

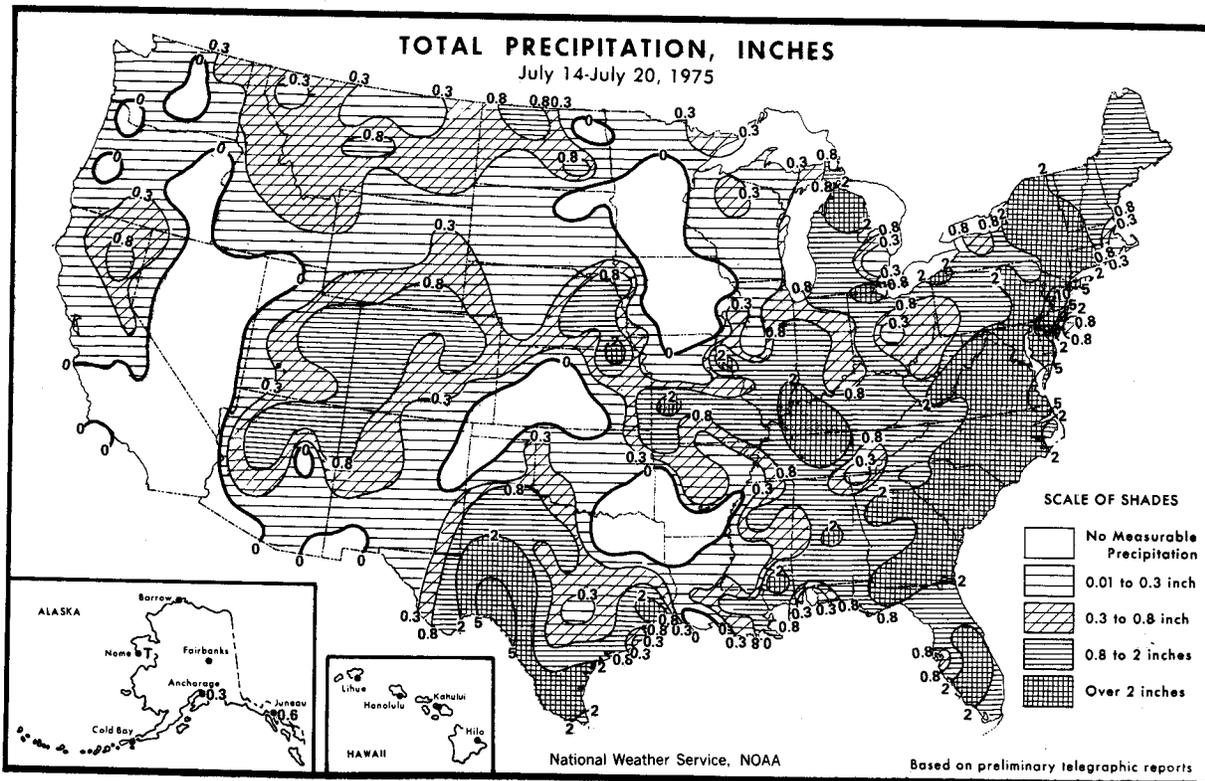
# Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE  
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## NATIONAL WEATHER SUMMARY

For the Week of July 14-20

**HIGHLIGHTS:** Heavy rain from Florida to Connecticut and into the previously dry northern New York area produced the most notable precipitation pattern this week. Many areas in the Northern Plains had little. Much of Iowa and Minnesota measured no rain at all.

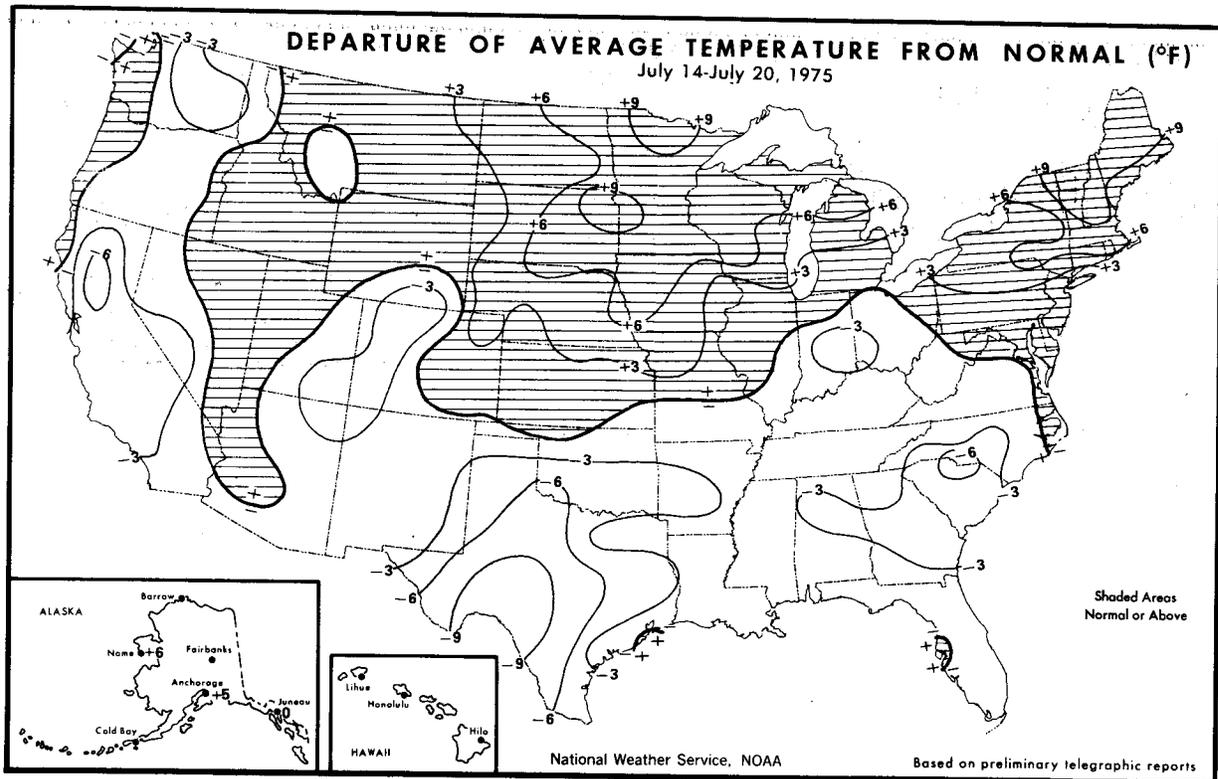
Temperatures were generally above normal levels in the northern half of the Nation and below in the South. Unfortunately the greatest positive departures were in the already dry States of Iowa, Minnesota, and South Dakota.

**PRECIPITATION:** The stationary front winding through the Atlantic and Gulf Coast States held its ground on Monday, dumping heavy rains that sparked flooding throughout the area. Parts of central New Jersey had 4 to 5 inches of rain in a 6-hour period. Showers and thundershowers spotted the neighboring Great Lakes Region, and also made their way into

the central and southern Plains. By noontime thunderstorms stretched southward along the Gulf Coast and into southern Texas. To the west showers hit the Rockies and intermountain region, and the Pacific Northwest.

Flooding that ranged from minor to severe occurred in several parts of the Nation on Tuesday. In New Jersey, the Millstone River set a record when it hit a level 8 feet above flood stage. Meanwhile, serious flooding from earlier rain persisted in eastern North Dakota. As the day progressed, however, the weather system showed signs of weakening. Otherwise, there was little change in the pattern of showers and thundershowers, which dominated the eastern and northwestern sections of the Country. Storms eased somewhat along the saturated Atlantic and Gulf Coasts and once again bypassed the Nation's parched midsection.

Early Wednesday morning showers and thunderstorms



diminished along much of the Atlantic Coast. Soon, however, the slowly moving storms renewed their attack, targeting more showers and thunderstorms along the coastal areas from southern Maine into southern Texas. Later, rains slackened once more and most flooding was minor. Elsewhere, thunderstorms drifted into parts of the north and central Great Plains. Shower activity dotted the Rockies and the Colorado area.

Thursday's pattern of precipitation took on a slightly different shape. Rainfall spread from Texas into New Mexico, and much of the coastal activity in the East moved over the water. Some showers still hovered over the East, but began to make more noise throughout the South and West.

Warm moist air set the stage for a comeback of shower and storm activity across the East and South and into the central portions of the Nation. Scattered precipitation on Friday extended from the central and southern Plains through the Mississippi Valley and into much of the Atlantic Coast.

In contrast to the well-organized systems that drilled through Alabama and Tennessee and from Ohio through New York, storms west of the Mississippi River were widely scattered. Much of the increased activity that developed on Saturday focused on Nebraska, which reported several heavy storms. Otherwise, the familiar pattern of scattered thundershowers made itself comfortable from the Plains to the Atlantic Coast.

The slow moving thunderstorms and abundance of moisture gave rise to local flooding problems on Sunday in many parts of the eastern two-thirds of the Nation. Elsewhere, a large area of thundershowers drifted northeast through the Texas Panhandle. Early morning rains near Abilene dumped 5 inches in a 6-hour period. Precipitation broadened its coverage of the Nation when showers developed across Kansas, Missouri, and eastern Colorado. At midday thundershowers east of the Mississippi

River encompassed areas from the Gulf to the Lower Ohio Valley. At the same time, storms north of the Ohio Valley into the Great Lakes were more scattered.

**TEMPERATURE:** Warm to hot weather that is so typical for this time of year prevailed over most of the Nation throughout the week. Although thunderstorms eased the sultry conditions somewhat, relief was only temporary. Cooler nighttime temperatures brought the mercury down in many States.

On Monday overnight temperatures ranged from the low 80's in the desert Southwest to the middle and upper 40's in portions of the middle Mississippi and lower Ohio Valleys. As the day progressed, however, temperatures shot up to the 70's and 80's across most of the Nation and into 100's in the Southwest.

A general warming trend made conditions even more uncomfortable in the Upper Plains and Mississippi Valley. By early Tuesday afternoon the mercury jumped to 100° in central South Dakota.

Wednesday was even more of a scorcher, as desert temperatures of 100° plus reigned over South Dakota, and Colorado and Nebraska as well. Pierre and Philip, South Dakota shared a record high of 108°.

In contrast to the dry and dusty heat of the Plains, the Atlantic Coast fared under mild, but humid conditions. To the West, southwest Texas surprised everyone on Thursday with high readings in the 70's, making it the coolest spot in the Nation.

Afternoon temperatures on Friday ranged in the 80's and 90's in most sections of the Country, and returned on Saturday to most areas except the Pacific Coast, where cool ocean breezes held the mercury in the 60's and 70's. Conditions in general seemed to cool on Sunday, as temperatures in the 60's and 70's became the rule rather than the exception.

**NATIONAL AGRICULTURAL SUMMARY**

For the Week of July 14-20

**HIGHLIGHTS:** Heavy rains continued along the Atlantic Coast States while hot, dry weather in the West North Central Region was causing much stress to crops. The Nation's winter wheat harvest continues to move northward and combining of the 1975 crop was 74% complete, slightly ahead of normal. Row crops declined in many States from either too much or too little moisture.

**SMALL GRAINS:** Small grain combining continues northward in the North Central States, however, harvest was delayed by rain in the Eastern States.

Winter wheat harvest advanced favorably and by July 20th, 74% of the 1975 crop was harvested, slightly ahead of the normal pace, but still behind last year's excellent progress. Harvest was virtually complete in Kansas, Oklahoma, and Texas; ahead of normal in Kansas, but behind normal in Oklahoma and Texas. Wheat combining in the North Central States was 50% done in South Dakota; 70% in Nebraska; 85% in Ohio; 95% in Indiana; and virtually complete in Illinois.

Moving westward, Montana winter wheat was 45% turning. Harvest was picking up in Washington and 45% finished in Colorado.

Small grains continue to be pushed toward maturity in many North Central States as hot and dry weather again prevailed. Spring wheat was 26% ripe in South Dakota and 33% in Minnesota.

**CORN:** Soil moisture supplies were declining over much of the major corn producing area causing stress in several States.

In the North Central States, corn development continued to advance at a steady pace, still ahead of last year and the normal level in nearly all States. Dry conditions were becoming more prevalent in all States of this region except much of Illinois and Ohio. In Iowa, moisture and heat stress was causing rolling of leaves; 37% of the fields were 75% or more silked versus 44% average. Corn was in good to excellent condition in Illinois with 81% silked, far ahead of the normal 40%. Average height of corn was 60 in. in Michigan and Wisconsin and 70 in. in Ohio.

Dry soil moisture conditions in parts of Arkansas, Kentucky, and Tennessee hampered development; elsewhere in the South and East soil moisture supplies were generally adequate or better.

**COTTON:** Rains continued to fall over much of the major cotton growing area, making insect and herbicide spraying difficult. Cotton development made good progress in most States and remains in fair to mostly good condition with heavy squaring and setting bolls.

In the Texas High and Low Plains, cotton was squaring heavily and early stands were beginning to bloom. The Mississippi crop was much behind last year and normal with only 73% squaring and 30% setting bolls. Cotton in Arkansas was blooming and fruiting rapidly, but many fields were dry and some were being irrigated. In Oklahoma, cotton was squaring late at 30%, compared with 66% in 1974.

Cotton in western Arizona had good boll set developing, while squaring and flowering continued in central areas. In California, progress was satisfactory.

**SOYBEANS:** Soybean development progressed rapidly

throughout the major producing area. Much above normal temperatures in North Central Region sapped moisture supplies while subnormal temperatures and rain were common in the South and Eastern States.

In the North Central States, soybeans continue to develop ahead of last year and normal. In Illinois, the crop was in good to excellent condition with 75% blooming and 45% setting pods. Drier soil moisture in Iowa curtailed development and the crop was only in fair to good condition with 22% setting pods. Elsewhere in the Region, setting pods ranges from 16% in Minnesota to 40% in Ohio.

Planting continued in Louisiana with 90% done versus 85% in 1974. Prospects for soybeans in Arkansas were good, but the crop needs rain. In Mississippi, 3% were podding.

**OTHER CROPS:** Heavy rain virtually stopped the sorghum harvest in southern Texas, while fields were rapidly approaching maturity in the Blacklands area. The Kansas crop was 5% headed versus 10% average.

Heavy rains caused some drown out of flue-cured tobacco in North Carolina and Virginia. Flue-cured harvest was 9% done in North Carolina, 36% in South Carolina and 56% in Georgia. Tobacco growth in Kentucky was slow, but ahead of normal.

The Maine potato crop started blooming, but stands are uneven. In Idaho, 40% of the fields were closing middles against 50% in 1974.

Rice harvest started in southeast Texas and 2% of the crop was harvested compared with 5% in 1974. Light harvest was also underway in southern Louisiana.

