

# WEEKLY WEATHER AND CROP BULLETIN

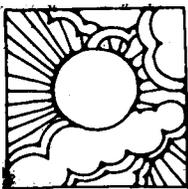
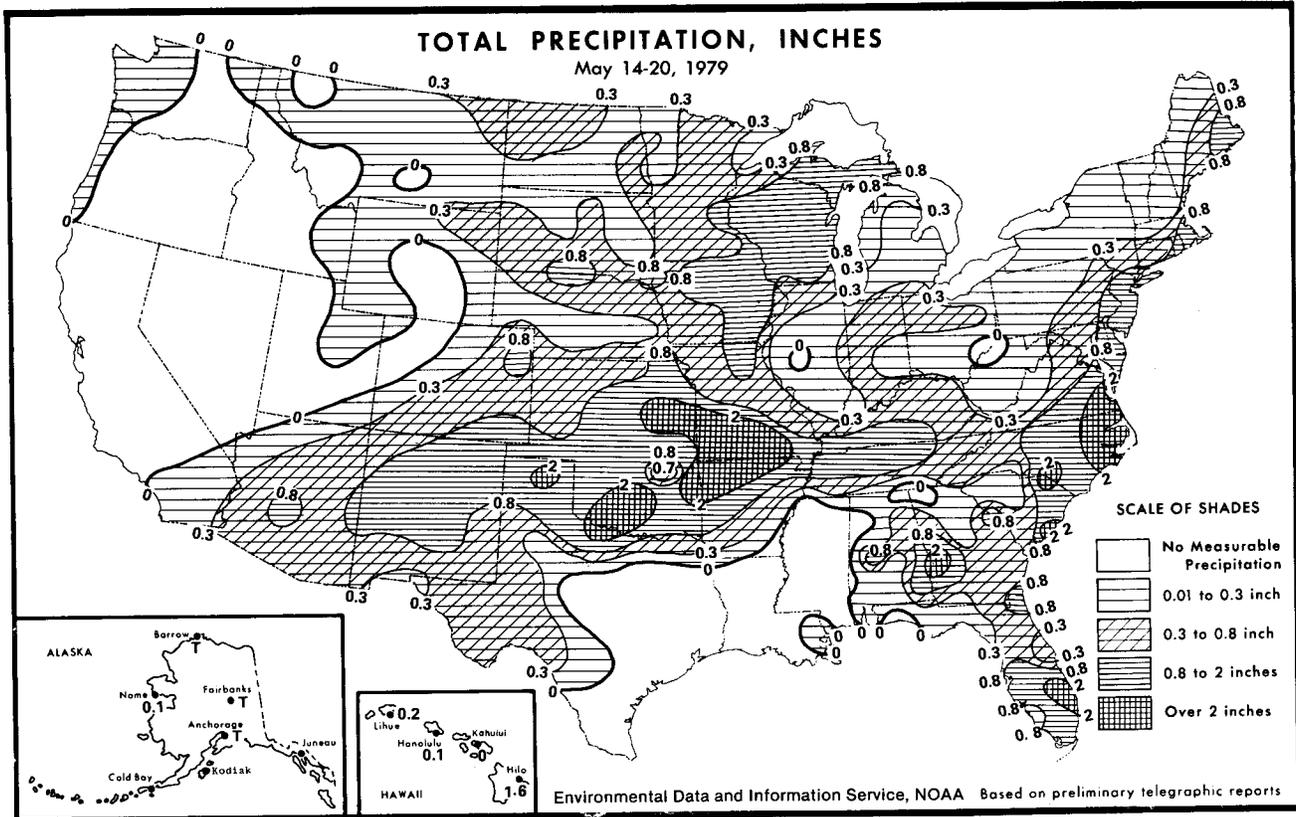
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Environmental Data and Information Service, NOAA

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Economics, Statistics, and Cooperatives Service

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May 22, 1979



## National Weather Summary

May 14 - 20

**HIGHLIGHTS:** Moderate to heavy showers and thunderstorms brought rain to an area from central Arizona to the lower Ohio Valley. Heavy amounts soaked parts of the Oklahoma/Texas border, northern Arkansas, and southern Missouri. Moderate to heavy rains also fell in the Southeast and along the Eastern Seaboard. Little or no rain fell in Mississippi, Louisiana, and southeastern Texas. The eastern Corn Belt recorded only light showers, but portions of Iowa accumulated more than an inch.

Average temperatures ranged well above normal from California through the Plateau Region and from the Texas Panhandle to central Illinois.

