

# WEEKLY WEATHER AND CROP BULLETIN

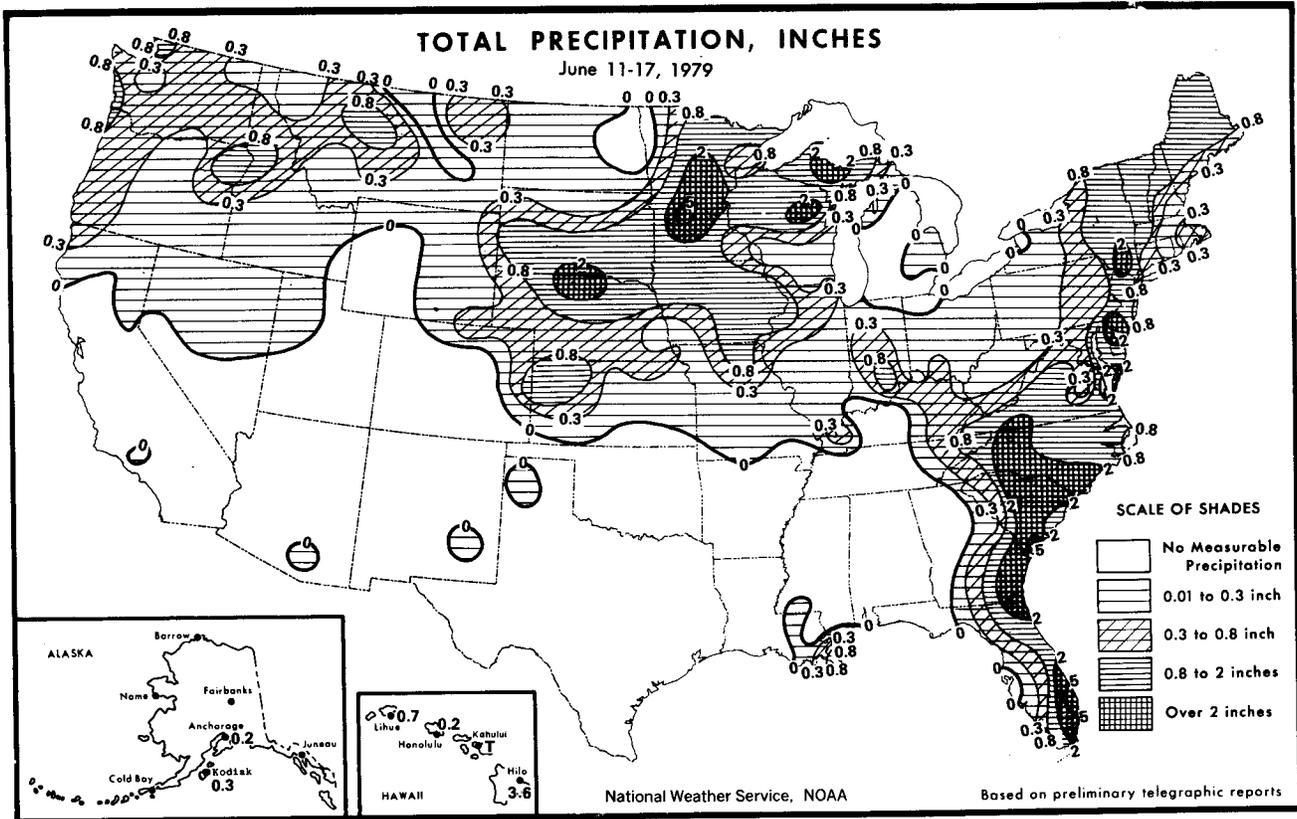
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June 19, 1979



## National Weather Summary

June 11 - 17

**HIGHLIGHTS:** Cool air moved into the Nation's north central area heading rapidly toward the South and Southeast, where many record low temperatures were set. Record high readings baked southern California. The warm air trekked to the northern Plains, where the mercury surged past 100°.

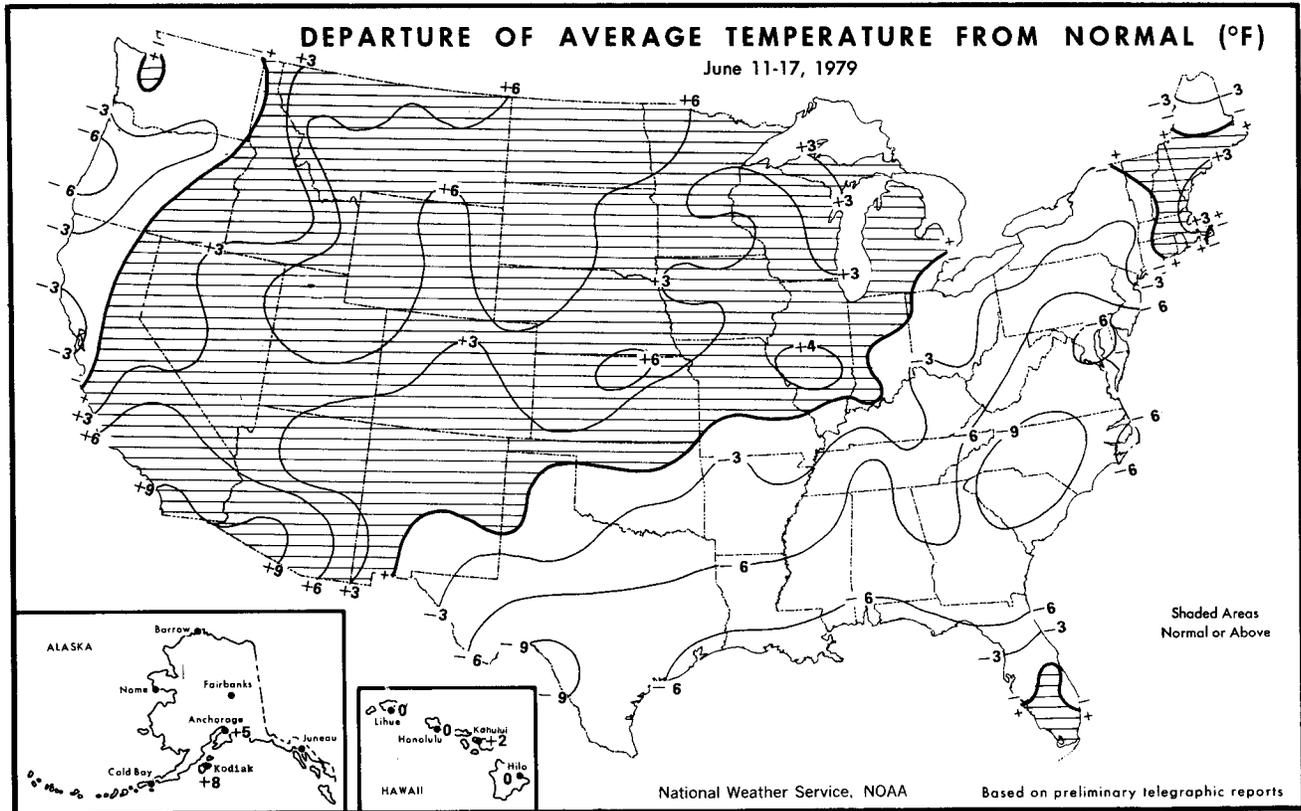
Showers and thunderstorms dampened the Nation from the Pacific Northwest into the northern Plains and Midwest. Numerous reports of heavy hail and tornadoes dotted the country from the northern Rockies to the Great Lakes. By week's end, rain, sometimes heavy, edged up the Atlantic Seaboard.

On Monday, a cold front stretched from the East Coast to the Gulf of Mexico triggering rain. Some section of southeastern Virginia scored more than 4 inches; Savannah, eastern Georgia, and Philadelphia both received more than an inch.

Temperatures plummeted in the Nation's south central area; a sampling of new records showed 49° at St. Joseph, northwestern Missouri, El Paso's 48°, and 55° at Waco, central Texas.

By contrast, the heat wave persisted in southern California. San Diego, at 98°, topped its 1877 mark by six. Los Angeles crushed the 1896 high reading by ten with 105°. Bakersfield, at 109°, tallied a record.

Showers lingered over New England before moving out to sea on Tuesday; however, by day's end, thunderstorms developed over the Midwest and southern Florida, but rain totals remained under an inch. Iowa and Missouri were especially hard hit when hail pounded parts of both States. Three tornadoes touched down in Iowa. High pressure dominated most of the rest of the country bringing dry weather.



More than two dozen record low temperatures spanned the Nation from the Great Lakes through Pennsylvania and southwestward from the Appalachians to Texas. Some new marks included Philadelphia's 49°, Cleveland's 43°, 52° at Meridian, east central Mississippi, and in Texas, Abilene's 53° and San Antonio's record-tying 60°.

Southern California's record-breaking heat continued; new marks became San Diego's 88° and 100° at Los Angeles. Further north, Havre, north central Montana, hit a record 98°.

Few storms cropped up on Wednesday; some did develop over Florida, where Orlando measured a half-inch, and an evening thunderstorm poured more than an inch near Louisville, Ky.

Cold, Canadian air had pushed to the Deep South and East during the night dropping temperatures to record levels by morning. Among the 18 new marks were 47° at Atlantic City, N.J., 52° at Columbia, S.C., 63° at Apalachicola, northern Florida, Baton Rouge's 60°, and Fort Worth's 59°. Just before midnight, New Orleans dipped to a record 64°.

California failed to reach new high readings, but the Dakotas took over. In North Dakota, Bismarck posted a record-equaling 95°, and up in the northwest corner, Williston, at 103°, set its highest temperature for so early in the season. Rapid City, western South Dakota, also reached 103°.

On Thursday, most of the Nation remained dry. Some storms rolled over Florida dumping more than 4 inches on Vero Beach and 3 inches on West Palm Beach. Other storms formed over the Dakotas and upper Mississippi Valley, but amounts stayed below an inch.

Morning readings again chilled the South; record low temperatures in the sixties were noted in Baton Rouge, New Orleans, and Austin, Tex. Concord, N.H., at 33°, tied its record low mark.

Meantime, temperatures soared in the northern half of the Plains and upper Midwest. Fargo, N. Dak., beat its 1883 high mark by three with 95°. In Nebraska, Omaha managed 98° and Lincoln, 100°. St. Cloud, central Minnesota, at 95°, topped its 1897 mark by seven, and Sioux City, western Iowa, notched a record 97°.

Isolated thunderstorms developed over Florida and from the upper Midwest to the Rockies on Friday.

Eastern Florida received heavy downpours; West Palm Beach accumulated additional rain for a two-day total over 5 inches, and Jacksonville got more than 4 inches. Less than an inch dampened the midlands, but hail and high winds accompanied the storms.

For the fourth consecutive day, Baton Rouge opened the record books to a new low temperature ---this time 62°. Record-tying low readings showed 52° at Norfolk, southeastern Virginia, and 48° at Raleigh, N.C.

On Saturday, extremely unsettled weather covered an area from the northern half of the Rockies to the western Great Lakes. Heavy rains, hail, and 18 tornadoes struck the region. Two-inch rains were common; Paynesville, Minn., near St. Cloud, gathered 5 inches.

A low pressure system set off heavy storms in the South Atlantic States; more than 5 inches fell near Beaufort, southeastern South Carolina. Two to 3 inches of rain soaked many other stations.

Meridian, Miss., set a low temperature record of 60°.

A warm front extended from a low pressure system over Virginia pushing rain from the Middle Atlantic States to New England on Sunday. One-half to one and one-half inches covered the Washington, D.C., Baltimore, and New York City vicinities.

(continued on page 23)



## National Agricultural Summary

June 11 - 17

**HIGHLIGHTS:** Above-normal temperatures in the north central States improved crop growth and development. In the West, high temperatures dried ranges and increased fire hazards to grasslands. Rains dampened the western north central States and the Atlantic Coast States; other areas remained dry. Soil moisture generally rated short to adequate, with the only surpluses showing where rains fell during the past week. Most areas of the Nation had 5 to 7 days available for fieldwork. Winter wheat showed some dry stress in the northern Plains and the Pacific Northwest. Coloring just got underway in Nebraska. Corn rated good for the most part; growth generally exceeded last year but fell short of the average. Soybean planting advanced to 88%, surpassing 1978's 86% and the 85% average. Cotton planting reached 98%, equaling last year but one point below the average. Grain sorghum seeding reached 85%, the same as last year and 2 points below the average. Arkansas and Mississippi had a few acres of rice remaining to seed. Pastures generally rated good, although winds and low soil moisture dried western rangelands. Peaches sized well with adequate soil moisture across the South. Vegetable harvests in southern areas declined seasonally and were just starting in northern areas. Fuel supplies tightened during the past week. LP gas rated 89% adequate, slightly less than the previous week. Diesel fuel scored 61% adequate and 35% tight. Gasoline supplies rated 72% adequate and 26% tight. Shortages of trucks to carry produce and fruit to market developed in West.

**SMALL GRAINS:** Winter wheat turned yellow as far north as Nebraska. Dry soils stressed winter wheat in the northern Great Plains and the Pacific Northwest, although weekend rains improved conditions in Washington. Harvesting of winter wheat moved well along in the South and ranged from 25% in North Carolina to 82% in Louisiana. On the Great Plains, harvest extended into a few early Kansas fields. In Texas, drying conditions helped the wheat harvest which stood at 23%, short of 30% last year and less than half the 49% average. Oklahoma harvest reached 10%, well behind the 30% last year and the 40% average. California harvest stood at 27%.

Most spring grains emerged in major production areas, although dry condition caused some spotty stands.

**CORN:** Corn generally rated good throughout the Nation. Late planting continued in northern areas. In the eastern Corn Belt, average corn growth ranged from 8 inches in Wisconsin to 14 inches in Illinois. This growth generally exceeded last year but fell short of the average. In the western Corn Belt, plant growth reached 6 inches, lagging both last year and the average. In the South, silking ranged from 25 to 73%.

**SOYBEANS:** Soybean planting advanced to 88%, a 12-point increase for the week. Last year progress stood at 86% and on the average 85%. In the Southeast, planting was on schedule at 82%, one point short of last year and average. In the eastern north central States, seeding reached 97%, 9 points ahead of both last year and the average. In the western north central States, planting advanced to 94%, surpassing 1978's 89% and the 92%

average. Planting continued to lag in the Mississippi Delta area holding the progress in the south central States to 73%, short of the 80% last year and the 76% average. The soybean crop rated fair to good throughout the Nation.

**COTTON:** Cotton planting reached 98%, equaling last year and one point less than the average. All States completed planting except Texas, at 93%, which lagged recent years and Oklahoma, at 95%, which surpassed recent years. Squaring was well advanced in the Southeast and ranged from 61 to 79%. Squaring ranged from 12 to 17% in the south central States. In the West, Arizona reported 50% of the acreage squaring and California 20%. The crop generally rated mostly fair to good.

**OTHER CROPS:** Grain sorghum seeding advanced to 85%--the same as last year and 2 points less than the average. In Texas, 37% of the acreage headed, and 17% began turning color.

Rice seeding was virtually done with all States complete except Arkansas at 95% and Mississippi at 99%. Texas reported 1% of the crop headed.

Peanut planting neared completion in the Southeast and 69% in Texas, short of recent years. Bloom was well-advanced in Georgia at 73%, and pegging reached 30%. Pegging stood at 10% in Alabama.

Tobacco planting was practically complete in major States. South Carolina reported some fertilizer contamination and disease problems. Hornworms infested some Virginia stands. Harvest got underway in Georgia and stood at 9% complete.

**FRUITS & NUTS:** Apple growers began harvesting early varieties in the South while thinning and spraying in northern areas. Adequate soil moisture helped peaches reach good size across the South as harvest advanced to 3% in Georgia, far behind recent years; 8% in North Carolina, close to recent years; and 12% in South Carolina, ahead of last year but short of the average. California growers harvested apricots, cherries, grapes, and nectarines. Pacific Northwest growers began picking sweet cherries.

Florida citrus groves rated excellent in response to adequate soil moisture with an abundance of new growth. Old crop Valencias were holding well. California citrus growers harvested the last grapefruit; lemons showed normal development.

**VEGETABLES:** Southern vegetable production declined seasonally as harvests advanced northward. Vegetable producers in the middle Atlantic States harvested snap beans, cucumbers, peppers, cabbage, and tomatoes. Growers in northern production areas harvested asparagus and some early green peas. Florida vegetable shipments declined 23% from the previous week; only eggplant showed an increase, while okra and watermelon supplies held steady. Texas growers harvested cucumbers, melons, tomatoes, bell peppers, okra, and onions. California growers harvested a wide range of vegetables including asparagus, carrots, melons, celery, lettuce, onions, and tomatoes. High winds damaged some processing tomato stands in the Sacramento Valley.