**FRUITS AND NUTS:** Tart and sweet cherry harvest was active in Michigan. In western New York, sweet cherry harvest was ending and tart cherry harvest was underway. Harvest was also active in Wisconsin and Colorado. Peach picking continued in the South and was 56% finished in North Carolina, 58% in South Carolina, and 83% in Georgia. Citrus trees in Florida and Texas benefited from rains, and new fruit was making excellent growth. In California, harvest was active in apricots, grapes, nectarines, peaches, and plums. Citrus picking was also at seasonal levels.

**VEGETABLES:** Heavy rain slowed vegetable harvest in the North Atlantic States. Vegetable supplies were in good volume in Texas for onions, cucumbers, cantaloups, melons, peas, and tomatoes. In Michigan, early cucumbers were being harvested as well as celery and cabbage. Snap bean harvest was in full swing in Wisconsin and beet harvest started. In California, supplies of broccoli, cauliflower, celery, lettuce, market tomatoes, and canning tomatoes were available. Land preparations for fall vegetables was active in Florida.

**PASTURES AND LIVESTOCK:** Pastures and ranges in much of the Nation's midsection, north of Texas, declined rapidly during the week as soil moisture supplies were being depleted. Ranges in Colorado, Idaho, Montana, Oregon, Utah, and Wyoming were in good to excellent condition allowing livestock to make good gains. Texas ranges were furnishing excellent grazing, the best of recent years, while in Tennessee, pastures were the driest since 1971. Flies and pinkeye continue bothersome in several States.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., July 20, 1975

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA.Birmingham . . .	77	- 3	.9	-. 3	La.Baton Rouge . . .	80	0	1.8	+ .3	Youngstown . . .	72	+ 1	.7	-. 2
ALA.Mobile . . .	81	- 1	.1	-2.0	LAKE Charles . . .	81	- 1	0	-1.5	OKLA.Okla. City . . .	77	- 5	T	-. 6
ALA.Montgomery . . .	81	0	1.1	-. 1	LAKE New Orleans . . .	80	- 2	.5	-1.1	Tulsa . . .	81	- 1	.2	-. 6
ALASKA.Anchorage . . .	63	+ 5	.3	-. 2	MAINE.Shreveport . . .	81	- 2	0	-. 6	OREG.Astoria . . .	61	+ 1	T	-. 2
ALASKA.Barrow . . .	---	---	---	---	MAINE.Caribou . . .	74	+ 9	1.3	+ .4	Burns . . .	68	- 1	T	-. 1
ALASKA.Fairbanks . . .	---	---	---	---	MAINE.Portland . . .	75	+ 7	.9	+ .3	Medford . . .	71	- 1	T	-. 1
ALASKA.Juneau . . .	56	0	.6	-. 5	MD.Baltimore . . .	78	+ 1	2.2	+1.3	Pendleton . . .	74	0	T	-. 1
ALASKA.Kodiak . . .	---	---	---	---	MASS.Boston . . .	80	+ 6	.1	-. 5	Portland . . .	69	+ 2	T	-. 1
ALASKA.Nome . . .	56	+ 6	T	-. 6	MASS.Chatham . . .	70	- 1	0	---	Salem . . .	67	0	T	-. 1
ARIZ.Flagstaff . . .	65	- 1	.9	+ .3	MICH.Alpena . . .	73	+ 7	2.2	+1.6	PA.Allentown . . .	77	+ 2	3.6	+2.6
ARIZ.Phoenix . . .	94	+ 2	.4	+ .2	MICH.Detroit . . .	72	0	T	-. 7	PA.Erie . . .	73	+ 4	2.1	+1.3
ARIZ.Tucson . . .	84	- 3	T	-. 6	MICH.Grand Rapids . . .	71	+ 1	.1	-. 5	Harrisburg . . .	78	+ 1	9.9	+ .1
ARIZ.Winslow . . .	77	- 2	T	-. 3	MICH.Houghton Lake . . .	71	+ 5	2.4	+1.7	Philadelphia . . .	79	+ 2	3.6	+2.7
ARIZ.Yuma . . .	93	- 1	0	-. 1	MICH.Lansing . . .	73	+ 2	1.2	+ .6	Pittsburgh . . .	74	+ 2	.7	-. 2
ARK.Fort Smith . . .	79	- 3	T	-. 7	MICH.Marquette . . .	75	+ 8	.2	-. 5	Scranton . . .	77	+ 4	1.5	+ .5
ARK.Little Rock . . .	78	- 3	1.1	+ .3	MICH.Muskegon . . .	72	+ 2	1.2	+ .6	R.I.Providence . . .	79	+ 7	T	-. 6
CALIF.Bakersfield . . .	82	- 3	0	0	MICH.S. Ste. Marie . . .	71	+ 7	1.9	+1.3	S.C.Charleston . . .	77	- 3	4.7	+1.8
CALIF.Eureka . . .	59	+ 3	T	0	MINN.Duluth . . .	73	+ 7	T	-. 8	Columbia . . .	77	- 4	3.0	+2.7
CALIF.Fresno . . .	77	- 4	0	0	MINN.Internatl Falls . . .	76	+ 10	.2	-. 7	Greenville . . .	74	- 4	1.4	+ .5
CALIF.Los Angeles . . .	71	- 3	0	0	MINN.Minneapolis . . .	79	+ 7	T	-. 8	S.D.Aberdeen . . .	81	+ 9	T	-. 6
CALIF.Red Bluff . . .	76	- 7	.3	+ .3	MINN.Rochester . . .	76	+ 6	T	-. 8	Huron . . .	81	+ 7	T	-. 5
CALIF.San Diego . . .	69	- 1	0	0	MINN.St. Cloud . . .	76	+ 6	0	-. 7	Rapid City . . .	74	+ 1	.1	-. 3
CALIF.San Francisco . . .	61	- 2	.1	-. 1	MISS.Jackson . . .	80	- 2	.1	-. 9	Sioux Falls . . .	82	+ 8	.1	-. 5
CALIF.Stockton . . .	73	- 4	T	0	MISS.Meridian . . .	81	0	.6	-. 6	TENN.Chattanooga . . .	78	- 1	.2	-1.0
COLO.Denver . . .	74	0	.6	+ .2	MO.Columbia . . .	77	0	.1	-. 8	Knoxville . . .	77	- 1	.8	-. 3
COLO.Grand Junction . . .	77	- 2	1.0	+ .9	MO.Kansas City . . .	83	+ 4	.2	-. 8	Memphis . . .	80	- 2	1.1	-. 7
COLO.Pueblo . . .	79	+ 2	.5	+ .1	MO.St. Louis . . .	79	0	.5	-. 3	Nashville . . .	78	- 2	2.3	+1.4
CONN.Bridgeport . . .	76	+ 2	2.8	+2.0	MO.Springfield . . .	77	- 1	.8	0	TEX.Abilene . . .	78	- 6	.6	+ .1
CONN.Hartford . . .	80	+ 7	2.9	+2.1	MOnt.Billings . . .	74	+ 1	.1	0	Amarillo . . .	75	- 4	.2	-. 4
D.C.Washington . . .	80	+ 1	2.4	+1.5	MOnt.Glasgow . . .	73	+ 2	.1	-. 2	Austin . . .	80	- 5	.1	-. 3
FLA.Apalachicola . . .	79	- 2	.5	-1.4	MOnt.Havre . . .	72	+ 1	.2	-. 1	Beaumont . . .	81	- 2	2.4	+1.0
FLA.Daytona Beach . . .	80	- 1	1.7	+ .2	MOnt.Helena . . .	67	- 2	.6	+ .4	Brownsville . . .	81	- 3	1.7	+1.5
FLA.Ft. Myers . . .	82	- 1	2.1	+ .1	MOnt.Kalispell . . .	65	0	T	-. 2	Corpus Christi . . .	82	- 3	2.4	+2.0
FLA.Jacksonville . . .	79	- 2	1.9	+ .2	MOnt.Miles City . . .	77	+ 2	.7	+ .4	Del Rio . . .	76	-11	7.6	+7.4
FLA.Key West . . .	83	- 2	1.1	+ .2	MOnt.Missoula . . .	69	+ 2	.5	+ .3	El Paso . . .	80	- 2	.1	-. 3
FLA.Lakeland . . .	80	- 2	1.3	-. 5	NEBR.Grand Island . . .	80	+ 3	1.1	+ .4	Fort Worth . . .	83	- 2	0	-. 4
FLA.Miami . . .	81	- 1	.9	-. 6	NEBR.Lincoln . . .	81	+ 3	.7	0	Galveston . . .	84	+ 1	T	-1.0
FLA.Orlando . . .	81	0	3.4	+1.5	NEBR.Norfolk . . .	80	+ 4	1.9	+1.2	Houston . . .	80	- 3	1.3	+ .4
FLA.Tallahassee . . .	80	- 1	2.0	-. 1	NEBR.N. Platte . . .	77	+ 2	0	-. 7	Lubbock . . .	75	- 5	1.2	+ .7
FLA.Tampa . . .	83	+ 1	.7	-1.2	NEBR.Omaha . . .	82	+ 7	T	-. 8	Midland . . .	75	- 7	4.1	+3.7
FLA.W.Palm Beach . . .	80	- 2	1.6	+ .2	NEBR.Valentine . . .	81	+ 6	.2	-. 4	San Angelo . . .	76	- 9	2.1	+1.8
GA.Atlanta . . .	76	- 2	3.3	+2.1	NEV.Ely . . .	69	+ 1	0	-. 1	San Antonio . . .	79	- 6	.5	+ .1
GA.Augusta . . .	75	- 5	2.6	+1.4	NEV.Las Vegas . . .	90	0	0	-. 1	Victoria . . .	82	- 2	1.9	+1.3
GA.Macon . . .	77	- 4	1.7	+ .6	NEV.Reno . . .	69	- 1	T	-. 1	Waco . . .	80	- 6	.3	0
GA.Savannah . . .	77	- 4	4.6	+2.8	NEV.Winnemucca . . .	72	0	0	-. 1	Wichita Falls . . .	81	- 5	.6	+ .1
HAWAII.Hilo . . .	---	---	---	---	N.H.Concord . . .	79	+ 9	1.0	+ .3	UTAH.Blanding . . .	70	- 4	.7	+ .5
HAWAII.Honolulu . . .	---	---	---	---	N.H.Trenton . . .	78	+ 2	10.0	+8.9	UTAH.Salt Lake City . . .	79	+ 1	T	-. 1
HAWAII.Kahului . . .	---	---	---	---	N.J.Atlantic City . . .	78	+ 3	.7	-. 3	VT.Burlington . . .	79	+ 9	1.6	+ .8
HAWAII.Lihue . . .	---	---	---	---	N.J.Trenton . . .	78	+ 2	10.0	+8.9	VA.Lynchburg . . .	74	- 2	2.2	+1.3
IDAHO.Boise . . .	76	+ 1	T	0	N.MEX.Albuquerque . . .	78	- 1	.4	0	Norfolk . . .	80	+ 1	5.4	+4.1
IDAHO.Lewiston . . .	73	- 1	.2	+ .1	N.MEX.Roswell . . .	77	- 2	T	-. 4	Richmond . . .	77	- 1	2.5	+1.2
IDAHO.Pocatello . . .	74	+ 2	.2	+ .1	N.Y.Albany . . .	76	+ 4	3.2	+2.5	Roanoke . . .	74	- 1	1.9	+1.1
ILL.Cairo . . .	80	- 1	1.6	+ .9	N.Y.Binghamton . . .	75	+ 6	1.8	+ .9	WASH.COllville . . .	66	- 3	.6	+ .5
ILL.Chicago . . .	77	+ 2	.3	-. 6	N.Y.Buffalo . . .	73	+ 3	.9	+ .2	Omak . . .	69	- 2	0	-. 1
ILL.Moline . . .	76	+ 1	.3	-. 8	N.Y.New York . . .	78	+ 1	4.4	+3.5	Quillayute . . .	58	- 1	.3	-. 2
ILL.Peoria . . .	75	0	T	-. 8	N.Y.Rochester . . .	75	+ 4	.4	-. 2	Seattle-Tacoma . . .	66	+ 1	.1	0
ILL.Rockford . . .	75	+ 2	.2	-. 8	N.Y.Syracuse . . .	74	+ 2	4.4	+3.7	Spokane . . .	66	- 4	T	-. 1
ILL.Springfield . . .	76	0	.1	-. 8	N.C.Asheville . . .	71	- 3	.8	-. 3	Walla Walla . . .	72	- 4	T	-. 1
IND.Evansville . . .	77	- 1	2.2	+1.3	N.C.Charlotte . . .	73	- 6	3.0	+1.9	Yakima . . .	68	- 3	T	0
IND.Ft. Wayne . . .	73	0	.6	-. 3	N.C.Greensboro . . .	75	- 2	3.7	+2.7	W.Va.Beckley . . .	69	- 1	3.5	+2.5
IND.Indianapolis . . .	72	- 3	1.4	+ .6	N.C.Hatteras . . .	79	+ 1	1.0	-. 3	Charleston . . .	73	- 2	.4	-. 8
IND.South Bend . . .	72	0	1.3	+ .5	N.C.Raleigh . . .	75	- 3	3.0	-1.8	Huntington . . .	73	- 2	1.9	+ .9
IOWA.Burlington . . .	77	+ 2	0	-. 8	N.C.Wilmington . . .	79	- 1	2.7	+ .7	Parkersburg . . .	73	- 2	.3	-. 7
IOWA.Des Moines . . .	80	+ 5	0	-. 7	N.DAK.Bismarck . . .	74	+ 3	.1	-. 4	WIS.Green Bay . . .	74	+ 5	.1	-. 6
IOWA.Dubuque . . .	74	+ 2	T	-1.0	N.DAK.Fargo . . .	77	+ 6	T	-. 7	La Crosse . . .	79	+ 6	T	-. 8
IOWA.Sioux City . . .	79	+ 3	1.2	+ .5	N.DAK.Williston . . .	74	+ 4	.4	0	Madison . . .	76	+ 6	.1	-. 8
KANS.Concordia . . .	81	+ 3	.2	-. 5	OHIO.Akron-Canton . . .	73	+ 1	.4	-. 5	Milwaukee . . .	75	+ 5	.1	-. 7
KANS.Dodge City . . .	80	+ 1	0	-. 7	OHIO.Cincinnati . . .	73	- 3	.5	-. 5	WYO.Casper . . .	74	+ 2	.1	-. 1
KANS.Goodland . . .	77	+ 1	.4	-. 2	OHIO.Cleveland . . .	72	0	1.7	+ .9	Cheyenne . . .	67	- 3	1.2	+ .8
KANS.Topeka . . .	79	+ 1	.5	-. 4	OHIO.Columbus . . .	73	- 1	.2	-. 8	Lander . . .	72	+ 1	T	-. 1
KANS.Wichita . . .	81	0	T	-1.0	OHIO.Dayton . . .	72	- 3	1.0	+ .2	Sheridan . . .	71	0	.1	-. 1
KY.Lexington . . .	74	- 2	1.6	+ .5	OHIO.Toledo . . .	71	- 1	2.3	+1.6	P.R.San Juan . . .	83	+ 2	1.8	+ .3
KY.Louisville . . .	76	- 1	.8	0										

Based on 1941-70 Normals

Standard copy for the Weekly Weather and Crop Bulletin is prepared by: Dr. Richard E. Felch, Lyle M. Denny, Orus W. Byrd, National Weather Service, NOAA; DeLon Brown, Susan E. Atkins, Statistical Reporting Service, USDA.

