderstorm activity moved throughout southwest Texas and activated flash flood watches. Winds of 60 mph buffeted southern Minnesota and uprooted trees as funnel-shaped clouds flitted around the State's countryside. Thundershowers moved into western Tennessee and eastern Georgia and from New England to New Jersey.

Weather conditions changed little in the Far West, as clear skies prevailed along the Pacific Coast and the Intermountain region.

Midweek reports noted severe storm activity which pelted Mt. Rushmore, S.Dak. with golf-ball sized hail and gusting winds. Scattered showers and thundershowers stretched from Texas along the Gulf Coast into Florida and covered New England and most of New York State. Isolated thunderstorms dotted the southern Rockies into the Arizona and Colorado mountains. Skies remained sunny over the West Coast and Pacific Northwest with near-normal temperatures

for mid-July.

Violent winds accompanied lines of intense thunderstorms as they moved in the mid-Atlantic States, into the southern Plains, and over the Great Lakes region. Strong winds measured 85 mph in Greensboro, N.C.; 50 mph in East Dayton, Ohio; 76 mph in Washington (D.C.) National Airport; and 67 mph in Columbus, Ohio and Charleston, W.Va.

Other severe weather included five tornadoes that touched down in Texas, two in Ohio, one each in Indiana, Kansas, and southwest Pennsylvania.

Temperatures ahead of the thunderstorms soared into the hot category on Thursday. Macon, Ga. and Richmond, Va. each set record highs of 100°, while Raleigh, N.C. reached a high of 98°. The high in the Nation leaped to 110° in Needles, Calif. and Buckeye, Ariz.

As thunderstorms charged through Kansas, 4 inches of rain deluged Overland and caused culverts to flood.

Record cool temperatures centered over the northern Plains, as an unseasonably cool air mass from Canada moved into the Nation early Friday morning. Flooding continued in Texas as thunderstorms and heavy rains barraged the State. High pressure centers brought cool, dry air from parts of the northern and central Plains and upper Mississippi Valley into the Ohio Valley and Great Lakes region.

Unseasonably cool temperatures prevailed in the East, while heavy thunderstorms remained in the South Central States over the weekend. The heaviest precipitation covered Texas. Thundershowers moved from southern Oregon to northern and central California across the Plateau into the northern Rockies.

National Agricultural Summary

For the Week of July 12-18

HIGHLIGHTS: The U. S. cotton crop improved during the week, but other crops showed stress from short soil moisture supplies, particularly in the North Central States. Soil moisture was short in the western North Central States and was short to adequate elsewhere, except in most of the Atlantic Coast States and the Appalachian region where supplies were adequate. Pastures deteriorated significantly in the Dakotas, Iowa, Wisconsin, and California. Winter wheat harvest advanced ahead of schedule and spring wheat ripened early, allowing combining to begin.

SMALL GRAINS: The Nation's winter wheat crop, at 86% harvested, led last year's 81% and 79% average. Harvests in most of Texas, Oklahoma, and Kansas were complete. Combining began in Oregon and Washington, and no winter wheat was harvested in Montana. Oklahoma farmers plowed and disked 75% of the wheat stubble, slightly behind 80% in 1975.

In Minnesota about 6% of the spring wheat was combined, surpassing none in 1975 and a normal 1%. Spring wheat harvest was underway in North Dakota. The Montana spring wheat crop was 80% headed and 15% turning color. Normally 55% is headed and 5% is turning yellow.

CORN: Across the Nation the corn crop remained in good condition but showed increased drought stress in several of the North Central States. Height of the crop averaged from 65 inches in Ohio to 48 inches in Wisconsin and Colorado. Generally the crop measured slightly below last year's height, but remained above average. Corn harvest was underway in Florida and Texas. About 30% of Alabama's crop reached the dent stage, about equal to last year but well ahead of 18% average. Between 65 and 77% of the corn crop was silking and 15 to 31% was in the dough stage in the South Central States. In the North Central States, silking ranged from 25% in Ohio and Indiana to 53% in Illinois, behind last year's growth but ahead of average. Dry soil conditions caused special concern because most of the crop was approaching or already into the silking and tasseling stages. In Iowa, rolling leaves on corn signaled heat stress. Hot, dry conditions in that State retarded tasseling and silk emergence. Light rains brought some relief, but Iowa still needs more moisture. In Nebraska irrigation provided much needed water; dryland corn suffered drought stress. Meantime drought permanently damaged corn on light soils in Wisconsin, where early corn was in better condition than late planted corn.

COTTON: The cotton crop improved in most major States with condition ranging from fair to good. Crop development in the Atlantic Coast States lagged slightly behind last year. In the South Central States squaring ranged from 66 to 87%, except in Oklahoma, which reported only 33% squaring. Generally, squaring was about on target with 1975 and average levels, except in Oklahoma, where squaring by far outdistanced last year's 20%, and in Alabama, where the current rate sharply lagged 1975's 92% and 93% average. Setting bolls ranged from 10% in Tennessee to

29% in Louisiana - only half the progress of last year and just a third of the normal rate.

SOYBEANS: The Nation's soybean crop was in fair to good condition in the western North Central States but elsewhere rated mostly good. Dry soil lowered crop condition in the western North Central States. Blooming ranged from a low of 20% in Missouri to 30% in Indiana and 63% in Minnesota. The blooming schedule was generally about the same as last year and the average. Pod formation was underway and lagged last year but moved ahead of average. Only a few pods were set in Kansas, compared with 5% in 1975 and a 10% average. In Iowa, 18% of the plants set pods - equal to last year but ahead of the 8% average. Pod set stood at 10% in Illinois, far behind 1975's 40% and 15% average. Ohio's pod development was 25%, compared with 30% in 1975 and 15% average. In the South Central States, the blooming rate, at about 15%, slipped far behind 1975 and the average. Few pods were set.

OTHER CROPS: The U. S. sorghum crop was in fair to good condition, but development was behind normal. In Kansas a few fields headed, compared with 5% both last year and the average. The Oklahoma crop advanced to 16% headed, behind 24% in 1975 and 25% average. Texas farmers finished planting a week later than last year. Rain stopped harvesting and heads began sprouting in southern and central Texas.

The tobacco crop in major producing States was in good condition but required irrigation in some areas. In North Carolina flue-cured harvest advanced to 17% complete, ahead of 9% in 1975 and 12% average. Kentucky reported that 75% of its crop was over 2 feet tall with disease and insect problems under control.

FRUITS AND NUTS: Peach harvest continued, reaching 92% complete in Georgia, ahead of last year's 83%. South Carolina peaches hit 73% harvested, compared with 55% in 1975 and a 50% average. Peach harvests were also active in Virginia, Maryland, and New Jersey. Early variety apple harvest continued in Virginia and Maryland. Tart cherry picking was underway in New York and Wisconsin and neared peak volume in Michigan, Oregon, and Washington. Citrus harvests continued in California and Arizona.

VEGETABLES: Summer vegetable harvests were active nationwide. In Florida, growers prepared land for fall vegetable crops. Rains in Texas slowed vegetable harvests and damaged some crops. In California broccoli, cauliflower, celery, lettuce, tomatoes, and peppers moved to fresh markets. Cannery tomato volume increased.

PASTURES AND LIVESTOCK: Pastures provided insufficient forage in most of the western North Central States, some of the Mountain States, and California. Some producers fed supplemental hay throughout most of these areas. Elsewhere grasslands were in fair to good condition. Most livestock was in good condition, but cattlemen culled closely in the Dakotas and California.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., July 18, 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA.Birmingham . . .	80	0	.3	-.9	La.Baton Rouge . . .	81	-1	1.8	+.3	Youngstown . . .	67	-4	1.1	+.2
Mobile . . .	84	+2	.1	-2.0	Lake Charles . . .	81	-1	1.0	-.5	OKLA.Okla. City . . .	79	-3	1.0	+.4
Montgomery . . .	81	0	T	-1.2	New Orleans . . .	81	-1	.2	-1.4	Tulsa . . .	79	-3	1.0	+.2
ALASKA.Anchorage . . .	59	+1	.4	-.1	Shreveport . . .	78	-5	1.3	+.7	OREG.Astoria . . .	61	+1	T	-.2
Barrow . . .	--	--	--	--	MAINE.Caribou . . .	62	-3	2.5	+1.6	Burns . . .	69	0	.1	0
Fairbanks . . .	--	--	--	--	Portland . . .	67	-1	.9	+.3	Medford . . .	73	+1	.4	+.3
Juneau . . .	--	--	--	--	MD.Baltimore . . .	74	-3	.4	-.5	Pendleton . . .	74	0	0	-.1
Kodiak . . .	54	0	.8	0	MASS.Boston . . .	73	0	.4	-.2	Portland . . .	67	0	T	-.1
Nome . . .	52	+2	.1	-.4	Chatham . . .	68	--	1.2	--	Salem . . .	65	-2	0	-.1
ARIZ.Flagstaff . . .	65	-1	1.7	+1.1	MICH.Alpena . . .	64	-2	.8	+.2	PA.Allentown . . .	70	-4	T	-1.0
Phoenix . . .	91	-1	.1	-.1	Detroit . . .	71	-1	.1	-.6	Erie . . .	65	-4	.4	-.4
Tucson . . .	82	-5	.5	-.1	Flint . . .	70	0	T	-.6	Harrisburg . . .	72	-4	.7	-.1
Winslow . . .	77	-2	.3	0	Grand Rapids . . .	71	-1	T	-.7	Philadelphia . . .	73	-4	.1	-.8
Yuma . . .	91	-3	T	-.1	Houghton Lake . . .	65	-1	T	-.7	Pittsburgh . . .	67	-5	.8	-.1
ARK.Fort Smith . . .	77	-5	.9	+.2	Lansing . . .	69	-2	T	-.6	Scranton . . .	67	-5	.6	-.4
Little Rock . . .	80	-1	T	-.8	Marquette . . .	65	-2	.3	-.4	R.I.Providence . . .	68	-4	1.8	+1.2
CALIF.Bakersfield . . .	86	+2	T	0	Muskegon . . .	68	-2	.1	-.5	S.C.Charleston . . .	82	+2	.6	-1.3
Eureka . . .	57	+1	.1	+.1	S. Ste. Marie . . .	60	-4	.2	-.4	Columbia . . .	81	0	1.0	-.3
Fresno . . .	79	-2	T	0	MINN.Duluth . . .	64	-2	.3	-.5	Greenville . . .	79	+1	T	-1.0
Los Angeles . . .	72	-2	0	0	Internatl Falls . . .	63	-3	.7	-.2	S.D.Aberdeen . . .	72	0	.2	-.4
Red Bluff . . .	84	+1	0	0	Minneapolis . . .	75	+3	.1	-.7	Huron . . .	73	-1	.1	-.4
San Diego . . .	70	0	T	0	Rochester . . .	72	+2	.3	-.5	Rapid City . . .	71	-2	.5	0
San Francisco . . .	63	+1	T	0	St. Cloud . . .	69	-1	.6	-.1	Sioux Falls . . .	75	+1	.7	0
Stockton . . .	76	-1	.1	+.1	MISS.Jackson . . .	81	-1	.9	-.1	TENN.Chattanooga . . .	76	-3	.3	-.9
COLO.Denver . . .	76	+3	T	-.4	Meridian . . .	78	-3	.3	-.9	Knoxville . . .	76	-2	1.4	+.3
Grand Junction . . .	79	0	.2	+.1	MO.Columbia . . .	76	-1	.1	-.8	Memphis . . .	82	0	.1	-.7
Pueblo . . .	77	0	.4	0	Kansas City . . .	77	-2	.4	-.6	Nashville . . .	77	-3	.2	-.7
CONN.Bridgeport . . .	68	-6	.2	-.6	St. Louis . . .	78	-1	0	-.8	TEX.Abilene . . .	77	-7	2.6	+2.0
Hartford . . .	71	-2	.3	-.5	Springfield . . .	74	-4	.4	-.4	Amarillo . . .	72	-7	1.0	+.4
D.C.Washington . . .	78	-1	1.8	+.9	MONT.Billings . . .	71	-1	.1	-.1	Austin . . .	80	-5	1.9	+1.5
FLA.Apalachicola . . .	83	+2	0	-1.9	Glasgow . . .	69	-2	.2	-.1	Beaumont . . .	81	-2	.3	-1.0
Daytona Beach . . .	83	+2	T	-1.5	Great Falls . . .	68	-2	.4	+.1	Brownsville . . .	81	-3	1.2	+1.0
Ft. Myers . . .	83	+1	.1	-1.9	Havre . . .	70	0	.8	+.5	Corpus Christi . . .	81	-4	4.6	+4.2
Jacksonville . . .	83	+2	.4	-1.3	Helena . . .	66	-2	.1	-.1	Dallas . . .	--	--	--	--
Key West . . .	86	+1	0	-.9	Kalispell . . .	64	-1	.8	+.6	Del Rio . . .	77	-10	4.5	+4.3
Lakeland . . .	83	+1	1.6	-.3	Miles City . . .	74	-1	.3	0	El Paso . . .	77	-5	1.8	+1.4
Miami . . .	84	+2	.9	-.6	Missoula . . .	64	-3	.6	+.4	Fort Worth . . .	80	-5	1.5	+1.1
Orlando . . .	80	-1	1.4	-.5	NEBR.Grand Island . . .	76	0	.1	-.6	Galveston . . .	82	-1	0	-1.0
Tallahassee . . .	85	+4	T	-2.1	Lincoln . . .	78	+1	1.1	+.4	Houston . . .	81	-2	.6	-.3
Tampa . . .	83	+1	T	-1.9	Norfolk . . .	76	0	.3	-.4	Lubbock . . .	72	-8	2.3	+1.8
W.Palm Beach . . .	83	+0	.1	-1.3	N.Platte . . .	71	-4	.1	-.6	Midland . . .	74	-8	1.4	+1.0
GA.Atlanta . . .	78	0	T	-1.2	Omaha . . .	78	+3	T	-.8	San Angelo . . .	73	-12	.8	+.5
Augusta . . .	82	+2	.1	-1.1	Valentine . . .	71	-3	.1	-.5	San Antonio . . .	79	-6	1.4	+1.0
Macon . . .	83	+2	T	-1.1	NEV.Ely . . .	67	-1	.6	+.5	Victoria . . .	81	-3	1.4	+.8
Savannah . . .	84	+3	3.0	+1.2	Las Vegas . . .	88	-2	T	-.1	Waco . . .	81	-5	3.2	+2.9
HAWAII.Hilo . . .	74	-1	.5	-1.6	Reno . . .	70	0	.3	+.2	Wichita Falls . . .	80	-6	.7	+.2
Honolulu . . .	80	0	.1	0	Winnemucca . . .	74	+2	T	-.1	UTAH.Blanding . . .	74	0	.2	0
Kahului . . .	79	+1	T	-.1	N.H.Concord . . .	68	-2	.1	-.6	Salt Lake City . . .	77	0	.8	+.7
Lihue . . .	--	--	--	--	N.J.Atlantic City . . .	71	-4	.5	-.5	VT.Burlington . . .	65	-5	.5	-.3
IDAHO.Boise . . .	72	-3	.3	+.3	Trenton . . .	72	-4	.2	-.9	VA.Lynchburg . . .	74	-2	.2	-.7
Lewiston . . .	73	-1	.3	+.2	N.MEX.Albuquerque . . .	78	-1	.3	0	Norfolk . . .	80	+2	T	-1.3
Pocatello . . .	71	-1	.2	+.1	Roswell . . .	76	-3	1.1	+.7	Richmond . . .	77	-1	.7	-.6
ILL.Cairo . . .	80	-1	.1	-.6	N.Y.Albany . . .	67	-5	.4	-.3	Roanoke . . .	75	0	.3	-.5
Chicago . . .	73	-2	.1	-.8	Binghamton . . .	62	-7	.4	-.5	WASH.Colville . . .	--	--	--	--
Moline . . .	76	+2	1.6	+.5	Buffalo . . .	65	-5	.4	-.3	Omak . . .	70	-1	0	-.1
Peoria . . .	74	-1	.1	-.8	New York . . .	73	-4	.6	-.3	Quillayute . . .	59	0	.1	-.4
Rockford . . .	72	-1	T	-1.0	Rochester . . .	66	-5	1.6	+1.0	Seattle-Tacoma . . .	66	+1	T	-.1
Springfield . . .	76	0	T	-.9	Syracuse . . .	64	-8	2.3	+1.6	Spokane . . .	69	-1	T	-.1
IND.Evansville . . .	76	-2	T	-.9	N.C.Asheville . . .	73	0	1.7	+.6	Walla Walla . . .	75	-1	0	-.1
Ft. Wayne . . .	70	-3	.4	-.5	Charlotte . . .	78	0	.4	-.7	Yakima . . .	70	-1	0	0
Indianapolis . . .	71	-4	.3	-.5	Greensboro . . .	77	0	.5	-.5	W.Va.Beckley . . .	67	-3	1.6	+.6
South Bend . . .	71	-1	.3	-.5	Hatteras . . .	79	+1	1.6	+.3	Charleston . . .	71	-4	4.8	+3.6
IOWA.Burlington . . .	76	+1	T	-.8	Raleigh . . .	80	+3	T	-1.2	Huntington . . .	71	-4	1.0	0
Des Moines . . .	77	+2	.3	-.4	Wilmington . . .	83	+3	T	-2.0	Parkersburg . . .	71	-4	.5	-.5
Dubuque . . .	72	0	.7	-.3	N.DAK.Bismarck . . .	68	-3	.1	-.4	WIS.Green Bay . . .	70	+1	T	-.7
Sioux City . . .	75	0	.2	-.5	Fargo . . .	68	-3	.5	-.2	La Crosse . . .	74	+1	.5	-.3
KANS.Concordia . . .	78	0	.2	-.5	Williston . . .	68	-2	T	-.5	Madison . . .	72	+2	T	-.9
Dodge City . . .	80	+1	.1	-.6	OHIO.Akron-Canton . . .	66	-6	1.3	+.4	Milwaukee . . .	71	+1	.2	-.6
Goodland . . .	77	+1	0	-.6	Cincinnati . . .	72	-4	.8	-.2	WYO.Casper . . .	72	+1	.1	-.1
Topeka . . .	76	-2	1.7	+.8	Cleveland . . .	70	-1	.7	-.1	Cheyenne . . .	70	0	.2	-.2
Wichita . . .	77	-4	.7	-.3	Columbus . . .	70	-4	.8	-.2	Lander . . .	72	+1	T	-.1
KY.Lexington . . .	71	-5	.4	-.7	Dayton . . .	70	-5	.3	-.5	Sheridan . . .	70	-1	.3	+.1
Louisville . . .	76	-1	.4	-.5	Toledo . . .	71	-1	.1	-.6	P.R.San Juan . . .	84	+3	.1	-1.4