**PASTURES & LIVESTOCK:** Pastures generally rated good throughout the Nation, although high temperatures and low soil moisture supplies deteriorated western rangelands and created grass fire hazards. The clear weather throughout most of the Nation improved hay harvesting conditions. The grasshopper population increased in South Dakota, Texas, and the Pacific Northwest. Cattle generally rated good to excellent.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 17, 1979

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	71	- 6	0	-. 9	LA. Baton Rouge . . .	74	- 6	0	-. 8	Youngstown . . .	64	- 3	.1	-. 7
Mobile . . .	75	- 5	0	- 1.4	Lake Charles . . .	75	- 6	0	- 1.1	OKLA. Okla. City . . .	75	- 2	T	- 1.0
Montgomery . . .	73	- 6	0	- 1.9	New Orleans . . .	77	- 4	T	- 1.1	Tulsa . . .	78	+ 1	0	- 1.1
ALASKA. Anchorage . . .	58	+ 5	.2	. 0	Shreveport . . .	74	- 6	0	-. 8	OREG. Astoria . . .	54	- 2	.9	+ . 3
Barrow . . .	--	--	--	--	MAINE. Caribou . . .	65	- 6	1.1	+ . 3	Burns . . .	58	0	.1	- . 1
Fairbanks . . .	--	--	--	--	Portland . . .	65	+ 3	.1	- . 6	Medford . . .	61	- 3	.6	+ . 4
Juneau . . .	--	--	--	--	MD. Baltimore . . .	68	- 4	1.1	+ . 2	Pendleton . . .	62	- 3	.1	- . 2
Kodiak . . .	58	+ 8	.3	-. 7	MASS. Boston . . .	72	+ 4	.3	-. 5	Portland . . .	61	- 1	.5	+ . 1
Nome . . .	--	--	--	--	Chatham . . .	62	--	.1	--	Salem . . .	57	- 4	.6	+ . 2
ARIZ. Flagstaff . . .	60	+ 2	0	- . 1	MICH. Alpena . . .	73	+ 2	T	- . 7	PA. Allentown . . .	66	+ 3	.2	- . 6
Phoenix . . .	93	+ 9	0	0	Detroit . . .	66	- 2	T	- . 8	Erie . . .	63	- 2	.1	- . 7
Tucson . . .	88	+ 6	T	0	Flint . . .	68	+ 2	.1	- . 7	Harrisburg . . .	66	- 6	.3	- . 4
Winslow . . .	73	+ 2	0	- . 1	Grand Rapids . . .	68	+ 1	0	- . 8	Philadelphia . . .	65	- 7	1.6	+ . 8
Yuma . . .	94	+ 8	0	0	Houghton Lake . . .	64	+ 1	T	- . 8	Pittsburgh . . .	66	+ 3	T	- . 8
ARK. Fort Smith . . .	73	- 4	0	- . 9	Lansing . . .	68	+ 1	2.5	+ 1.5	Scranton . . .	63	- 5	.1	- . 7
Little Rock . . .	75	- 3	T	- . 8	Marquette . . .	60	+ 1	2.5	+ 1.5	R.I. Providence . . .	67	+ 1	.3	- . 3
CALIF. Bakersfield . . .	83	+ 7	0	0	Muskegon . . .	66	0	T	- . 6	S.C. Charleston . . .	71	- 7	.9	+ . 6
Eureka . . .	53	- 2	.1	- . 1	S. Ste. Marie . . .	60	+ 1	.2	- . 6	Columbia . . .	68	- 11	3.2	+ 2.3
Fresno . . .	76	+ 3	0	0	MINN. Duluth . . .	62	+ 3	.6	- . 5	Greenville . . .	66	- 10	.6	- . 4
Los Angeles . . .	76	+ 8	0	0	Internatl Falls . . .	69	+ 3	1.0	+ . 1	S.D. Aberdeen . . .	70	+ 5	.2	- . 7
Red Bluff . . .	74	- 1	0	- . 1	Minneapolis . . .	63	+ 3	1.4	+ . 5	Huron . . .	72	+ 5	1.2	+ . 3
San Diego . . .	74	+ 9	T	- . 1	Rochester . . .	70	+ 4	.3	- . 8	Rapid City . . .	70	+ 6	1.2	+ . 3
San Francisco . . .	59	- 3	0	0	St. Cloud . . .	66	+ 1	2.5	+ 1.4	Sioux Falls . . .	70	+ 3	.9	- . 2
Stockton . . .	73	+ 2	0	0	MISS. Jackson . . .	72	- 7	0	- . 8	TENN. Chattanooga . . .	71	- 5	0	- . 8
COLO. Denver . . .	68	+ 2	T	- . 4	Meridian . . .	71	- 8	0	- . 8	Knoxville . . .	70	- 5	.2	- . 6
Grand Junction . . .	75	+ 4	0	- . 1	MO. Columbia . . .	73	0	.2	- . 9	Memphis . . .	76	+ 3	0	- . 8
Pueblo . . .	72	+ 2	T	- . 3	Kansas City . . .	75	+ 2	.1	- 1.2	Nashville . . .	71	- 6	0	- . 8
CONN. Bridgeport . . .	66	- 2	.7	+ . 1	St. Louis . . .	78	+ 3	T	- 1.1	TEX. Abilene . . .	77	- 3	0	- . 7
Hartford . . .	70	+ 2	.3	- . 5	Springfield . . .	71	- 3	.1	- 1.0	Amarillo . . .	74	- 1	T	- . 8
D.C. Washington . . .	70	- 4	.4	- . 4	MONT. Billings . . .	70	+ 8	T	- . 7	Austin . . .	75	- 7	0	- . 8
FLA. Apalachicola . . .	76	- 4	0	- 1.2	Glasgow . . .	66	+ 5	.4	- . 3	Beaumont . . .	76	- 5	T	- 1.1
Daytona Beach . . .	77	- 2	1.5	- . 1	Great Falls . . .	64	+ 4	1.7	+ . 9	Brownsville . . .	76	- 7	0	- . 7
Ft. Myers . . .	81	0	.2	- 1.9	Havre . . .	67	+ 6	T	- . 6	Corpus Christi . . .	76	- 6	0	- . 6
Jacksonville . . .	73	- 6	4.0	+ 2.5	Helena . . .	64	+ 6	.2	- . 4	Del Rio . . .	75	- 11	0	- . 5
Key West . . .	84	+ 1	1.4	+ . 3	Kalispell . . .	60	+ 4	.1	- . 5	El Paso . . .	78	- 2	0	- . 1
Lakeland . . .	--	--	--	--	Miles City . . .	72	+ 8	T	- . 8	Fort Worth . . .	77	- 4	0	- . 7
Miami . . .	81	0	2.3	+ . 1	Missoula . . .	64	+ 6	.5	0	Galveston . . .	79	- 2	0	- 1.0
Orlando . . .	80	0	.6	- 1.1	NEBR. Grand Island . . .	74	+ 3	.3	- . 8	Houston . . .	74	- 7	0	- 1.1
Tallahassee . . .	74	- 6	T	- 1.5	Lincoln . . .	76	+ 4	.1	- 1.1	Lubbock . . .	77	0	0	- . 7
Tampa . . .	79	- 2	T	- 1.5	Norfolk . . .	74	+ 4	1.0	- . 2	Midland . . .	75	- 5	0	- . 3
W. Palm Beach . . .	79	- 2	5.3	+ 3.3	N. Platte . . .	73	+ 5	.6	- . 3	San Angelo . . .	74	- 6	0	- . 4
GA. Atlanta . . .	72	- 4	0	- . 8	Omaha . . .	75	+ 5	T	- 1.2	San Antonio . . .	75	- 7	0	- . 7
Augusta . . .	69	- 9	.2	- . 6	Valentine . . .	73	+ 7	2.1	+ 1.2	San Antonio . . .	76	- 6	0	- . 8
Macon . . .	74	- 6	T	- . 9	NEV. Ely . . .	62	+ 5	.2	0	Victoria . . .	75	- 7	0	- . 7
Savannah . . .	72	- 7	3.4	+ 2.1	Las Vegas . . .	87	+ 5	0	0	Waco . . .	78	- 3	0	- . 8
HAWAII. Hilo . . .	75	0	3.6	+ 2.1	Reno . . .	61	0	T	- . 1	Wichita Falls . . .	67	+ 2	0	- . 1
Honolulu . . .	79	0	.2	+ . 1	Winnemucca . . .	64	+ 3	.3	0	UTAH. Blanding . . .	73	+ 8	.1	- . 2
Kahului . . .	79	+ 2	T	- . 1	N. H. Concord . . .	64	0	.2	- . 6	Salt Lake City . . .	65	0	.9	+ . 1
Lihue . . .	77	0	.7	+ . 3	N. J. Atlantic City . . .	64	- 6	.5	- . 3	VT. Burlington . . .	65	- 8	1.5	+ . 7
IDAHO. Boise . . .	65	+ 1	- . 1	- . 2	Trenton . . .	67	- 4	1.4	+ . 7	Norfolk . . .	68	- 6	1.4	+ . 6
Lewiston . . .	64	0	.7	+ . 2	N. MEX. Albuquerque . . .	75	+ 1	T	- . 1	Richmond . . .	67	- 7	T	- . 8
Pocatello . . .	64	+ 3	T	- . 3	Roswell . . .	76	- 1	.1	- . 2	Roanoke . . .	66	- 6	1.8	+ 1.0
ILL. Cairo . . .	--	--	--	--	N. Y. Albany . . .	64	- 3	1.2	+ . 5	WASH. Colville . . .	60	- 1	.3	+ . 1
Chicago . . .	71	+ 1	T	- . 9	Binghamton . . .	61	- 4	.4	- . 4	Omak . . .	62	- 1	.6	+ . 3
Moline . . .	73	+ 2	1.0	0	Buffalo . . .	65	- 1	T	- . 5	Quillayute . . .	53	- 2	.8	0
Peoria . . .	73	+ 2	.2	- . 7	New York . . .	69	- 2	.5	- . 1	Seattle-Tacoma . . .	60	+ 1	.1	- . 3
Rockford . . .	69	0	T	- 1.1	Rochester . . .	65	- 2	.2	- . 4	Spokane . . .	69	- 2	.6	+ . 2
Springfield . . .	77	+ 4	T	- 1.0	Syracuse . . .	66	- 1	.8	0	Walla Walla . . .	64	- 2	.4	+ . 1
IND. Evansville . . .	74	- 1	T	- . 8	N. C. Asheville . . .	64	- 7	.5	- . 4	Yakima . . .	62	- 2	.6	+ . 4
Ft. Wayne . . .	70	0	T	- . 9	Charlotte . . .	67	- 9	3.4	+ 2.5	W. VA. Beckley . . .	61	- 6	.6	+ . 4
Indianapolis . . .	71	- 1	.9	- . 1	Greensboro . . .	65	- 9	1.7	+ . 8	Charleston . . .	67	- 5	.2	- . 5
South Bend . . .	71	+ 2	T	- . 9	Hatteras . . .	70	- 4	.4	- . 7	Huntington . . .	69	- 3	.1	- . 7
IOWA. Burlington . . .	73	+ 2	.7	- . 4	Raleigh . . .	65	- 9	1.3	- . 5	Parkersburg . . .	68	- 4	T	- . 9
Des Moines . . .	73	+ 3	.6	- . 6	Wilmington . . .	71	- 8	3.4	+ 2.2	WISC. Green Bay . . .	67	+ 3	.3	- . 5
Dubuque . . .	69	+ 2	.9	- . 4	N. DAK. Bismarck . . .	70	+ 7	T	- . 9	La Crosse . . .	69	+ 1	.1	- 1.0
Sioux City . . .	72	+ 2	1.3	- . 2	Fargo . . .	71	+ 7	0	- . 8	Madison . . .	68	+ 2	.1	- . 9
KANS. Concordia . . .	78	+ 6	.1	- 1.1	Williston . . .	68	+ 6	.1	- . 7	Milwaukee . . .	67	+ 3	.1	- . 7
Dodge City . . .	78	+ 4	T	- . 8	OHIO. Akron-Canton . . .	65	- 3	.1	- . 7	WYO. Casper . . .	66	+ 5	.1	- . 3
Goodland . . .	73	+ 4	.8	+ . 1	Cincinnati . . .	68	- 4	T	- . 9	Cheyenne . . .	65	+ 4	.6	0
Topeka . . .	75	+ 2	.1	- 1.3	Cleveland . . .	66	- 2	.1	- . 7	Lander . . .	67	+ 7	T	- . 5
Wichita . . .	77	+ 1	T	- 1.1	Columbus . . .	69	- 1	.2	- . 8	Sheridan . . .	64	+ 4	T	- . 8
KY. Lexington . . .	70	- 3	.4	- . 6	Dayton . . .	70	- 1	.1	- . 8	P. R. San Juan . . .	84	+ 4	1.4	+ . 1
Louisville . . .	73	0	T	- 1.0	Toledo . . .	68	- 1	T	- . 8					

Based on 1941-70 normals

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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 ESCS State offices in cooperation with the National Weather Service.

**ALABAMA:** Temperatures 5° below normal. No rain.

Fieldwork: 5.6 days suitable. Soil moisture adequate north; short southeast; less than adequate elsewhere. Too dry to plant some southeastern areas. Haymaking, wheat harvest, soybean planting major activities. Soybeans 86% planted, 84% 1978, 82% average. Sorghum 66% planted, 72% 1978. Corn 40% silked, 33% 1978. Cotton 12% squaring, 9% 1978. Peanuts 10% pegging, 7% 1978. Wheat 52% harvested, 47% 1978, 67% average. About 33% 1st cutting hay in. Sorghum fair to good condition. All other crops and pastures mostly good.

**ALASKA:** Week began warm and dry; by weekend rainy cool weather set in.

Crop growth generally moderate most areas of railbelt. First cutting hay underway in Matanuska Valley. Harvesting in Tanana Valley expected to begin first of July. Early seeded grain reached height of 4 to 6 in. railbelt. Potato growth slower than in recent years. Soil moisture adequate to short.

**ARIZONA:** High pressure dominated bringing warm, dry weather. Temperatures above normal.

Cotton good progress; mostly emerged, 50% squaring. Sorghum, corn, safflower good growth. Corn tasseling. Sorghum heads forming. Safflower setting seed. Small grains turning color, harvest well underway. Sugarbeet and alfalfa hay harvest continued. Lettuce harvest southeast slow due to low prices. Quality down due to over maturity. Harvest cantaloups, watermelons, grapes underway. Fuel supplies generally adequate. Cattle, calves, ranges, pastures good condition. Winds drying some areas. Fire danger extremely high. Stock water, soil moisture adequate. Feed sufficient.

**ARKANSAS:** Cool first of week; warm later part. Extremes: 46 and 93°. Dry all week with no significant precipitation.

Fieldwork: 6 days suitable. Small grain and hay harvest active. Soil moisture adequate. Soybean planting 56%, 78% last season, 76% average; fair to good condition. Cotton fair condition; early cotton squaring; acceptable stand 87%. Rice fair to good condition; plantings 95%, 99% 1978 and average. Corn and sorghum fair to good condition. Corn planting 94%, 99% 1978, 92% average. Sorghum planting 81%, 99% 1978. Oats fair condition; harvest 46%, 75% 1978, 65% average. Wheat good condition; harvest 39%, 60% 1978, 52% average. Peaches good condition, sizing well. Apple early harvest northwest. Grapes excellent. Tomato harvest active. Pastures average. Hay harvest accelerated. Cattle good condition.

**CALIFORNIA:** Temperatures considerably above normal. Temperatures dropped in north 13th although the weather remained fair.

Ripening small grains well along. Winter wheat 99% turning color stage, 90% ripe and 27% harvested. Cotton 20% squared. Planting of rice virtually over, 97% emerged. Corn 99% planted, 92% emerged. Planting green baby limas complete, north San Joaquin Valley. Blackeyes southern San Joaquin Valley emerged. Apricot harvest continuing. Cherry harvest ending. Grape growth good. Desert grape harvest continued. Nectarine harvest continued. Olives developing normally. Peach thinning continued. Desert valley grapefruit

harvest ending. Lemon development normal. Normal almond, walnut development. Truck shortages slowing movement some areas. Harvest artichokes, asparagus, decreasing seasonally. Carrots decreasing desert, increasing Salinas and San Joaquin Valleys. Cantaloup movement at peak desert. Celery increasing Salinas, south coast harvest near end. Lettuce decreasing slightly from previous heavy volume. Onion movement decreasing Imperial Valley, increasing San Joaquin Valley. Spring potatoes at peak Kern district. Market tomatoes heavier desert, light harvest south coast, San Joaquin Valley. Processing tomato harvest started June 12, Imperial Valley, some damage by high winds Sacramento Valley. Hot winds continued dry ranges making fire danger more severe. Grass fires continued problem. Milk, egg production declined due hot weather. Cattle continue move feedlots, summer pastures. Fuel supplies improved few areas reporting surplus. Generally, supplies LP gas, diesel, gasoline adequate, few areas still tight supplies diesel, gasoline. Fuel supplies improved with a few areas reporting surplus.

**COLORADO:** Dry and fair during first part of week. Widely scattered showers later in week. Temperatures 1° below normal.

Winter wheat condition good; headed 85%, turning color 11%, 30% 1978, 36% average. Corn condition good. Sorghum 80% seeded, 94% 1978, 88% average. Sugarbeets 55% thinned, 74% 1978, 73% average. First cutting alfalfa 41% complete. Range and pasture condition good to very good. Fieldwork: 4.5 days suitable. Gasoline and diesel fuel tight to adequate. LP gas supplies adequate.

**FLORIDA:** Unusually dry most areas except east coast. Weak cool front moved through north, 11th becoming stationary south, 13th. Few showers, thundershowers accompanied front. Tropical depression moved northward along east coast, 15th dropping 3.00 to 5.00 in. rains over Atlantic coastal area with negligible affect on Gulf Coast. Scattered showers continued lower east coast 16th and 17th. Overall relatively dry week elsewhere with precipitation averaging less than 0.25 in. Temperatures near normal, except cooler nighttime lows, north.