## 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:** Early week relatively dry. Most rain occurred 17th through 21st, some locally heavy amounts. Muscle Shoals 6.62 in. for week. Temperatures averaged slightly below normal.

Conditions good for field activities. Soil moisture generally adequate. Corn condition good to excellent, 80% tasseled, 26% dented. Cotton squaring 89%; 38% setting bolls; condition good; progress made against insects. Soybean condition good, 27% blooming. Peanuts 55% pegging, condition good to excellent. Irish potato digging continues. Watermelon movement active south. Peach picking active. Tomato harvest Chandler Mountain active. Hay 75% harvested. Cattle and calf marketings up.

**ALASKA:** Temperatures and precipitation near normal.

Rain throughout week stopped haying in most of railbelt. Several acres of hay in the Matanuska Valley have been windrowed for several days. Hay harvest about 75% complete for first cutting. Head lettuce harvest is expected to begin July 21st. Ground moisture supply mostly adequate.

**ARIZONA:** Scattered showers over two-thirds through 24th, southeast all week. Varied from 0.10 to 0.75 in. Flood and wind damage east Maricopa County on 23d. Temperatures normal.

Cotton, good boll set developing west; squaring and flowering continued reasonable rate central. Barley harvest near completion. Wheat harvest nearing complete Yuma and Salt River Valley, 50% complete southeast. Sorghum planting virtually complete, recent growth good. Harvest safflower good progress. Sugarbeet harvest continued central. Alfalfa hay harvest continued. Harvest spring cantaloups watermelons near completion Yuma, steady central. Thompson seedless grape harvest active central. Valencia oranges, grapefruit harvest seasonal progress. Range conditions very good central, north central. Drought southwest deserts. Stock water sufficient. Cattle, calves good condition.

**ARKANSAS:** Temperatures 1 to 5° below normal. Extremes: 47 and 100° cool early warming trend throughout week. Rain light, scattered, less than 0.10 in.

Dry conditions prevailed. Crops not affected yet. Soil moisture short. Six days suitable for fieldwork. Cotton crop good; blooming and fruiting progressed rapidly. Many fields dry, some being irrigated. Early rice heading, most fields in boot stage. Midseason nitrogen application ended. Soybean prospects good, planting complete, 97% 1974, average 99%. Crop needs rain, good weed control. Early corn in dent stage. Early sorghum developed large heads. Grasslands need moisture. Pastures short. Apple, peach harvest continued. Cantaloupes and watermelons moved to market. Tomato harvest winding down.

**CALIFORNIA:** Scattered showers northern mountains extending southward to central coast and northern San Joaquin Valley. Amounts generally 0.25 in. or less. Cooling inland north and central midweek and warming end of week. Averages about 5° below normal Central Valley and near normal elsewhere.

Rains north half slowed small grain harvest, damaged some windrowed hay. Harvest small grain continues except Imperial Valley. First safflower harvest near San Joaquin Valley. Digging sugar-

beets 75% complete Imperial Valley increasing San Joaquin. Cotton progress satisfactory, starting to bloom late areas. Planting dry beans, field corn, milo nearly complete. Harvesting active in apricots, grapes, nectarines, peaches, plums. Early apple harvesting underway. Prunes, pears, almonds, walnuts developing well. Citrus picking at seasonal levels, some frost damage, granulation showing up. Broccoli, cauliflower good volume; celery moderate supply, good quality Salinas. Lettuce supply good, quantity good. Spring potatoes shipments unchanged. Market tomatoes active San Joaquin Valley, canning tomato harvest continues. Livestock good condition. Mountain pastures good condition.

**COLORADO:** Scattered showers over State. Heaviest amounts midweek. Temperatures normal to below normal. High temperature 104° at La Junta on 15th.

Winter wheat 45% harvested, 86% 1974, 79% average, harvest 85% complete southeast. Winter barley 68% ripe, 44% harvested, 71% average, 86% 1974. Corn height 42 in. All row crops good condition. First cutting alfalfa 75% complete mountains. Second cutting 34% complete southeast. Sweet cherry harvest ending, tart cherries active. Pearl onions harvest active Arkansas Valley. Fall potatoes 2 weeks behind. Ranges, pasture and livestock good condition. Some fly problems mountains, northeast.

**FLORIDA:** Temperatures averaged 1 to 3° below normal. Rainfall scattered, heaviest central averaging 2.00 to 5.00 in. West, north, and south, averaged 1.00 to 2.00 in.

Soil moisture mostly adequate, becoming excessive in areas of thundershower activity. Corn excellent condition, light harvest continues. Soybean, peanuts good condition. Tobacco harvest continues, markets open and sales active. Sugarcane good condition. Pasture grass continues to improve. Cattle, calves good condition, improving. Citrus tree condition excellent. Rain all areas, moisture adequate to surplus. New fruit making excellent growth. Valencia harvest slowing. Watermelon harvest steady west. Fertilization, using plastic for tomatoes. Land preparation active fall crops.

**GEORGIA:** Temperatures 3 to 7° below normal. Rainfall heavy, scattered showers most days. Amounts very heavy southeast, range 0.30 in. northwest to 3.40 in. southeast. Scattered showers 18th through 20th.

Soil moisture adequate to excessive. Fieldwork active where weather permitted, 3 days suitable. Haying, insect and weed control active. Corn, cotton, peanuts, soybeans, hay crops, watermelons, pastures, livestock mostly good condition. Cotton 70% setting bolls. Peanuts 98% blooming, 91% pegging. Tobacco 56% harvested, average 63%. Watermelons 68% harvested. Peaches 83% harvested, same as average. Peach shipments through July 16, 1,476 carlots, year ago 653.

**HAWAII:** Rainfall light and scattered.

Weather favorable for most vegetable and fruit crops. Dry spell continuing some areas. Sugarcane showing stress. Some pastures critical stage. Vegetable and melon supplies adequate. Banana supplies increasing slightly. Papaya production light. Pineapple harvesting active.

July 22, 1975

**IDAHO:** Hot, dry weather early week scattered showers and cooler temperatures thereafter. Showers general north 0.50 to 1.00 in., only traces elsewhere. Temperatures averaged 2° below normal north and 2 to 3° above normal southeast.

Hot weather accelerated crop growth and development. Development crops approaching normal. Irrigation No. 1 farm activity. Winter wheat 35% turned, 70% 1974. Oats 15% turned, 45% 1974. Spring barley and spring wheat 15% and 10% turned, 60% and 35% 1974. Potato crop 40% closing middles, 50% 1974. First cutting alfalfa 80% complete, 100% 1974. Ranges good to excellent condition, lower levels drying out. Livestock excellent condition.

**ILLINOIS:** Temperatures 1 to 2° above normal north, 0 to 1° below normal south. Precipitation light mostly 0.30 in. or less.

Corn good to excellent, 81% silked, 31% 1974, average 40%. Soybeans blooming 75%, 20% 1974, average 37%; 45% setting pods. Crop good to excellent. Oats 70% ripe; 50% combined, 41% 1974, average 38%. Wheat harvest virtually complete, except extreme north. Barley harvest 90% complete. Second crop alfalfa hay 55% cut, 45% 1974, average 47%. Pastures mostly good. Soil moisture 42% short, 57% adequate, 1% surplus. Fieldwork: 6 days suitable.

**INDIANA:** Weekend rains valuable, 1.00 to 3.00 in. extreme southwest, 1.00 to 4.00 in. west half of central third. Only 0.10 to 0.50 in. east half. Temperatures near normal. Humidity mostly above normal except south.

Fieldwork averaged 6 days. Topsoil moisture mostly short. Subsoil moisture mostly short to adequate. Severe local hail damage. Wheat 95% combined, slightly ahead of 1974, 75% average. Oats 40% combined, 20% in 1974, 30% average. Barley harvest over. Rye 80% combined. Corn 50% silked, 15% in 1974, 30% average. Soybeans 50% in bloom; 20% setting pods, just starting in 1974. Alfalfa hay 50% cut second time, 40% in 1974. Pastures mostly fair.

**IOWA:** Temperatures 3 to 6° above normal, precipitation well below normal for third consecutive week. Rain needed badly, moisture levels near critical. Crops beginning to show moisture and heat stress. Corn rolling, some beginning to burn in lower leaves; 68% tasseled; 37% of fields 75% or more silked, 38% 1974, 44% average. Growing conditions of corn fair to good. Soybeans 54% of fields with 75% or more blooming or more advanced, 38% 1974, 52% average; 22% setting pods. Growing conditions of soybeans mostly fair to good. Oats 38% harvested, 41% 1974, 35% average. Winter wheat 88% harvested. Second cutting alfalfa 56% harvested, second cutting red clover 20% harvested. Leafhoppers in alfalfa. Fieldwork averaged 7 days suitable. Topsoil moisture short.

**KANSAS:** Above normal temperatures and very little rainfall. Only significant rainfall in extreme northeast over weekend when from 0.33 to 1.00 in. well.

Wheat 100% harvested, 100% 1974, 95% average. Corn grain, 5% headed, same as 1974, 10% average. Corn 50% tasseled, 55% 1974, 45% average; 0% in dough, 5% 1974, 10% average. Soybeans podding 5%, same 1974, 15% average. Alfalfa second cutting, 85% complete, same average, 90% 1974. Third cutting 10% complete, same 1974, 15% average. Topsoil moisture short throughout. Rain needed to maintain crop and pasture condition.

**KENTUCKY:** Temperatures little below normal early week, climbed to near normal by weekend. Rainfall

averaged around 1.00 in. over State with isolated spots receiving 2.00 to 3.50 in.

Crop growth slow. Soil moisture 80% short, 20% adequate. Fieldwork: 5.5 days favorable. Corn condition declined, about 25% crop damaged by dry weather; 56% tasseling, 52% 1974, 41% average. Soybeans fair, 15 in. tall, 13 in. 1974, 14 in. average. Tobacco growth slow, 14% over 3 ft., 22% 1974, 11% average; 5% in bloom. Pastures deteriorating rapidly.

**LOUISIANA:** Temperatures 4° below normal northwest, 1 to 2° below normal elsewhere. Daily thundershowers southeast, scattered thunderstorms elsewhere on 19th. Greatest 1-day rainfall 2.67 in. Rosepine on 19th. Temperature extremes: 97° Alexandria, and 62° Winnsboro.

Soil moisture adequate north, surplus elsewhere. Fieldwork possible 4.2 days. Planting soybeans, cultivating row crops, cane borer control, chemical weed control, haying, and livestock management major activities. Soybeans fair; planting and replanting past 90%, completed July 1, 1974. Crop late and grassy. Cotton fair, 80% squaring, 25% setting bolls; insect damage light. Corn and sorghum good to fair. Early corn maturing. Sorghum planting 90%, Rice good, light harvest south. Sugarcane condition good; borer infestation moderate. Sweetpotatoes good, fields grassy. Watermelon harvest beginning. Hay condition fair to good. Pastures above average. Cattle mostly good condition.

**MARYLAND AND DELAWARE:** Temperatures normal to 4° below normal. Precipitation ranged from 0.34 in. west Maryland to 11.19 in. other areas. Weekend warm with thundershowers on 20th.

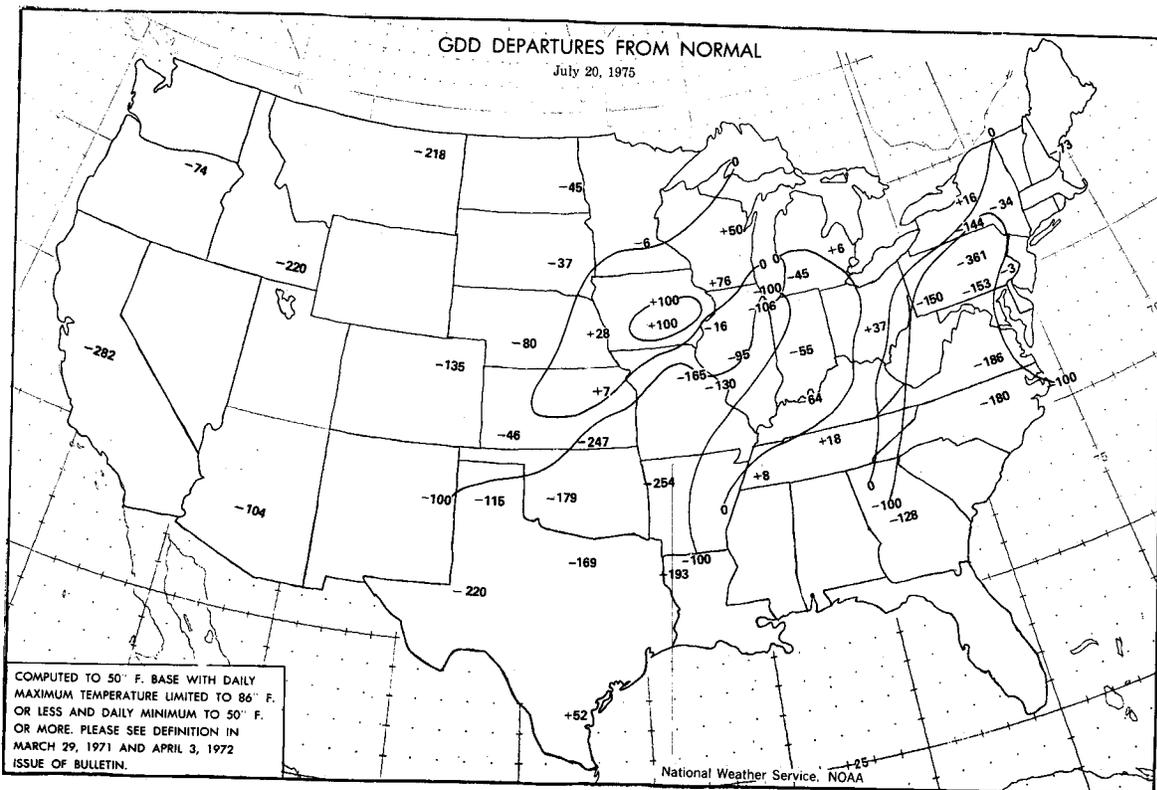
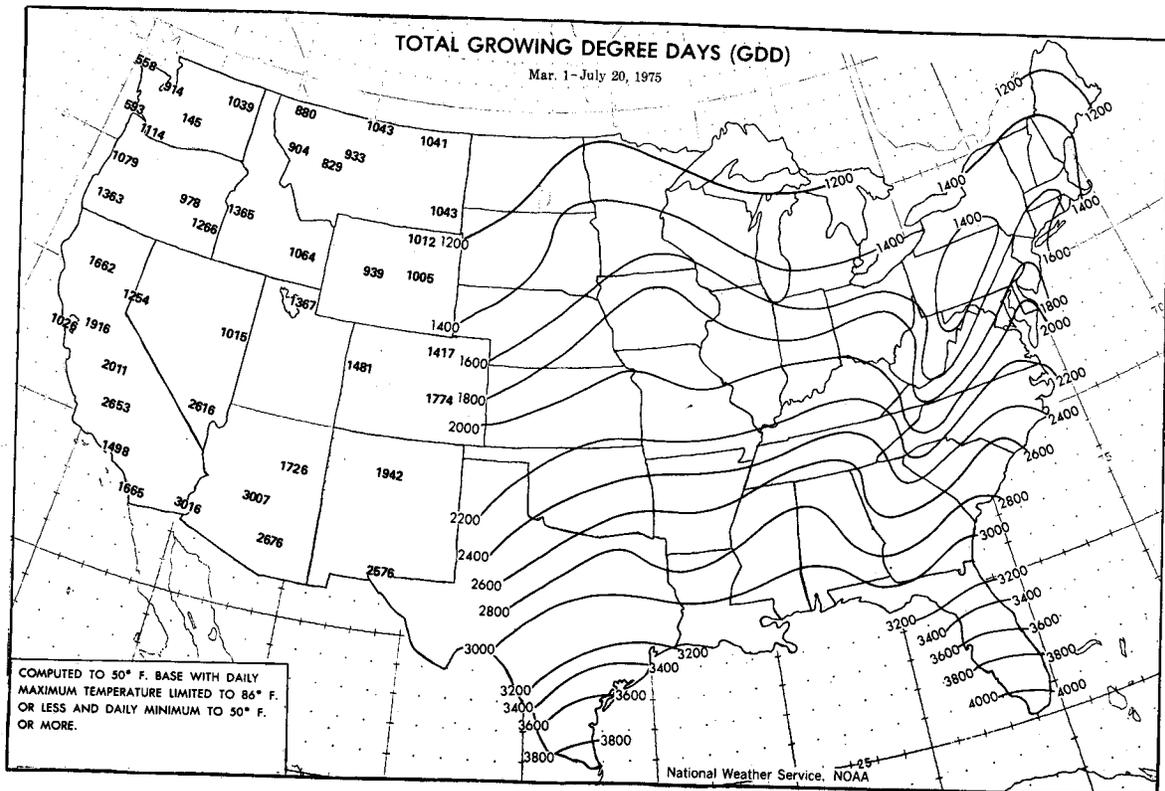
Barley harvest complete; wheat 80%, 90% 1974, 72% average. Corn crop 40% silked, 51% 1974. Tobacco growth good. Second cutting alfalfa nearly complete, third cutting underway. Vegetable harvest active, cucumbers 80%, fresh market sweet corn 50%. Apple and peach harvest continues.