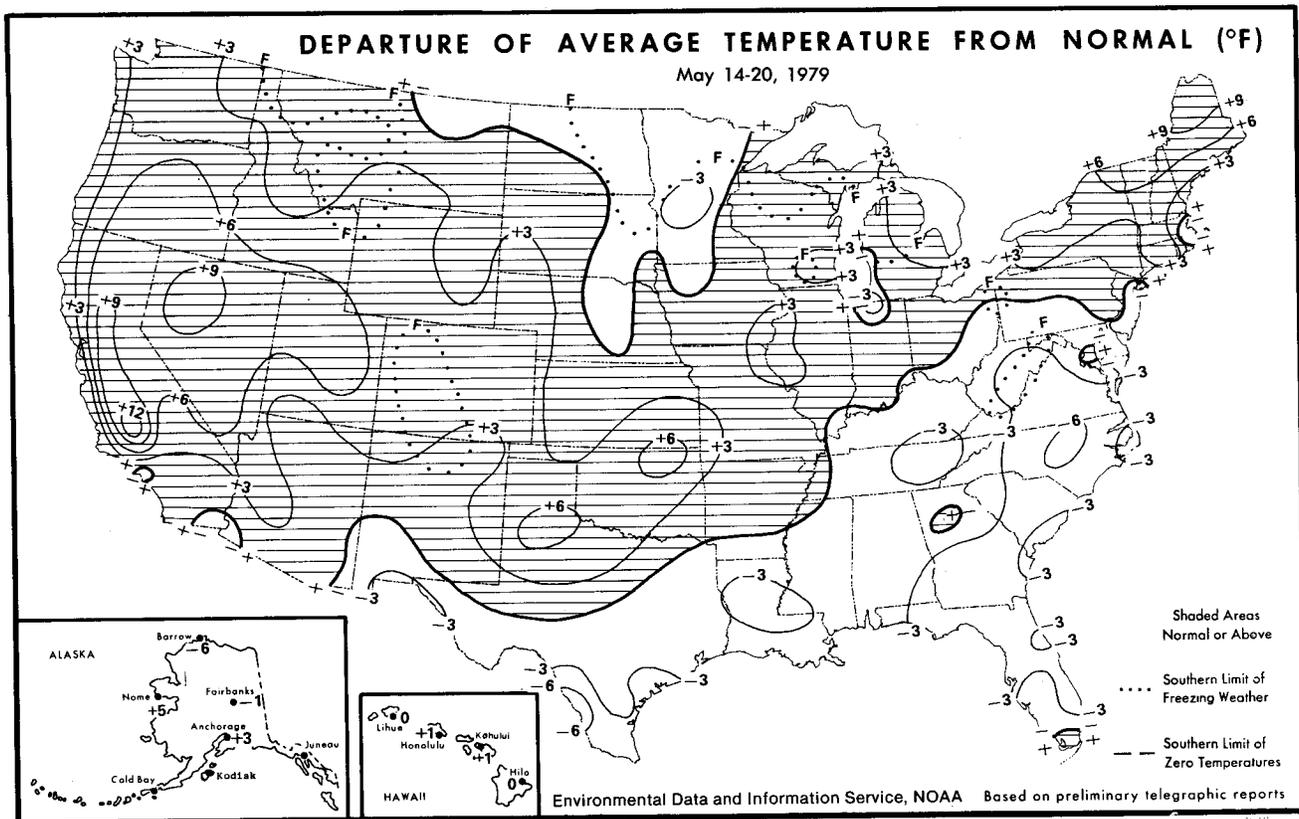
Readings were a bit cooler than normal in the northern Plains and Southeast.

On Monday, a cold front moved over the Atlantic Coast States triggering rain from Maine to Florida. The heaviest rain fell along the southern half of the coast; Hatteras, on the North Carolina coast, received an inch; Charleston, S.C., scored more than 2 inches; and Vero Beach, eastern Florida, notched more than an inch and three-quarters. Hail peppered an area near Tampa. A tornado touched down near Lawtey, northeastern Florida.

Thunderstorms with hail rolled over parts of the Midwest; two tornadoes hit eastern Illinois.

The mercury dipped to record low temperatures in Louisiana; Baton Rouge showed a record-equaling 51°, and Lake Charles saw a new mark at 53°.

Showers and thunderstorms lingered over the Atlantic Coast on Tuesday. Nearly an inch of rain dampened Chatham, eastern Massachusetts, the Washington, D.C. area, and Miami. A few showers moistened the northern portions of the Rockies and Plains and parts of the eastern Ohio Valley.