Soil moisture short, however, moisture adequate in a few scattered areas south and along upper east coast. Corn good condition but beginning to need moisture. Sugarcane, soybeans and peanuts good condition. Soybean planting nearing completion. Tobacco harvest active. Hay harvest increasing. Pasture condition declined northern and central areas, good to excellent northeast, south. Cattle fair condition Panhandle, good to excellent elsewhere. Citrus grove condition excellent. Moisture adequate, recent hard rains helpful. Abundance of new growth. Very little late bloom. New crop progressing well. Old crop Valencias holding well. Vegetables declining seasonally. Shipments down 23% from previous week. Most crops registered decline. Crops declining were snap beans, cabbage, carrots, celery, sweet corn, cucumbers, parsley, green peppers, potatoes, radishes, squash, tomatoes. Crops holding steady were okra, watermelons. Eggplant increased in supply. Sweet corn harvest is expected to be complete by July 10. Watermelon harvest active in north areas and should extend

to west as season progresses. Potato harvest winding down rapidly.

GEORGIA: Temperatures 1 to 7° below normal. Temperatures ranged from 66 to 78°. Showers and thundershowers scattered with most activity on 9th and 11th. Heaviest rainfall generally southeast where amounts exceeded 1.75 in.

Soil moisture varied. Fieldwork: 6 days suitable. Crops in need of moisture in some areas. Corn fair to mostly good. Tobacco fair to good; 9% harvested, 3% last year, 9% average. Soybeans good; 87% planted, 85% last year, 84% average. Peanut good; 73% blooming, 64% last year, 30% pegging, 28% last year. Cotton good; 79% squaring, 47% last year, 48% average; 7% setting bolls, 6% last year, 14% average. Sorghum 70% planted, 68% last year, 68% average. Wheat 75% harvested, 67% last year, 82% average. Oats 81% harvested, 74% last year, 83% average. Hay crops fair to mostly good, harvest active. Watermelons fair to mostly good; 3% harvested, 4% last year. Peaches good, 3% harvested, 29% last year, 45% average. Apples good. Vegetables fair to mostly good. Pastures, cattle and hogs good. LP gas 95% adequate; diesel fuel 22% tight, 73% adequate; gasoline 22% tight, 75% adequate.

HAWAII: Favorable weather continued. Warm, humid some areas. Showers windward areas all islands beneficial.

Most major crop areas Island Maui dry. Irrigation heavy. Spraying frequent controlling insect, disease damage. Vegetable supplies adequate. Bananas light. Papayas gradually increasing. Pine-apple harvesting heavy. Sugar harvesting steady. Rains beneficial to pastures; generally fair to good. Fuel supplies adequate.

IDAHO: Temperatures above normal beginning of week, cooling by end of week. Precipitation very sparse and well below normal.

Winter wheat 40% headed, same as last year. Spring wheat and barley 20 and 15% headed, respectively, last year, both 10%. Dry beans planting near completion, 60% emerged. Potatoes 80% emerged. First crop hay 40% harvested. Fieldwork: 6.8 days suitable. Soil moisture mostly short to very short. Farm fuel supplies mostly adequate to tight.

ILLINOIS: Temperatures 1 to 4° above normal. Precipitation ranged nearly 1.00 in. west to trace elsewhere.

Soil moisture short to adequate. Corn good; average height 14 in., 10 in. 1978, 18 in. average; advanced fields 24 in., 20 in. 1978, 29 in. average. Soybeans 97% planted, 86% last year, 87% average; 81% full stand. Wheat good; 70% turning yellow, 36% 1978, 79% average; 5% ripe, none in 1978, 36% average. Oats good to fair; 60% headed, 46% 1978, 72% average; 20% filled, 13% 1978, 37% average. Sorghum 90% planted. Alfalfa good; first crop cut 87%, 67% 1978, 75% average. Red clover good; 75% cut, 69% 1978, 72% average. Pastures good to fair. Fieldwork: 5.3 days suitable.

INDIANA: Warm, dry. Some local showers of 1.00 in. but most areas 0.30 to 0.60 in. Temperatures from 42 to 95° averaging near normal. Humidities near normal. Sunshine 83% of possible.

Fieldwork: 4 days suitable. Topsoil and subsoil moisture adequate. Pastures good. Soybeans 95% planted, 1978 85%, average 83%; 90% emerged, stands fair to mostly good; 4 in. tall, 1978 3 in., average 5 in. Corn all emerged; 12 in. tall, 1978 10 in., average 16 in. Wheat 25% turning color; 70% in milk. Oats 17 in., 1978 15 in., averaging 21 in.; 45% headed, 1978 35%. Alfalfa hay 80% cut

first time, 1978 70%, average 75%. Clover 65% cut, 1978 60%, average 55%. Tobacco plants 80% set, 1978 70%, average 80%. Fuel supplies adequate.

IOWA: Temperatures about 2° warmer than normal and precipitation light. Moderate to locally heavy showers fell in a 40 to 70 mile wide zone from Eldora to Waterloo to Dubuque.

Fieldwork: 4.9 days favorable. Topsoil moisture short to adequate. Subsoil moisture adequate. Corn 60% cultivated first time. Soybean acreage emerged 96%, 1978 84%, normal 90%; 89% of normal soybean stand. Oats headed 36%, 1978 36%, normal 60%. First crop alfalfa hay harvested 78%, 1978 72%, normal 72%. Crop condition: Oats, corn, beans, clover hay, alfalfa hay, wheat, and pasture all improved. Livestock market movement slowed, some transport problems.

KANSAS: Generally dry and warm with scattered nighttime thunderstorms across northwest half 15th night through 17th night. Rains of 0.50 in. to 1.75 in. northwest with 0.25 in. or less scattered over north central and northeast. Little or no rain south central and southwest. Temperatures averaged mid-70's statewide or near normal south-east to 3 to 5° above normal elsewhere.

Wheat harvest under way with less than 5% ripe, same as last year, 25% average; about 50% turned, 70% last year, 75% average. Corn planting complete. Sorghum planting 70%, 75% last year and average. Soybean plantings 70%, equal last year and average. First cutting alfalfa 95%, second cutting 5%, 10% last year and average. Insect infestations increasing. Fuel supplies tightened.

KENTUCKY: Precipitation less than 0.50 in. Temperatures near normal.

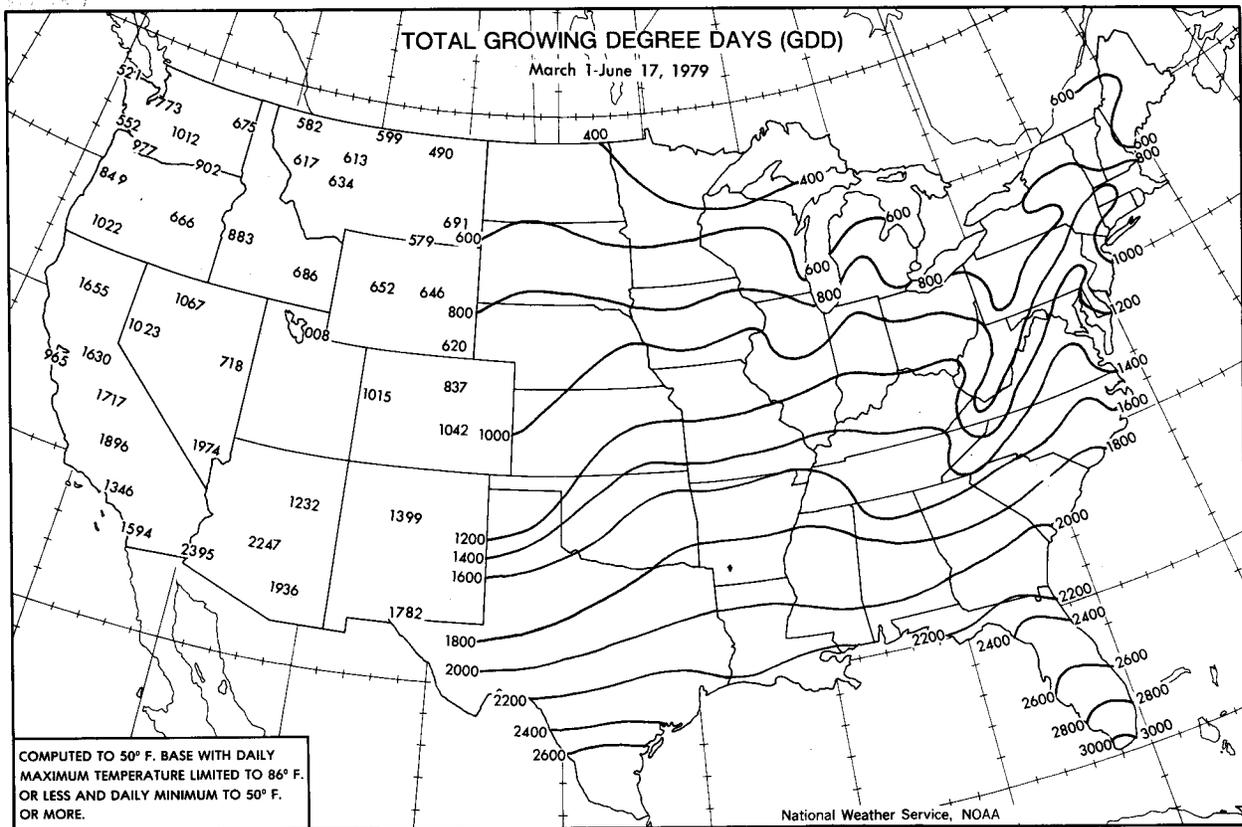
Fieldwork: 4.7 days suitable. Soil moisture adequate. Burley tobacco 95% set, 85% 1978, 95% average. Problems include drowned-out tobacco, insects, and plants that were too large for optimum setting. Dark tobaccos 90% set. Corn height 15 in., somewhat shorter than last year and average. Corn borer and cutworms bad in some areas. Soybean planting 75% complete, about comparable with last year and average. Some beans having hard time coming up, and chemical damage from herbicides evident. Barley harvest 67% complete. Early wheat looking good but latter wheat appearing thin and with less heavily filled heads. Pasture condition very good.

LOUISIANA: Temperatures 4 to 6° below normal. Extremes: 94 and 53°.

Fieldwork: 6.1 days suitable. Soil moisture adequate. Soybeans fair to good; 87% planted, 86% last year, 80% average; 75% emerged. Cotton fair; 12% squared. Rice good. Corn good; 73% tasseled, 72% last year. Sorghum good, 82% planted, 86% last year, 77% average; 75% emerged. Sweetpotato good; 93% transplanted, 90% last year, 85% average. Tomatoes, vegetables harvested. Peaches good; harvest continued. Sugarcane good. Wheat 82% cut, 94% last year, 95% average. Hay, pastures, cattle good.

MARYLAND & DELAWARE: Temperatures 2° below normal. Highs in upper 70's to low 80's and lows in mid- to upper 50's. Precipitation light, about 0.25 in.

Fieldwork: 5.1 days suitable. Soil moisture adequate to surplus. Fuel supplies mostly adequate, some reports of slow or late deliveries. Corn planting virtually complete, 100% last year and normal. Soybean planting slightly over 50% complete, 72% last year, 77% normal. Haymaking progress excellent. Tobacco fields 80% planted.



**MICHIGAN:** Temperatures normal to 5° above normal. Maximum temperatures near 90°. Minimum temperatures reached mid to upper 30's. Precipitation varied from zero to 2.50 in.

Fieldwork: 6 days suitable. Soil moisture supplies mainly short to adequate. Pasture feed supplies average. Motor fuel supplies adequate. Corn height 7 in., 9 in. last year and normal. Soybeans 98% planted, 95% last year, 90% normal. Dry beans 70% planted, 75% last year, 60% normal. Wheat 85% headed or more advanced which is normal. Only a minor amount turning yellow. Last year 80% headed. Over 5% oats headed, same as last year, 10% normal. First cut hay 40% complete, 35% last year and normal. Fruits showing average sets except peaches and tart cherries light. Vegetable development behind schedule. Asparagus 90% harvested. Strawberry harvest gaining momentum in southwest.

**MINNESOTA:** Temperatures 1 to 4° above normal. Extremes: 106 and 38°. Precipitation above normal over all but the 4 corners of State. Precipitation totals less than 1.00 in. north and south thirds; totals in central third generally 2.00 in. or greater.

Warm temperatures stimulated growth, put some crops under stress where moisture short in northwest, west central. Most crops planted, doing well although late. Some spring seeded small grains jointing. Corn: 95% emerged, 1978 99%, normal 97%; height 6 in., 1978 10 in., normal 12 in. Soybeans: 85% emerged, 1978 94%, normal 93%; height 3 in., 1978 4 in., normal 5 in. Emerged: Spring wheat 91%, 1978 99%, normal 94%; oats 94%, 1978 99%, normal 96%; barley 91%, 1978 99%, normal 91%. Planted: Sunflowers 97%, 1978 99%, normal 99%; flax 91%, 1978 99%, normal 94%; potatoes 95%, 1978 99%, normal 95%.

**MISSISSIPPI:** Temperatures 2 to 7° below normal. Extremes: 50 and 95°. Light rain in few locations early week but most areas dry all week.

Soil moisture mostly adequate. Fieldwork: 5.8 days suitable. Much progress made in soybean planting. Other activities include wheat harvest and hay baling. Soybeans 74% planted, 79% 1978, 71% average; 40% up to stand, 59% 1978, 61% average; condition good to fair. Cotton 14% squaring, 20% 1978, 25% average; condition fair. Rice 99% planted, 100% 1978, 100% average; 93% up to stand, 100% 1978, 99% average; condition good to fair. Corn 99% planted, 100% 1978, 98% average; 95% up to stand, 99% 1978; 25% silked, 19% 1978, 40% average; condition good. Winter wheat 98% ripe, 95% 1978; 61% harvested, 60% 1978, 67% average. Peanuts 98% planted. Sorghums 72% planted, 76% 1978, 73% average. Sweetpotatoes 80% planted, 87% 1978, 81% average. Hay crops 29% harvested, 35% 1978, 31% average. Peaches 10% harvested, 9% 1978, 19% average; condition good to fair. Pastures good condition. Supplies of diesel rated tight to adequate; LP gas mostly adequate; gasoline adequate to tight.

**MISSOURI:** Temperatures normal across north, 1 to 2° below normal elsewhere. Precipitation averaged 0.50 to 1.00 in. north, 2.50 in. west central plains and 0 to 0.40 in. elsewhere.

Fieldwork: 4.7 days suitable. Soybeans 85% planted, last year 70%, normal 76%. Grain sorghum 79% planted, last year 67%, normal 79%. Wheat 72% turned color, last year 65%, normal 100%. Wheat 16% ripened, last year 26%, normal 49%. Alfalfa hay - first cutting 83% complete, last year 67%, normal 87%. Other hay 51% harvested, last year 45%. Condition of corn, wheat and pasture mostly fair to good. Soil moisture supplies mostly adequate. LP

gas supplies mostly adequate. Diesel fuel and gasoline supplies tight to adequate.

**MONTANA:** Very warm, dry. Temperatures early week reached 90's and exceeded 100° over portions of east during midweek. Gradual cooling began 15th and 10th. Temperatures 2 to 8° above normal. Precipitation totally lacking until end of week when scattered thundershowers occurred.

Soil moisture short. Fieldwork: 6.7 days suitable. Small grains fair condition. Sugarbeets, potatoes, corn, good condition. Winter wheat 55% boot, some starting to head. Last year 50% boot, 20% headed; average 40% boot, 35% headed. Spring wheat and barley 90% emerged. Sugarbeets thinned 40%, 1978 60%, average 55%. Water supply for irrigation average. Diesel fuel in tight supply, some deficit; other fuels mostly adequate.

**NEBRASKA:** Temperatures 5° above normal. General precipitation early in period averaged 0.75 in.

Corn emergence 100%, year ago 100%; most in good condition. Sorghum emergence 85%, year ago 95%; planting complete. Soybean emergence 85%, year ago 90%; planting complete. Winter wheat 95% headed, year ago 100%; wheat turning less than 5%, year ago 10%, normal 40%. First cutting alfalfa hay 75% complete, year ago 85%. Diesel fuel 25% adequate, 70% tight, 5% deficit; gasoline 70% adequate, 30% tight; LP gas adequate. Fieldwork: 5.4 days suitable.

**NEVADA:** Warm, dry weather first half of week, cooling trend remainder. Rain and snow near end of period along Sierras. Temperatures near normal to above. Extremes: 111 and 25°.

Little to no precipitation benefited alfalfa hay harvest. Small grains mostly good condition. Gusty winds end of week curtailed some fieldwork.

**NEW ENGLAND:** Cold front brought showers 11th and 12th with 1.00 in. reported in Vermont and New Hampshire. Temperatures 10 to 20° subnormal 12th and 13th with several areas reporting frost. Readings rose into 80's and 90's by weekend.

After sluggish start, haying full swing by weekend. Excess moisture spurred replantings of potatoes and corn in Maine and New Hampshire. Warm weather vegetable crops behind in their development due to cold weather early week. Cranberry crop escaped frost damage. Corn planting nearly complete, range 60 to 100%. Soil moisture adequate to surplus. Available grazing adequate to good. Fuel supplies tight to adequate.

**NEW JERSEY:** Temperatures 4 to 7° below normal. Extremes: 36 and 89°. Rainfall 1.68 in. north, 1.38 in. central and 2.19 in. south. Soil moisture, in percent of field capacity averaged 91% north, 81% central and 81% south. Soil temperatures 68° north, 70° central and south.

Fieldwork: 5 days suitable. Drier weather increased field activity. Vegetable harvest increasing. Irish potatoes in bloom. Sweetpotato transplanting nearing completion. Apples and peaches sizing, thinning continued where needed. Strawberry supplies light. Limited blueberry harvest begun on Weymouth variety. Barley well colored. Wheat started to color. Field corn and soybean planting active as conditions permit. Hay making continued. Much made into haylage because of drying conditions. Pasture growth heavy. Fuel supplies adequate to tight.

**NEW MEXICO:** Dry with virtually no rain. Warm days and cool nights with little day-to-day temperature trend. Temperatures averaged within 2 to 3° of normal.