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State Summaries of Weather and Agriculture

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

ALABAMA: Warm week followed by cool weekend. Temperatures 2° above normal 12th through 16th, 4° below normal 17th and 18th. A cold front moved into the State on 16th and became stationary. Rain light to moderate.

Fieldwork: Five days suitable. Soil moisture short to adequate. Cotton fair condition, 66% squaring, 92% 1975, 93% average; 19% setting bolls, 39% 1975, 43% average. Corn good condition, 30% dented, 29% 1975, 18% average. Soybeans good condition 14% blooming, 28% 1975, 23% average. Peanuts good condition, 77% pegging, 83% 1975, 89% average. Irish potato digging continues. Watermelon movement active.

ALASKA: Tanana Valley temperatures much above normal first half but cooled to near normal levels by end. Precipitation light until last of period when heavy showers spread through much of valley. Matanuska Valley warm and mostly sunny. Temperatures well above normal; precipitation totals below seasonal levels. Kenai Peninsula temperatures above normal. Rainfall very light and occurred as showers. Kodiak Island rain accumulations below normal. Cloudy with temperatures near normal.

Barley virtually all headed beginning to turn color. Oats 80% headed except 50% in Clearwater area of Tanana Valley. Grain about 21 in. high in main producing areas. Potatoes about 13 in. high with hilling virtually completed. About 20% bloomed. Ground moisture short.

ARIZONA: High humidity. Temperatures 1 to 5° below normal. Showers near normal to above. Rainfall central mountains and southeast totaled 1.50 to 3.00 in.

Cotton satisfactory growth. Square and boll setting increased as irrigation applications continue. Insects no problem. Late cotton developing nicely and irrigation, weed control and cultivation continue. Grain sorghum making seasonal progress. Very limited planting, irrigation and cultivation continues. Small grain harvest almost complete. Alfalfa hay harvest very active. Cantaloup and watermelon harvest nearly complete. Potato harvest complete. Grape harvest nearly complete. Land preparations underway fall vegetables. Grapefruit and valencia orange harvest active. Cattle and calves mostly poor lower elevations, generally good summer ranges mountains.

ARKANSAS: Temperatures slightly below normal. Extremes: 50 and 97°. Rainfall was 1.47 in. to zero.

Soybeans making good growth, 99% planted, 99% last year, average 98%. Cotton squares setting rapidly. Rice condition remains good. Nitrogen being applied. Corn and sorghum good condition. Sorghum blooming rapidly. Corn approaching dent stage. Tomato harvest strong. Hay condition good, second and third cuttings active. Pastures provided adequate feed. Cattle good to excellent condition.

CALIFORNIA: Light showers throughout Central Valley and locally heavy showers over the Sierra Nevada. Few light showers occurred over north coast and south coast, and isolated very light thundershowers peppered the desert area. Tem-

peratures at seasonal normal.

All crops progressing well. Second crop corn and milo planting complete. Water critical with wells reported going dry and water districts restricting deliveries. Bartlett pears being harvested, sizes small. Reduced plum crop expected. Picking began early varieties clingstone peaches, apricots, figs, grapes, grapefruit, lemons, nectarines, olives, oranges, and freestone peaches continue to be harvested. Broccoli, cauliflower, celery, lettuce moderate supply, quality variable. Fresh tomatoes and peppers in good volume. Strawberries heavy to processors. Canning tomato increasing. Ranges extremely dry. Cattlemen reduce herd size on range, supplemental feeding. Many cattle moved irrigated pasture.

COLORADO: Warm and dry. Temperatures above normal. Readings 100° or more some areas. Precipitation very spotty. Amounts, traces at lower elevations to 1.00 in. plus in the mountains.

Winter wheat, ripe 89%, harvested 72%, 45% 1975, 59% average. Winter barley, ripe 84%, harvested 64%. Oats and spring barley condition good. Sugarbeets condition very good. Dry beans condition good. Sorghum condition fair. Corn condition very good. Average height 48 in., 42 in. 1975, tasseled 8%. Alfalfa, 1st cut 94%, 2d cut 20%. Soil moisture short. Ranges and pastures very poor to good condition. Livestock condition good to very good.

FLORIDA: Partly cloudy, few afternoon thundershowers. Warm with highs in the low to mid-90's. Little to no rain; generally less than 2.00 in.

Soil moisture adequate. Corn and peanuts good condition, harvest increasing. Tobacco harvest active, marketing underway. Hay harvest continues, rain causing delays. Soybeans good condition, planting about complete. Sugarcane good condition. Pasture grasses continue to put on new growth with soil moisture adequate. Forage conditions good, some areas surplus forage available. Cattle, calves good to excellent shape. Citrus grove condition excellent, moisture adequate. Valencia harvest declining sharply. Spring vegetable harvest virtually over. Watermelon harvest shortened. Early fall crop land preparation underway some areas.

GEORGIA: Temperatures 1 to 2° below normal north and 1 to 2° above normal south. Showers widely scattered, heaviest amounts southeast. Little cooler 17th and 18th.

Soil moisture short to adequate. Fieldwork: 6.0 days suitable. Cotton fair to mostly good condition, 70% setting bolls, same last year. Corn condition good. Peanuts good condition, 96% blooming, 84% pegging; 98% and 91% last year. Soybeans fair to mostly good condition. Tobacco 68% harvested, last year 56%. Peaches 92% harvested, last year 83%. Watermelons fair to good condition, 77% harvested, last year 68%. Apples good condition; harvest continues at slow pace. Pastures, hay crops, cattle, hogs all good condition.

HAWAII: Weather favorable, clear skies prevailed. Heavy irrigation and frequent spraying necessary

to maintain fair to good crop progress. Vegetables supplies adequate. Harvesting of few leafy crops. Mustard, cabbage and green onion decreasing. Banana, apple, papayas supplies heavy. Pineapple harvesting active. Sugar harvesting steady. Pastures leeward sections poor; windward area fair to good.

IDAHO: Temperatures near normal south to 3° below normal north. Extremes: 26 and 103°. Precipitation limited to showers and thunderstorms mostly over north.

Warm, open weather allowed crops good growth and development. Aphid infestation grain crop, peas and lentils in north. Harvest winter wheat, barley, dry peas underway limited scale. Spring wheat 10% turning, 10% 1975. Winter wheat 45% turning, 30% 1975. Potato fields 25% closing middles, 40% 1975. Pasture and range grasses good to excellent condition -- need moisture southwest and south central. Livestock excellent condition.

ILLINOIS: Temperatures near normal. Precipitation less than 0.10 in. most areas, heavier northwest.

Corn good; 53% silked, 76% 1975, 41% average. Soybeans good; 56% bloomed, 69% 1975, 36% average; 10% setting pods, 40% 1975, 15% average. Winter wheat virtually all combined. Oats 80% ripe, 65% 1975, 69% average; 45% combined, 43% 1975, 32% average. Barley virtually all combined. Second crop alfalfa hay mostly good, 70% cut, 54% 1975, 46% average. Pastures mostly fair to poor. Soil moisture 84% short, 14% adequate, 2% surplus. Fieldwork: 6.3 days suitable.

INDIANA: Temperatures 2 to 4° below normal. Sunshine 90% of possible and high evaporation rates. Rainfall 0 extreme southwest but showers at Bedford of over 2.00 in. Most areas reported 0.30 to 0.70 in. Humidity near normal.

Fieldwork: 6.0 days suitable. Topsoil and subsoil moisture short to mostly adequate. Wheat 95% combined, 1975 95%, average 75%. Oats 40% combined, 1975 35%, average 25%. Barley 90% combined, rye 70% combined. Corn 25% silked, 1975 40%, average 20%. Soybeans 30% bloomed, 5% setting pods, 1975 10% setting pods. Second cutting alfalfa 55% complete, 1975 45%, average 40%. Pastures mostly fair. Mint 25% cut. Cantaloups 5% picked once.

IOWA: Temperatures averaged near normal. Precipitation below normal except for small areas in east central district. Hot, dry early last week. Scattered rains, cooler temperatures later in week brought some relief.

More rain needed, crops showing effects of moisture shortages. Fieldwork: 6.5 days suitable. Hot, dry conditions retarded corn tasseling, silk emergence. Corn showing signs of heat stress, rolling leaves common in afternoon, firing in isolated areas. Condition of corn mostly good. Corn crop 55% tasseled, 62% last year. Corn fields 75% or more silked, 31% this year, 34% last year, 33% average. Soybeans recovering. Need rain for further advancement. Soybean condition fair to good. Replanted, late planted soybean stands thin, spotty, developing slowly. Soybean fields 75% or more blooming, 52% this year, 47% last year, 44% average. Soybeans setting pods, 18% this year, 18% last year, 8% average. Oat harvest 61% complete, 33% last year, 30% average. Winter wheat 83% harvested, 84% last year, hay growth slow. Second cutting alfalfa 67% com-

plete, 51% last year, 45% average. Second cutting clover hay 30% harvested, well ahead of normal. Topsoil moisture 88% short, 12% adequate. Subsoil moisture 66% short, 34% adequate. Livestock condition good. Pasture short, dry. Hay feeding common.

KANSAS: Temperatures 77 to 80° or 4° above normal northwest, 3° below normal southeast and south central. Scattered showers and thunderstorms 14th and 15th recurred over east 16th and 17th. Average amounts 1.00 to 2.00 in. northeast quarter, 0.50 to 0.75 in. southeast and spotty 0.25 to 1.00 in. west.

Winter wheat harvest in wrap-up stage, compared with 95% last year and average. Soil moisture short. Corn tasseling stage 25%, 45% last year, 40% average. Sorghum only few fields headed, 5% last year and average. Few soybean fields podding, 5% last year, 10% average. Alfalfa third cutting 5% completed, 10% last year and average.

KENTUCKY: Temperatures near or slightly below normal. Warm, humid 12th to 15th, cooler 16th. Thundershowers 15th and 16th. Precipitation averaged 0.50 in., heaviest northeast.