**MICHIGAN:** Temperatures normal to 10° above. Precipitation 2.50 in. south to less than 1.00 in. north.

Corn height 5 ft., 3.5 ft. 1974. Some moisture stress. Early soybean fields in bloom, late covering rows. Dry beans good. Winter wheat 60% ripe, 40% 1974, 45% average; 25% harvested, 20% 1974 and normal. Oats 30% yellow, 20% 1974; harvesting south. Potato digging Monroe and Bay Counties. First cutting hay 95%, 94% 1974, 90% normal. Early pickles being harvested. Tart and sweet cherry harvest active. Tarts damaged by high winds north. Celery and cabbage harvest. Picking apples and sweet corn. Over 5 days fieldwork. Soil moisture short to adequate.

**MINNESOTA:** A hot dry week. Temperatures 6 to 9° above normal. Extremes: 102 and 38°. Precipitation sparse. Southwest now up to 3.00 in. below normal.

Hot dry weather rushed development small grains and started to adversely affect row crops. Dry conditions becoming prevalent across most of State especially west central, southwest. Rain needed, even in parts of Red River Valley. Crops still standing for harvest Red River Valley poor to fair condition while those not in flood area good to excellent. Elsewhere crops fair to good but rapidly deteriorating areas. Nearly 50% corn crop tasseled, slightly ahead average. Additional moisture needed for silk development and proper pollination. Soybean 16% setting pods, average 9%. Oats 50%, spring wheat and barley 33% ripening, somewhat behind average. Winter wheat 15% and



19% rye crops swathed. Flax 44% setting bolls.

**MISSISSIPPI:** Rainfall averaged less than 0.50 in. Temperatures ranged 9° subnormal north to 2° subnormal south. Extremes: 95 and 54°. Greatest 24-hour rainfall was 0.99 in. at Columbia on 12th.

Soil moisture short to adequate. Fieldwork: 5.5 days suitable. Cotton 73% squaring, 91% 1974, 89% average; 43% blooming; 30% setting bolls, 49% 1974. Soybeans 12% blooming, 10% 1974, 14% average; 3% podding. Corn 75% tasseled, 74% 1974, 72% average; 70% silked, 67% 1974; 28% in dough stage, 40% 1974; 7% dented, 25% 1974. Sorghum 19% and rice 1% headed. Cucumbers 80%, peaches 72%, watermelons 31% and hay crops 44% harvested. Condition of peaches ranged very poor to good. All other crops in fair to good condition.

**MISSOURI:** Temperatures 2 to 4° below normal except northwest prairie 1° above. Precipitation light, 0.02 in. west central plains to 0.54 Bootheel.

Six days suitable for fieldwork. Wheat harvest virtually complete, oat harvest 80% complete, 86% 1974, 79% normal. Corn 64% silking, 52% 1974, 51% normal; crop fair to good condition. Soybeans 39% blooming, 17% 1974, 26% normal. Cotton 92% squaring, 66% 1974, 71% normal; 64% setting bolls. Clo-Tim hay harvest 85% complete, 85% 1974, 86% normal; 2nd cutting alfalfa 78% complete, 79% 1974, 80% normal. Soil moisture supplies 93% short, 7% adequate. Pasture condition poor to fair.

**MONTANA:** Temperatures normal or above. Frequent thunderstorms. Precipitation generally well above normal except west, near average.

Winter wheat average harvest date to start August 6th, 10 days behind 1974. Winter wheat good to excellent condition. Warm weather hastening maturity. Other spring grains good condition. Soil moisture adequate. Winter wheat 45% turning, 1974 70%, normal 65%. Spring wheat 65% headed, very little turning, 1974 30% turning, normal 25%. Barley 60% headed, 5% turning. Oats 65% headed, very little turning, 1974 25% turning, 90% headed. Harvest 1st cutting alfalfa 70% complete. Grasshopper damage light to moderate.

**NEBRASKA:** Temperatures in the 90's and up to 105° with means 3 to 6° above normal. Light rainfall in Panhandle midweek, with more substantial amounts over eastern half on 19th.

Topsoil moisture supplies short 89%, adequate 11%. Subsoil moisture supplies 82% short and 18% adequate. Fieldwork: 7.0 days suitable. Winter wheat 70% harvested, 95% 1974, normal 70%. Corn condition mostly good. Irrigation continues, 40% of corn silked, normal 30%. Insects infestation increasing. Sorghum condition fair to good; spraying greenbugs. Soybean condition mostly good. Alfalfa hay condition good, 70% second crop harvested. Wild hay condition good. Sugarbeets and dry beans good condition. Pasture and range feed supplies short 59% and adequate 41%, some supplemental feeding.

**NEVADA:** Dry, temperatures near normal. Extremes: 108° Logandale, 39° Mountain City. Thunderstorm activity sparse.

Second crop alfalfa hay underway few areas north. Fourth crop starting southern valleys. Small grain harvest started northwest. Range feed fair to good in higher elevations. Lamb losses to coyotes again heavy.

**NEW ENGLAND:** Heavy downpours caused local flooding in western Massachusetts, Connecticut and southern

Vermont. Temperatures normal until midweek, thereafter 10° plus above normal. Exceptionally high humidity.

Rain in New England until midweek slowed truck crop harvest and halted haying. Maine potato crop has entered bloom, stands are uneven. Blueberry and raspberry harvest started. Cranberry fruit set heavy. Pastures short but improving.

**NEW JERSEY:** Temperatures averaged 3° above normal north, 1° above normal south. Extremes: 62° Newton on 17th, 90° at several locations on 16th to 20th. Weekly rainfall was heavy averaging 4.27 in. north, 4.25 in. central and 2.43 in. south. Heaviest 24-hour total was 6.11 in. at Trenton. Estimated soil moisture, in percent of field capacity, averaged 100% north, 98% central and 92% south.

Frequent rainfall continued to delay grain harvest. Small grains damage extensive. Some soybeans intended for late planting will not be planted. Vegetables being harvested where soil conditions permit. Some berries and vegetables splitting and rotting. Crop damage estimated in millions of dollars.

**NEW MEXICO:** Very little precipitation eastern plains, scattered showers other areas throughout week. Rain totals generally less than 1.00 in. Temperatures averaged near normal, but about 5° cooler than normal south central mountains and southeast. Cooler midweek, warming late week.

Rains mostly areas, moisture short to adequate north, mostly short south. Cotton squaring, some insects. Wheat-barley harvest near complete. Corn good, some silk stage. Apple poor to fair. Onions, peanuts, sunflower good. Range mostly fair, some good, some local areas poor; livestock fair to good.

**NEW YORK:** Above normal temperatures ranged from 52 to 93°. Average temperatures were 1 to 9° above normal. Rainfall was heavy southeast and Mohawk Valley; 3.00 to 6.00 in. fell. Dry weather continued west and northeast.

Rain slowed haying, spurred crop growth. First cutting all hay complete, second cutting alfalfa 15% in. Early corn tasseling, and is in better condition than late corn. Wheat harvest starting. Oats turning. Early Upstate potatoes, snap beans, corn ready for harvest. Onion transplants, lettuce, celery being harvested. Long Island cabbage and cauliflower being transplanted. West sweet cherry harvest ending, tart cherry harvest underway. Champlain Valley Lodi apple harvest starting, fruit sizing normally.

**NORTH CAROLINA:** Heavy rainfall occurred except more normal amounts in mountains. Temperatures averaged 4° below normal.

Soil moisture surplus Piedmont and coastal plains, mostly adequate mountains. Many fields too soft to support harvest and spray equipment. Fieldwork nearly stymied, 1.4 days suitable. Some flue-cured drowned, some vigorous growth; condition fair to good. Flue-cured 9% harvested, 1974 17%, average 9%. Corn improved; mostly fair to good. Cotton condition declined slightly. Soybean and peanuts continue fair to mostly good. Sweetpotatoes and apples mostly good. Pastures much improved. Hays 67% cut, 1974 63%. Irish potatoes 92% dug, 1974 90%. Peaches 56% picked, 1974 55%, average 40%.

**NORTH DAKOTA:** Temperatures above normal, ranging from 2 to 6° above normal. Extremes: 101° on 15th and 44° on 13th at Beulah. Precipitation above normal central and northwest, below normal

elsewhere. Greatest weekly precipitation at Bottineau with 2.12 in. Bottineau also had greatest 24-hour precipitation with 1.65 in. on 18th. Week-end mostly sunny skies, near average temperatures with trace of precipitation.

Topsoil moisture diminishing east and south. Crops not suffering noticeably yet, although much acreage shallow rooted. Swathing some early planted barley fields. Earliest wheat fields ripening. About 50% flax and potatoes in bloom or beyond. Hay harvest full swing. Some fallowing and late spraying being done. Pastures generally good and livestock doing well.

OHIO: Cool 14th to 16th, warmer end of week with highs in 80's and 90's. Extremes: 48 and 91°. Scattered thunderstorms range 0.13 in. central to 1.86 in. southeast.

Harvest completed: Wheat 85%, 90% 1974, and 80% normal; oats 25%, 20% 1974 and normal; barley virtually complete, 75% normal; alfalfa hay second cutting, 55%, 45% 1974 and 40% normal; Clover-Timothy hay 30%, 25% 1974 and 20% normal. Average height: Corn 70 in., 48 in. 1974 and 54 in. normal; soybeans 24 in., 17 in. 1974 and 18 in. normal. Corn 55% silked, 25% 1974 and 30% normal. Soybeans 40% setting pods, 15% 1974 and 20% normal. Moisture supplies 28% short, 70% adequate and 2% surplus. Nearly 6 days favorable for fieldwork.

OKLAHOMA: Temperatures 5 to 7° below normal. Precipitation averaged 0.02 in. southeast to 0.50 in. west central. Weekend hot with scattered rains mostly central and southwest.

Wheat harvest now virtually complete. Most stubble has been worked, some twice. Row crops declining as dry, hot weather sets in. Topsoil moisture short 66% of counties, subsoil short 25%. East and Panhandle driest. Panhandle corn being irrigated; most tasseling, some eastern fields near maturity. Sorghums 25% headed, week later than 1974. Cotton only fair to good; squaring late at 30% compared 66% 1974. Peanuts 33% blooming compared 66% 1974. Soybeans need rain, flowering near 20%. Prairie hay baling active. Pastures weedy and need rain to maintain growth.

OREGON: Temperatures normal. Maximums 80's and 90's, minimums 40's and 50's. Precipitation west 0.23 in. or less. Thunderstorms east 0.04 to 2.15 in.

Eastern counties experienced storms, flash floods that damaged crops, delayed harvest activities. Grain crops in fair to good condition. Wheat 5% harvested. Grass seed harvest in full swing. Haying continuing. Sugarbeets, mint, hops, in good condition. Cherry, raspberry harvests continuing. Strawberry harvest nearly completed. Prune crop good, apricot harvest beginning. Filberts and walnuts good. Bush bean harvest starting. Early sweet corn starting to tassle. Green pea harvest continues. Potato harvest began. Range and pasture conditions good. Cattle in good shape. Feed and water supplies adequate.

PENNSYLVANIA: Very warm and humid with scattered thundershowers first half and end of week. Temperatures near to 4° above normal. Extremes: 46 and 92°. Thunderstorm activity heavy in central and east. Rainfall from less than 0.50 to 3.50 in.

Soil moisture adequate. Major activities hay making, spraying, combining barley and wheat. Corn 48 in. tall, 4 days ahead of 1974. Barley 50% harvested, 8 days behind 1974. Wheat 61% ripe, 11% harvested, 6 days behind 1974. Oats 57% turning yellow, 9% ripe. Alfalfa hay first

cut 96%, second cut 39%. Clo-Tim first cut 85%. Feed from pastures mostly average. Harvest active on cherries, sweet corn, snap beans and tomatoes.