Moisture adequate in most places. Most cotton up to acceptable stands, but cool nights still slowing growth in most areas. Second alfalfa cutting about 30% complete in south. Few producers cutting wheat and barley, but most areas will not start until at least this week. Irrigated grain sorghum planted, dryland about 75% complete. Onion harvest active. Pecans good, chile fair. Ranges and livestock very good.

**NEW YORK:** Unseasonably cool early week, frost at some Adirondack location. Very warm late week. Temperatures slightly below normal. Rainfall below normal.

Corn planting 95% done, 1978 same. First cutting alfalfa 25% complete, 30% 1978. Clo-tim 15% harvested, 20% 1978. Grass silage 35% cut, 1978 same. Strawberry harvest underway. Sweet corn planting 90% complete, 75% 1978. Snap bean planting progress variable. Cabbage planting advancing. Condition of beets, onions good.

**NORTH CAROLINA:** Temperatures 4 to 7° subnormal. Precipitation ranged 0.50 in. northeast to 5.00 in. south central and east.

Fieldwork: 5.2 days suitable. Soil moisture adequate. Conditions of tobacco, cotton, vegetables and soybeans fair to good. Corn, hay crops, Irish potatoes, sweetpotatoes, apples, peaches and pasture fair to mostly good. Peanuts mostly fair to good. Planted: Burley tobacco 95%, 1978 78%, average 92%; soybeans 75%, 1978 78%, average 80%; sorghum 76%, 1978 73%, average 76%; peanuts 95%, 1978 100%, average 100%; sweetpotatoes 90%, 1978 91%, average 82%. Harvested: Wheat 25%, 1978 14%, average 40%; oats 37%, 1978 25%, average 52%; barley 46%, 1978 46%, average 56%; rye 31%, 1978 35%, average 50%; peaches 8%, 1978 5%, average 16%; hays 49%, 1978 55%, average 46%; Irish potatoes 10%, 1978 11%, average 24%; spring snap beans 58%; spring cucumbers 30%; green peppers 5%; spring cabbage 75%.

**NORTH DAKOTA:** Hot, dry weather prevailed. Record-breaking temperatures. Temperatures averaged 7 to 10° above normal. Extremes: 104° southwest to 41° southwest. Rainfall spotty and light. Largest amount 0.22 in. southeast. Winds accompanied hot, dry weather; evapotranspiration high.

Spring seeding wrapping up. Shortage of top-soil moisture concern. Emergence late seeded crops spotty. Emerged grain suffering from lack of moisture and heat stress many areas, particularly southwest quarter. General rain needed. Hay crops also suffering. Main activity spraying for weeds and other pest control. Percents seeded compared to last year and average: Hard red spring wheat 100, 100, 99; durum wheat 99, 100, 99; oats 99, 100, 99; barley 99, 100, 99, potatoes 100, 99, 97.

**OHIO:** Early week cool with high temperatures mostly in 70's. Temperatures increased into upper 80's end of week although temperatures till 1 to 3° below normal. Rainfall 0.50 to 1.00 in. below normal.

Corn advanced to 10 leaf stage. Some wheat fields lodged. Excellent week for hay making. Barley harvest just underway. Strawberry picking active. Sugarbeet blocking, fruit tree spraying and thinning and nursery stock planting were main activities. Some vegetable harvest including asparagus cutting. Soybeans planted 98%, 95% 1978 98% average. Tobacco transplanted 70%, 55% 1978, 75% average. First alfalfa cut 75%, 65% 1978, 75% average. Other type hay cut 55%, 60% 1978, 50% average. Wheat turning 35%, 15% 1978, 40% average. Oats headed 45%, 25% 1978, 55% average. Corn average height 13 in., 11 in. 1978, 11 in. average.

Fieldwork: 5.5 days favorable. Pasture condition very good. Soil moisture adequate.

OKLAHOMA: Northwest averaged 2° warmer than normal while southeast 4 to 5° below average. Elsewhere temperatures near normal. Little or no rain.

Wheat harvest full swing south. Wheat 10% harvested, 30% 1978, 40% average. Sorghum 80% planted, 75% 1978, 85% average. Sorghum 40% up to stands, 40% 1978, 55% average. Cotton 95% planted, 85% 1978, 90% average. Cotton 55% up to stand, 45% 1978, 60% average. Fieldwork: 5.3 days suitable.

OREGON: Well above normal temperatures early week, cooling trend at midweek. Temperatures averaged near normal. Maximum temperatures ranged in 60's along coast and 80's to lower 90's interior. Minimum temperatures ranged in mid-30's and 40's; week was dry except a few showers, northwest corner; scattered weekend rains brought relief to many areas.

Soil moisture supplies short till weekend rains came. Grain, hay and seed crops fair to good. Winter wheat 92% headed; 4% turning color. Barley turning color. Haying continuing some areas finishing first cutting. Hops coming along alright. Mint stands making poor growth in quite a few fields; other fields are slow but coming. Strawberry harvest peaked. Sweet cherries coloring; harvest ready to start. Fruit crops in general look good. Filberts lighter than last year. Walnut set looks good. Blackberries in full bloom. Cranberry bloom appears more uniform than last year. Vegetable plantings on schedule and coming along well. Pea harvest underway in eastern Umatilla County. All potatoes have been planted and are emerging in late areas. Onions coming along normally. Livestock condition mostly good. Range and pasture condition fair to good. Dryland pastures showing effect of dry weather. Grasshopper infestation heavy on thousands of rangeland acres in central ranges.

PENNSYLVANIA: Fieldwork: 6 days suitable. Soil moisture mostly adequate. Activities: Hay making; filling silos; planting, corn, tobacco, soybeans and vegetable plants; cultivating; spraying; picking strawberries, sweet cherries. Corn all planted, same last year and average. Corn height 10 in., 7 in. least year. Tobacco 71% transplanted, last year 67%. Soybeans 90% planted, last year 78%. Barley 45% turning, 10% ripe; last year none ripe. Wheat 85% headed, 10% turning, remainder ripe; last year under 5% turning. Oats 23% headed, last year 8%. Alfalfa first cut 50%, clo-tim 31%. Hay quality good to fair. Feed from pastures average.

PUERTO RICO: Island average rainfall 4.02 in. or 2.47 in. above normal. Temperatures averaged about 80° on coasts and 75° interior. Extremes: 97 and 57°.

SOUTH CAROLINA: Highest temperatures first half week included mid-80's. Nighttime cooler than usual. General rains in south 15th spread northward on 16th. Excessive rainfall reported in east 16th.

Soil moisture adequate. Fieldwork: 5.3 days suitable. Corn good condition; 42% silked, last year 44%; 12% dough stage. Cotton fair to good condition; 61% squaring, 28% last year; 1% setting bolls ahead of last year, average; weeds occasionally severe. Tobacco condition fair, some fertilizer contamination, blue mold, some pythium rot, mosaic; topped 20%; harvested 2%. Soybean planting 83%, 86% last year, 84% average; good stands. Peaches excellent quality, good size in favorable weather; 12% harvested, 9% last year, 17% average;

midseason varieties now due. Tomato condition good, 17% harvested. Cucumbers fair to good conditions, 82% harvested. Watermelons good condition, 2% harvested this year and last.

SOUTH DAKOTA: Strong cold front cooled temperatures late week after warm and hot weather. Temperatures 5 to 7° above normal except normal east. Extremes: 108 and 42°. Precipitation above normal south and central, below north.

Topsoil moisture critically short west and north central, short central and northeast, adequate elsewhere. Fieldwork: 6 days suitable. Farm fuels tight to adequate. Crops and pastures in west and north central suffering from moisture shortages. Grasshoppers in west pose an additional threat. Soybeans 95% planted, 1978 93%, average 97%. Sorghum 94% planted, 1978 86%, average 92%. Sunflowers 92% planted, 1978 78%. Winter wheat 80% headed, 1978 94%, average 89%. Rye 89% headed, 1978 96%, average 94%. Oats 13% headed, 1978 4%, average 32%. Spring wheat 8% headed, 1978 4%, average 24%. Barley 16% headed, 1978 13%, average 34%. Corn average height 6 in., 1978 6 in., average 8 in. Alfalfa 1st cut 20%, 1978 47%, average 50%.

TENNESSEE: Fair most of week; light rain east weekend. Amounts averaged 0.50 in. Temperatures 1 to 6° below normal.

Fieldwork: 5.6 days suitable. Soil moisture adequate. Soybeans planted 72%, 1978 78%, average 76%. Tobacco transplanted 93%, 1978 85%, average 92%. Wheat ripe 73%, 1978 64%, average 79%. Wheat harvested 14%, 1978 13%, average 32%. Oats ripe 54%, 1978 37%, average 72%. Oats harvested 9%, 1978 10%, average 22%. All crops fair condition. Pastures and cattle good. Peach harvest full swing. Snap bean harvest early stages. Fuels tightening in many areas. Some areas receiving emergency supplies.

TEXAS: Skies generally clear early week and partly cloudy later week. Scattered thunderstorms Panhandle late week. Temperatures below normal last of week. No precipitation occurred except over western Panhandle and extreme northern Panhandle.

Fieldwork increased dramatically from previous week as warmer, drier conditions covered State, enabling farmers to resume planting and harvesting. Fuel supplies for farming, especially diesel and gasoline, tightened from previous week as planting, cultivating, and harvesting activities increased. Many Panhandle cotton fields replanted due to water damage, seedling disease, and thrips. Bollworms and fleahoppers were becoming problem in Blacklands and South where some fields were sprayed. Fleahopper control underway in Valley. American Pima cotton beginning to square in Trans-Pecos region. Corn continued excellent progress; fields tasseling throughout Blacklands. Open weather enabled soybean producers to plant nearly one third of crop during week. Some replanting on Gulf Coast noted. Good stands on earlier planted beans observed. Peanut planting aided by open weather. Planting on Cross-Timbers moved into full swing. Grain sorghum planting continued on Plains and Cross-Timbers. Earlier planted fields noted heading on southern Low Plains and some fields had begun turning color on Edwards Plateau. Spraying for midge required in south. Drying weather enable wheat harvest to resume in central and south. Harvest began on Low Plains. Warmer weather promoted maturity on High Plains where some early dryland fields were being harvested this weekend. High Plains irrigated wheat is ten days to two weeks away from harvest. Sunflowers noted blooming in

portions of Blacklands while some earlier planted fields in Panhandle had reached a foot in height. Warmer weather induced earlier planted rice fields to begin heading. Many producers along Gulf Coast sprayed fields with fungicides. Sugarbeets on Panhandle continued to make excellent progress. Cotton planted 93%, 94% 1978, 96% average; squaring 17%; setting bolls 9%. Rice headed 11%. Sorghum planted 93%, 93% 1978, 94% average; headed 37%; turning color 17%. Wheat turning color 93%; harvested 23%, 30% 1978, 49% average. Barley harvested 30%, 8% 1978, 56% average. Flax harvested 100%, 100% 1978, 99% average. Oats harvested 63%, 75% 1978, 83% average. Peanuts planted 69%, 71% 1978, 72% average. Soybeans planted 68%, 63% 1978, 78% average. Sunflowers planted 56%, 31% 1978, 62% average.

Harvests cucumbers, honeydews, watermelons, tomatoes, bell peppers, okra active. Land preparation for fall crops resumed. Salvage operations active in onion fields damaged by heavy rains. Central Texas tomatoes some areas suffering from excess water and insect damage. Peach harvest early varieties continued; brown rot evident some areas central and east. Freestone harvest underway in Hill County. Pecan nutlets continued to develop well most areas. Casebearer populations below normal. Aphid infestations on increase central and north.

Rangeland and pastures continued to improve in response to adequate moisture and warm temperatures. Weeds abundant and grasshopper populations cause problems many areas of High and Low Plains, North Texas. Livestock conditions ranged good to excellent.

UTAH: Periods of rain in valleys and snow in mountains northwestern portion latter part. Amounts moisture generally light to moderate. Warming trend temperatures forepart period but cooling over weekend. Temperatures ranged from near normal to 7° above.

Harvest of first crop alfalfa hay progressing rapidly, 65% cut. Fieldwork: 7 days suitable. Winter wheat 70% headed. Sweet cherry harvested expected to start June 25; tart cherries July 16. Range feed dry and mature, extreme fire hazard. Most livestock good to excellent condition.

VIRGINIA: Temperatures below normal. Extremes: 91 and 40°. Rainfall about 1.00 in. occurring early and again late week.

Topsoil moisture mostly adequate. Fieldwork: 4.9 days suitable. Fuel supplies mostly adequate. Few reports tight supplies mostly west and southwest. Soybean planting 50%, 57% 1978, 71% usual; Tidewater and southeast 46%, 53% 1978. Tobacco transplanting: Flue-cured 95%, 83% 1978; burley over 85%, 76% 1978; sun-cured virtually done. Small grain combining: Wheat 5%, 4% 1978, 15% usual; barley 35%, 12% 1978, 42% average; oats 10%, 9% 1978, 25% usual. Peanuts fair. Corn, soybeans, tobacco, alfalfa, pastures, potatoes mostly good. Southeast soybeans only fair. Scab in wheat. Hornworms on newly set tobacco central areas. Small grain lodging severe southeast. Some corn replanted north, southwest where drowned. First favorable haying period of year. Good tonnage saved. Peaches sizing well, apples being thinned. Sweetpotatoes set on Eastern Shore. Livestock good. Sheep sheared east, wool sold southwest.

WASHINGTON: West: Temperatures near normal to 1° below normal. Precipitation 0.20 to 0.70 in. below normal. Warm, dry until weekend showers.

Irrigation active early in the week. Strawberry harvest reaching peak with shortage of pickers, raspberry harvest to begin end of June. Let-

tuce cutting continues. Daffodil bulb harvest started. Green peas blooming. First cutting hay near complete. Moisture deficiencies reducing yields on second cutting.

East: Temperatures 1 to 3° above normal. Precipitation 0.20 to 0.40 in. below normal. Weekend rain broke dry spell.

Cherry harvest in full swing. Shortage of trucks to transport crop. Hand thinning apples active. Estimated 10% of Concord vines winter-killed in Yakima Valley; another 30% growth stunted. Green pea harvest underway. Sweet onion harvest to start end of June. Moisture stress in dryland grain relieved by weekend rain. Grasshoppers active. Fertilizing, rod weeding major activities. First cutting of hay complete in many areas. Yields down due to low moisture. Wheat headed 79%; 1978 75%.

WEST VIRGINIA: Temperatures below normal. Extremes: 90 and 33°. Precipitation below normal, fell first and last days of week.

Fieldwork: 4.9 days suitable. Soil moisture mostly adequate to short. Main farm activities haying, maintenance. Barley headed 75%, 81% 1978. Wheat headed 81%, 76% 1978. Oats 69% pre-headed, 30% headed and 1% ripe. Corn fair to good condition 92% planted, 84% emerged. Tobacco set 30%, 41% 1978. Pastures and hay condition mostly good, 1st cutting of hay 36% complete. Fuel supply mostly adequate.

WISCONSIN: Temperatures 1° above normal. Extremes: 90 and 38°. Sunny and pleasant first part of week, becoming very warm and humid 14th to 15th. Highs in 70's 11th to 13th, then upper 80's until cold front on 16th. Front triggered showers and severe storms north where a few tornadoes reported. Heavy rains of 1.00 to 3.00 in. north, but less than 0.50 in. south.

Good week for haying. Fieldwork: 4 days suitable. First crop hay 30% harvested, 1978 60%, normal 30%. North just started haying, some done south. Yields good except not as heavy north where season late. Quality very good where not rained on, alfalfa beginning to blossom south. Weevils active and widespread, some second crop growth being sprayed. Last of the corn being planted. Warm temperatures helpful for growth. Corn average height 8 in., 1978 10 in., normal 10 in. Oats look good although variable in north due to late planting. Early oats beginning to head south. Some winter wheat headed. Few soybeans still being planted. Pasture conditions good. Tobacco being transplanted. Strawberry harvest underway south. Early peas harvest to start soon. Planting of sweet corn, snap beans, and other vegetable crops continued. Soil moisture mostly adequate, but some surplus north.

WYOMING: Temperatures considerably above normal. High ranged from 105 to 81°. Lows ranged from 20 to 42°. Precipitation generally below normal most areas.