Soil moisture mostly adequate. Corn growing rapidly, excellent condition, almost 50% tasseled. Soybeans 15% blooming, and 15 in. average height. Most doublecropped beans planted. Tobacco good condition with 75% of crop 24 in. high or over. Disease and insect problems under control.

LOUISIANA: Temperatures 4° below normal northwest, normal elsewhere. Extremes: 65 and 95°.

Soil moisture adequate. Fieldwork: 5.0 days suitable. Cotton 85% squaring; 29% setting bolls. Rice 63% headed, 7% ripe. Soybeans good condition; 42% blooming. Corn good, 97% silk stage, 77% dough stage. Sugarcane good growth. Sweetpotatoes good - early crop maturing. Pastures, cattle good - some fly problems.

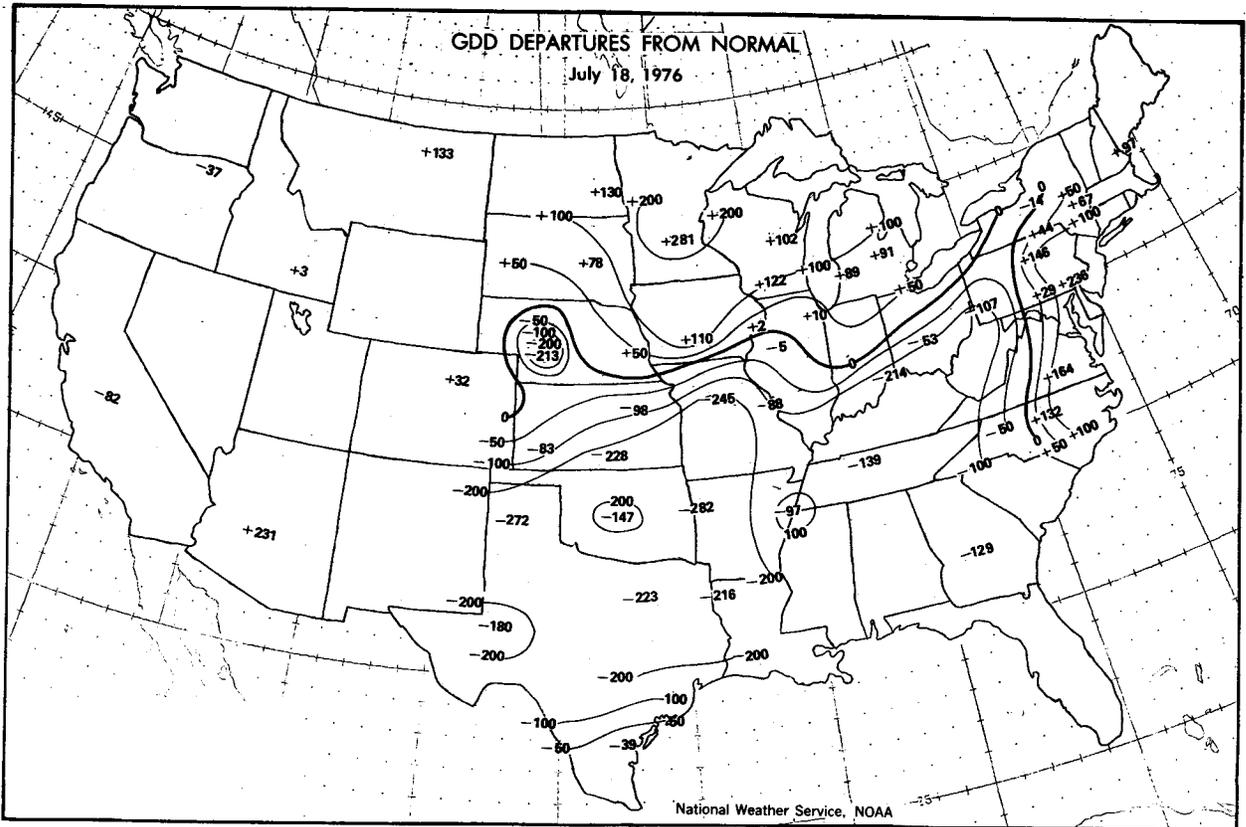
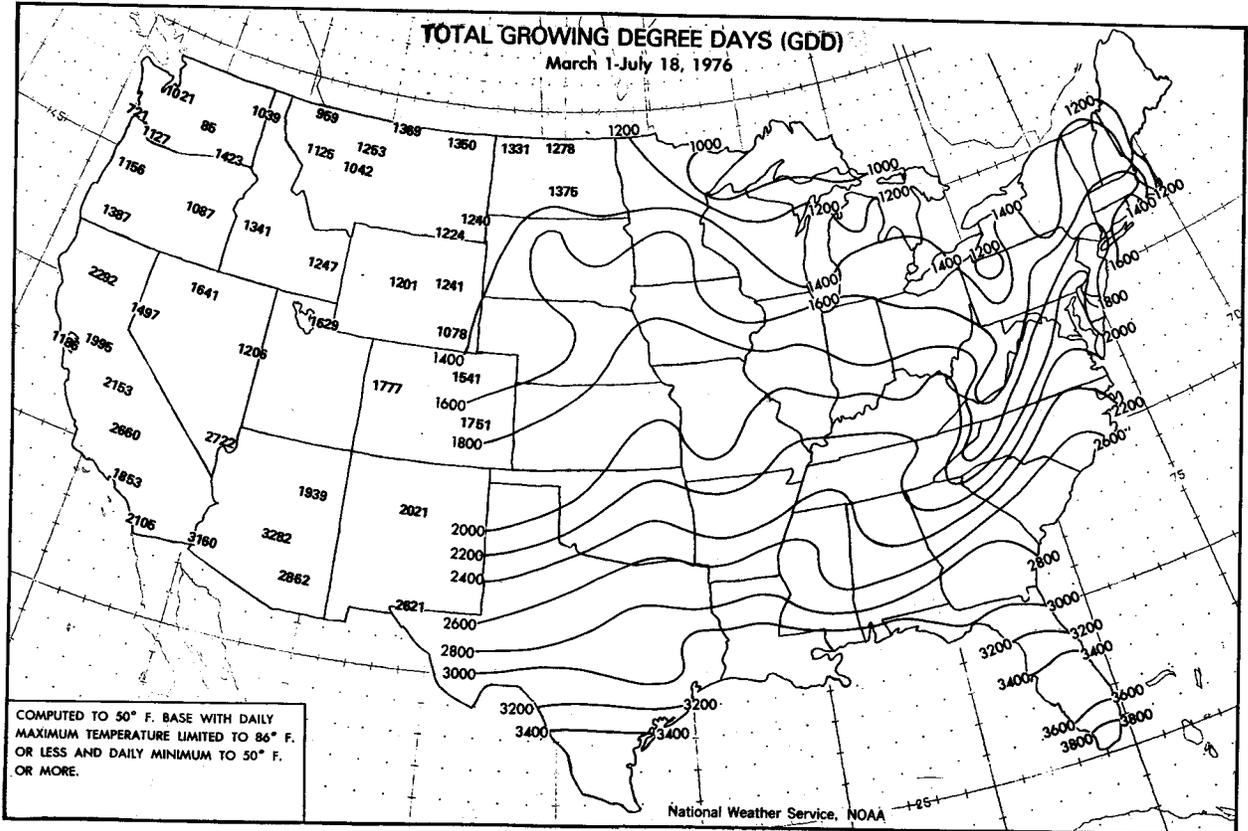
MARYLAND & DELAWARE: Temperatures near to slightly below normal. Extremes: low 40's and low 90's. Precipitation 0.68 to 3.95 in. Heavier amounts during local thunderstorms. Weekend sunny, dry, and less humid.

Rain slowed activities but relieved dry conditions. Corn crop 40% silked, equal to 1975. Soybeans beginning to blossom. Barley harvest complete; wheat, 95%; rye, 90%; oats, 80%. Poor quality hay made due to wet conditions. Third cutting alfalfa 30%, second cutting other hay 50%. Vegetable crops made good growth. Tomatoes, sweet corn, cucumbers, cantaloups, snap beans, potatoes being harvested. Early varieties apples and peaches harvested.

MICHIGAN: Temperatures normal to 4° below. Extremes: 95 and 37°. Precipitation trace to 0.56 in.

Rains needed to relieve moisture stress. Soil moisture short. Fieldwork: 6.0 days suitable. Corn height 45 in., 40 in. normal. Wheat harvest in full swing with 35% done, 19% 1975 and normal. Oat combining in south. Dry beans suffering water damage in "thumb". First cutting hay virtually complete, second cutting underway. Pasture feed supplies average. Tart cherry harvest underway with 55% picked. Sweet cherry harvest virtually complete. Vegetables developing well. Cabbage and cucumber harvest just beginning.

MINNESOTA: Temperatures 3° below normal north



half, 1° above normal south half. Extremes: 103 and 41°. Precipitation spotty in showers mainly midweek, averaged near 0.25 in. north two-thirds, near 0.67 in. south third. Growing season precipitation departure: 5.00 to 7.00 in. below normal.

Rains alleviated moisture stress on corn, soybeans in south central; crops on lighter soils seriously damaged. Limited rain west central, southwest where crops still under severe stress. Additional rain needed all areas as crops enter critical stages. Small grain harvest rapid pace southern half, beginning Red River Valley. Yields below normal, extremely variable. Corn 56% tasseling, 1975 37%; normal 34%. Soybeans 63% blooming, 1975 65%, normal 58%. Percent combined: Spring wheat 6%, 1975 0%, normal 1%; oats 16%, 1975 0%, normal 1%; barley, 12%, 1975 0%, normal 1%; winter wheat 37%, 1975 0%, normal 3%; rye 34%, 1975 0%, normal 4%.

MISSISSIPPI: Temperatures near normal. Extremes: 58 and 98°.

Soil moisture short to adequate. Fieldwork: 5.3 days suitable. Cotton 87% squaring, 70% 1975, 84% average; 38% blooming, 40% 1975; 14% setting bolls, 27% 1975, 57% average. Soybeans 99% up to a stand; 15% blooming, 10% 1975. Corn 77% silked, 65% 1975, 67% average; 31% in dough stage, 26% 1975. Sorghums 97% planted; 25% headed, 17% 1975. Hay crops 47% harvested, 42% 1975, 47% average. Watermelons 34% harvested, 29% 1975. Peaches 72% harvested, 69% 1975, 68% average. Cucumbers 73% harvested, 79% 1975. Cotton in mostly fair condition. Other crops in mostly good condition.

MISSOURI: Temperatures 2 to 4° below normal west, 1° above normal east. Precipitation light, averaged below 0.25 in.

Fieldwork: 5.8 days suitable. Soybeans 20% blooming, 1975 42%, normal 27%. Corn 39% silked, 1975 67%, normal 47%. Grain sorghum 10% headed. Wheat harvest completed. Oat harvest 81%, 1975 82%, normal 73%. Second cutting alfalfa 77%, normal 76%. Clover-timothy hay harvested 86%, normal 83%. Cotton 45% squaring, normal 75%. Soil moisture declined to 68% short, 30% adequate, 2% surplus. Soybean condition fair to good. Corn condition mostly fair to good. Some corn and soybeans showing stress from lack of moisture. Cotton condition mostly poor to fair. Pastures 26% poor, 46% fair, 27% good.

MONTANA: Temperatures near normal. Hot 16th, 17th, turning cooler weekend. Precipitation above normal except northeast. Most of precipitation from showers and thunderstorms beginning and end of period.

Winter wheat mostly good to excellent condition. Other grain crops good to excellent. Sugarbeets and potatoes good. Winter wheat 75% turning, normally 40%. Spring wheat 80% headed, 15% turning, normally 55% headed, 5% turning. Barley 80% headed, 10% turning, normally 55% headed, 10% turning. Oats 75% headed, 20% turning. Soil moisture adequate. Alfalfa hay harvest 80% complete, wild hay 50%. Range feed adequate, stockwater adequate.

NEBRASKA: Temperatures quite warm first half of period and quite cool last half. Scattered showers and thunderstorms brought varying precipitation with greatest amounts over central and southeast and least over east central and Panhandle areas.

Topsoil moisture short. Subsoil moisture

short. Wheat harvest 80% completed, normal 75% and 50% 1975. Corn good condition, irrigation systems running. Some dryland crops showing signs of drought stress. Sorghum and soybeans fair to good condition. Alfalfa and wild hay fair condition. Second cutting alfalfa 65% harvested. Pasture and range feed supplies short. Supplemental feeding required some areas.

NEVADA: Thundershowers 14th to 17th eased drought conditions. Precipitation less than 0.10 in. extreme south but over 0.25 in. elsewhere. Temperatures slightly below normal south but near normal other areas. Extremes: 109 and 36°.

Ranges fair to poor but recent rains should help. Small grain harvest moving northward, slowed by showers. Potatoes showing normal growth.

NEW ENGLAND: Cooler weather accompanied by rain. Flooding in parts of Vermont. Maine received 2.00 in., New Hampshire and Vermont 1.00 to 2.00 in. and the 3 southern States 0.50 to 1.50 in.

Maine potatoes continue good growth as do other crops. Rain needed southeastern areas. Haying slow. First cutting hay 95% complete south, 60% north. Second cutting 10% complete.

NEW JERSEY: Cool dry temperatures 3 to 8° below normal. Extremes: 45 and 88°. Rainfall averaged 0.43 in. north, 0.25 in. central and 0.43 in. south. Soil moisture, in percent of field capacity averaged: 68% north, 46% central and 50% south. Soil temperature averaged 73 to 75°.

Widely scattered showers kept soil moisture levels variable. Eggplant and pepper harvest under way. Sweet corn and tomato volume increasing. Other summer vegetables in moderate to good supply. Irish potato digging light but increasing. Peach volume increasing. Barley harvest 90% complete. Wheat harvest 75% complete. Second cutting hay 50% complete. Corn and soybeans need rain.

NEW MEXICO: Rains totaling 1.00 to 3.00 in. except northwest plateau and parts of western mountains. Cloudy and cool southeast elsewhere sunny mornings with clouds and showers evenings. Temperatures slightly below normal.

Topsoil moisture short to adequate. Subsoil moisture short. Cotton fair to good 75% squaring. Alfalfa good second cut complete. Irrigated grain sorghum good. Irrigated winter wheat good 95% harvested. Durum wheat fair to good 75% harvested. Wet fields hampered harvest. Barley good, harvesting completed. Corn good, 45% tasselled. Chili and apples good. Onions, cattle and ranges fair to good. Sheep good.