PUERTO RICO: Island average rainfall 1.43 in. Highest weekly total 6.95 in. at La Mudağaguas. Highest 24-hour total 4.10 in. at La Mudağaguas. Temperatures averaged 81° coasts and 74° interior. Extremes: 95 and 54°.

Severe agricultural drought in south and north was greatly eased by heavy rainshowers. These rains provided much needed relief to pastures, young sugarcane and food crops where planting is well behind schedule. However, more rain is needed for complete relief of drought conditions. Interior areas are generally near normal except premature dropping of coffee beans from excess dryness.

SOUTH CAROLINA: Temperatures averaged 3 to 5° below normal. Rainfall much above normal with thundershowers throughout week except northwest. Up to 9 in. during week central, south.

Excessive rain hindered all field activities. Weeds, grasses, insects increasing problem. Cotton condition fair to good, 92% squaring, 95% 1974, 92% average, setting bolls 69%, 67% 1974. Corn good, 87% silked, 95% 1974, 97% average; dough stage 64%, 74% 1974, 62% average. Mature 22%, 10% 1974, 13% average. Tobacco fair to good, 36% harvested, 54% 1974, 40% average. Soybeans fair to good condition. Peaches 58% harvested, 73% 1974, 57% average. Watermelons 65% harvested, 68% 1974, 60% average. Pastures, lespedeza fair to good. Grapes fair to good. Peanuts fair to good.

SOUTH DAKOTA: Temperatures averaged 6 to 9° above normal. High of 109° Highmore on 16th. No significant precipitation, mostly less than 0.10 in.

Hot, dry winds continue to burn small grains and force late seeded grains to ripen prematurely. Spring wheat 26% ripe, normal 37%. Oats 56% ripe, normal 61%. Barley 61% ripe. Spring wheat, oats and barley 5%, 14% and 20% combined, slightly behind 1974 and normal. Winter wheat 87% ripe; 50% combined, 1974 82%, normal 50%. Rye 83% ripe; 14% combined, normal 37%. Flax 90% in or past bloom stage. Soybeans 71% in or past bloom stage, 1974 63%, normal 62%. Corn 29% tasseled, 1974 17%, normal 19%. Second cutting alfalfa 44% harvested. Livestock generally in good condition. Pastures south and east short and drying up.

TENNESSEE: Rainfall widespread late week. Amounts moderate east and midsections, heavy most of west over weekend. Greatest 5.24 in. at Union City. Temperatures averaged 2° below normal, coolest early week.

All crops fair under dry conditions. Soybeans blooming 35%, 19% 1974, 32% average; setting pods over 10%, 7% average. Corn silked 75%, 50% 1974, 69% average; dough stage 35%, 18% 1974, 22% average. Cotton good condition; squared over 90%, 83% 1974, 89% average; setting bolls 50%, 17% 1974, 32% average. Pastures driest since 1971 many farmers moving livestock to market. Soil moisture 73% short, 27% adequate. Fieldwork: 5.5 days suitable.

TEXAS: Heavy rains, mild temperatures over all but northeast. Heavy precipitation began south early week, shifted west, southwest end of week. Normal amounts exceeded by up to 1.50 in. on average, with local flash flooding west and south. Rainfall near normal central, southeast. Below

normal northern Panhandle, northeast. Wheat harvest complete, farmers preparing land for fall seeding. Rains stopped harvest corn, sorghum, rice, caused delays putting up hay. Corn, sorghum, cotton making vigorous growth on High, Low Plains where moisture adequate. Sunflower harvest underway south, south central. Some early peanuts dug south. Cotton in High, Low Plains squaring heavily, early stands beginning to bloom. Insects increased from Low Plains through Blacklands, control measures necessary. Lower Rio Grande Valley, Coastal Bend, fields ready for harvest, heavy rains have caused loss in yield, quality potential and delayed harvest. Sorghum harvest virtually stopped in southern areas. Blacklands fields rapidly approaching maturity, rains, high humidity delaying onset of harvest. High, Low Plains, green bugs at economic levels, control measures being applied. Rice harvest started southeast and along upper Gulf Coast. Major crops percent harvested: Sorghum 1975 22, 1974 14, average 24; corn 1975 1, 1974 1, average 2; peanuts 1975 0, 1974 1, average 0; rice 1975 2, 1974 5, average 0. High Plains: Onion, potato harvest active. Harvest of fresh market and pickling cucumbers underway. Trans-Pecos: Onion harvest continues, cantaloup harvest remains active. North: Harvest of cantaloups, corn, cucumbers, peas, tomatoes active. Watermelons maturing. Sweetpotatoes making good progress. Knox-Haskell: Potato harvest complete. Watermelons and cantaloups maturing. East: Tomatoes, squash, okra being harvested, watermelon harvest in full swing. Central: Watermelon harvest active. San Antonio-Winter Garden Area: Melon harvest rapidly nearing completion. Peach harvest active east and north. Hill country crop diminishing. Pecans continue to show good growth. Citrus trees benefited from rains that fell throughout valley. Ranges furnishing excellent grazing well into summer. High temperatures prevent livestock gains but little or no weight loss showing up. Internal, external parasites increased both hornflies, mosquitoes problem along Upper Gulf Coast, Southeast. Hay baling moving ahead at vigorous pace between rains.

UTAH: Recurring scattered showers and thunderstorm activity. Accumulated amounts generally light to moderate, locally heavy. Average temperatures range 50 below normal to 30° above.

Very little winter wheat ripe, but coming along fast. Harvest expected to start last week in July, most counties. Late spring planted crops behind schedule, but look good. Late fall needed to mature corn, sugarbeets, and potatoes. Sweet cherries light, 30% harvested. Range feed and pasture supplies more than adequate. Last of livestock moved to summer ranges, condition good.

VIRGINIA: Rainfall heavy except light in extreme west and southwest. Ranged from trace to 9.77 in. Temperatures averaged a little below normal. Extremes: 89 and 52°.

Fieldwork at standstill except west and southwest, average 1.2 days suitable. Topsoil moisture 70% surplus, 25% adequate, 5% short. Corn prospects good to excellent except early acreage hit by dry weather. Most corn silked east and southeast, State average 58%. Soybean condition slight gain. Delay small grain harvest may reduce

late soybean planting, water damage, weeds becoming threat. Tobacco slight setback, rainfall excessive much of area. Some loss flue-cured, harvest slow, less than 2%. Wheat standstill with 84% harvested. Peanuts improved; weed disease and insect problems. Poor haying week, considerable cut hay lost. Pastures improved. Potato harvest slow. Tomato harvest slow, excessive moisture causing cracking, rotting and harvest problems. Peach harvest increased. Summer apple picking continued.

WASHINGTON: West: Cool and dry, temperatures and precipitation near normal.

Strawberry harvest nearing completion. Raspberry harvest well underway. Green pea harvest active. Baling hay active. East: Temperatures ranged from 1° above to 1° below normal. Precipitation 0 to 0.60 in.

Winter wheat harvest picking up. Winter barley harvest continued. Second cutting alfalfa hay underway. Green pea harvest continued. Potatoes growing normally. Onion harvest continued, excellent quality. Picking peaches and apricots. Other activities: Hand-thinning, tying, propping apple, pear trees, cultivation and irrigation.

WEST VIRGINIA: Temperatures below normal northwest and southwest. Precipitation below normal north central and northwest. Tornado-like winds and hail caused damage to fruit and crops in eastern panhandle.

Favorable work days 4.0. Soil moisture 14% short, 67% adequate and 19% surplus. Main activities haymaking and clipping pasture. First cutting hay nearing completion, second cutting 10% complete. Barley 70% harvested, oats 16% harvested. Corn in good condition. Pasture and livestock in good condition.

WISCONSIN: Temperatures averaged 4° above normal. Rainfall spotty and generally light except for isolated heavy thunderstorms southeast.

Crops need moisture after high temperatures and hot winds depleted supplies. Corn curling on hills and light soils. Average height of corn 60 in., 1974 41 in., normal 42 in. early corn in silk, needs rain for pollination. Winter wheat and rye being harvested, good yields and straw content. Barley, spring wheat, oats ripening fast in hot weather. First crop haying finishing up, second crop 10% harvested. Pasture conditions falling. Soybeans look good but need rain. Tobacco growing fast. Cherry harvest started. Cranberries coming well. Sweet corn appearing on market. Pea crop deteriorated fast. Snap bean harvest in full swing, beet harvest started. Soil moisture supplies 45% short, 55% adequate.

WYOMING: Temperature departures warmer than normal except Lower Platte Drainage. Rainfall quite erratic. Maximum temperatures mostly middle 80's to middle 90's.

Crop progress normal. Topsoil moisture mostly adequate. Winter wheat 75% turned, 30% mature, combining started. Percent headed: Spring wheat 80%, barley 80%, oats 75%. Corn tasseling. Dry beans 15% in bloom. Hay harvested: Alfalfa 75%, other hay 25%. Ranges, pastures good condition. Livestock movement to summer range nearly completed. Principal activities: Irrigating, haying, weed control.

## WORLD AGRICULTURE WEATHER SUMMARY

**HIGHLIGHTS:** Extensive flooding in Eastern Europe and in the Red River Valley of the northern United States damaged crops. Rains improved crop prospects in the USSR west of Volga but drought persists in much of the New Lands. Major crop areas of Australia received June-early July rains. The summer monsoons of Asia are performing well, particularly in India. Prolonged drought in both the Caribbean and North Sea regions has hurt crops but mid-July rains are bringing some relief to the latter. A severe freeze damaged coffee and other crops in Brazil.

**WEATHER:** June weather in the USSR was mostly hot and dry east of the Volga, extending through the New Lands. To the west and northwest precipitation picked up considerably...running much above normal. Except for the Ukraine, temperatures were more seasonal in western USSR. Other Eastern European countries, except East Germany, Poland, and Bulgaria, were bothered by excessive rain and some damaging floods in late June and early July. On the other hand, Western Europe was a bit cooler than usual and very dry in the North Sea region, while rainfall tended to be above normal in much of the south. For the most part this weather pattern for Europe and Asiatic USSR held through the first half of July. Rains, however, brought some relief in mid-July to the North Sea region.

Summer rains have been good in most of sub-Saharan West Africa. Gambia and Senegal did poorly in June but appear to be fairing better in July. Rainfall also increased in July in drought-plagued Ethiopia.

In the Western Hemisphere, severe moisture shortages persist in much of the Caribbean, including parts of Central America. Excessive rain has caused problems in many places but particularly in the Red River Valley of the United States. Canada's weather has been mostly favorable. Rainfall has increased in many parts of Mexico and Central America. June was another in a series of wet months in Argentina. Northeast Brazil was also wet but elsewhere in South America precipitation tended to be below normal. The important central portion of Chile, however, has received beneficial rain in July.

Drought eased in major crop areas of Australia but some critically dry areas still remain. Rains have been frequent in New Zealand.

In Asia, India's southwest monsoon is behaving well this year and most of the country has received well above normal levels of precipitation. Rainfall has been seasonally heavy in Bangladesh. The summer monsoon now also seems to be performing reasonably well in north and northeast China and has relieved dry conditions there.

**GRAIN:** Wet weather and flooding delayed harvest of small grains in Turkey and many Eastern European

countries. Production losses occurred throughout the Danube Basin, where coarse grains were also damaged. In contrast, dry weather lowered prospects in East Germany and much of the North Sea region, and drought continued to take its toll of USSR spring wheat. Weather has been mostly favorable for the USSR winter wheat harvest although the heat reduced yield prospects in much of the Ukraine and Russian SFSR and rains caused delays in the west.

In North America small grain harvest is well along after an erratic beginning and spring grains are generally doing nicely except in flooded areas.

In China winter wheat was harvested in the south before heavy rains could damage the crop and in the dry north irrigation pulled most of the crop through. Only the Huai area had adequate spring rainfall. June-July rains were beneficial to spring wheat in the northeast but perhaps too late for bumper yields. Excessive rains south of the Yangtze would have delayed maturity of early rice and thus delayed planting of the late crop.