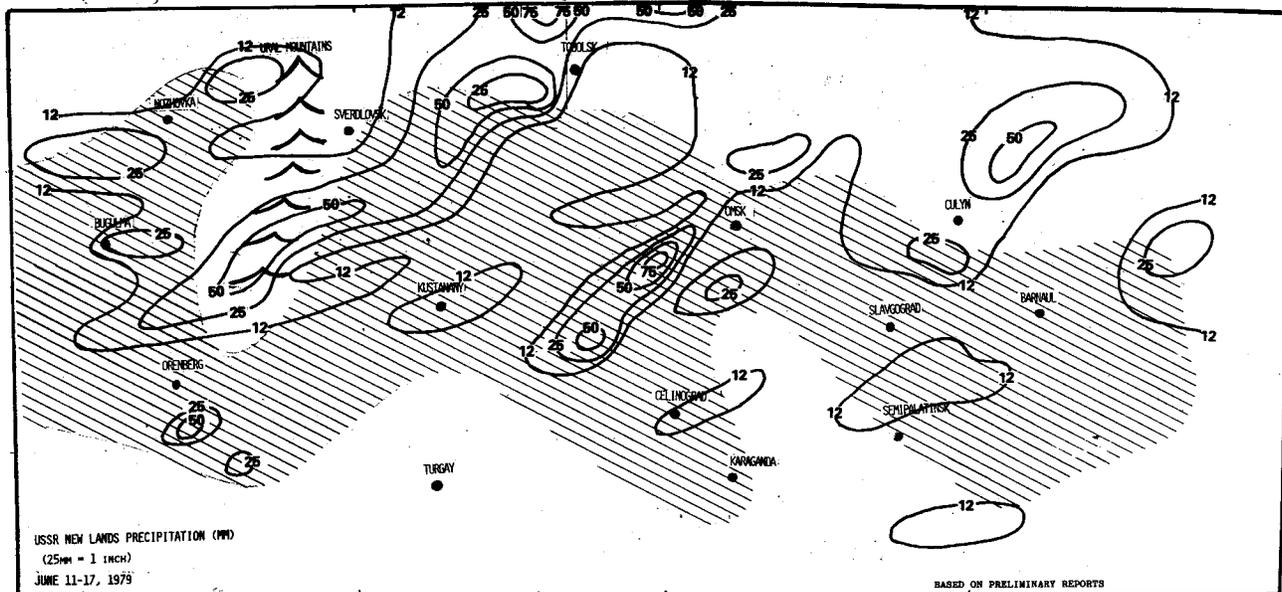
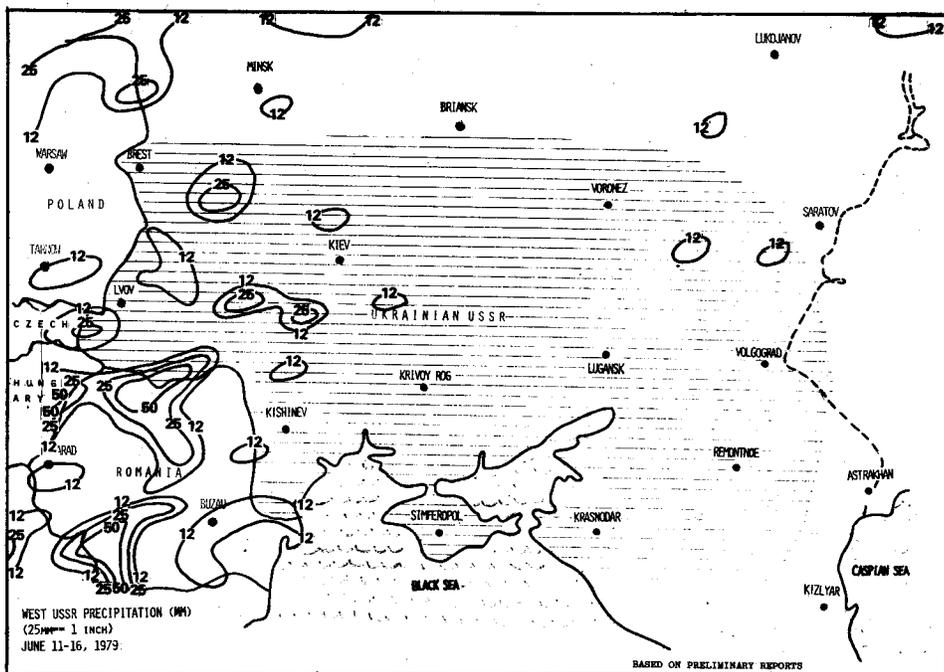
Soil moisture short to adequate. Planting of spring planted crops in windup stages. Acreage planted: Dry beans 90%; corn 96%. Acreage emerged: Potatoes 56%; dry beans 62%; corn 78%. Winter wheat development slow, 40% headed, normally 80% by this time. Sugarbeets 60% thinned. Hay harvested: Alfalfa 10%; other hay 5%. Crops generally fair to good condition. Hail damage in southeast and north central areas. Fieldwork: 6 days suitable. Ranged, pastures fair to good condition. Stock water mostly adequate. Supplies of LP gas adequate most areas; diesel fuel and gasoline tight some areas. In a couple of places farmwork slowed by shortages of diesel fuel.

### World Weather and Crop Update

June 11 - 17

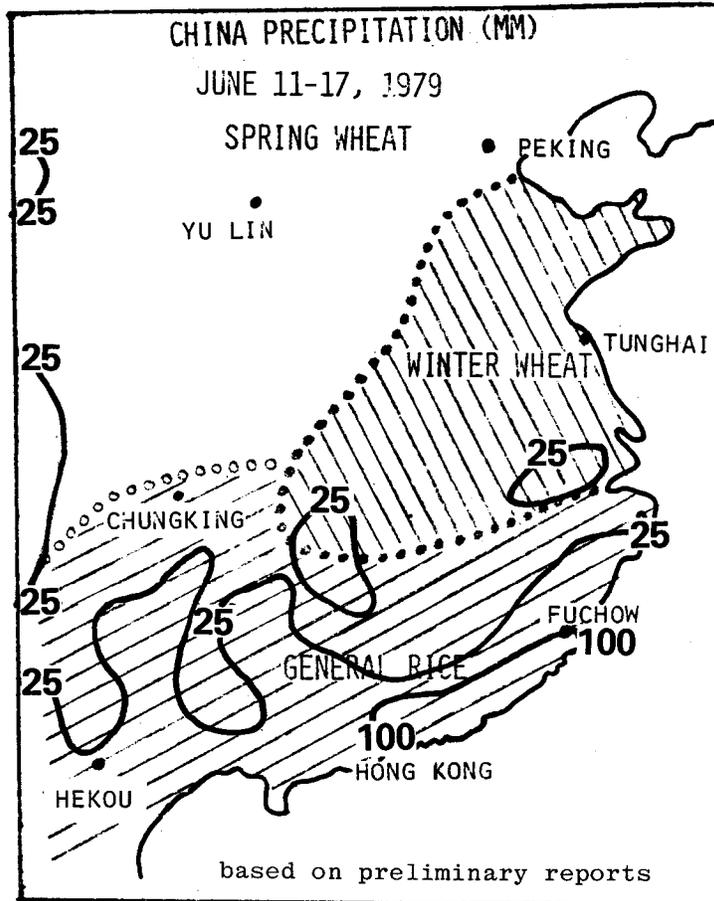
USSR. Nearly all of the key agricultural areas of the Soviet Union west of the Urals were much drier than normal during May in contrast to the very wet condition which had prevailed during March and April. Rainfall amounts were generally 25 to 50 percent of normal over much of the lower Volga River region, the southern Urals, and the eastern Ukraine. This dry pattern persisted into June with little or no relief. The past week was no different. Temperatures were also very warm and humidities very low resulting in "sukhovei" or dry wind conditions in late May and early June,

which had a serious impact on crop production prospects in the region. The areas east of the Urals received generous rains during May, which has provided an excellent soil-moisture base for spring grains; good rains have fallen every week since then. Spring wheat seeding was completed in Kazakhstan in early June. Grain harvest is underway in the southern portions of the country. Because of the dryness in May, maturity has been pushed up, and the crops are generally 1 to 2 weeks ahead of normal.



CHINA. Crop conditions across most of China continue to be favorable. Although May rainfall was generally below normal, actual amounts were more than adequate for crop growth and development. Winter wheat harvest is active and moving northward. This past week was excellent for harvesting with no moisture over the region. Prospects for corn

and sorghum in the northeastern province of Heilongjiang appear good, and good rains of 10 to 25 mm this past week were beneficial. The rice regions in the south have had adequate to excellent moisture with all of the major river systems well supplied.



AUSTRALIA. Planting conditions for winter wheat have generally been favorable across the main growing areas of New South Wales this autumn with well-above-normal moisture during May. Conditions are considered to be much better than a year ago. Soil moisture has been good, and seedbed preparation was carried out under favorable conditions. Early stands are uniform and in good condition.

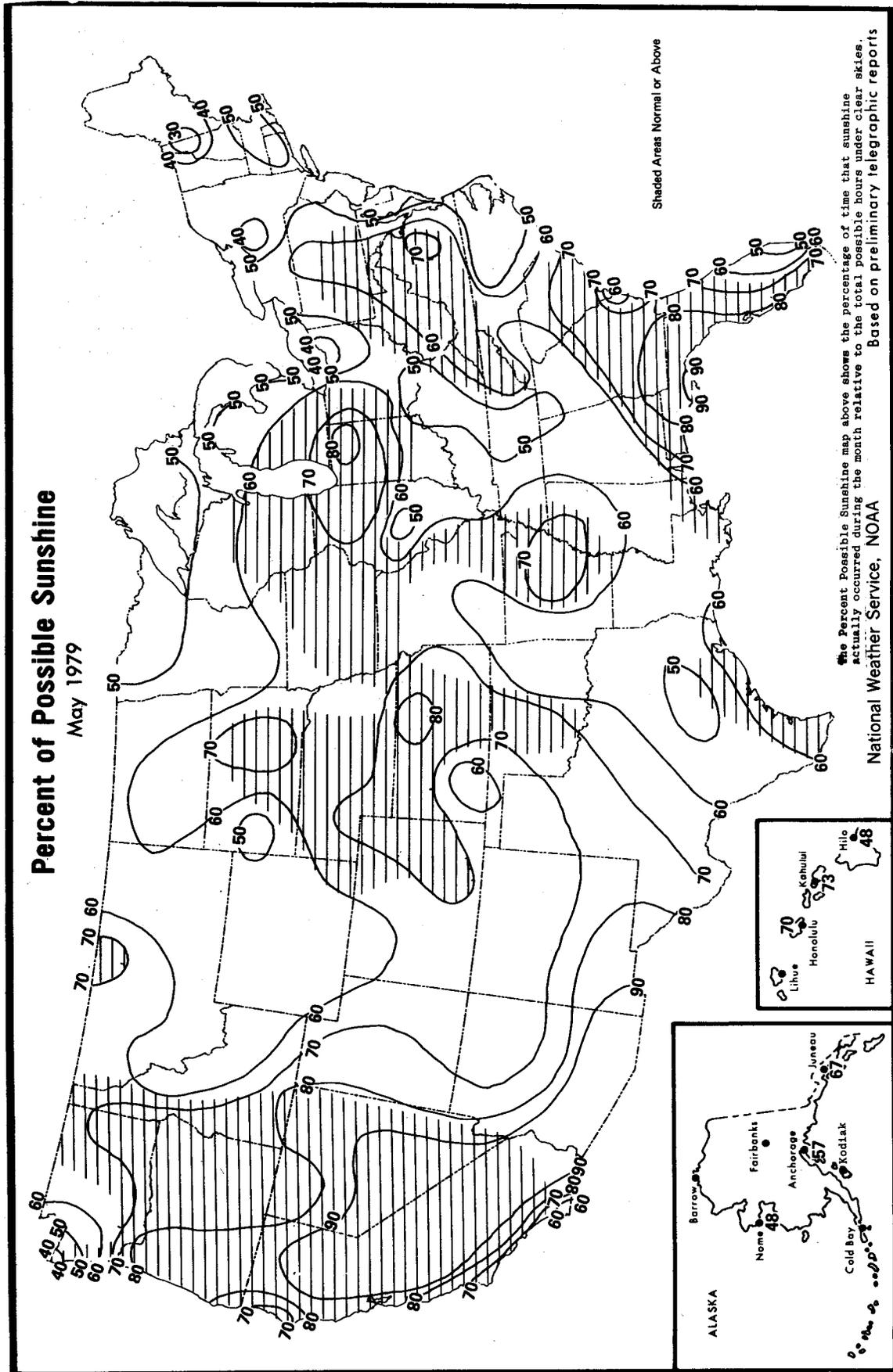
INDIA-SOUTHEAST ASIA. Rainfall during May was seasonally light as agricultural producers waited for the onset of the monsoon in June to get field-work underway. The dry conditions in northern India provided good winter wheat harvest conditions. So far in June, the monsoon has been lighter than normal and several days late, but it appears that a favorable circulation pattern is being established. This past week, good rains fell in Bangladesh, the eastern Indian states, and the southwestern states.

AFRICA. The major African rainfall activity during May occurred in the central parts of the continent with the Sahelian countries receiving well-above-normal moisture across most of the region. North Africa

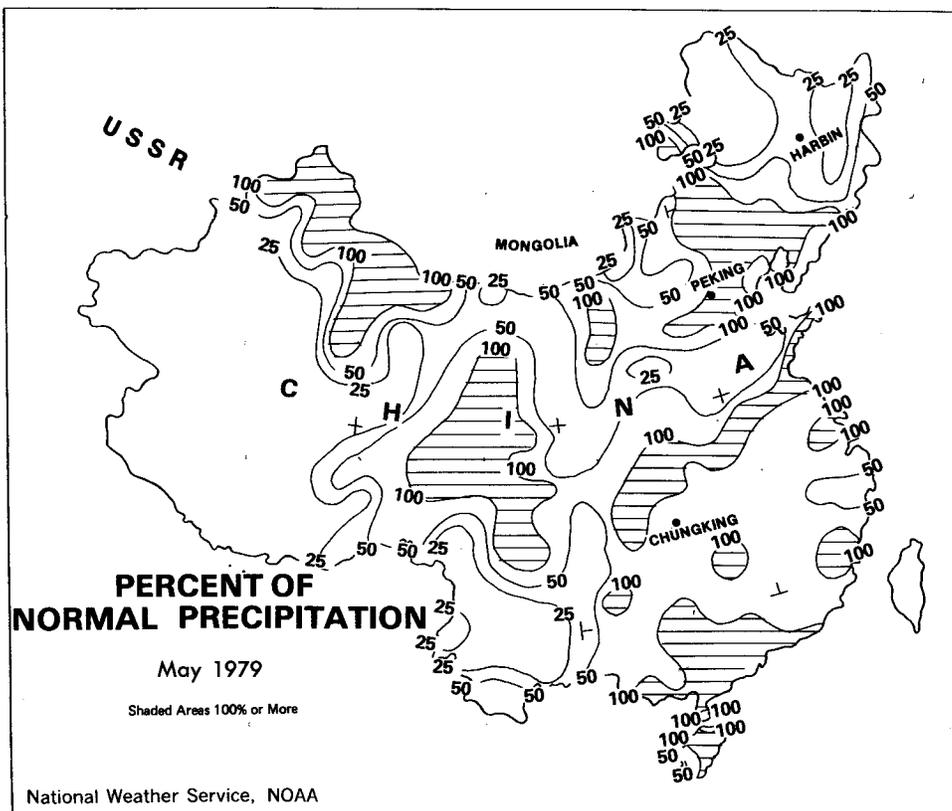
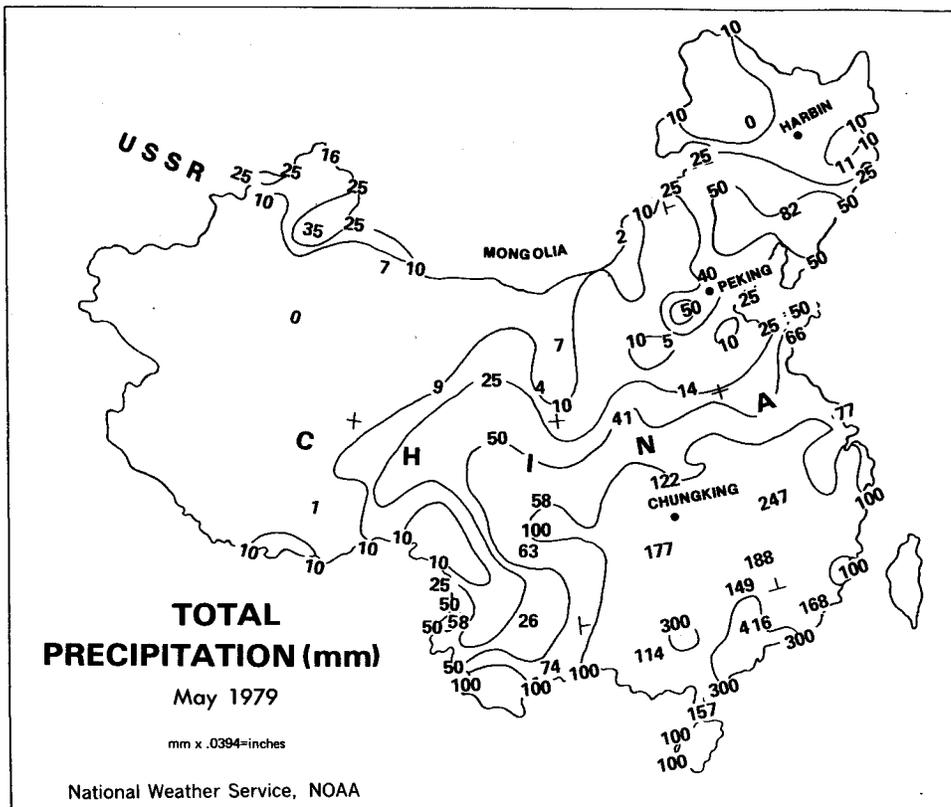
continued well below normal, but this was good for the winter grain harvest which is now completed.