NEW YORK: Temperatures below normal. Overnight lows in 50's. Precipitation light, except central and parts of southern tier where thunderstorms dumped more.

Fieldwork slowed by wet weather. First cutting alfalfa 72% complete - clover-timothy 55%. Hay quality declining. Corn condition mostly good. Early oats turning, some lodging. Wheat harvest beginning. Harvest of celery and set onions under way. Wet conditions lowering lettuce yields but quality good. Snap bean condition poor. Tart cherry harvest full swing - brown rot and wind whip a problem.

NORTH CAROLINA: Above normal temperatures, below normal precipitation. Several areas topped 100° 15th.

Fieldwork: 5.6 days suitable. Soil moisture short to adequate. Central mostly short, eastern area adequate to surplus. Crop conditions generally deteriorated. Flue-cured tobacco 35% fair, 65% good; 17% harvested, 1975 9%, average 12%. Corn good. Cotton fair to good. Peanuts good. Soybeans good. Hay crops fair to good; 63% harvested, 1975 67%, average 62%. Irish potatoes good; 91% harvested, 1975 87%. Small grain harvest complete, somewhat behind 1975 pace. Pasture fair to good. Apples fair to good.

NORTH DAKOTA: Temperatures below normal except south central. Temperatures ranged from 5° below normal northeast to 1° below northwest. Extremes: 102 and 36°. Precipitation below normal except southeast and west central. Most precipitation was 1.52 in.

Harvesting of winter wheat, rye, barley and spring wheat underway. Aphids problem in west. Moisture supplies generally short. Row crops good condition. Pastures fair, need rain.

OHIO: Precipitation ranged 1.16 to 0.05 in. Temperatures below normal early week and hot 14th to 15th. Extremes: 98 and 48°.

Harvest completion: Wheat 90%, 80% 1975 and 75% normal; 2d cutting alfalfa hay 55%, 50% 1975 and 40% normal; 2d cutting clover-timothy hay 30%, 25% 1975 and 20% normal; oats 25%, 10% 1975 and 15% normal. Average height: Corn 65 in., 67 in. 1975 and 53 in. normal; soybeans 20 in., 23 in. 1975 and 18 in. normal. Corn 25% silked, 50% 1975 and 25% normal. Soybeans 25% setting pods, 30% 1975 and 15% normal. Corn and soybean condition mostly good. Soil moisture short western third to surplus eastern. Fieldwork: 5.0 days suitable.

OKLAHOMA: Temperatures 2 to 5° below normal. Precipitation ranged from 0.13 in. Panhandle to 1.83 in. central. Weekend warm with scattered light to moderate showers south.

Plowing and disking wheat stubble in full swing. All crops mostly good to fair condition. Surface moisture short. Subsoil moisture adequate. Wheat stubble 75% worked, 80% 1975. Some weed problems. Over 50% corn acreage tasselled, 81% 1975, 62% average. Silage being cut. Sorghum acreages up to stand, 16% headed, 24% 1975, 25% average. All cotton acreage up to stand. About 33% squared, average 20%, 30% 1975. Peanut acreage 33% in bloom, average 43%, 34% 1975. Soybean crop mostly good to excellent. Acreages starting to blossom, 17% 1975, 13% average. Second cutting alfalfa 95% harvested. Third crop 15% complete. Range and pasture conditions declined; mostly good condition. Cattle good condition.

OREGON: Temperatures near normal. Extremes: 100°, low 40's west; high 90's, low 30's east. Precipitation light. Scattered showers the first part of the week produced up to 0.50 in. in isolated spots.

Grains in dough stage in west. Wheat and barley being harvested in east. Second cutting alfalfa being made. Ryegrass and fine fescues swathed. Bluegrass combined. Crimson clover harvested. Mint and hops in good condition. Cherry harvest at peak. Warm weather aided sweet corn and bean growth. Potatoes recovering from frost. Livestock in good condition. Ranges drying in east.

PENNSYLVANIA: Seasonably cool. Daytime temperatures 60's to 80's. Overnight minimums 40's to 60's. Extremes: 88 and 38°. Temperatures 4 to 8° below normal. Scattered showers and thunderstorms mostly 14th through 16th. Rainfall amounts highly variable, trace to over 2.00 in.

Soil moisture adequate to surplus. Fieldwork: 4.0 days suitable. Activities: Spraying; mowing hay; combining barley, wheat and oats; harvesting fruit and vegetables. Corn height 47 in., last year 44 in. Barley 22% ripe, 61% harvested--last year 45% harvested. Wheat 27% harvested--last year 10%. Alfalfa first cut 96%, second cut 43%. Clo-tim first cut 83%. Hay quality fair to poor. Feed from pastures average to above average.

PUERTO RICO: Island average rainfall 0.47 in. or 0.88 in. below normal. Temperatures about 81° on coasts and 75° interior. Extremes: 94 and 58°.

SOUTH CAROLINA: Temperatures for week ranged from normal early week to 1 to 3° above normal end of week. Extremes: 100° on 15th, 57° on 13th. Rainless until end of week when scattered showers developed.

Hot, dry weather beneficial most areas. Soil moisture generally adequate but some areas short. Insects in soybeans, cotton; producers spraying, dusting for control. Tobacco, peach, watermelon harvest continues. Scattered areas report late soybean planting. Crop conditions poor to fair: watermelons; fair to good: cotton, tobacco, peanuts, soybeans, grapes; good: corn, hay crops, pastures, peaches. Tobacco crop suffered from excessive rains early in July. Premature yellowing, barn rot reported. Tobacco 36% harvested, 32% 1975, 37% average. Peaches 73% harvested, 55% 1975, 50% average. Corn 90% silked, 84% 1975, 84% average. Cotton 90% squaring, 88% 1975, 88% average. Cotton 42% setting bolls, 62% 1975, 51% average.

SOUTH DAKOTA: Scattered thunderstorms, precipitation mostly under 1.00 in. Scattered hail damage. Temperatures near normal. Extremes: 110 and 39°.

Small grain harvest continuing. More straight combining than usual, due to short grain. Small grains harvested: Winter wheat 74%, 1975 40%, normal 43%; rye 66%, 1975 6%, normal 28%; oats 43%, 1975 9%, normal 16%; barley 50%, 1975 13%, normal 22%; spring wheat 30%, 1975 1%, normal 8%. Row crops fair to good, showing stress, need moisture. Corn 22% tasseling, 1975 14%, normal 23%. Forage crops need moisture to develop normally. Topsoil moisture short.

Heavy cattle sales and movements to other States for pasturing. Pastures very short. Stockwater problems, some hauling water. Hay crops light.

TENNESSEE: Scattered thundershowers brought 0.33 in. rain, but much of the State had little or none. Temperatures normal west and 1 to 3° below normal middle and east.

Crop growth and development aided by sunny, dry weather. Small grain harvest essentially completed. Haying, cultivating, spraying, and soybean planting main activities. Fieldwork: 5.0 days suitable. Soil moisture adequate. Corn 65% silked, 73% last year, 66% average. Corn 15% dough, 30% last year, 20% average. Corn excellent condition. Cotton 85% squared, 95% last year, 90% average. Cotton 10% setting bolls, 45% last year, 30% average. Dry, sunny weather greatly improved cotton condition and development. Cotton two weeks behind normal. Soybeans 15% blooming, 40% last year, 18% average. Soybeans 5% setting pods, 10% last year, 5% average. Soybean planting essentially completed but behind normal, some lowlands lost. Second cutting alfalfa 90% completed, 80% last year, 90% average. Tobacco in generally good condition, good stands, some disease. Pastures mostly excellent.

TEXAS: Abnormal precipitation, temperatures ruled. Normal rainfall from less than 0.50 in. west to 1.00 in. southeast. Rainfall ranged from 1.00 in. to 1.50 in. northwest far south to 2.00 in. to 2.50 in. remainder State. Temperatures below normal.

Rain, wet slowed fieldwork most areas. Haying delayed adverse weather most areas. Sorghum, corn, rice harvesting also slowed. Wheat harvesting virtually complete. Peanut seeding complete most areas. Most peanuts growing well, crop prospects generally good. Sorghum planting completed last week, one week after 1975 completion date. Harvesting many parts south and central virtually halted by rain. Corn harvesting slowed rains south. Rain should aid fields most other areas although came late for stands in central where ears beginning to dent. Corn on Plains growing well, where most fields presently tasselling. Rice harvesting begun, minimal progress because wet conditions. Heavy rains halted vegetable harvest, land preparations for fall vegetables crops. Pecans plagued by scabs; insects continue to plague light pecan crop north, east. West pecans look good; no insect problems. Central peach harvest nearing completion. Harvest continues north, east. Recent rainfall helped pastures most areas, although water supply on northern High Plains still short, pastures dry. Warm, sunny weather needed other areas, where moisture levels rated adequate to excessive. Cattle generally good condition. Marketing of range cattle slow. Screwworms, ticks continue south, east expected to increase as a result of wet conditions.

UTAH: Scattered shower and thunderstorm activity last part last week and over weekend. Generally light to moderate but locally heavy with areas local flooding. Average temperatures continued to range from near normal to 7° above.

Sweet cherry harvest finishing--good quality and production. Sour cherries just starting--prospects good. Other fruit (peaches, apples, pears) fair to good prospects. Winter wheat harvest underway--prospects vary by locality from poor to good. Other small grain and corn prospects also vary from poor to good. Second cutting alfalfa underway.

VIRGINIA: Temperatures about normal. Extremes: 101 and 48°. Moderate rainfall averaged 0.63 in.

Fieldwork: 5.4 days suitable. Topsoil moisture short to adequate. Crop conditions good. Rain needed in most areas. Corn 48% silked, 92% silked in southeast. Soybeans planted behind small grains. Peanuts sprayed and cultivated. Tobacco irrigated. Flue-cured harvest progressed. Some disease reported in burley tobacco. Wheat 93% harvested. Other small grains virtually complete. Hay yields improved on second cuttings. Haying active. Pastures good but need rain. Peaches and early apple varieties harvest continued. Harvest of potatoes,

tomatoes, cucumbers and snap beans showed progress.

WASHINGTON: West: Temperatures about normal; precipitation very light and below normal all areas. Hay finally baled without rain, much is overripe. Strawberry harvest nearly complete. Ranges and pastures doing well. Cauliflower and broccoli fresh market begins.

East: Temperatures ranged from 1 to 8° below normal; precipitation well below normal.

Grain crops maturing rapidly, wheat harvest underway in early dryland areas. Most irrigated wheat between hard dough and flowering. Some foot rot problems. Cereals, dry peas and lentils look good. Spring barley shows some frost damage. Green pea harvest doing well. Second cutting of alfalfa underway. Cherry harvest continues.

WEST VIRGINIA: Temperatures near normal except north central, below normal. Extremes: 95 and 35°. Precipitation heavy scattered areas, all areas above normal except south below normal.

Soil moisture adequate. Fieldwork: 3.7 days suitable. Crops fair to good. Small grain harvested. Barley 75%, 1975 70%; wheat 41%, 1975 44%; oats 27%, 1975 16%; first hay cutting 84% complete. Corn condition fair to good.

WISCONSIN: Temperatures near normal. Record high temperatures of 99°. Showers and thundershowers spotty. Some locally heavy rain 14th to 15th. Western areas averaged 0.50 in. but some areas had very little or none.

Crops continue under severe moisture stress. Corn at critical moisture stage as plants tasselling and silking. Early corn in better condition than late plantings. Some corn on sand hurt beyond recovery from drought. Average corn height 48 in., 1975 56 in., normal 41 in. Second crop hay harvest 15% completed, 1975 10%, normal 5%. Early cut first crop fields have fair second crop. Little regrowth on late cuttings. Pasture conditions poorest in many years. Harvest started on winter wheat, rye, barley, early oats. Yields of small grains below normal. Soybeans need rain for pod development. Late tobacco plantings poor. Early potato harvest started. Unirrigated potato acreage needs rain as does vegetable crops. Cherries being harvested, size reduced by dry weather. Soil moisture short.

WYOMING: Warm and dry. Most temperatures above seasonal normals. Precipitation below normal with exception of Belle Fourche, Powder, Little Missouri and Tongue Drainage.

Major activities: Irrigation and haying. Alfalfa first cut 77% complete. Soil moisture short. Dry beans 10% in bloom. Spring wheat 88% headed and 23% turned color. Barley 93% headed and 27% turned. Winter wheat 4% harvested.

World Agricultural Weather Summary

(From the period June to mid-July)

HIGHLIGHTS: Although increased shower activity eased the drought in parts of Western Europe and aided the Canadian and USSR spring wheat crops flooding rains damaged the Mexican and Chilean crops. Limited precipitation tempered the Australian drought in some places, but dry weather continued to plague the country. Dry weather threatened parts of the People's Republic of China (PRC), and distressed Argentina received no relief from its long dry spell. Although India's monsoon grew active again, several weeks of limited rainfall stressed crops over a wide area of the country. West Africa's rainy season remained about normal.

WEATHER: Hot, dry June and early July weather set records in most of Western Europe. A cooling trend in mid-July along with increased shower activity tempered the drought in places but only soaking rains over an extended period will relieve the critical water situation. Little or no rain fell in June and the first 10 days of July in much of France, northern Italy, Belgium, and parts of England, the Netherlands, Switzerland, and West Germany. Dry weather extended from England in the west to the Baltic Republics in the east and from Scandinavia to the Pyrenees and the Po.

Dry weather prevailed in the northern countries of Eastern Europe, but temperatures remained moderate. Except for the USSR, adequate rainfall in Europe was limited to the Balkan countries, Greece, southern Italy, central Spain, and Ireland. Turkey was relatively wet along the Black Sea Coast but much drier than normal elsewhere.

In European USSR cool, wet weather dominated much of the Ukraine and the Russian Soviet Federated Socialist Republic. Sparse amounts of rain fell in the Crimea, western Ukraine, Moldavia, and Belorussia. Temperatures were more seasonal in the Urals, Kazakhstan, and West Siberia. Substantial rains in June to July effectively dampened much of this region.

Rains centered over Canada's Prairie Provinces in June and the pattern extended throughout the first half of July. Only a few scattered pockets mostly in Alberta and Manitoba received little precipitation. Torrential mid-July rains exploded in Mexico, east of the Sierra Madre Occidental.