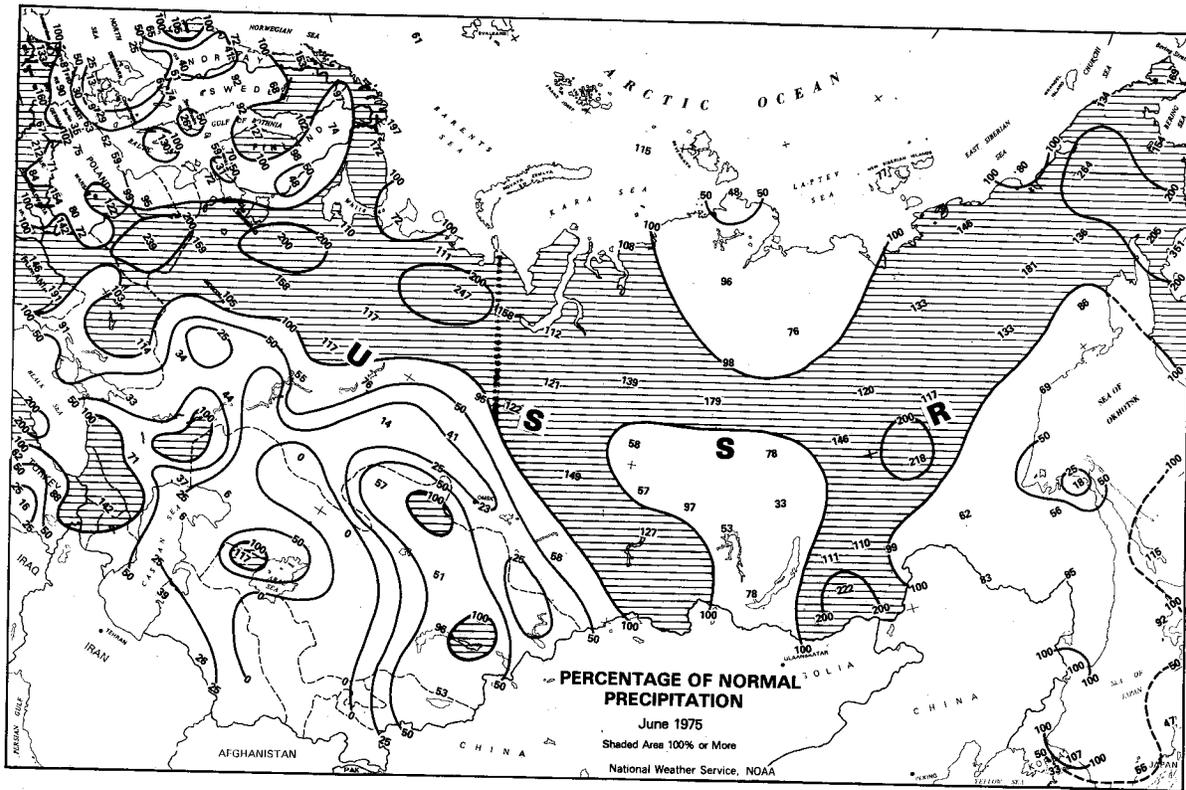
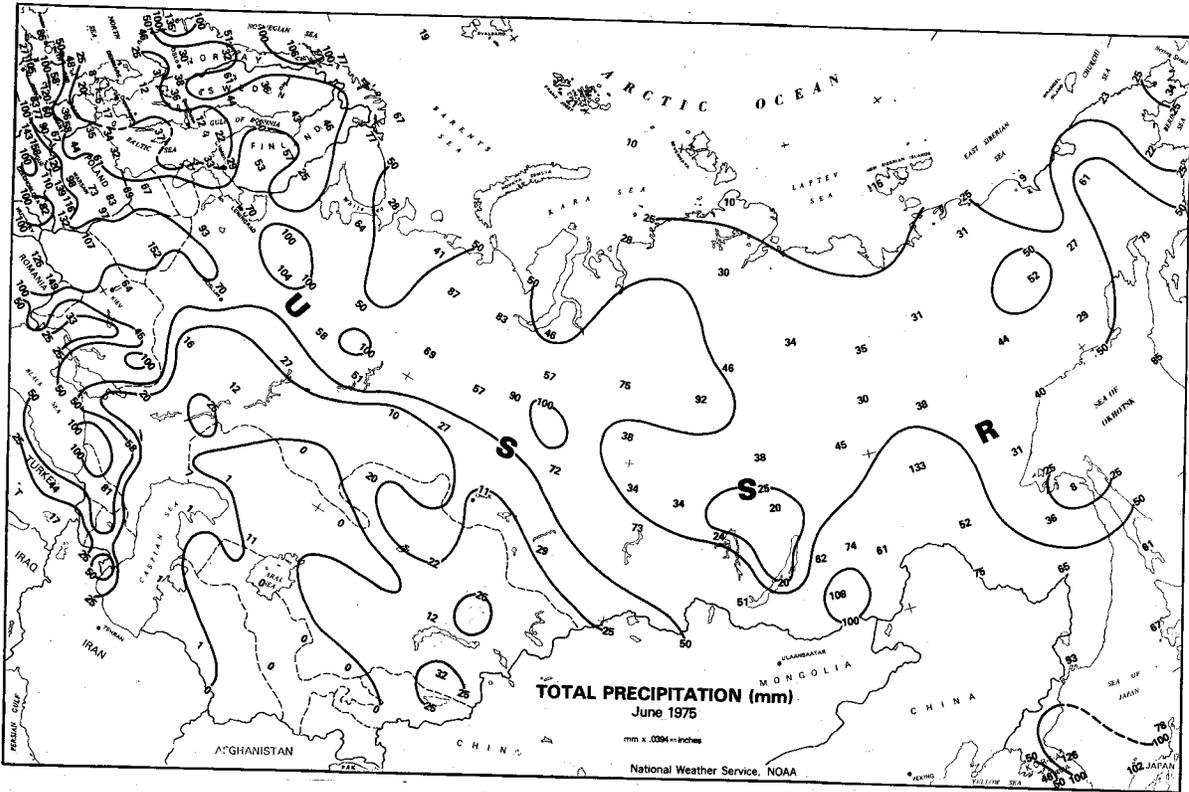
Rice and coarse grain prospects are favorable for India and Thailand and many other Asian countries. Summer monsoons brought good moisture to start these crops and sustain early growth, often with an increase in area.

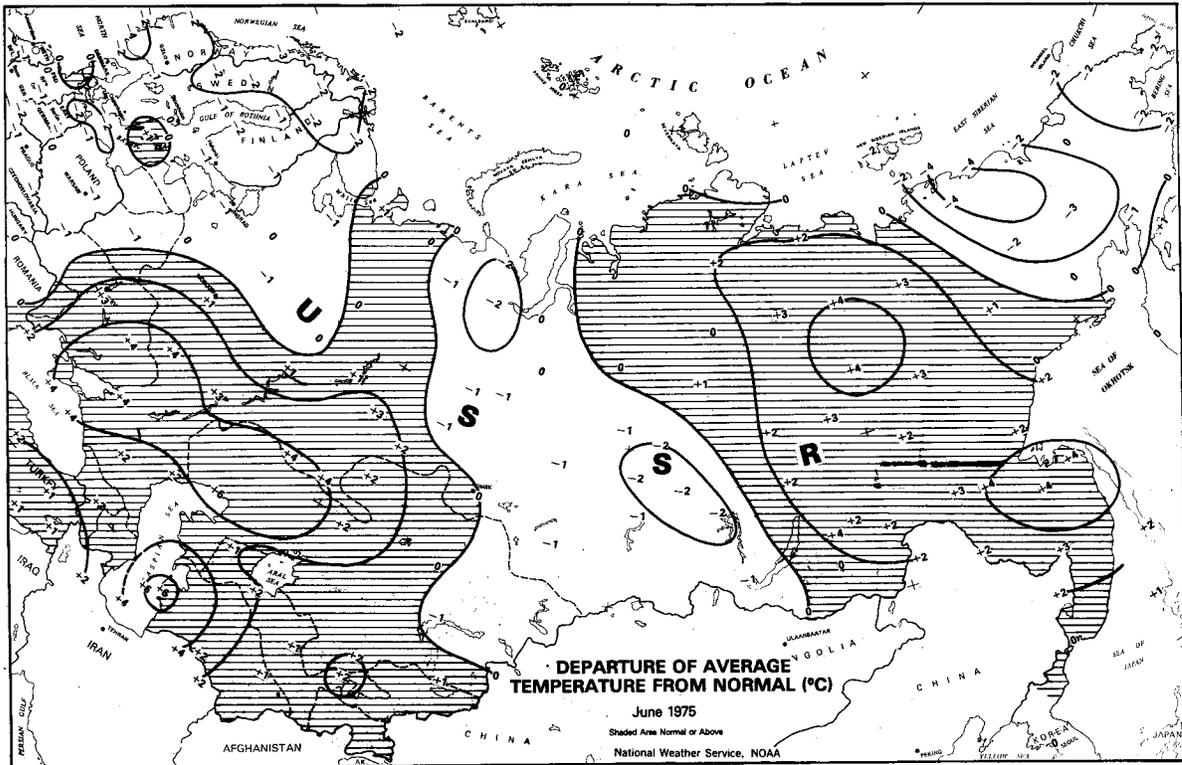
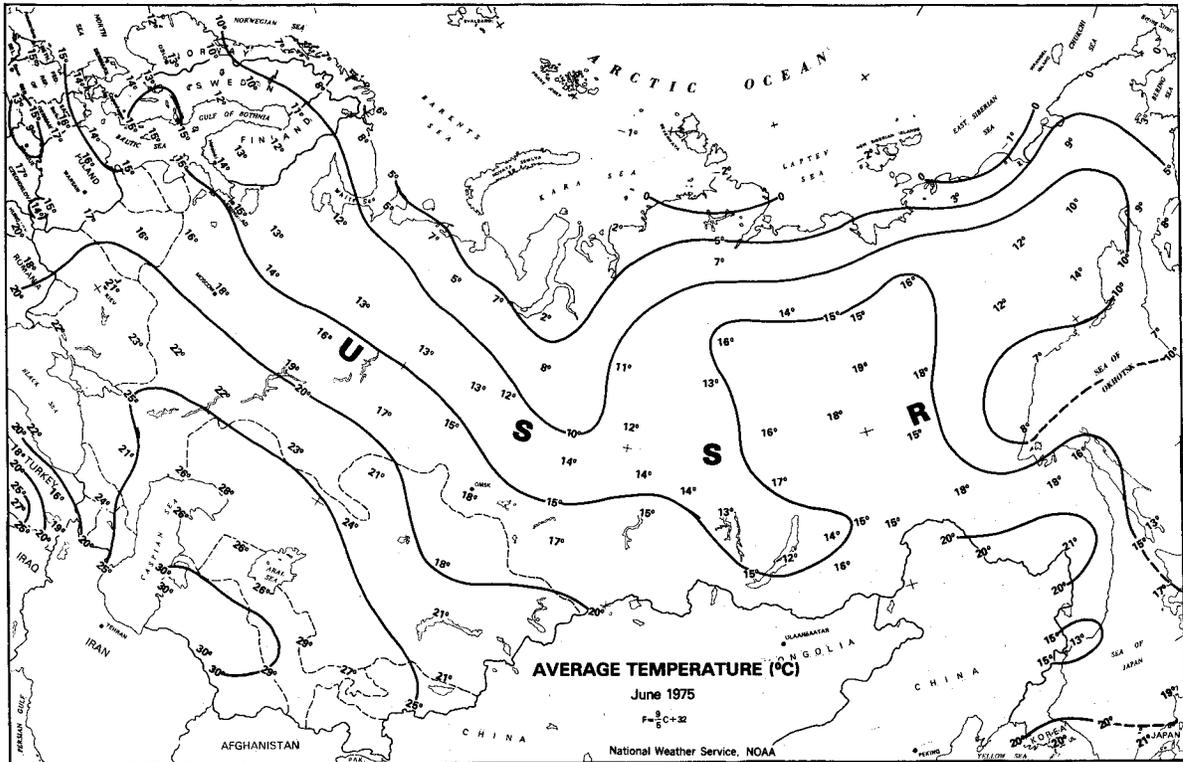
In the Southern Hemisphere soil moisture has improved enough in Australia to complete most of the small grain planting. The important Murray River Valley still has little soil moisture reserve. Conditions in Argentina and Brazil were excellent for start of winter wheat.

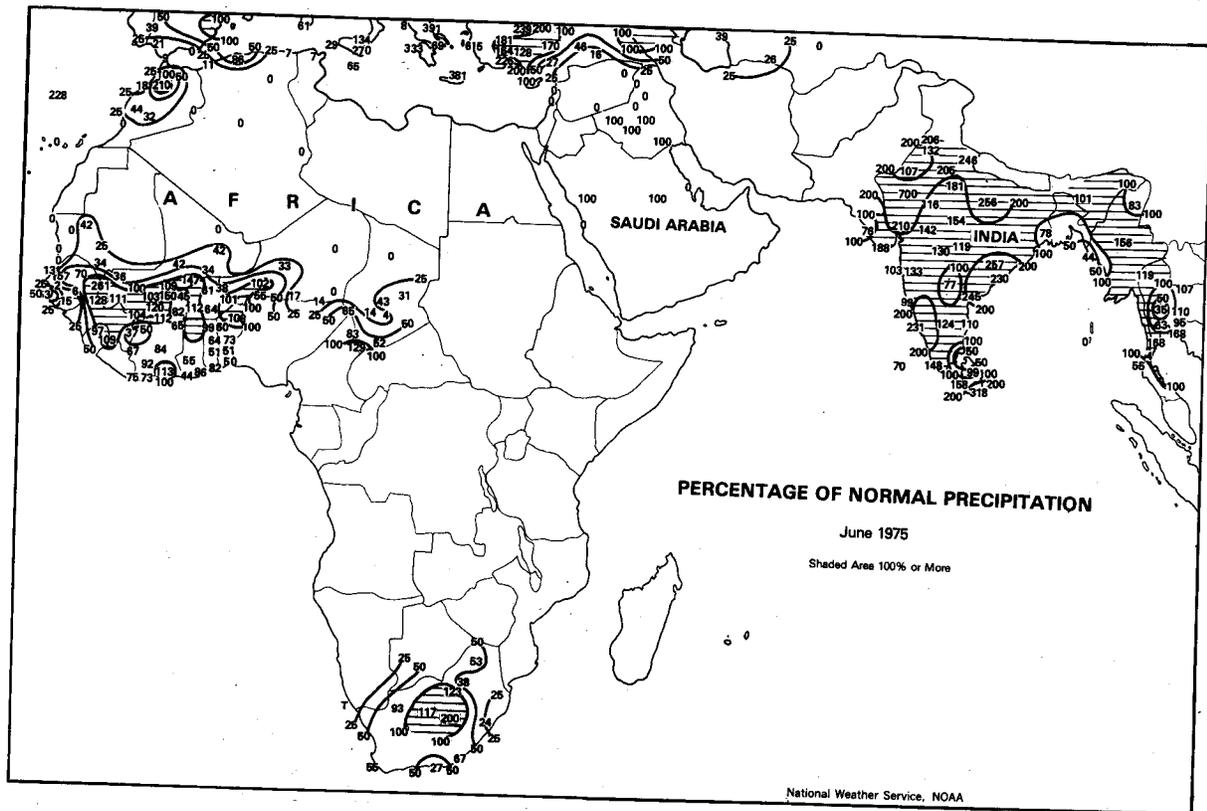
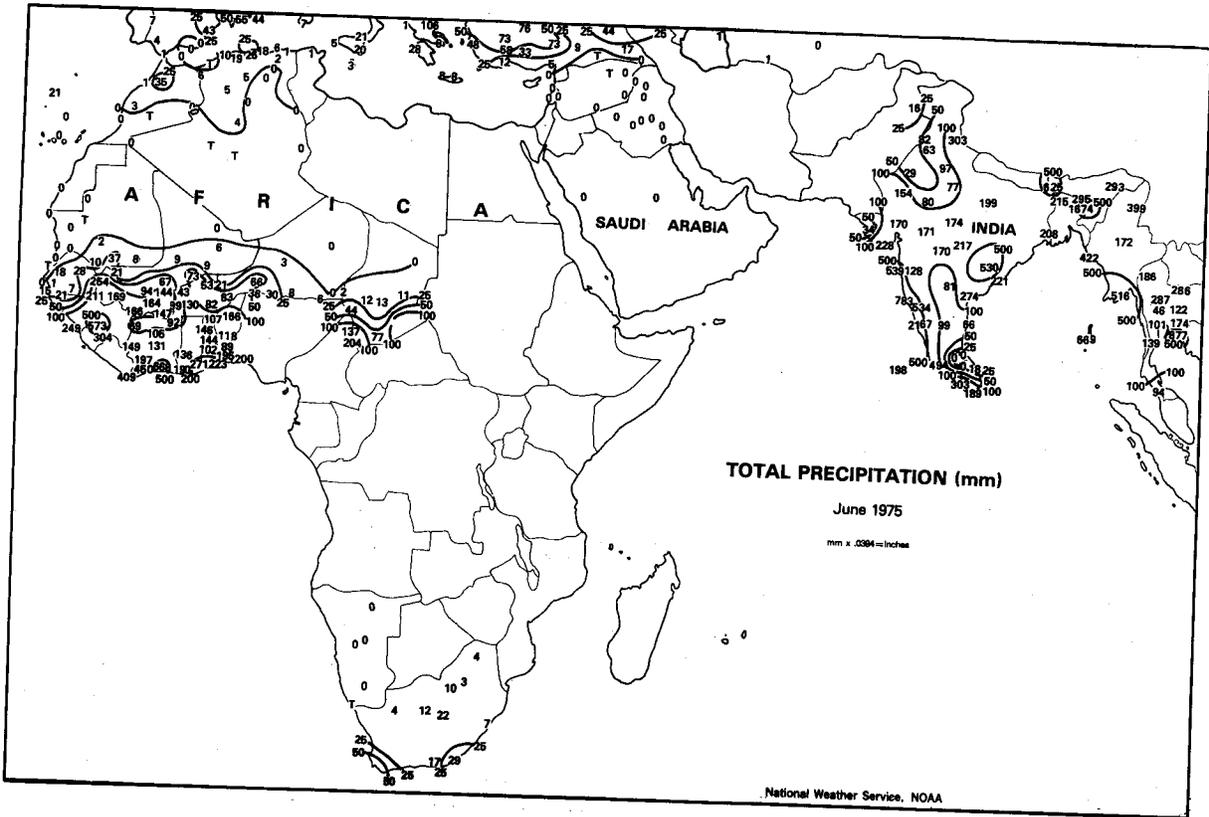
**SUGAR:** The Caribbean drought continues to damage cane, and dry weather threatens beet prospects in the North Sea area. The floods of the Red River and Danube reduced or damaged much beet acreage. Elsewhere there appear to be no major problems.