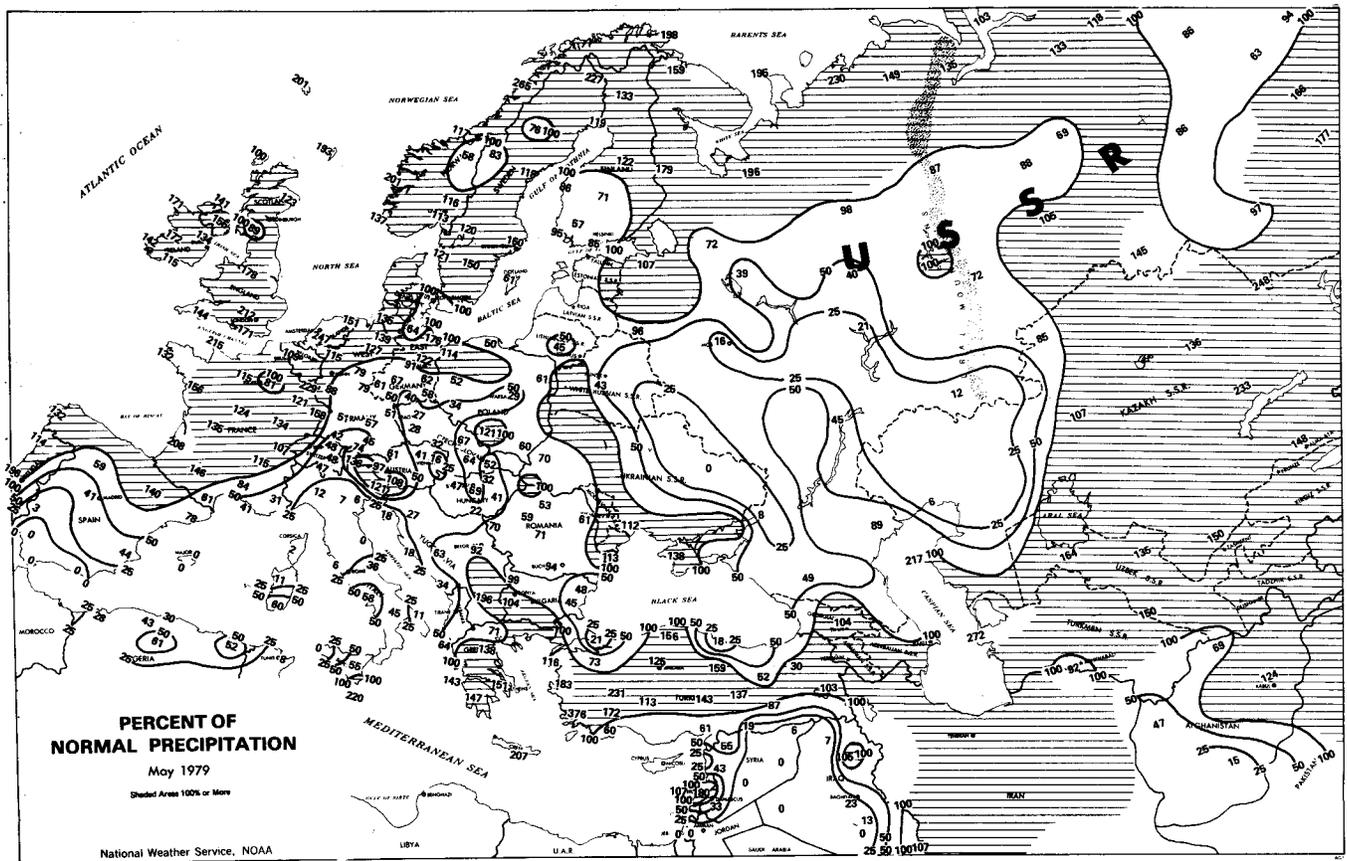
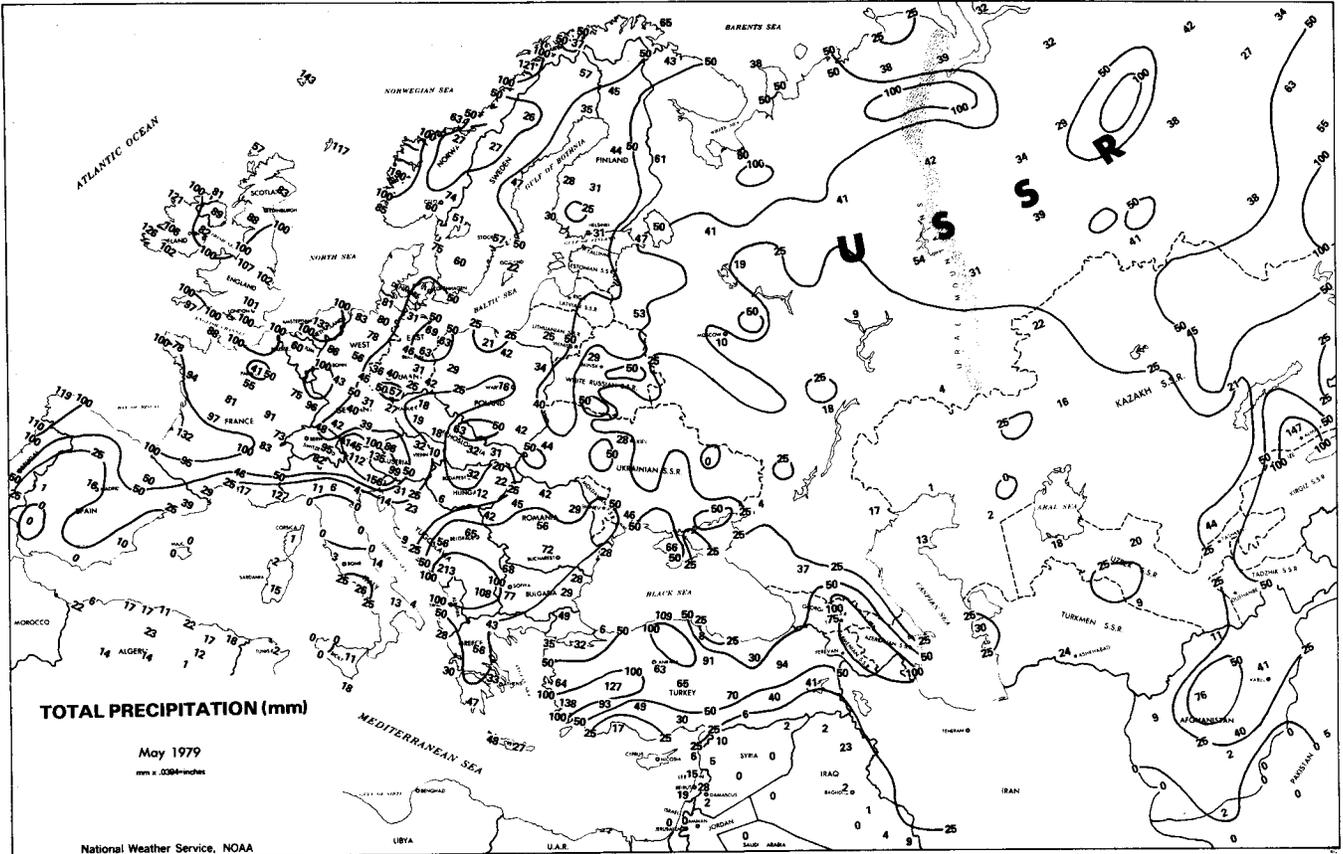
EUROPE. Crops over most of Europe received a real boost this past week, as general rains fell across the entire region. Rain fell lightly over the western half of France but well above normal rain (20 to 45 mm) fell in the east. May precipitation had also been well above normal all across the country. Soil moisture should be excellent in all areas. Most of the eastern European crops had been hurting because of dry conditions during May and well into June. For the month of May, most of the region received 25 to 50 percent of normal moisture, but most of that moisture fell during the first week. Good soaking rains fell this past weekend after almost six weeks without significant rains. Czechoslovakia, Hungary, Austria, and the northern two-thirds of Yugoslavia generally received 25 to 50 mm. Most of northern Italy, southern Germany, and Poland received 10 to 25 mm. The moisture will be of particular benefit to spring grains and row crops, which have had difficulty getting established because of the dry conditions since seeding.



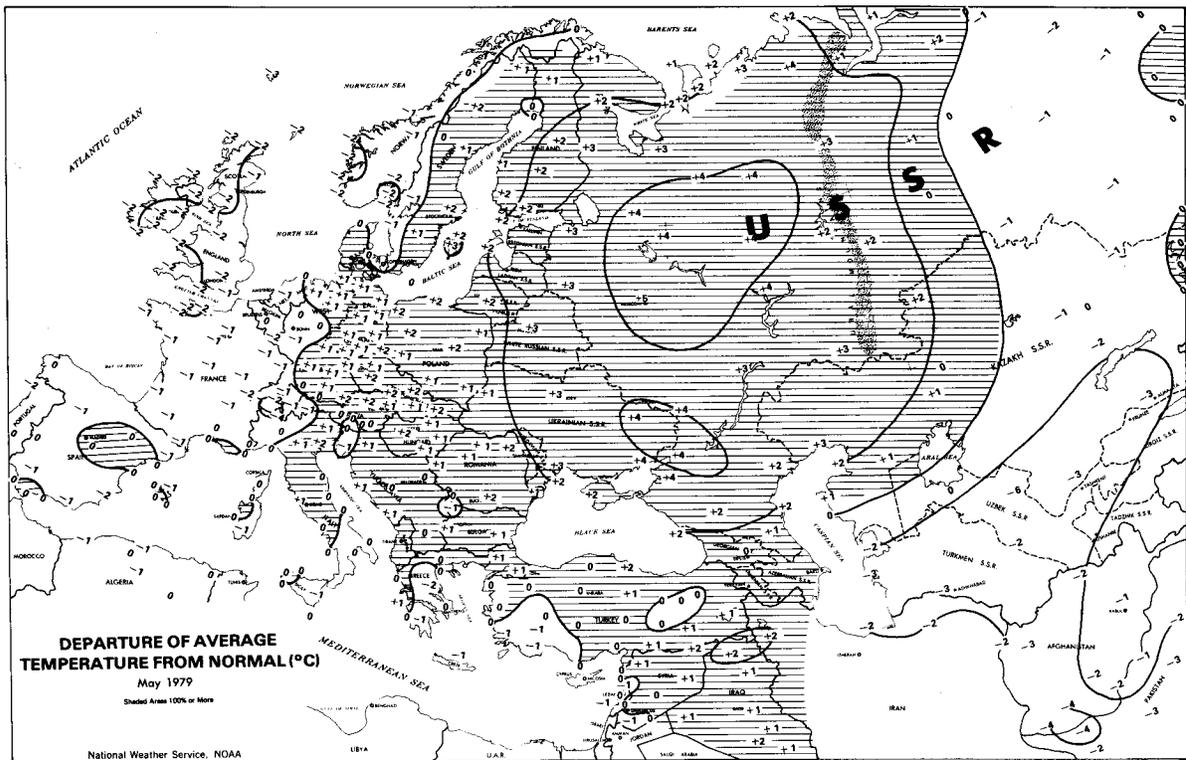
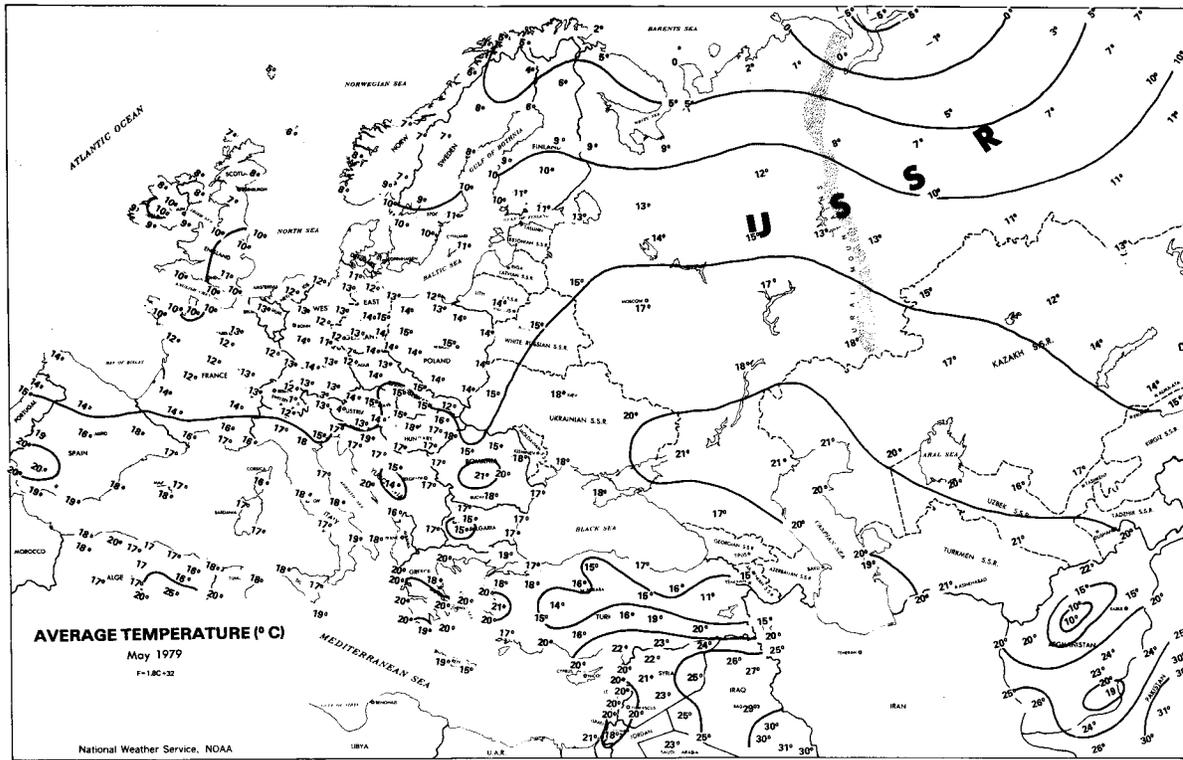


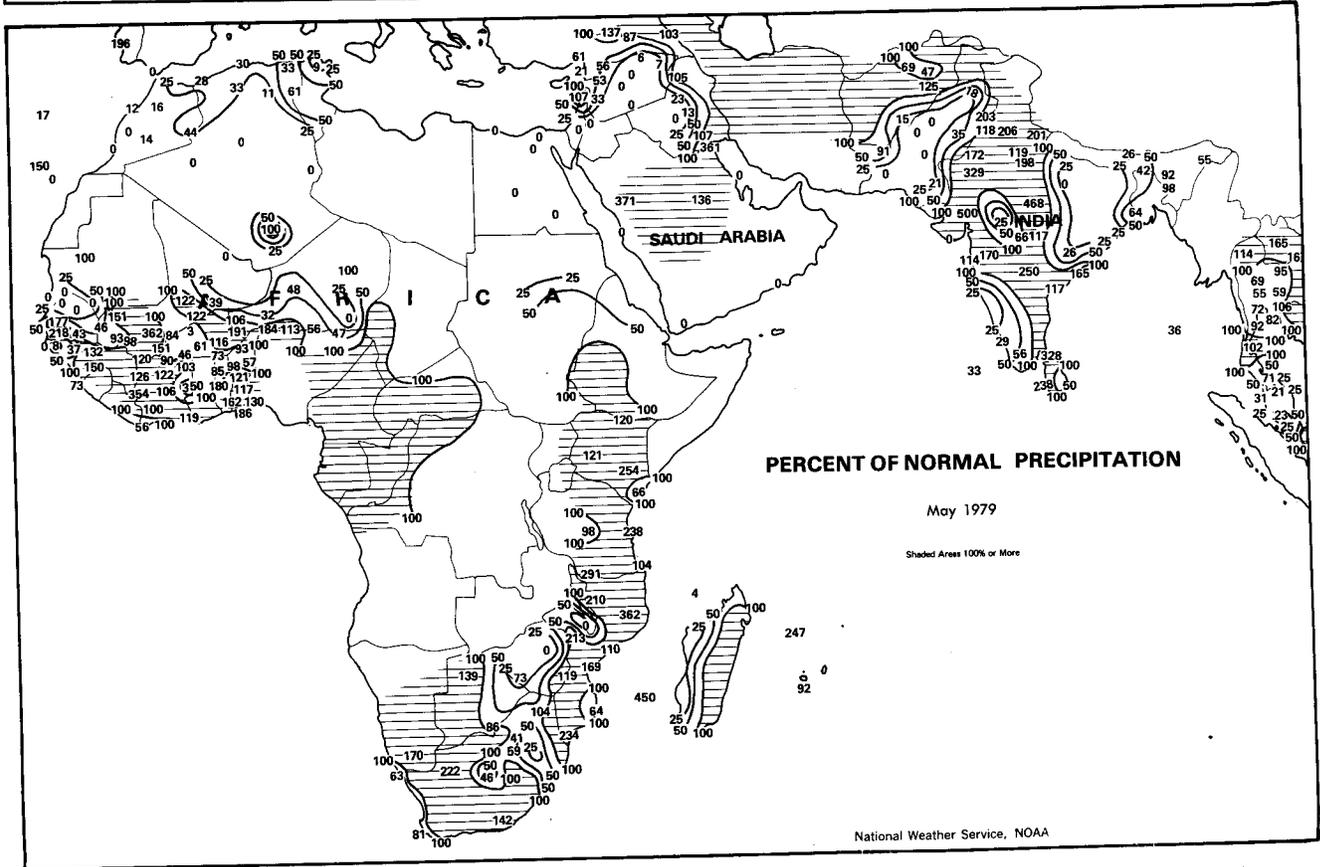
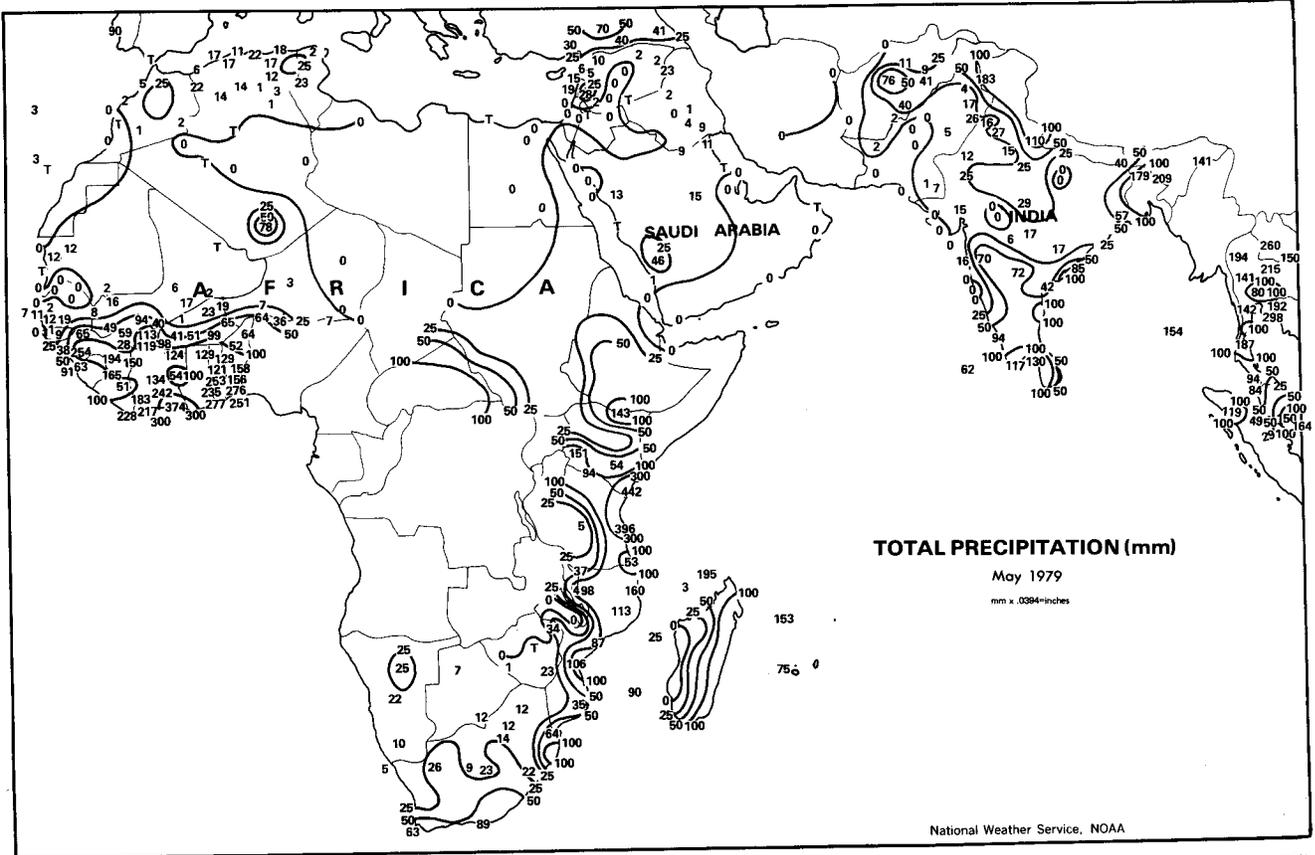
### China Precipitation