In the Philippines, June rainfall dropped below normal in the north (Luzon) and tended to be above normal in the south.

Cooler and drier described the June weather in most of the PRC. Substantial rains penetrated the Liaoning and Hopeh Provinces and continued to mid-July.

India's summer monsoon perked up considerably the second week of July after several lethargic weeks. Its spotty performance in June provided substantial rains in the west (mostly from a tropical storm) and subnormal amounts in most of the east. Assam followed the usual wet, moisture patterns, while Sri Lanka remained dry.

Drought intensified in Australia in June and was only partially relieved in spots by mid-July rains.

Argentina was relatively cold and dry in June and continued dry the first half of July. Rainfall was normal and temperatures above normal in much of southern Brazil in June. Rio Grande do Sul experienced several freezing nights in early July. Little or no rain fell in the drought-stricken interior of northeast Brazil. June was wet in most of South America north of the equator.

Seasonably heavy rains fell in much of West Africa. Although Morocco and coastal Algeria stayed dry, above normal rain fell in Algeria's high-

lands and in Tunisia. South Africa had seasonably small amounts of rain in the south and very little in the north.

CROPS: Hot, dry weather of June and early July stressed crops over much of Western Europe. Forage, spring grains, fruit and row crops were hard hit. Storage water diminished and water tables dropped. Crops were particularly damaged in southern England, France, Belgium, parts of the Netherlands and Germany, and in Italy's Po Valley. Regardless of future weather conditions, pasture growth and hay production suffered permanent losses and prospects for high crop yields were erased. Mid-July rains brought some relief to the West European drought area.

Weather conditions were somewhat better in Eastern Europe, especially in the Balkans, where timely rains occurred. Plagued by dryness, crops in the northern countries required timely, above normal summer rains to realize high production.

In the USSR, soil moisture and crop conditions were generally very good. Cool, wet weather in northern latitudes caused difficulties with row crops and increased lodging risk in small grains. On the other hand, small areas in the south, mostly the Crimea and vicinity, were hurt by moisture deficiencies. European USSR needed warmer weather to advance crop development. Production potential remained exceptionally good this year. Generous June and July rains, though patchy in places, gave spring wheat a healthy boost in the Urals, Kazakhstan, and West Siberia. Warm weather prevailed and seldom became very hot.

Above normal rainfall since the first of June benefited crops on the Canadian prairies. Conditions in Saskatchewan were especially favorable.

Heavy rains and flooding damaged about 70,000 hectares (roughly 175,000 acres) of corn, sorghum, beans, and other crops in Mexico.

In the PRC, June rains relieved crop stress in much of the Hopeh and Shantung Provinces. Usual heavy summer rains bypassed much of the country and left parts of the North China and Manchurian Plains critically short of moisture.

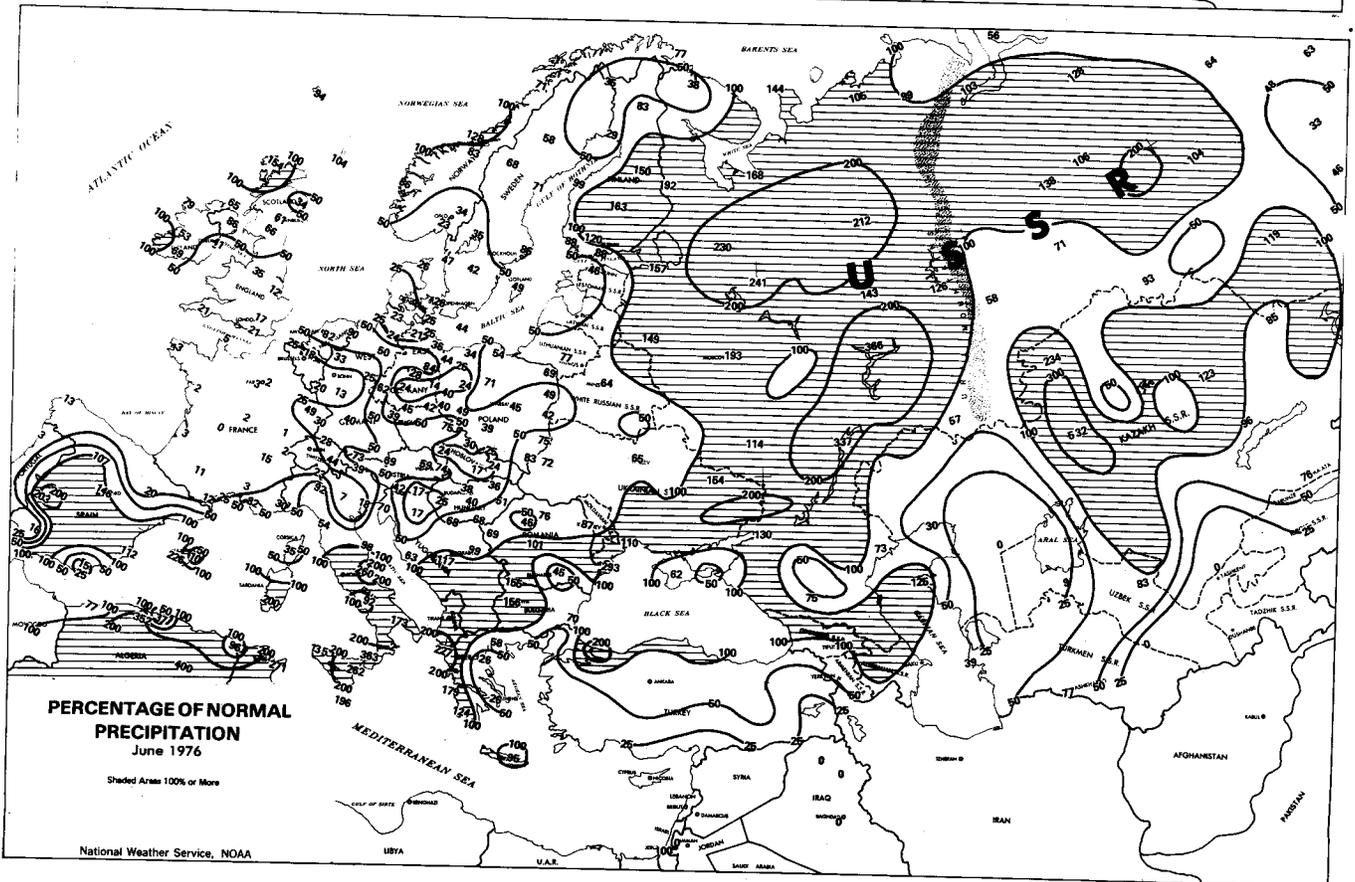
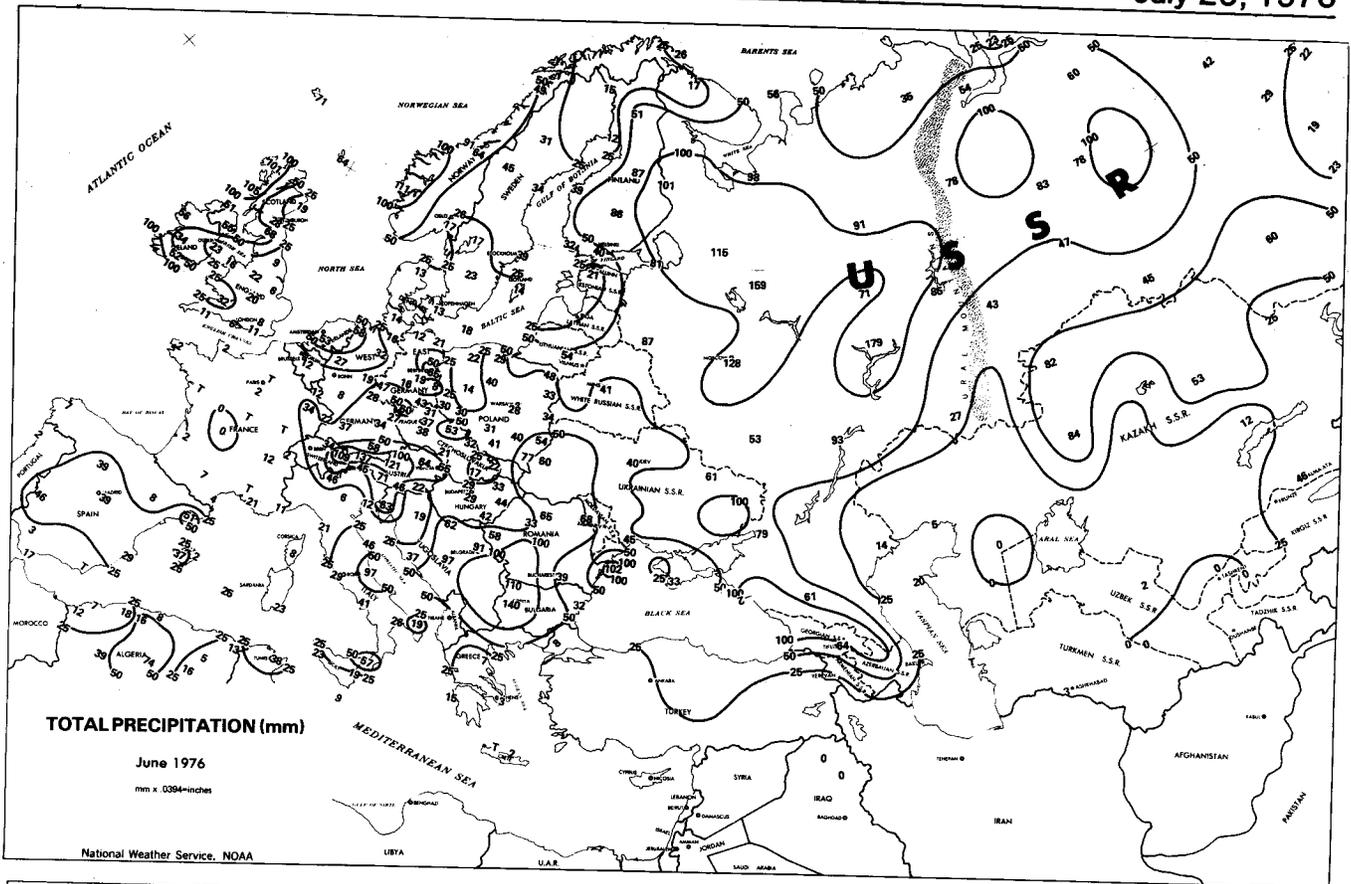
India's erratic summer monsoon left many areas short of moisture and, together with broiling temperatures, stressed crops. Strengthening of the monsoon the second week of July eased the situation. The middle and lower Ganges and much of the south were hardest stressed. Pre-monsoon showers followed a tropical storm in early June in north-west India, where improved soil moisture reduced crop stress. Sri Lanka continued to have problems with prolonged moisture shortages.