On Wednesday, light showers again popped up over parts of the Atlantic Coast, but amounts ranged well below an inch in New England and Florida.

Thunderstorms rumbled over the northern sections of the Rockies and Plains, while showers left three-quarters inch of rain on southeastern New Mexico. Hail fell on areas surrounding Minot, northern North Dakota.

Early morning dawned chilly over the upper Midwest; Madison, Wisc., posted a record low 29°. Afternoon readings soared in South Dakota; new marks showed 91° at Rapid City and 94° at Philip. To the south, the 90° at the New Orleans airport tied the record high.

Thunderstorms cropped up over several regions of the Nation on Thursday. The heaviest rainfall, however, showed only an inch at Minneapolis and a half-inch at Key West, Fla., and the western parts of Oklahoma and Kansas. Lighter amounts moistened the Texas Panhandle and New Mexico.

The previous day's heat over the northern Plains edged into Minnesota; Minneapolis, at 91°, tied its 1911 mark before the rains hit. Readings dipped sharply behind the warm air; Rapid City's record high temperature on Wednesday gave way to 50°. Early morning temperatures cooled northeastern Ohio, where Cleveland tied the 1895 record with 33°.

On Friday, a slow-moving front set off thunderstorms from Oklahoma to Wisconsin; nearly an inch covered Mason City, northern Iowa, and La Crosse, western Wisconsin. Hail peppered the two States, and a tornado was sighted near Garden City, southwestern Kansas.

Heavy showers gathered over the lower two-thirds of the Atlantic Coast. More than one and one-half inches soaked Norfolk, southeastern Virginia.

Half-inch rains dampened New York City and West Palm Beach, eastern Florida.

Half-inch showers also dotted portions of the northern Plains and Great Lakes area.

Tallahassee, Fla., at 48°, marked a record low temperature in the morning.

Rain continued over the central Atlantic Coast and Great Lakes Region on Saturday; Norfolk, Va., and Wausau, central Wisconsin, called in about an inch.

By day's end, severe storms blossomed over the Southeast, Great Plains, and Southwest. Fort Benning, west central Georgia, measured nearly 3.5 inches; an inch and one-half soaked Springfield, southern Missouri, and Chanute, southeastern Kansas; and the Phoenix area registered an inch and one-half. Hail hit the southern parts of Missouri and Kansas as well as the Topeka vicinity and the Texas Panhandle.

On Sunday, severe storms marched over the southern Plains, middle Mississippi Valley, and Arkansas and Tennessee. The 24-hour total at Springfield, Mo., reached 3.5 inches. Wichita Falls, northern Texas, got nearly 3.5 inches, and Oklahoma City noted two and three-quarters inches. In Arkansas, Fort Smith and Blytheville both notched about 2 inches. To the east, Dyersburg, western Tennessee, had 1.3 inches.

In the Southwest, Phoenix weathered more rain, and one-half to three-quarters inch of rain extended to New Mexico and Colorado.

Hail, high winds, and tornadoes bore down on West Texas. Hail hit Childress; 85 mph winds raced over Crowell; and a twister damaged Stanton. Northern Arkansas experienced high winds and localized flooding.



## National Agricultural Summary

May 14 - 20

**HIGHLIGHTS:** Light rainfall and higher temperatures in most areas of the Nation gave farmers a good chance to prepare land and plant crops. Most States had five days or more suitable for fieldwork. Plowing was well advanced and ranged from 80 to 95% complete in the central States. Cotton planting advanced to 66%, equaling the average but ahead of the 60% last year. Rice planting stood at 83%, lagging last year's 90% and the 94% average. Spring wheat planting reached 43%, well behind 1978's 68% and the 71% average. About a third of the corn crop was planted during the past week and stood at 67% complete, falling between last year's 57% and the 75% average. Soybean planting advanced to 23%, surpassing last year's 15% but short of the 33% average. Grain sorghum planting advanced to 35%, edging ahead of last year's 33% but lagging the 41% average. Oats planting neared completion except in North Dakota and stood at 78%, short of 87% in 1978 and the 97% average. Barley seeding reached 49%, short of last year's 72% and the 75% average. Fall potato planting stayed on schedule except in the Red River Valley. Peanut planting moved far ahead of last year except in Texas. Pastures generally rated good to excellent providing adequate forage. Deciduous fruit bloom advanced into extreme northern areas while peach harvest advanced in the South. Improved weather conditions aided planting of peas, sweet corn, and other vegetable crops in northern areas. Harvest of various vegetable crops advanced into the Carolinas. Fuel supplies generally rated adequate, although supplies tightened from the previous week. Only a few localities reported fuel short enough to interfere with fieldwork.