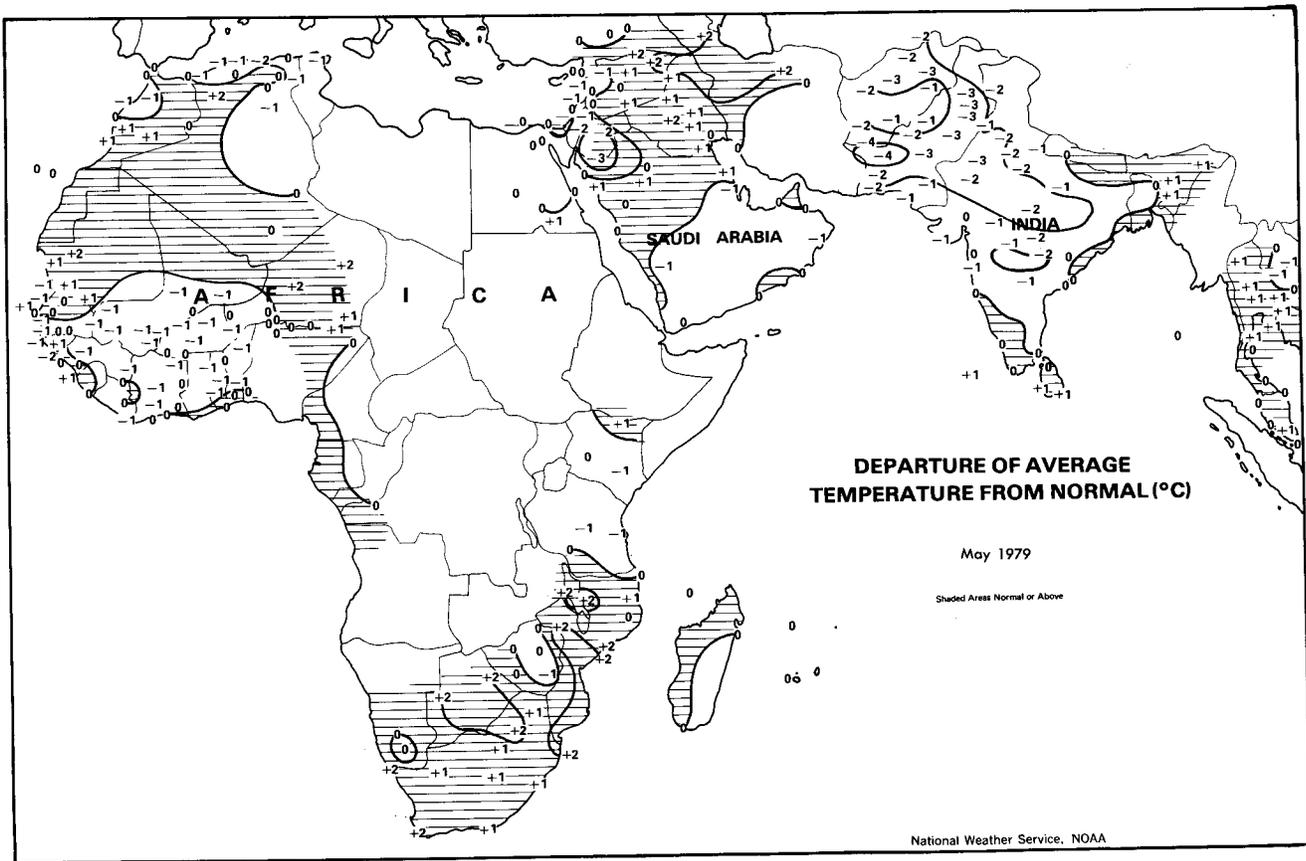
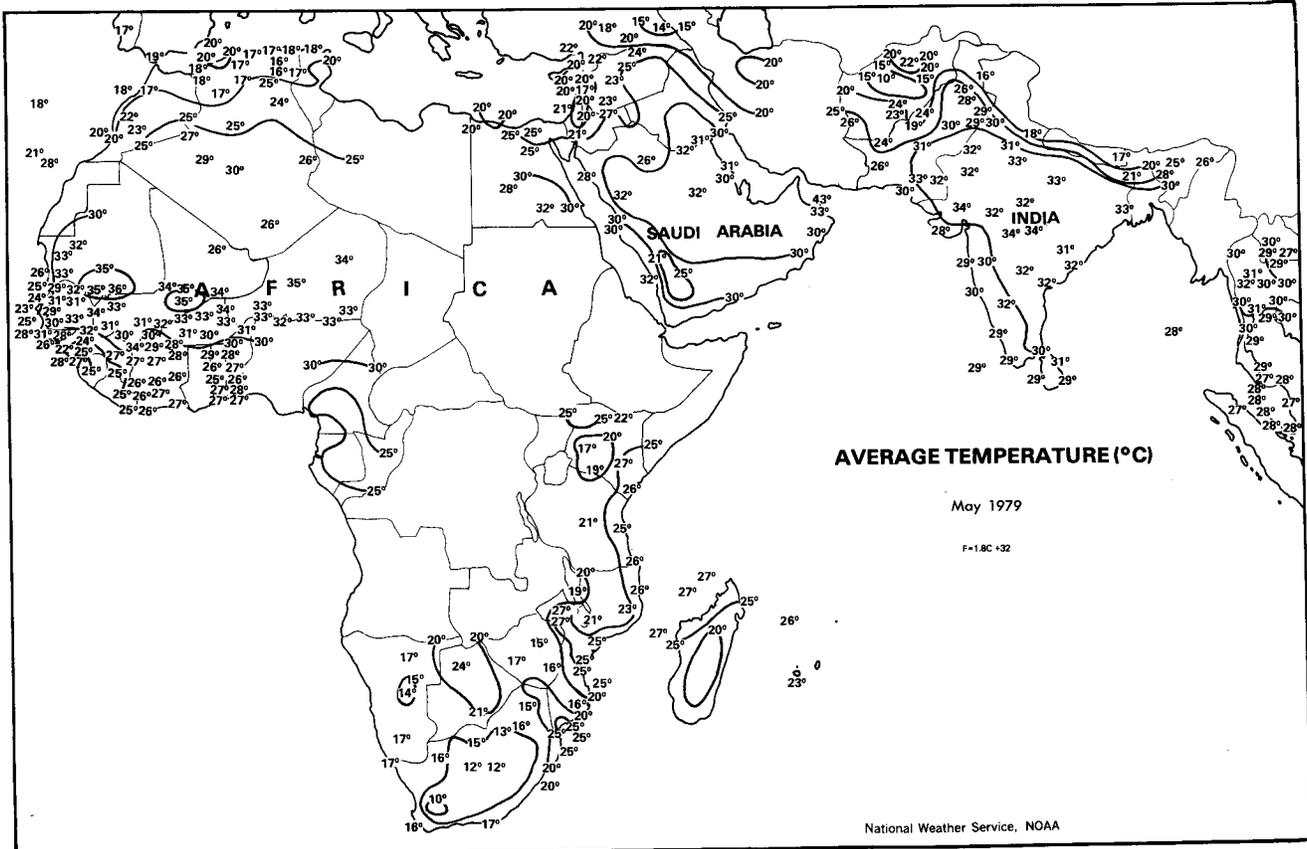


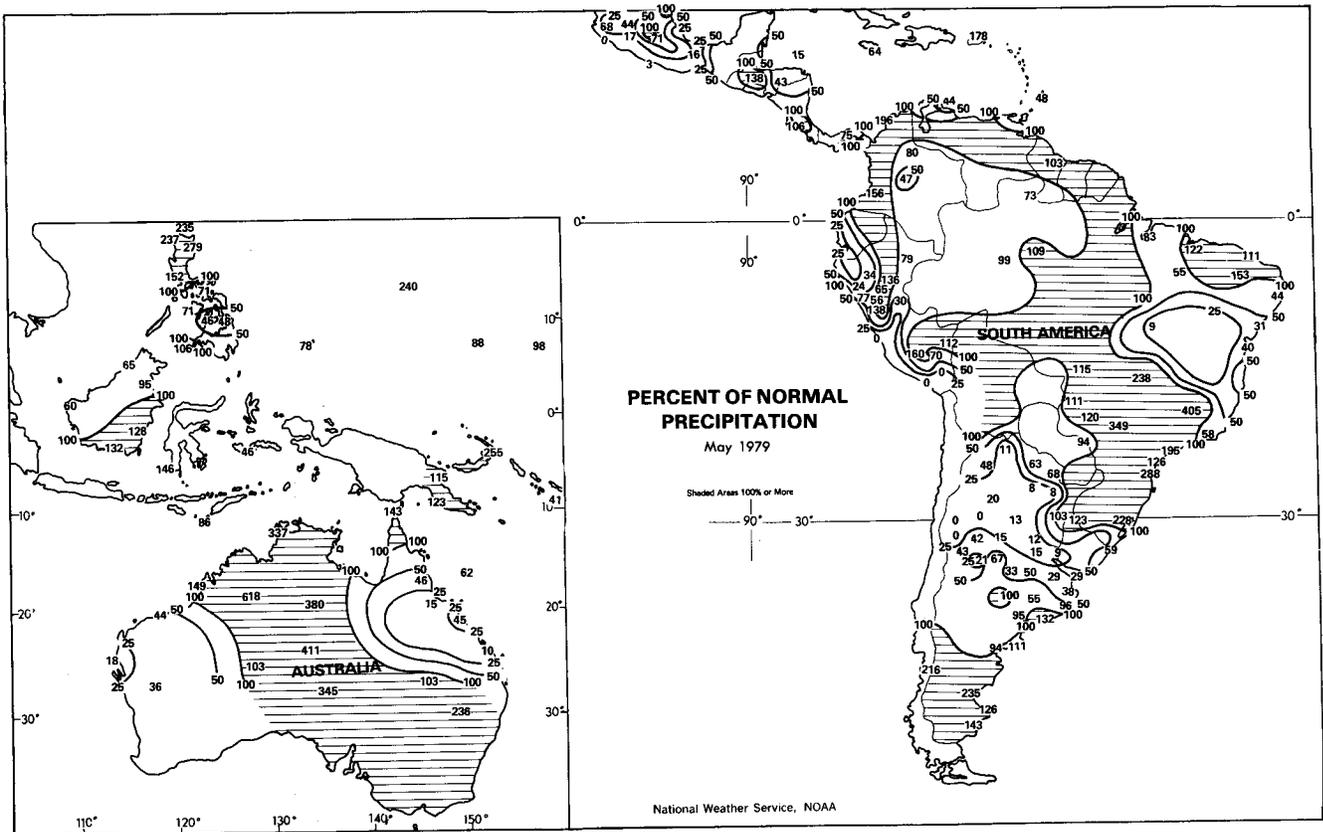
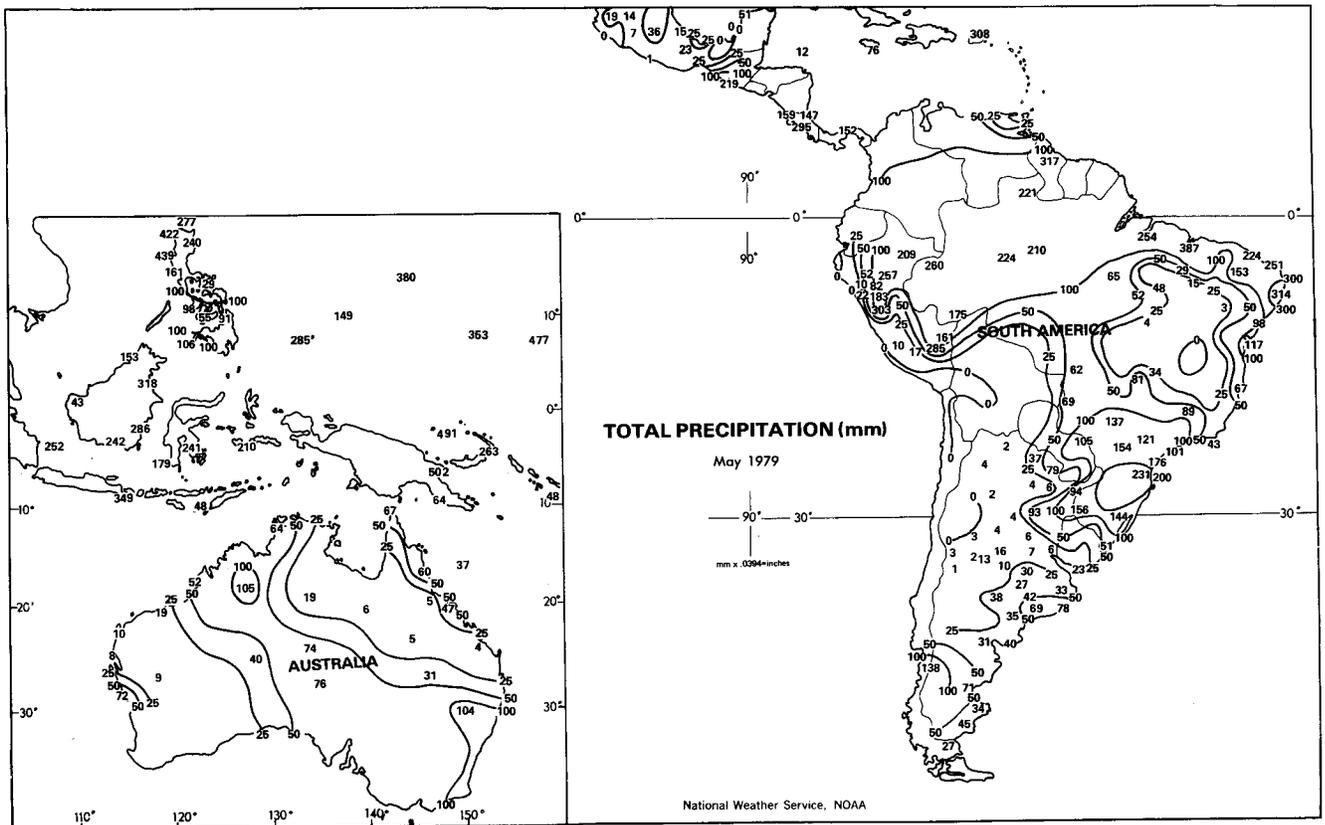