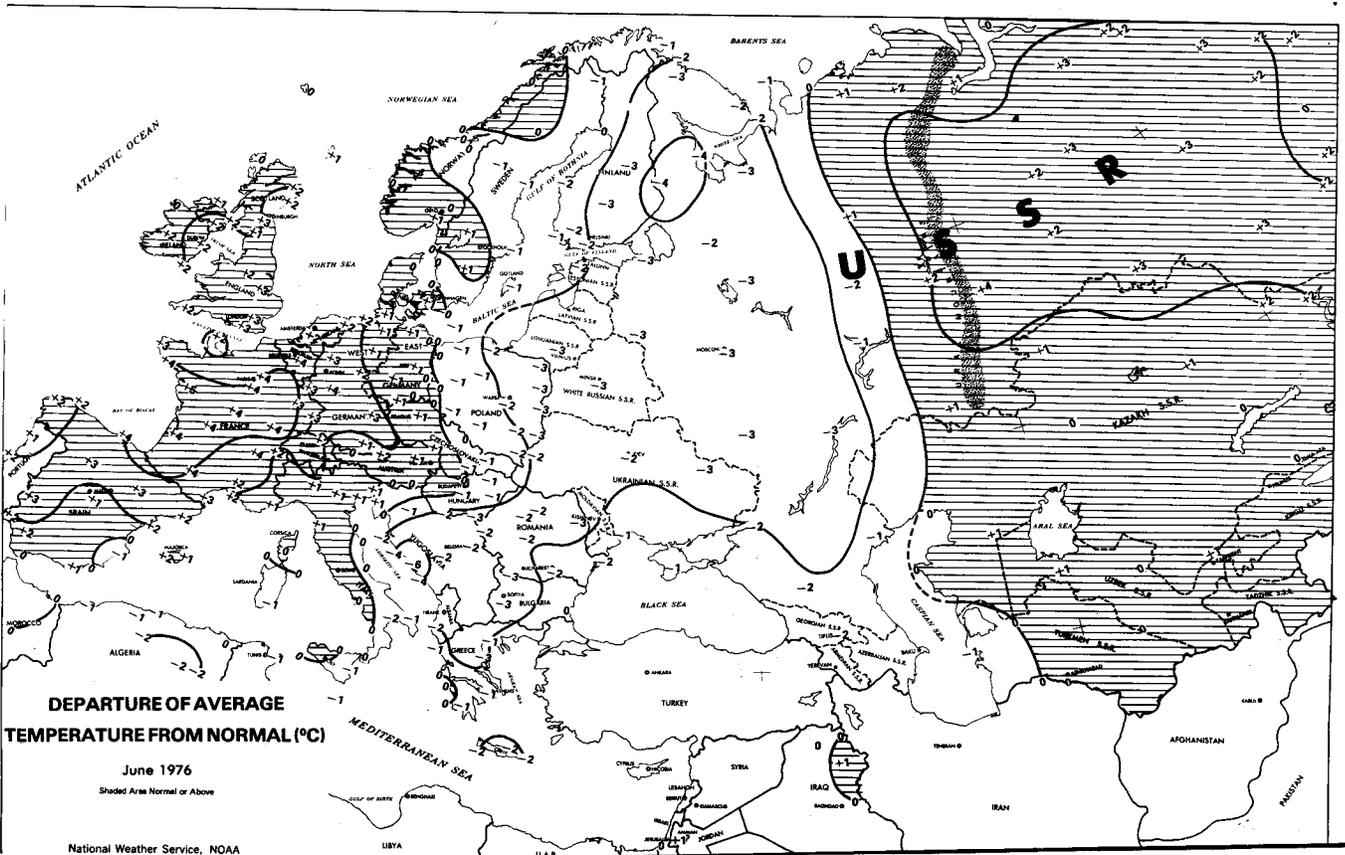
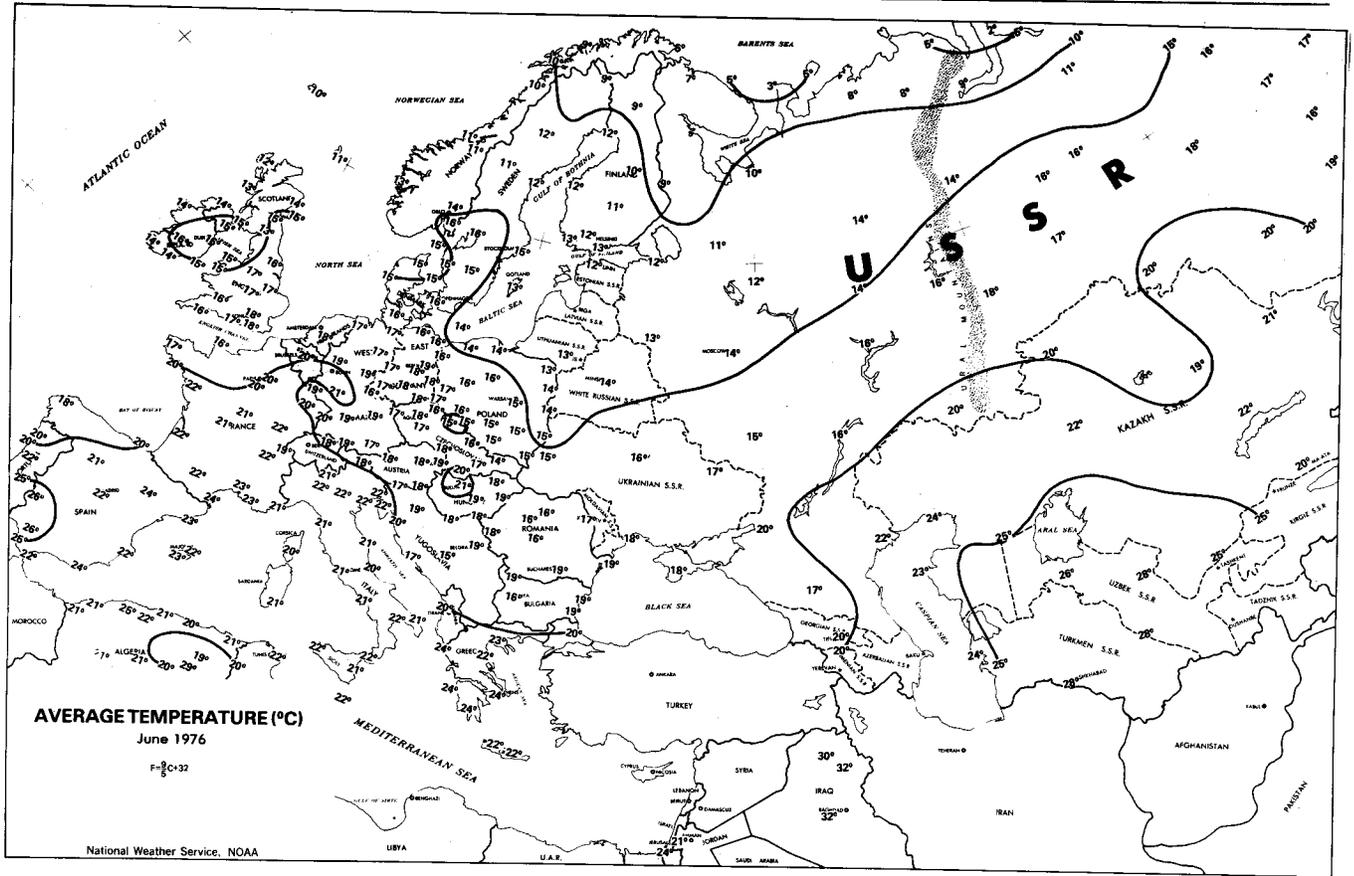
Reports of periodic dry weather in parts of south-east Asia suggested crop production was not up to expectations, especially for corn in Thailand.

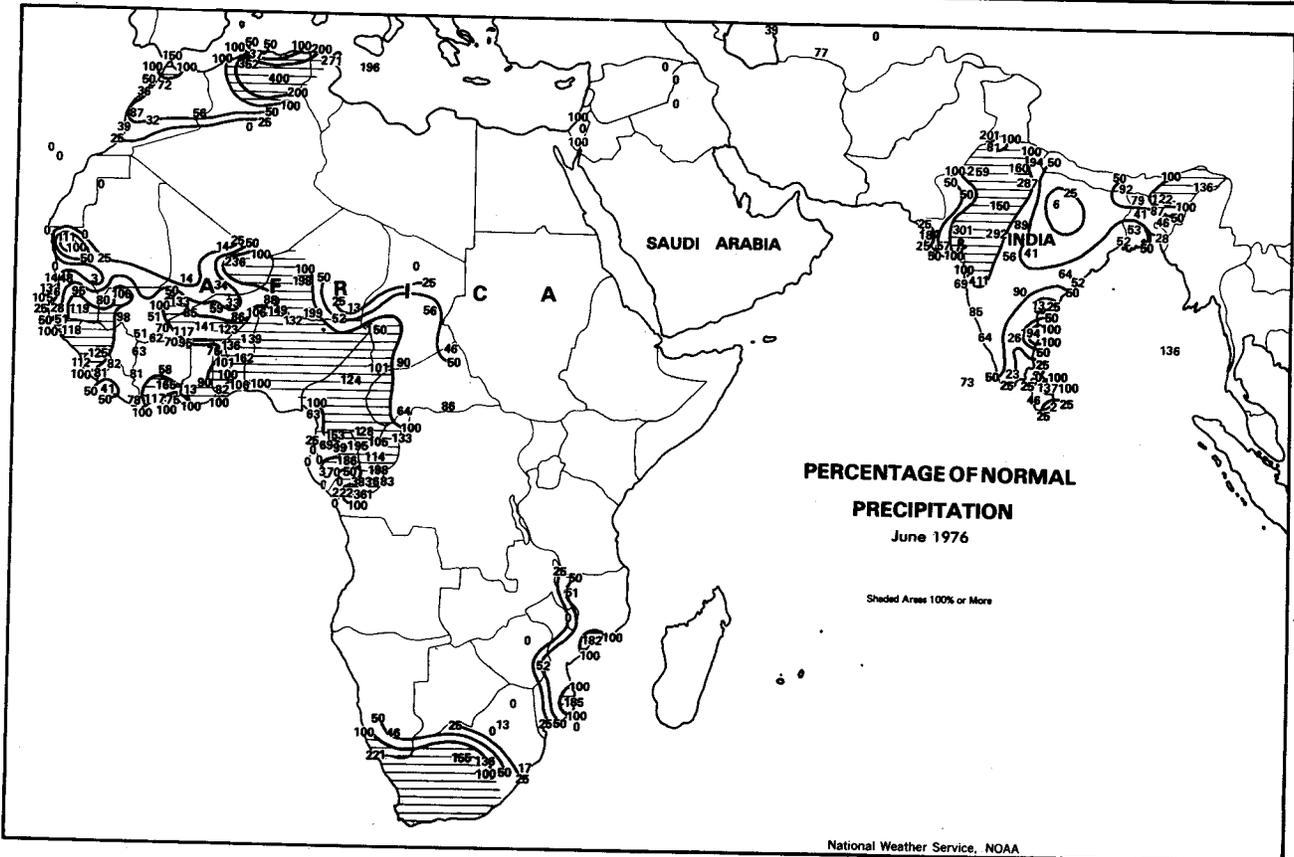
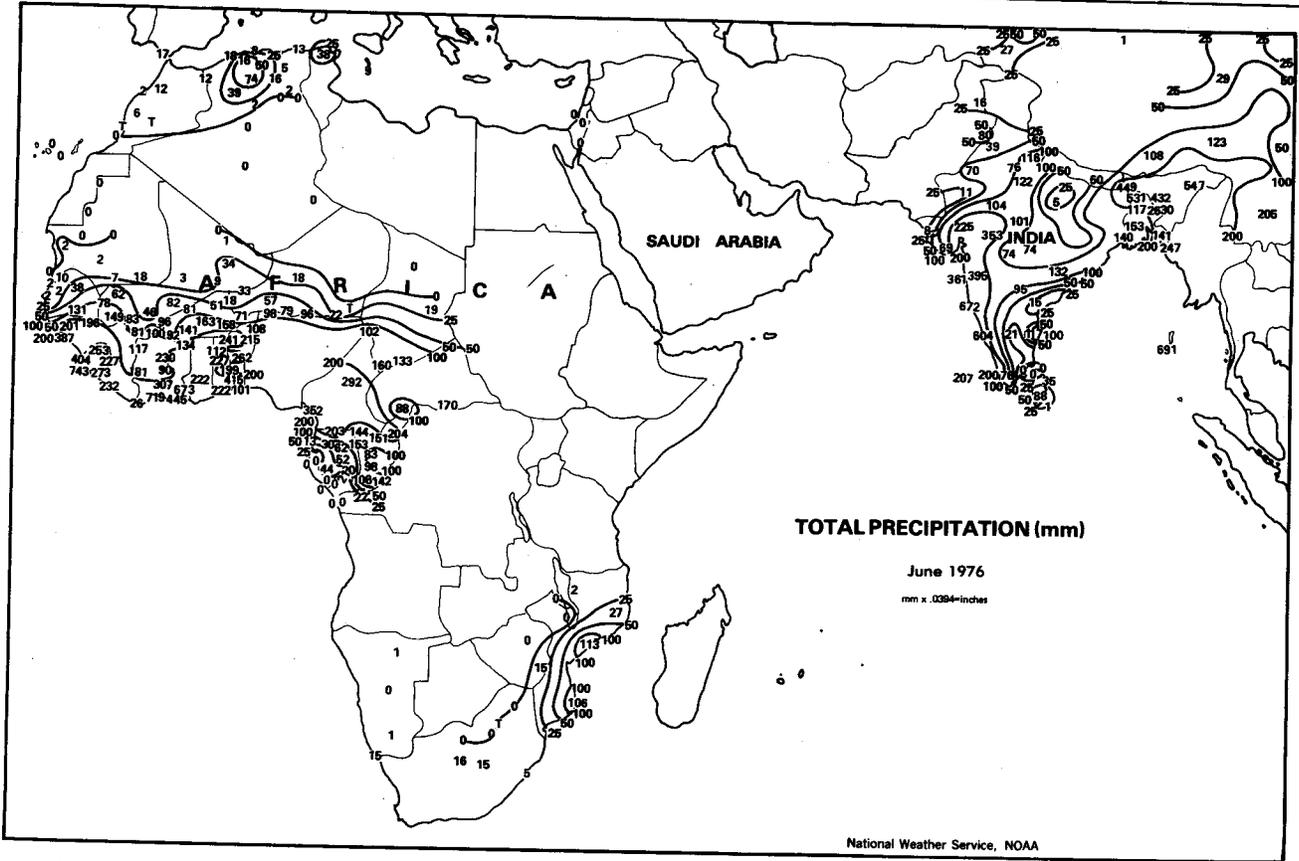
Drought continued to delay planting and stress winter grains and forage crops in Australia. Limited rain fell in mid-July, but crops required more moisture. Unseeded acreage intended for winter wheat will now likely go to barley.