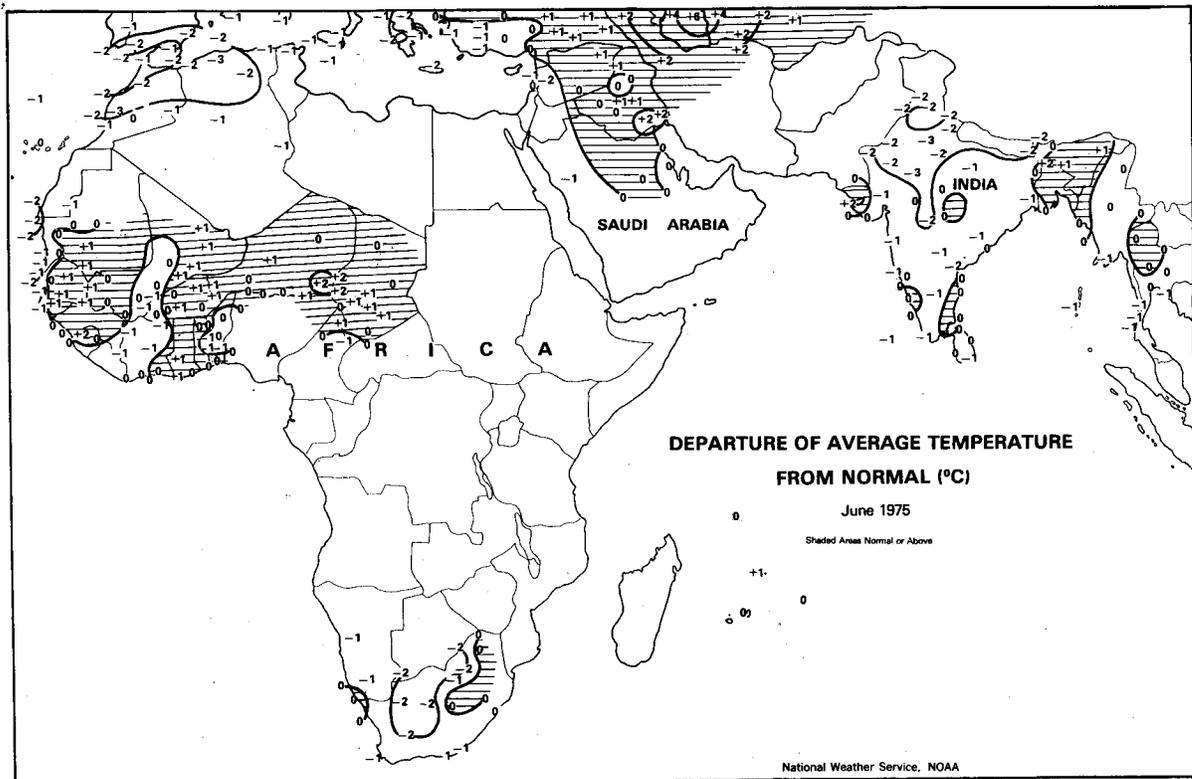
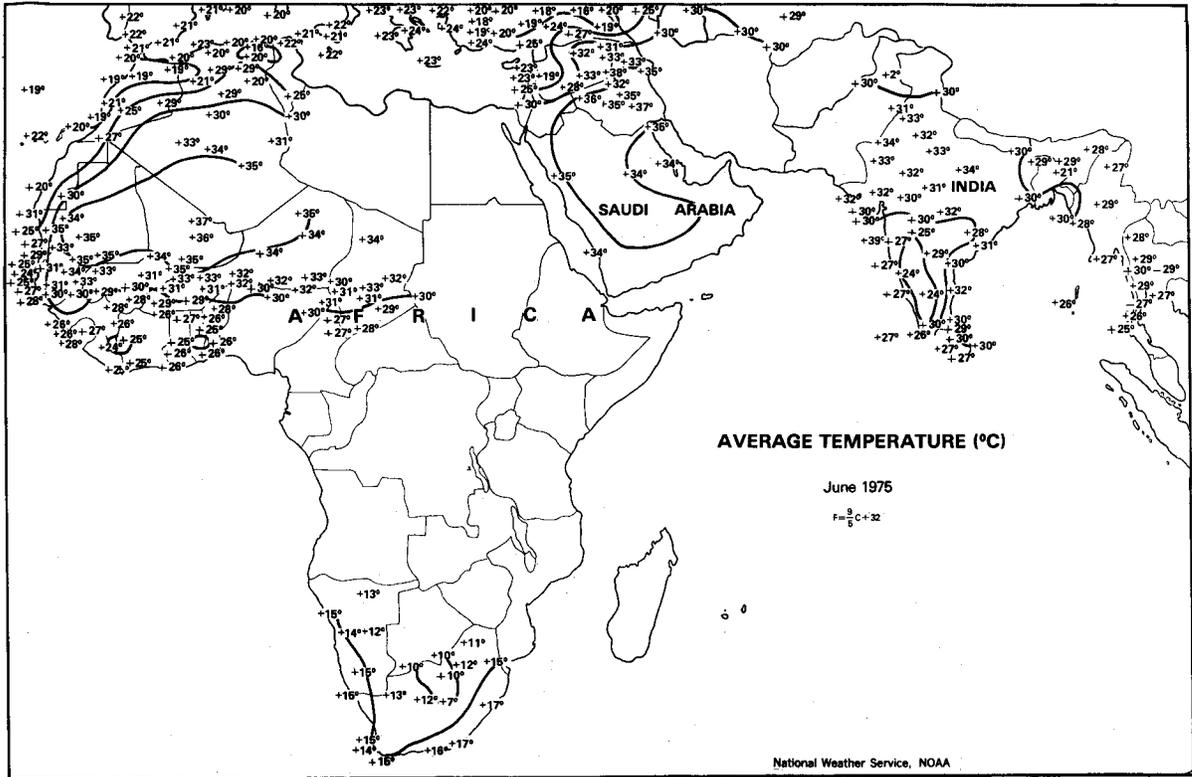
**OILSEEDS:** These were also victims of the flooded areas but in general, soybeans, peanuts, flax, rape, sunflowers, and other oilseeds are doing nicely in most producing areas. Northern Nigeria has had heavy insect damage to peanuts. The PRC official press claimed a bumper harvest of rape in most of China's major producing Provinces.

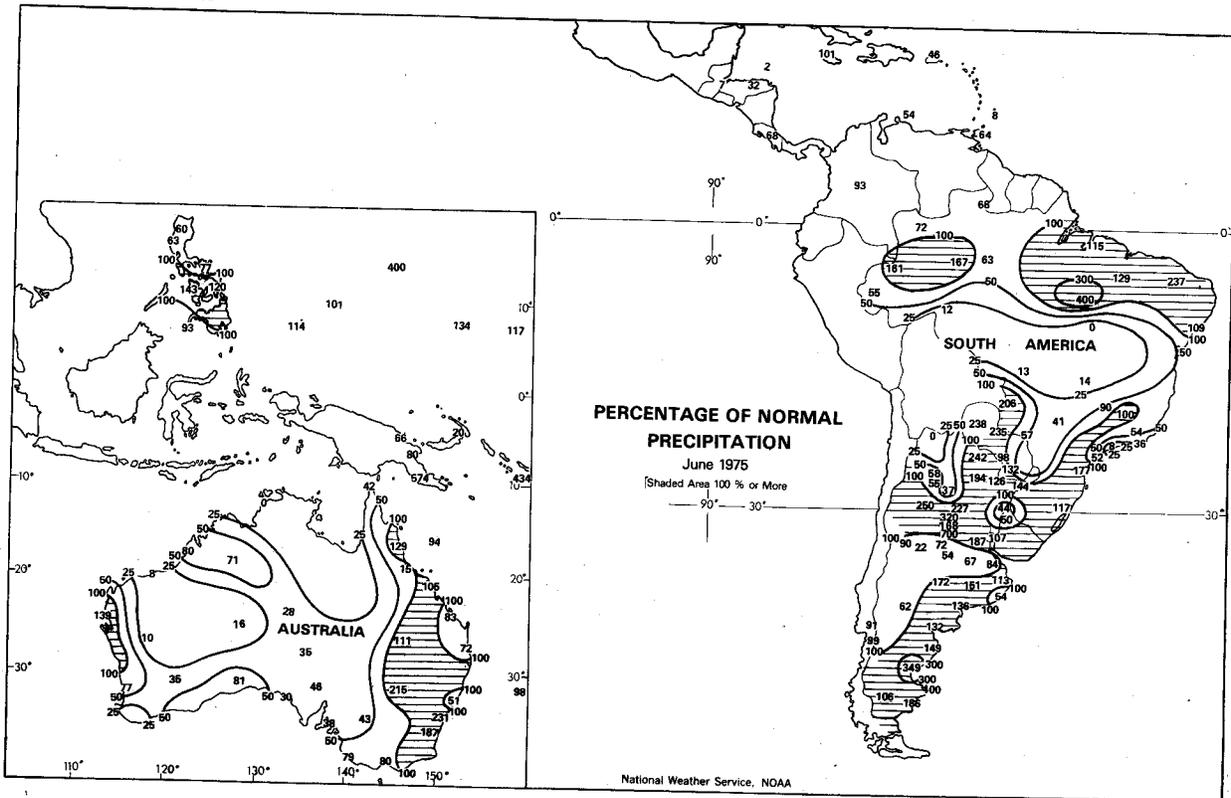
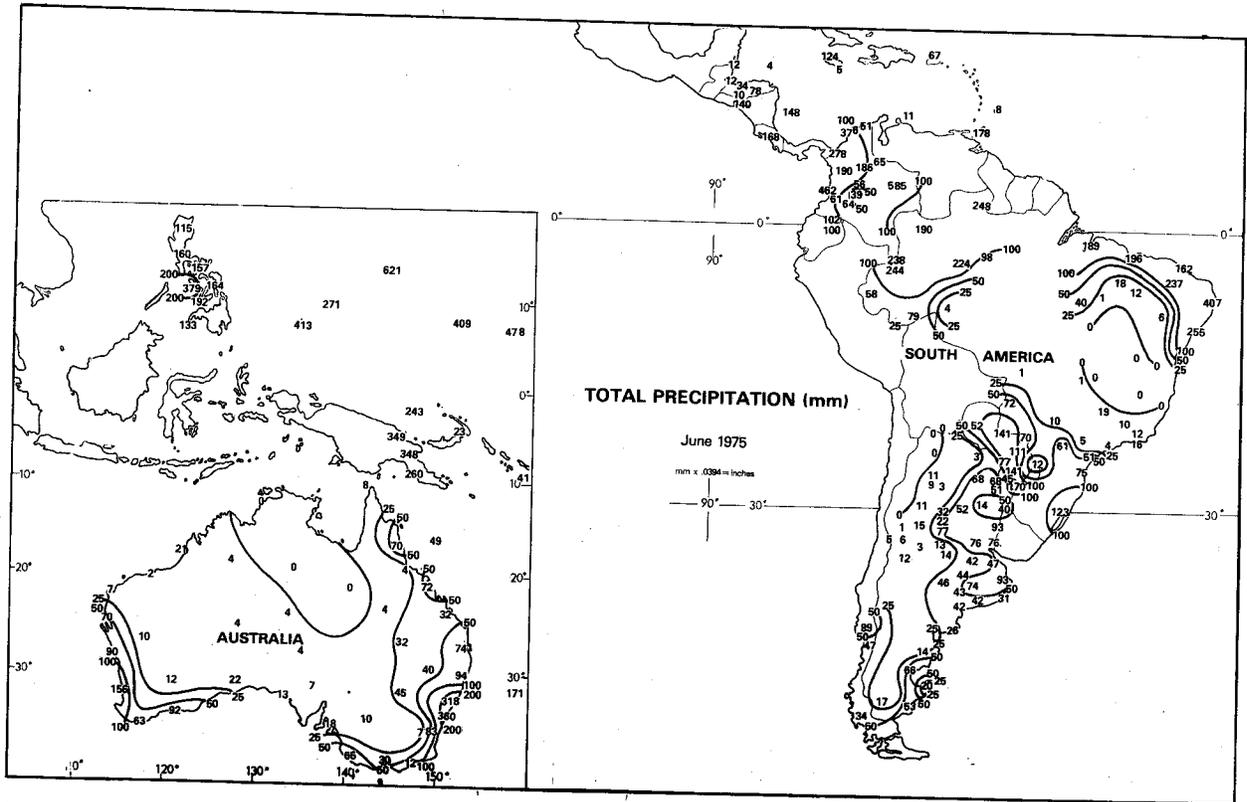
**OTHER:** June storms damaged fruits and vegetables in parts of Spain. The first 6 months of 1975, perhaps the wettest in Saudi Arabia in 60 years, provided excellent pasture conditions. Pastures declined from dry weather in much of the Caribbean and the North Sea countries; milk production has fallen. Frosts during July 17-18 damaged coffee in Brazil. Excessive rain damaged some cotton in the Punjab of Pakistan and caused concern in Tadzhik, USSR. Tropical storms increased insect problems in Sonora and Sinaloa, Mexico.