**SMALL GRAINS:** Winter wheat rated mostly good throughout major production areas. Heading advanced to about 30% in Kansas and Missouri and 40% in Illinois. Harvesting spread across the South and reached 1% in Texas. Most of the Oklahoma crop headed and 20% reached the dough stage, 5 points ahead of last year but 15% less than average. The Texas crop grew well but needed additional rain on the High Plains.

Spring wheat seedings advanced 23 points during the week to reach 43%, far behind last year's 68% and the 71% average. Idaho and South Dakota planting was almost complete, but Minnesota, Montana, and North Dakota seedings lagged. Oats seeding stood at 14% in North Dakota, but proceeded well along in other major States although lagging recent years. Barley seedings almost equaled recent years in all major States except North Dakota at 16% and Minnesota at 24%, which stood at a quarter to a third of normal.

**CORN:** Farmers planted 33% of the Nation's corn during the past week with the advantage of clear weather giving 5 to 6 days suitable for fieldwork in the Corn Belt. Planting stood at 67%, surpassing last year's progress of 57% but short of the 75% average. Planting advanced 31 points in the eastern Corn Belt to reach 66%, well ahead of last year's 41% and almost equal the 67% average. In the western Corn Belt planting advanced 38 points to stand at 61%, lagging 1978's 65% and the 76% average. In the Southeast, planting reached 95%, surpassing 1978's 88% and the 93% average.

**SOYBEANS:** Soybean planting stood at 23%, a 17-point increase for the week, and ahead of last year's 15% but shy of the 33% average. Some growers already finished planting corn and switched to soybeans. In the Southeast, seedings reached 43%, ahead of 1978's 22% and the 33% average. In the eastern north central States, planting reached 30%, a 23-point increase for the week and well ahead of 1978's 5% but short of the 35% average. In the western north central States, plantings hit 15%, a 14-point increase for the week but short of the 22% last year and the 36% average. In the south central States, planting managed 20%, surpassing last year's 16% but 7 points less than the 27% average.

**COTTON:** Cotton planting advanced to 66%, equaling the average and surpassing the 60% last year. Seeding neared completion in the Southeast and the Southwest and continued in the south central States; progress generally surpassed 1978. The crop rated fair to good. Squaring began in Georgia, Arizona, and Texas. Bolls formed in the lower Rio Grande Valley. Dryland stands on the Texas Plains needed moisture for better growth.

**OTHER CROPS:** Grain sorghum planting advanced throughout the Great Plains and stood at 35%, 2 points more than last year but 6 points less than the average. Progress ranged from 73% in Texas to only 1% in South Dakota. Texas sorghum headed in the south and colored in the lower Rio Grande Valley.

Rice seeding reached 83%, closing the gap with last year's 90% and the 94% average. High temperatures improved growth in Texas.

Peanut seeding maintained its lead over last year and generally equaled the average. Higher soil temperatures helped Texas growers make good progress.

**FRUITS AND NUTS:** Deciduous tree bloom advanced into New England, Michigan, and the Pacific Northwest. Low temperatures hurt fruit in some areas; Washington growers avoided using heaters in spite of low temperatures. Peach picking spread across the South from South Carolina to California. California growers also picked cherries. Texas pecan growers sprayed to combat casebearers. Young California almond trees produced heavy sets.

California citrus growers picked Valencias, lemons, and grapefruit. Arizona Valencia and grapefruit harvests tapered off. Light rain in Florida produced excellent grove conditions, good foliage color, and reduced irrigation activity. Florida orange harvest continued active; grapefruit picking tapered off.

**VEGETABLES:** Improved weather conditions gave farmers a chance to plant peas, sweet corn, cauliflower, broccoli, and carrots in northern production areas. Asparagus harvests continued in the West and Michigan, where picking reached 25%. Harvests of snap beans, cucumbers, and cabbage advanced into South Carolina. Florida vegetable shipments increased 31% with strong increases from potatoes, tomatoes, and watermelons. Drier conditions in Texas improved planting conditions, growth, and development of vegetable crops. California fresh market tomato harvest started in the Imperial Valley.