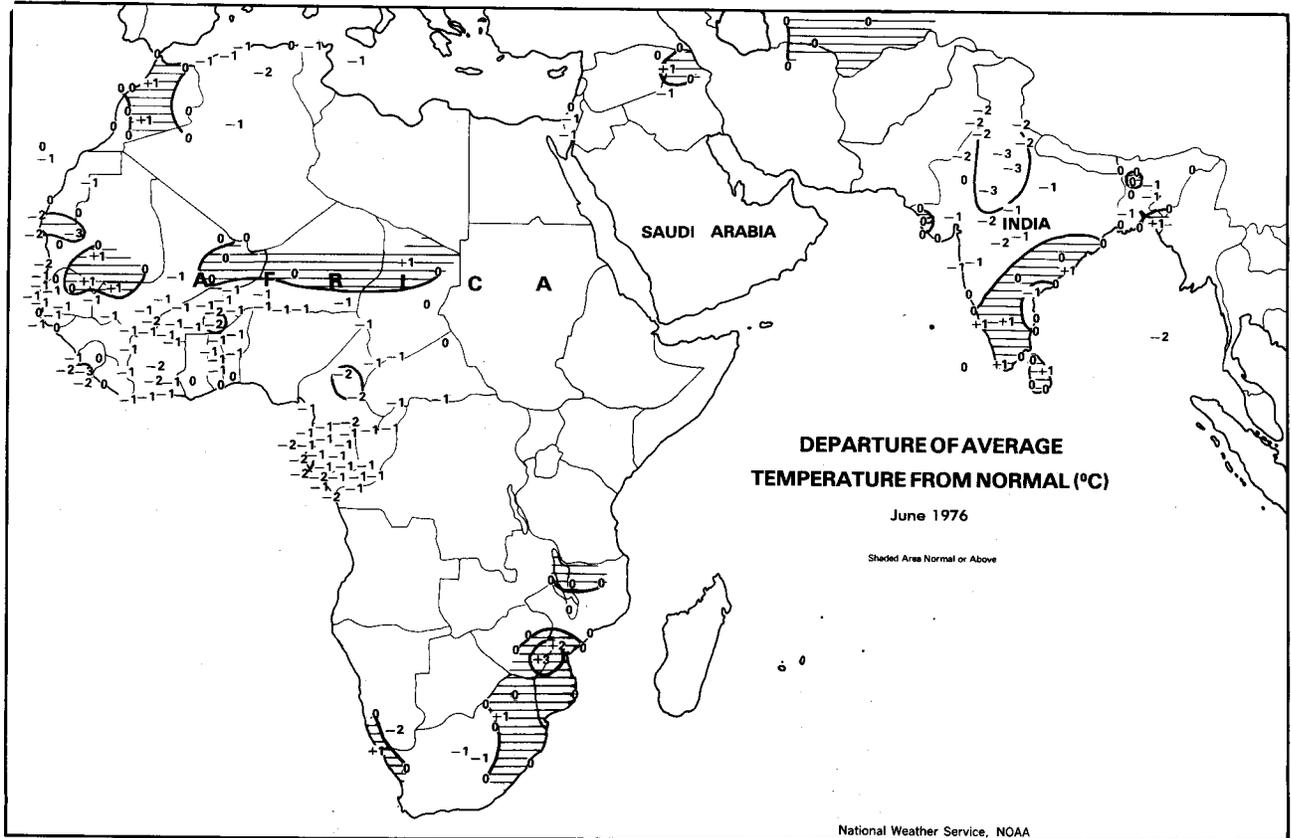
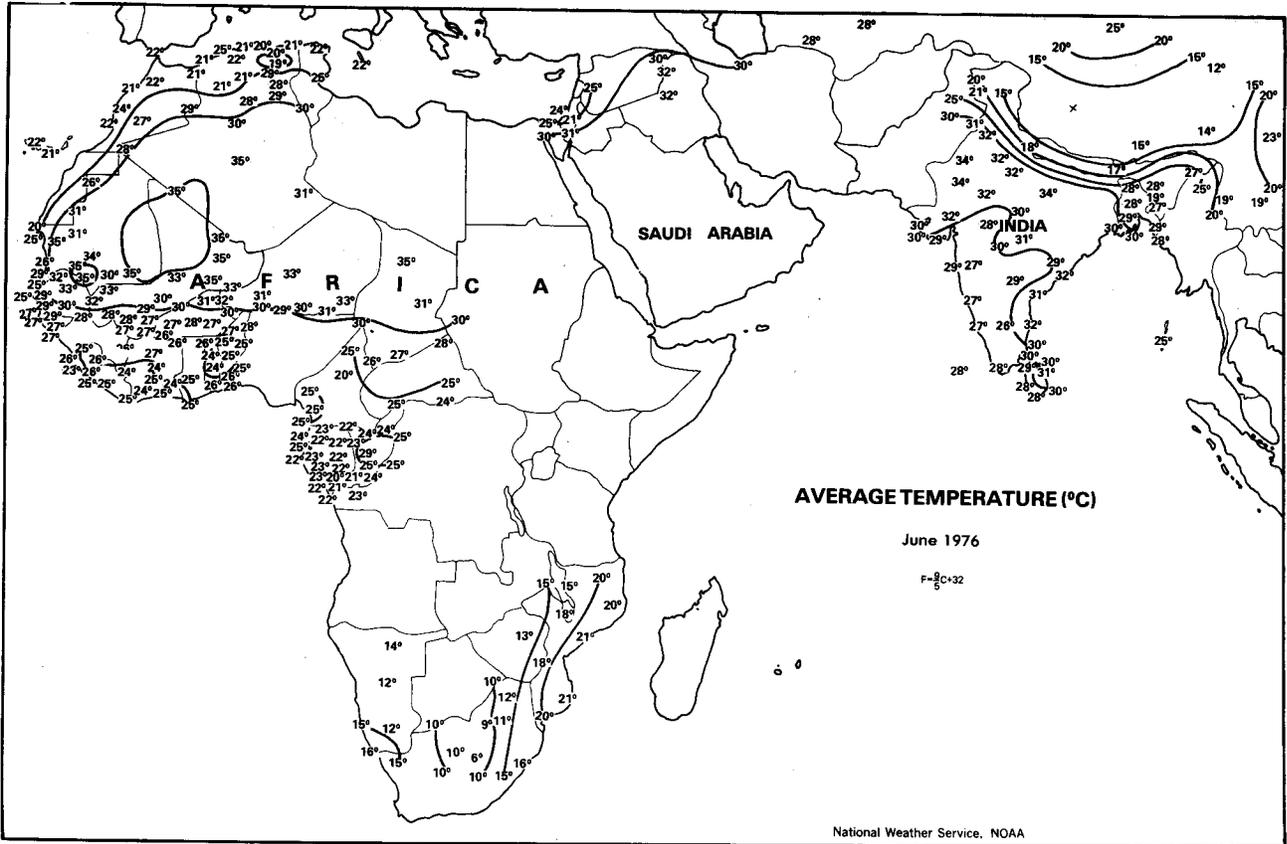
Freezing weather in early July caused some damage to wheat in Brazil's Rio Grande do Sul State and set back forage growth in much of the south. In the northeast interior, months of drought reduced prospects for corn, cotton, forage, and beans and to a lesser extent rice and manioc. Livestock suffered. Cold, dry weather held back winter wheat development in Argentina. Chile, incredibly dry through the first half of the year, experienced heavy rains and flooding in June.

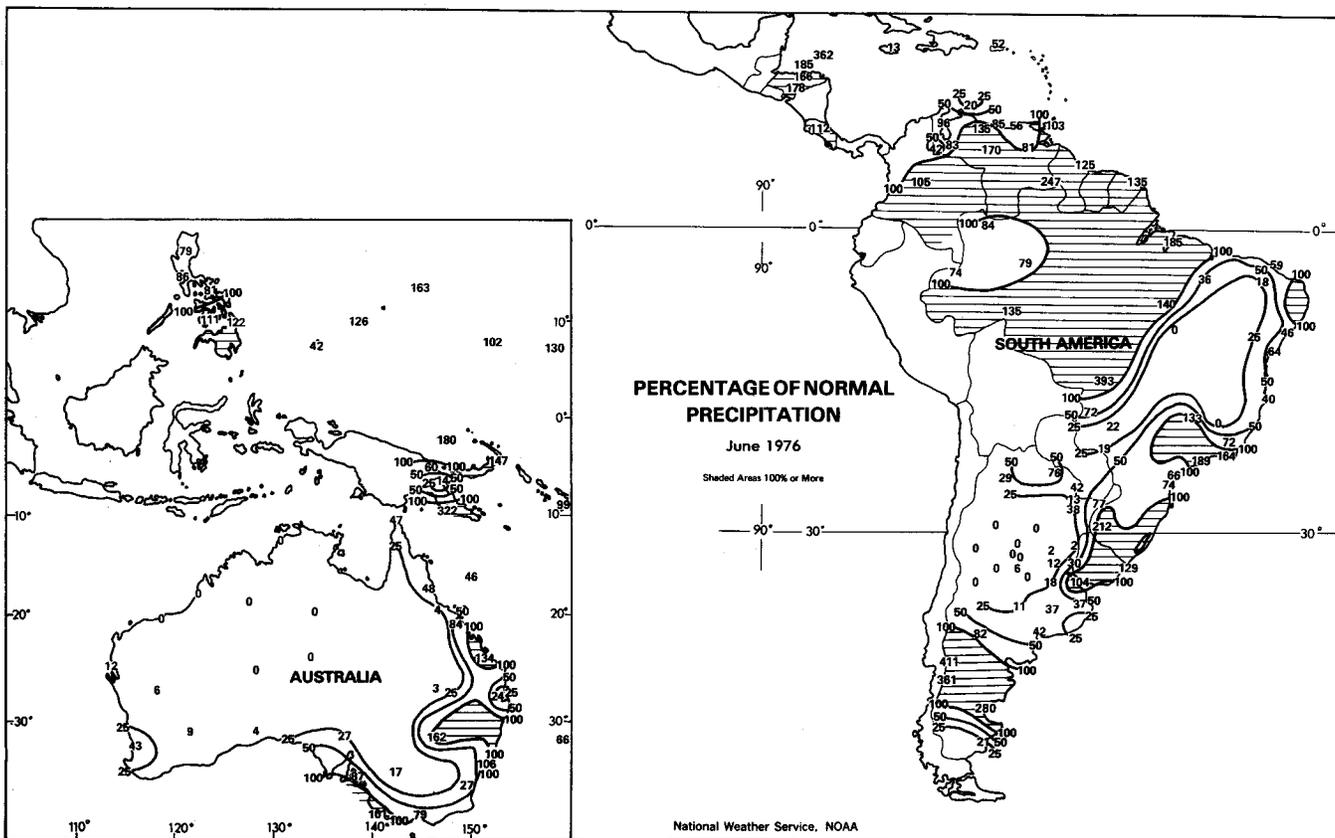
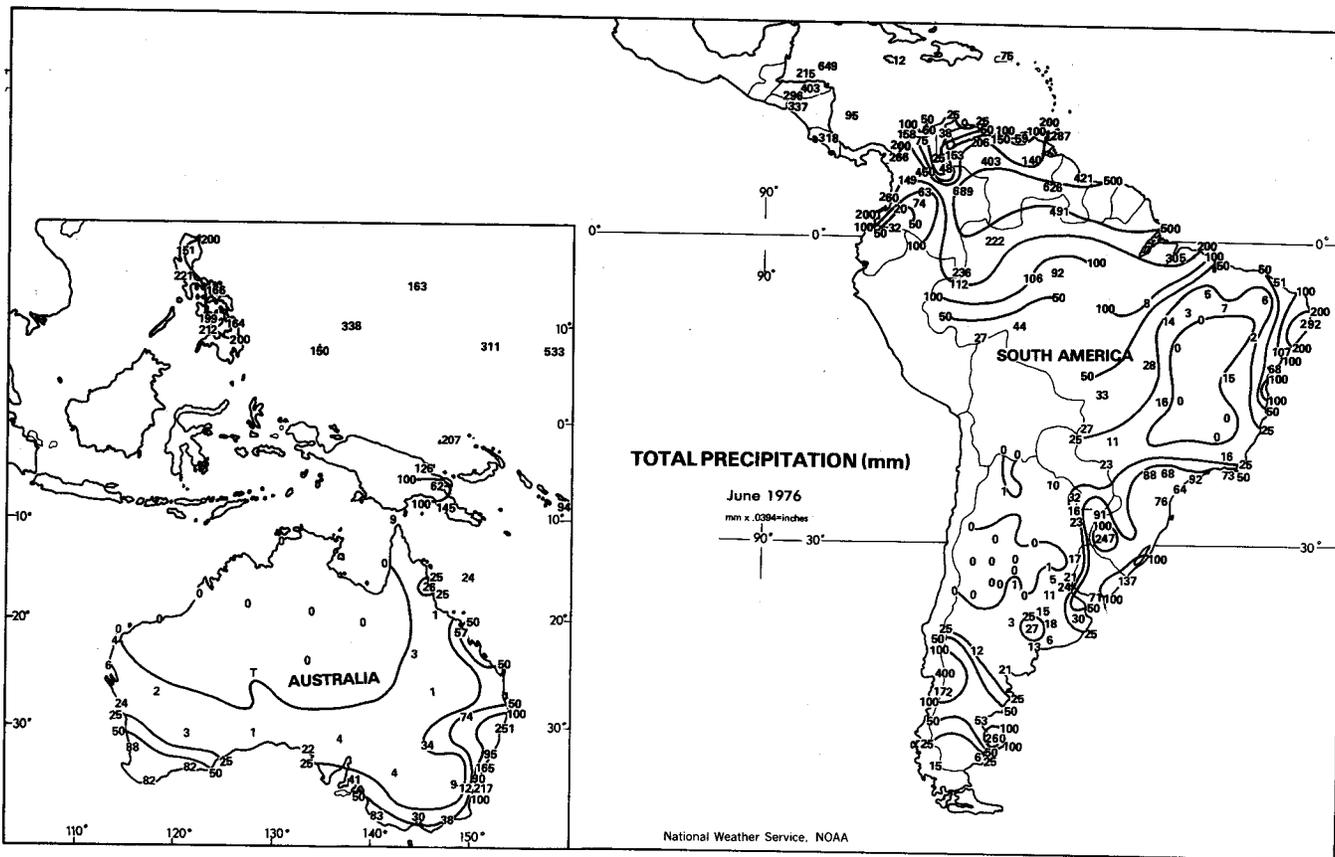
A satisfactory rainy season for most of West Africa suggested good crop prospects.