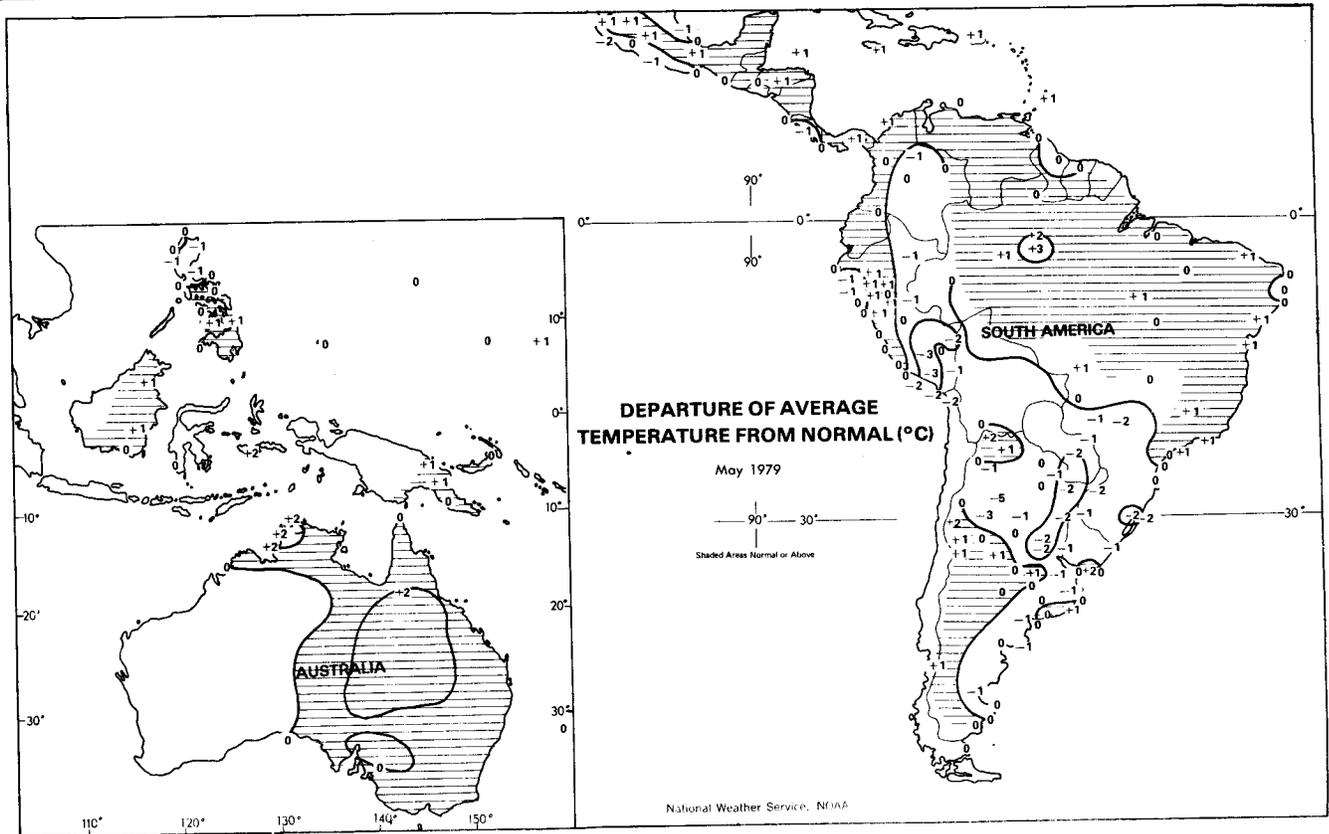
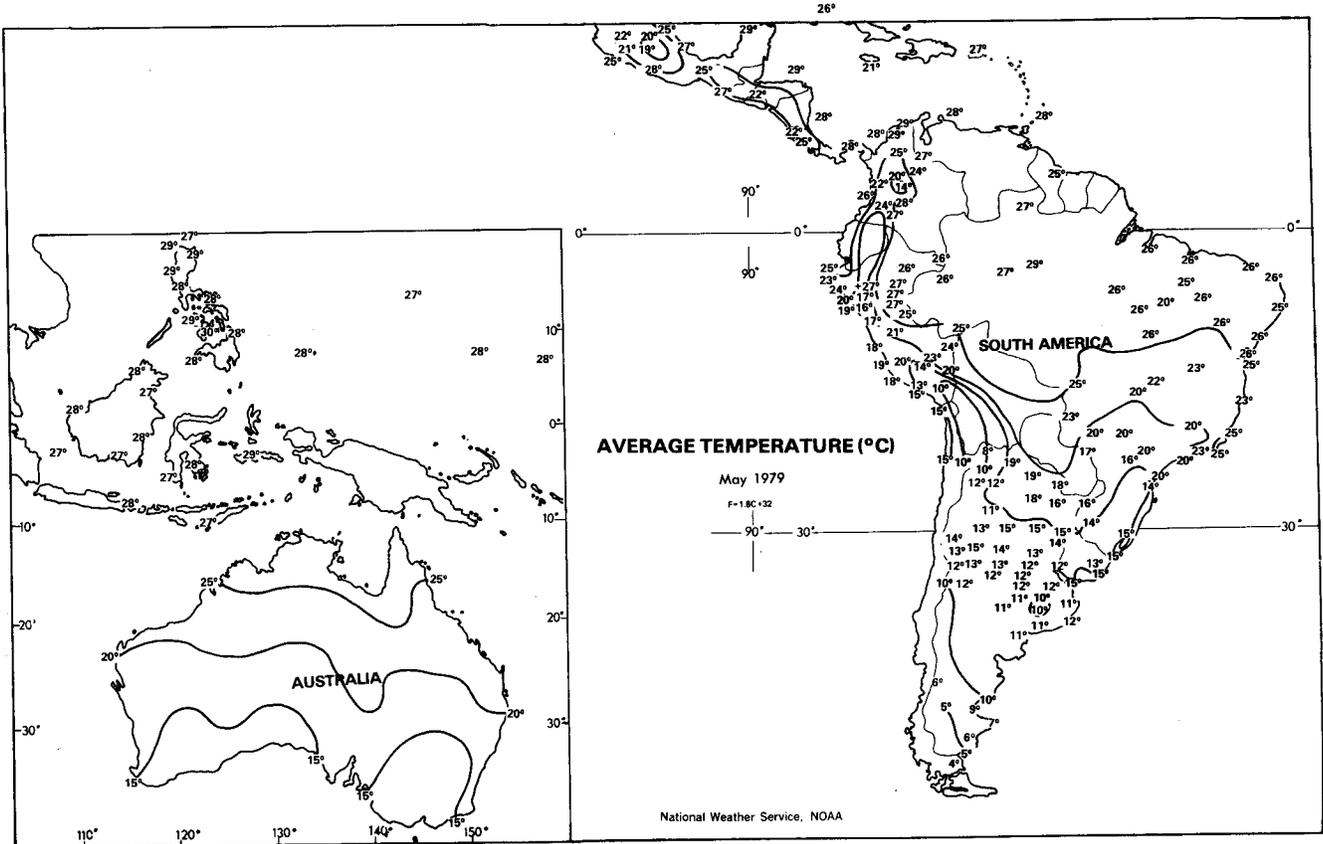
### World Weather and Crop Update

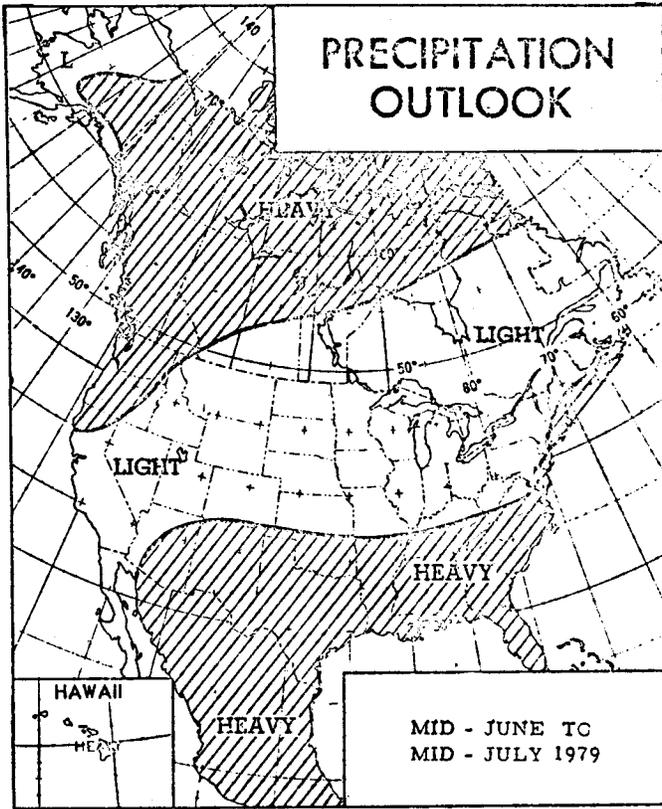




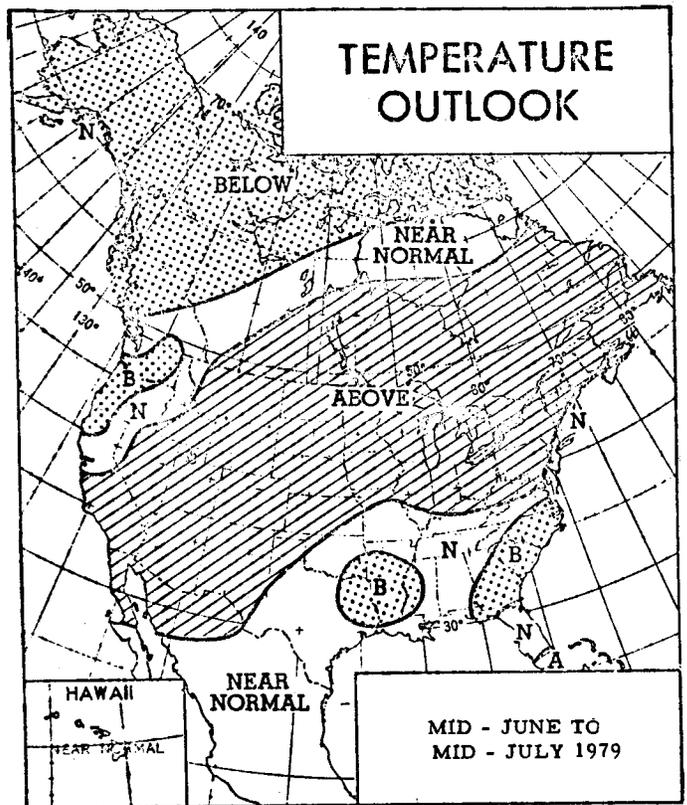


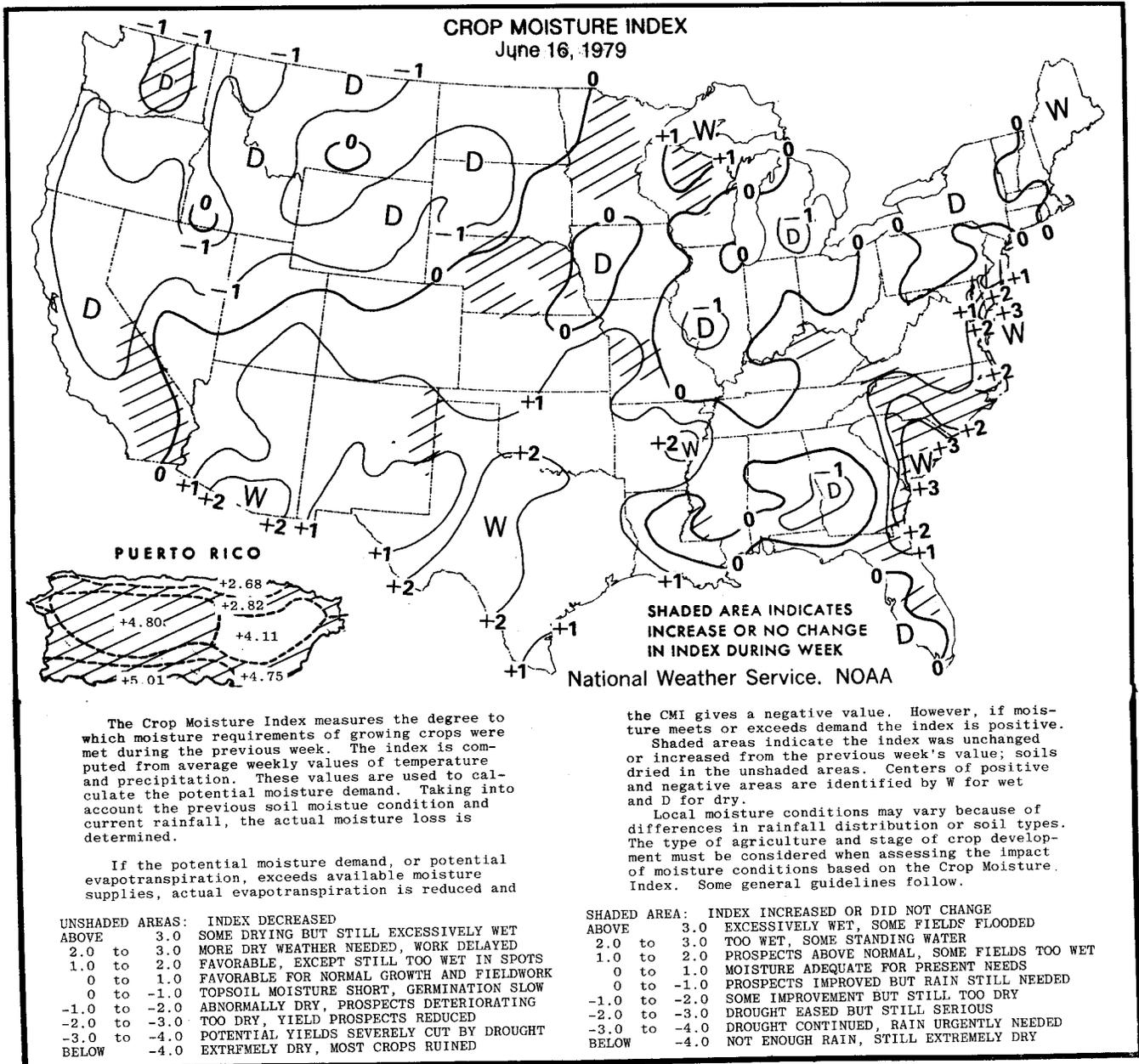






Average Monthly Weather Outlook





The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive.

Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

HIGH DEMAND FOR CROP MOISTURE HAS RESULTED IN NET DRYING IN MOST PARTS OF THE NATION. SOME PARTS OF TEXAS AND THE MISSISSIPPI DELTA ARE STILL TOO WET BUT DRYING HAS BEEN RAPID. NO GENERAL AREAS ARE SERIOUSLY SHORT OF CROP MOISTURE. A STORM MOVING UP THE EAST COAST SPREAD EXCESSIVE CROP MOISTURE IN COASTAL AREAS FROM NORTHERN FLORIDA TO THE MID-ATLANTIC STATES.

(continued from page 2)

An intense low pressure system over the Utah/Wyoming border spread rain, hail, and some snow over the northern and central portions of the

Rockies and Plateau Region. Showers dotted the Pacific Northwest, and half-inch rains and hail wandered over parts of the Ohio Valley.

Morning temperatures set low records in the Southeast; Tallahassee dipped to 64°, and Augusta, eastern Georgia, registered 55°.



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**SEEDING PROGRESS**  
 FOR WEEK ENDING JUNE 17

SOYBEANS			
	1979	1978	AVG.
ALA	86	84	82
ARK	56	78	76
GA	87	85	84
ILL	97	86	87
IND	95	85	83
IOWA	100	98	100
KANS	70	70	70
KY	75	75	75
LA	87	86	80
MICH	98	95	90
MINN	100	100	100
MISS	74	79	71
MO	85	70	76
NEBR	100	100	100
NC	75	78	80
OHIO	98	95	98
SC	83	86	84
TENN	72	78	76
<b>18 STATES</b>	<b>88</b>	<b>86</b>	<b>85</b>

THESE 18 STATES PRODUCED 95%  
 OF THE 1978 SOYBEAN CROP.

WINTER WHEAT COLORING			
	1979	1978	AVG.
CALIF	99	NA	NA
COLO	11	30	36
IDAHO	NA	NA	NA
ILL	78	36	79
IND	25	NA	NA
KANS	50	70	75
MO	72	85	100
MONT	NA	NA	NA
NEBR	1/	10	40
OHIO	35	15	40
OKLA	NA	NA	NA
OREG	4	NA	NA
S DAK	NA	NA	NA
TEX	93	NA	NA
WASH	NA	NA	NA

GRAIN SORGHUM			
	1979	1978	AVG.
COLO	80	94	88
KANS	70	75	75
MO	79	67	79
NEBR	100	100	100
OKLA	80	75	85
S DAK	94	86	92
TEX	93	93	94
<b>7 STATES</b>	<b>85</b>	<b>85</b>	<b>87</b>

THESE 7 STATES PRODUCED 92%  
 OF THE 1978 GRAIN SORGHUM  
 CROP.

COTTON				COTTON SQUARING			
	1979	1978	AVG.		1979	1978	AVG.
ALA	100	100	100	ALA	12	9	NA
ARIZ	100	NA	NA	ARIZ	90	NA	NA
ARK	100	100	100	ARK	1/	NA	NA
CALIF	100	100	NA	CALIF	20	NA	NA
OR	100	NA	NA	GA	79	47	48
LA	100	100	100	LA	12	NA	NA
MISS	100	100	100	MISS	14	80	25
MO	100	100	100	MO	NA	NA	NA
N MEX	100	NA	NA	N MEX	NA	NA	NA
NC	100	180	100	NC	NA	NA	NA
OKLA	95	85	90	OKLA	NA	NA	NA
SC	100	100	100	SC	61	88	NA
TENN	100	100	100	TENN	NA	NA	NA
TEX	93	94	96	TEX	17	NA	NA
<b>14 STATES</b>	<b>98</b>	<b>98</b>	<b>99</b>				

THESE 14 STATES PRODUCED 99%  
 OF THE 1978 COTTON CROP.

NA NOT AVAILABLE  
 1/ LESS THAN 5%