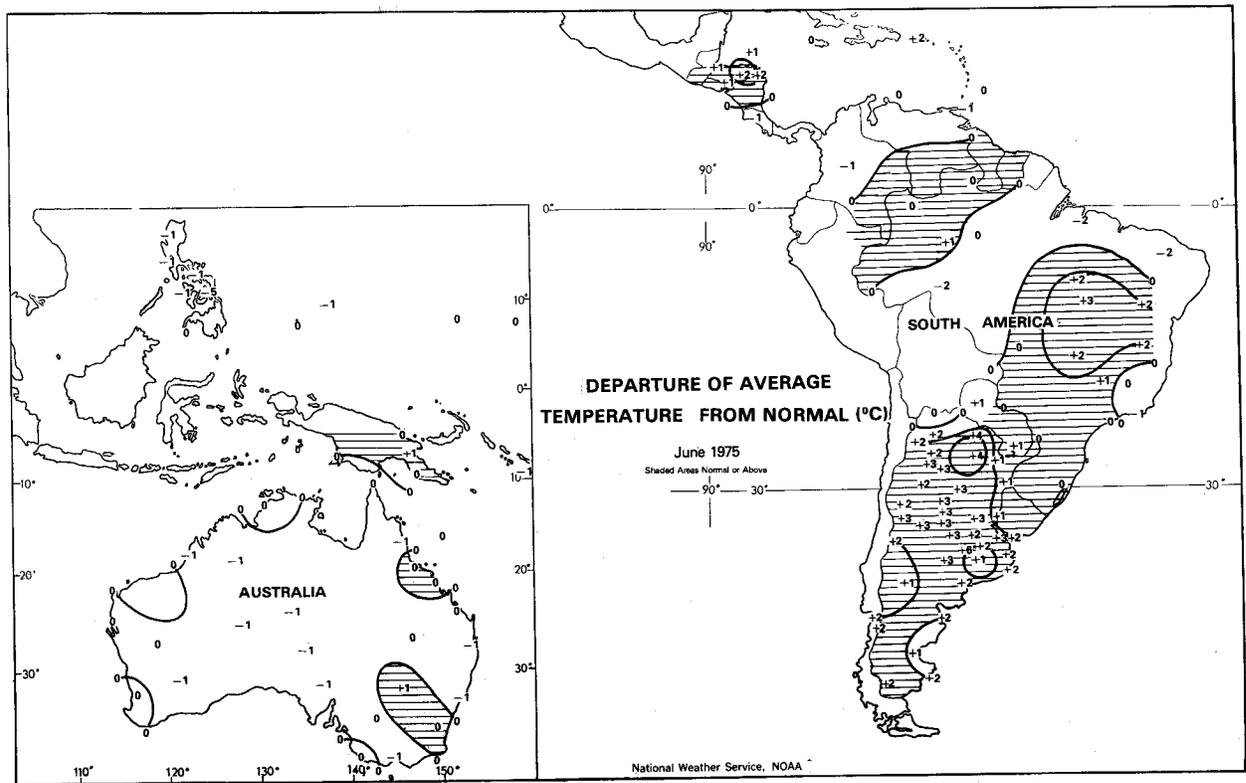
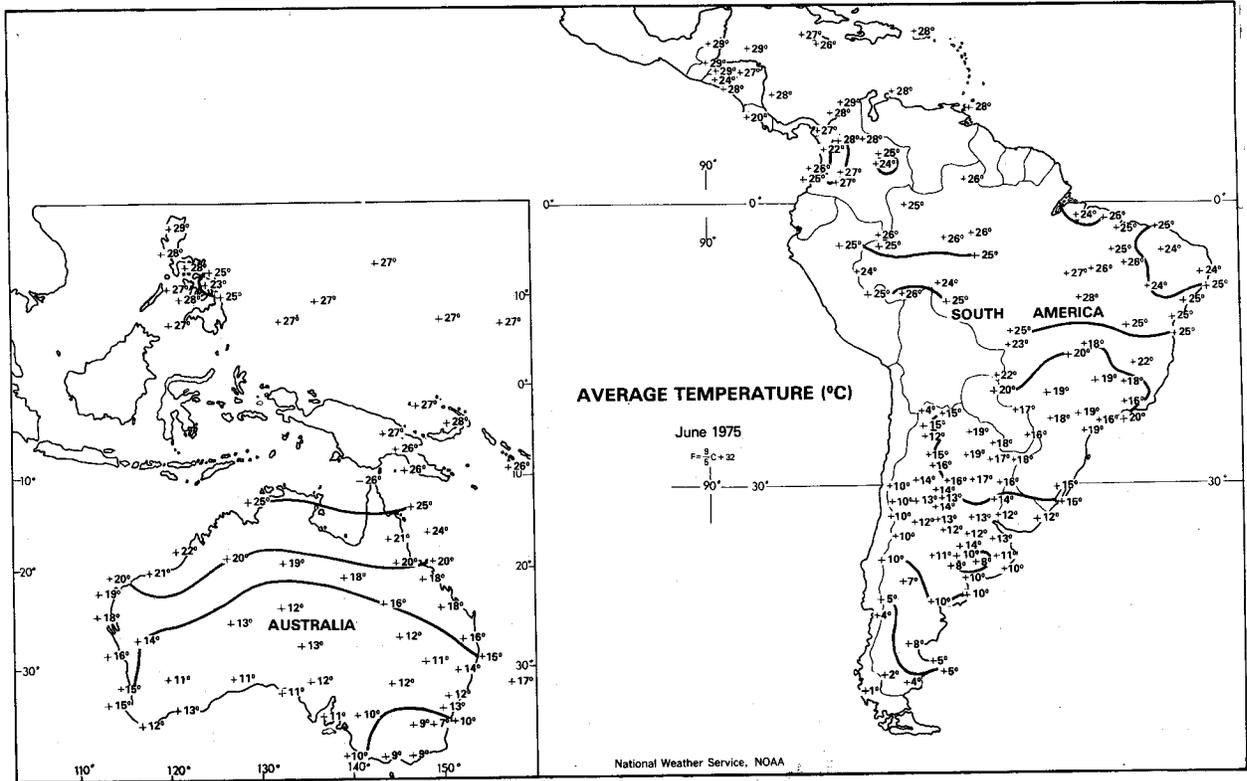


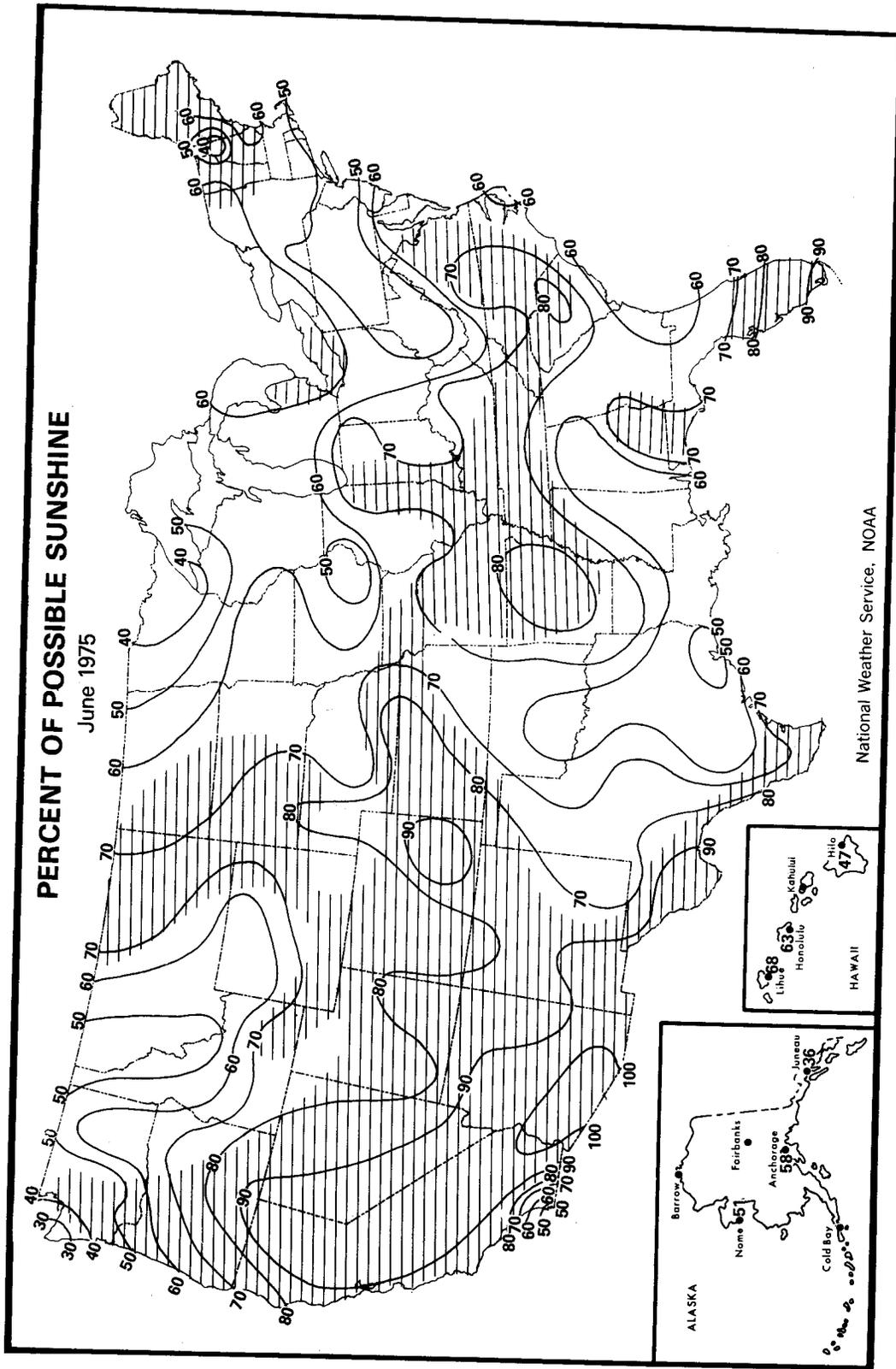


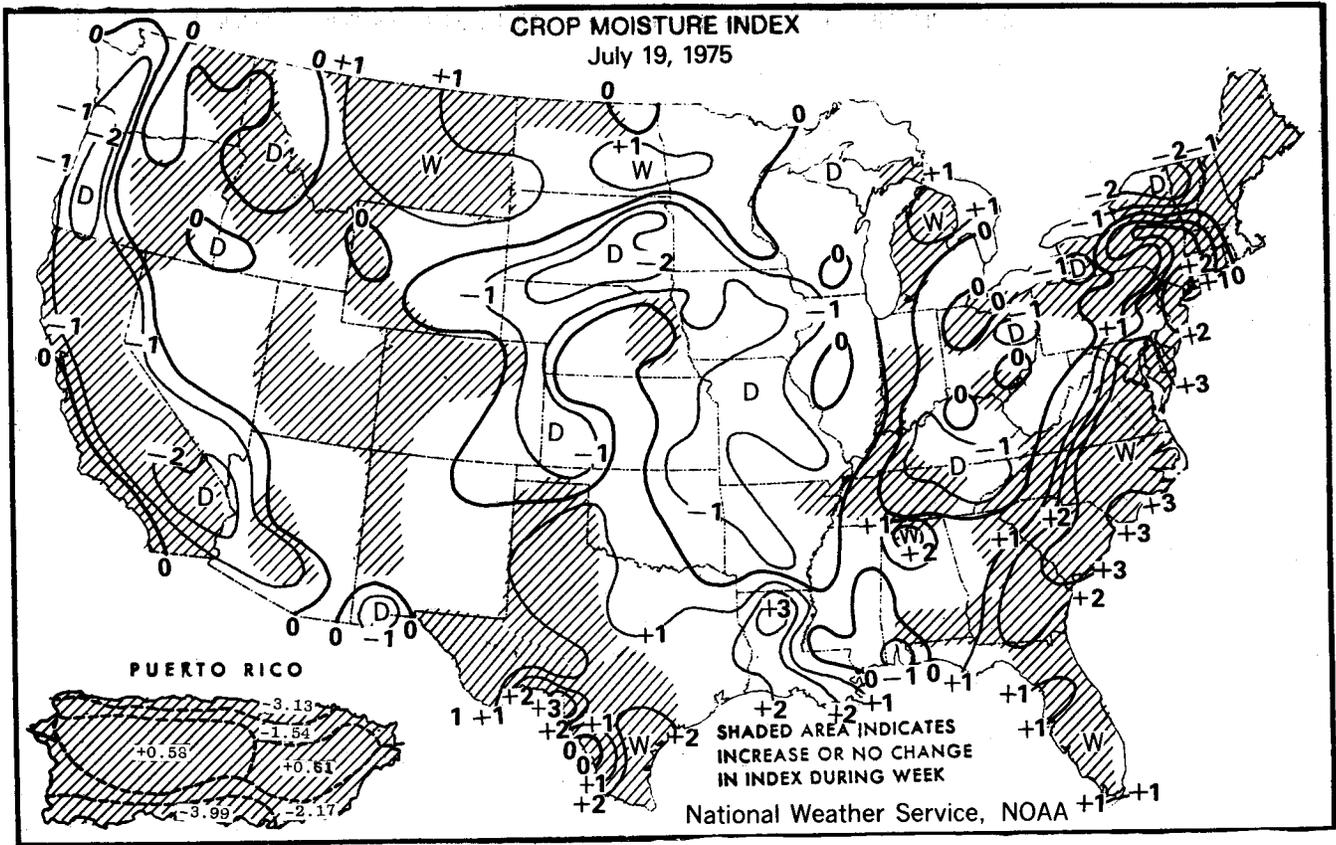












The map above gives a general picture of how wet or dry the nation was last week. The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas. Previous weekly computations of soil moisture account for the effect of prior weather.

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

UNSHADED AREAS: INDEX DECREASED

ABOVE	3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0 to	3.0	MORE DRY WEATHER NEEDED, WORK DELAYED
1.0 to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 to	1.0	FAVORABLE FOR 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 RUINED

areas dried last week. The centers of wet or dry areas are marked: W for wet; D for dry. Use the legend to interpret.

Local variations caused by isolated rain or by local differences are not shown. Any interpretation must consider the type of agriculture and the stage of crop development.

SHADED AREA: INDEX INCREASED OR DID NOT CHANGE

ABOVE	3.0	EXCESSIVELY WET SOME FIELDS FLOODED
2.0 to	3.0	TOO WET, SOME STANDING WATER
1.0 to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to	1.0	MOISTURE ADEQUATE FOR PRESENT 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
-3.0 to	-4.0	DROUGHT CONTINUES RAIN URGENTLY NEEDED
BELOW	-4.0	NOT ENOUGH RAIN STILL EXTREMELY DRY



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## 1975 HARVESTING PROGRESS

Percent of Acreage Harvested  
(As of July 20)

### WINTER WHEAT

	Average	1974	1975
Colo.	79	86	45
Ill.	1/	1/	1/
Ind.	75	94	95
Kans.	95	100	100
Mo.	1/	1/	1/
Neb.	70	95	70
Ohio	80	90	85
Okla.	100	100	100
Ore.	2/	2/	5
S. Dak.	50	82	50
Tex.	100	100	100
U. S.	73	78	74

1/Virtually complete  
2/Not available