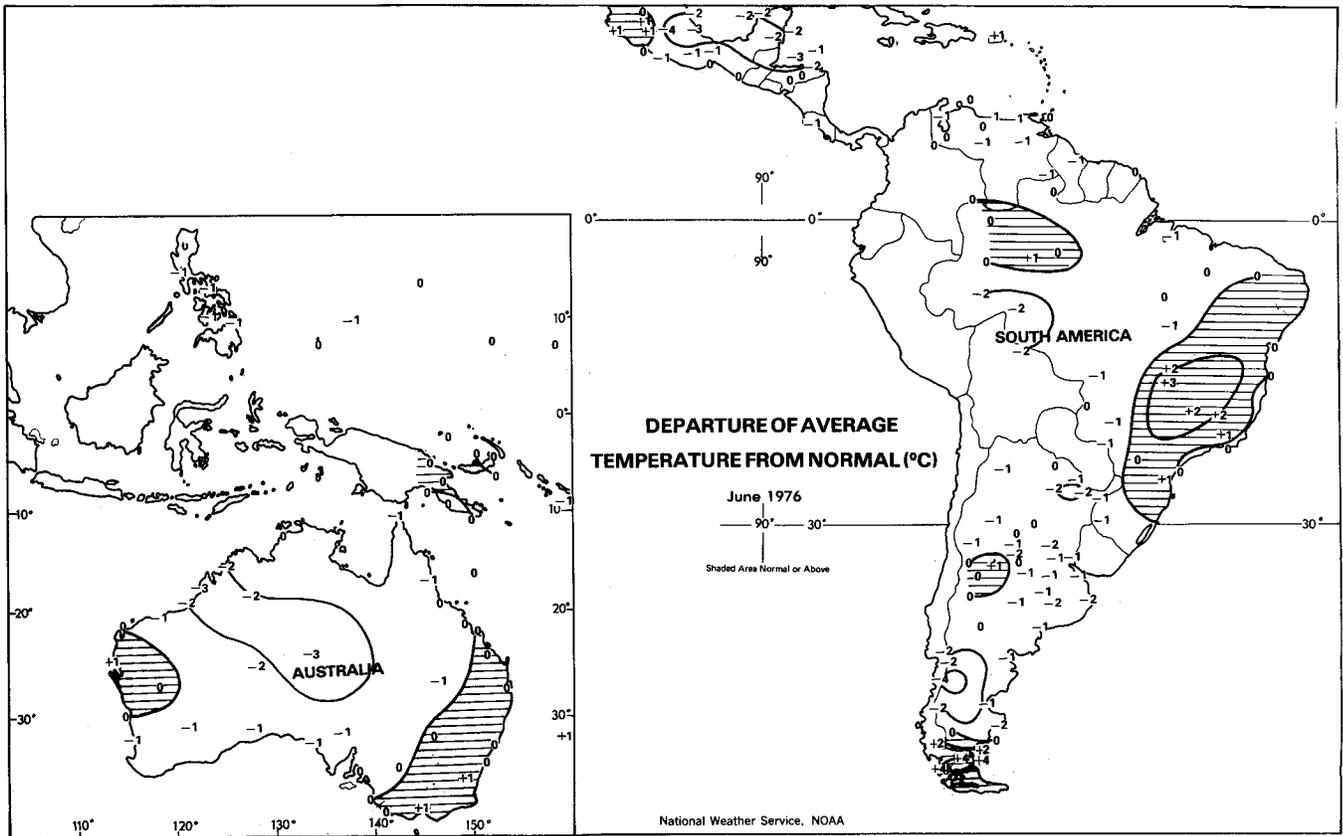
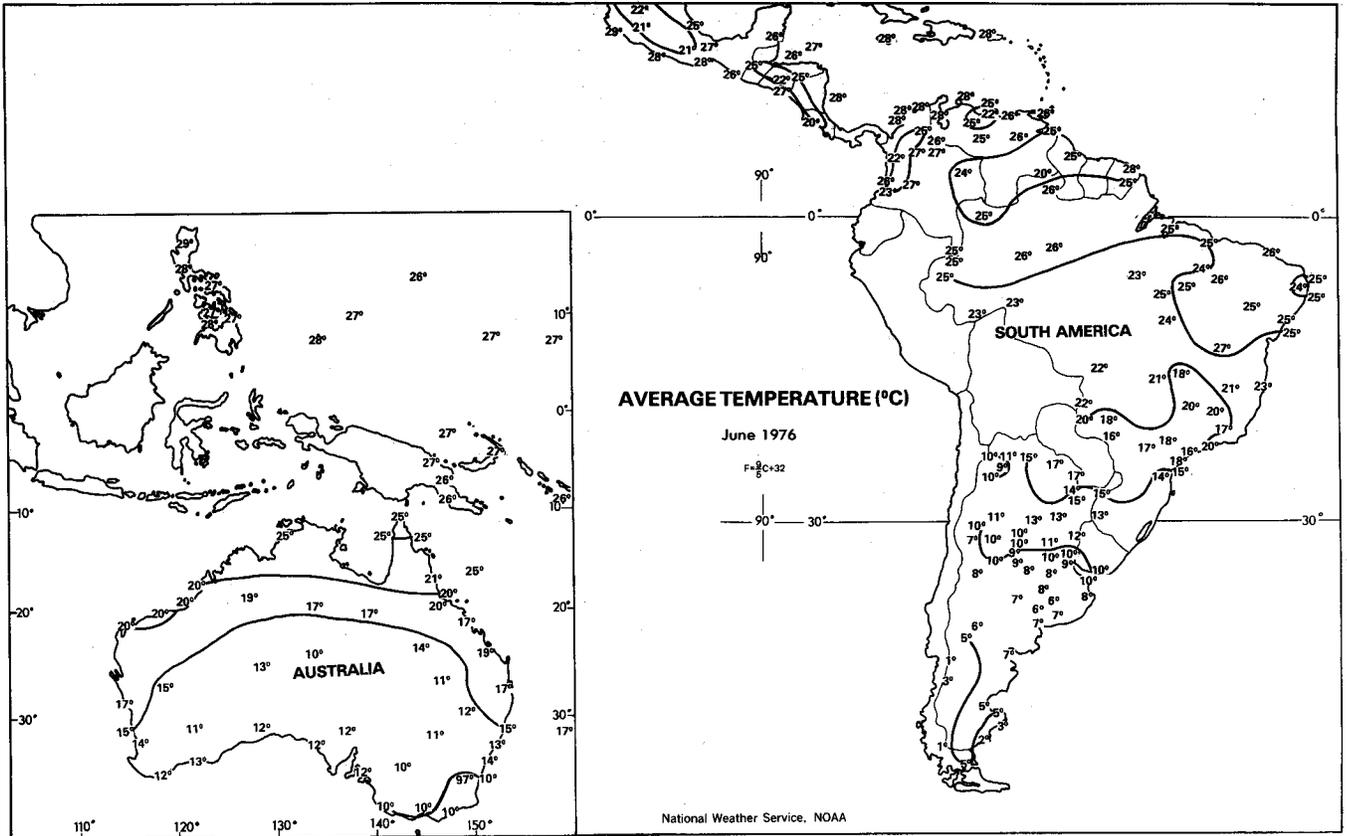




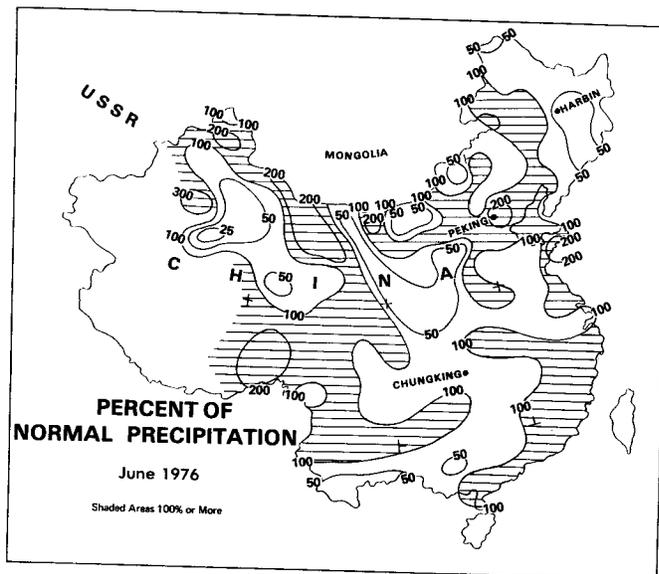
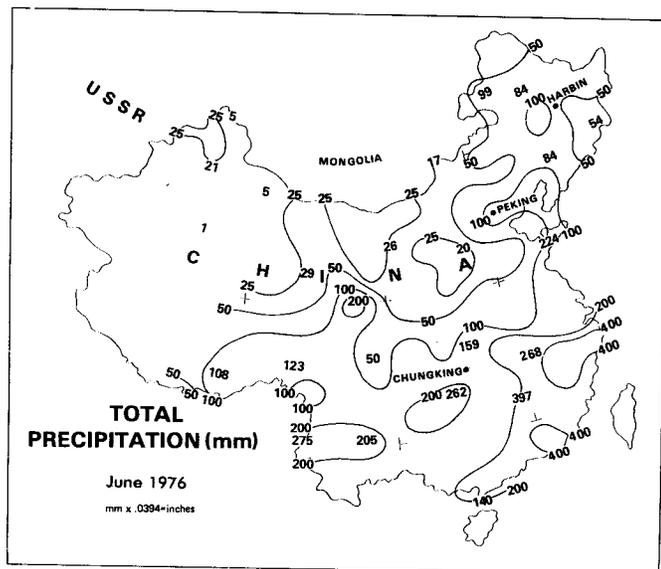
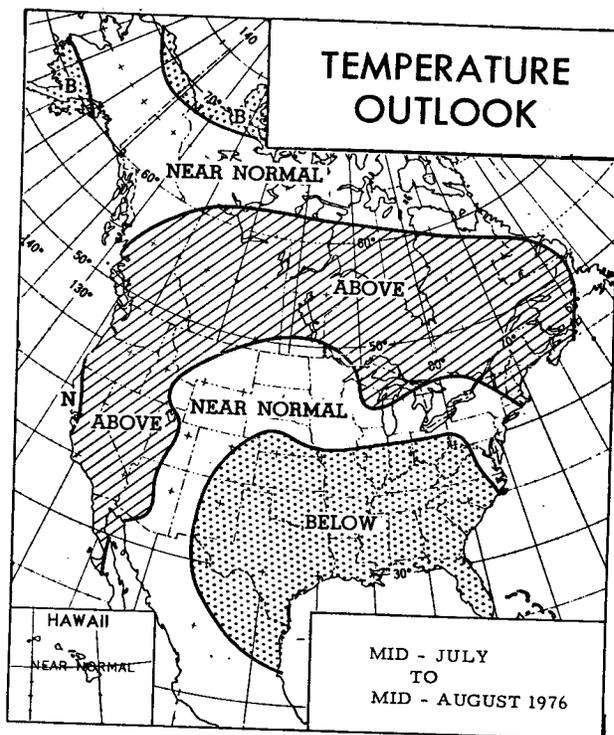
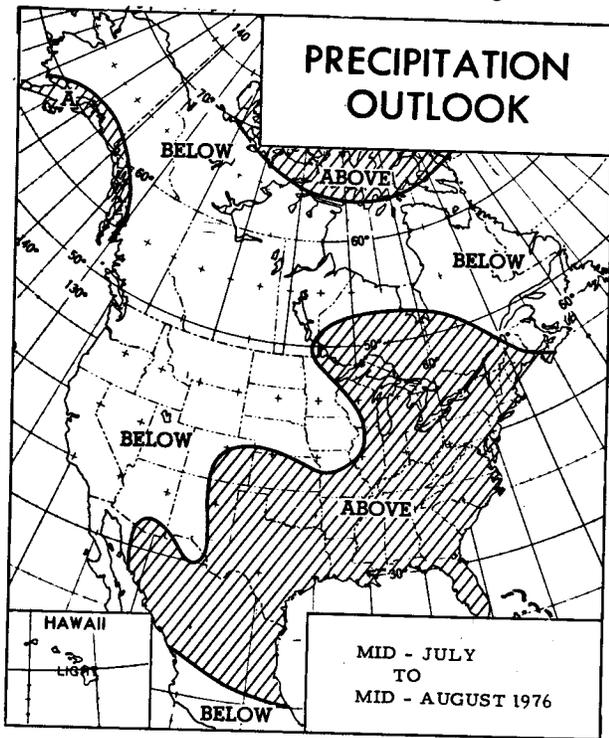


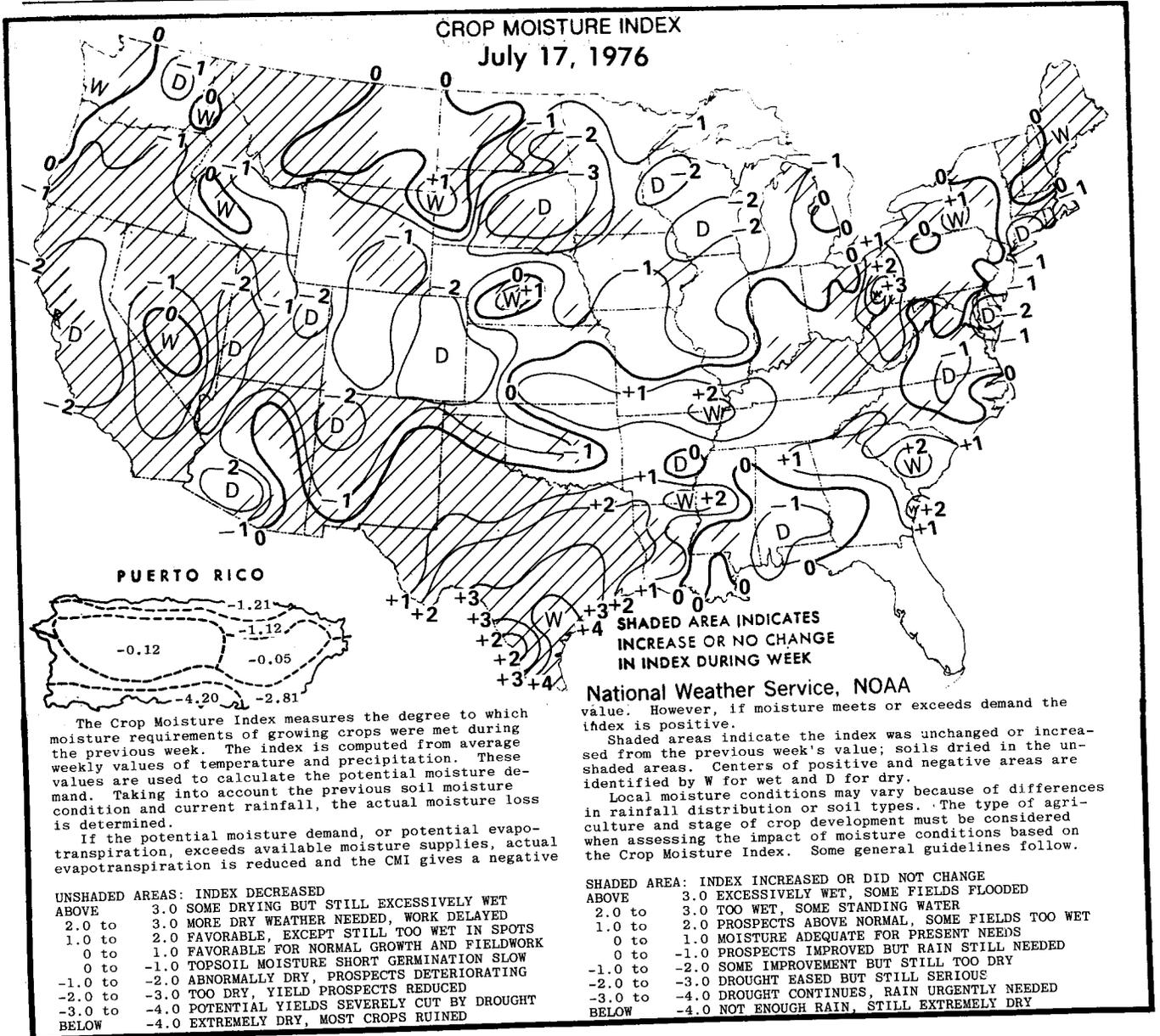






World Agricultural Weather Summary





Agricultural Climatology Service Office
South Building Mail Unit
U. S. Department of Agriculture
Washington, D.C. 20250

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HARVESTING PROGRESS

Percent of Acreage Harvested
(as of July 18)

winter wheat

	1976	1975	Avg.
Colo.	72	45	59
Ill.	100	100	100
Ind.	95	95	75
Kans.	99	95	95
Mo.	100	100	100
Mont.	0	0	0
Nebr.	80	75	50
Ohio	90	80	75
Okla.	100	100	100
S. Dak.	74	40	43
Tex.	100	100	100
U. S.	86	81	79

These 11 States produced 71%
of the Nation's winter wheat
in 1975.