**PASTURE AND LIVESTOCK:** Grasslands rated good to excellent providing average to abundant supplies of forage. Cattle in most areas of the Nation moved to summer rangelands. Some cattle in northern areas of the Nation remained on supplemental feed. Herds generally rated good; animals gained weight.

Temperature and Precipitation Data for the Week Ending Midnight, L.s.t., May 20, 1979

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	70	-1	.3	-.5	LA. Baton Rouge . . .	72	-3	0	-1.0	Youngstown . . .	57	-1	.1	-.8
Mobile . . .	73	-2	T	-1.0	Lake Charles . . .	74	-1	0	-1.2	OKLA. Okla. City . . .	72	+4	2.9	+1.7
Montgomery . . .	71	-2	T	-.8	New Orleans . . .	74	-1	.1	-.9	Tulsa . . .	75	+6	.1	-1.1
ALASKA. Anchorage . . .	50	+3	T	-.1	Shreveport . . .	71	-3	0	-1.1	OREG. Astoria . . .	55	+2	.1	-.5
Barrow . . .	14	-6	T	0	MAINE. Caribou . . .	61	+11	.1	-.6	Burns . . .	59	+6	0	-.2
Fairbanks . . .	47	-1	T	-.1	Portland . . .	55	+2	.6	-.2	Medford . . .	63	+5	0	-.4
Juneau . . .	--	--	--	--	MD. Baltimore . . .	63	-1	.7	-.1	Pendleton . . .	64	+4	0	-.3
Kodiak . . .	--	--	--	--	MASS. Boston . . .	58	-1	1.3	+ .5	Portland . . .	63	+4	0	-1.5
Nome . . .	41	+5	.1	0	Chatham . . .	53	--	1.9	--	Salem . . .	60	+4	0	-.5
ARIZ. Flagstaff . . .	50	0	.7	+ .6	MICH. Alpena . . .	54	+3	.5	-.1	PA. Allentown . . .	61	+1	.9	+ .1
Phoenix . . .	80	+3	.8	+ .8	Detroit . . .	59	+1	.2	-.5	Erie . . .	55	0	.4	-.4
Tucson . . .	74	0	.3	+ .3	Flint . . .	59	+3	.1	-.6	Harrisburg . . .	62	-1	.5	-.4
Winslow . . .	63	0	.5	+ .4	Grand Rapids . . .	59	+2	T	-.7	Philadelphia . . .	64	-0	1.5	+ .7
Yuma . . .	78	-1	.3	+ .3	Houghton Lake . . .	56	+3	.1	-.5	Pittsburgh . . .	59	-1	T	-.8
ARK. Fort Smith . . .	71	+1	3.1	+1.8	Lansing . . .	59	+2	.1	-.7	Scranton . . .	59	0	.5	-.3
Little Rock . . .	72	+2	.4	-.8	Marquette . . .	49	+1	1.4	+ .6	R.I. Providence . . .	60	+3	1.0	+ .2
CALIF. Bakersfield . . .	83	+13	0	0	Muskegon . . .	55	-1	.4	-.2	S.C. Charleston . . .	71	-1	2.5	+1.6
Eureka . . .	53	0	T	-.5	S. Ste. Marie . . .	52	+3	1.0	+ .3	Columbia . . .	66	-6	.2	-.6
Fresno . . .	77	+9	0	-.1	MINN. Duluth . . .	51	+1	2.2	-.6	Greenville . . .	68	-1	1.1	-.5
Los Angeles . . .	64	-1	0	0	Internatl Falls . . .	48	-2	.3	-.3	S.D. Aberdeen . . .	57	+1	.2	-.4
Red Bluff . . .	77	+9	0	-.2	Minneapolis . . .	59	+2	1.2	+ .4	Huron . . .	55	-2	T	-.6
San Diego . . .	64	+1	.1	+ .1	Rochester . . .	58	+1	.6	-.2	Rapid City . . .	58	+3	.3	-.3
San Francisco . . .	59	+1	T	-.1	St. Cloud . . .	51	-4	.3	-.5	Sioux Falls . . .	59	+1	.2	-.6
Stockton . . .	73	+8	0	-.1	MISS. Jackson . . .	71	-2	0	-1.0	TENN. Chattanooga . . .	67	-2	T	-.8
COLO. Denver . . .	61	+4	.2	-.4	Meridian . . .	70	-2	0	-.8	Knoxville . . .	66	-3	.6	-.1
Grand Junction . . .	67	+4	0	-.1	MO. Columbia . . .	67	+2	.6	-.5	Memphis . . .	73	+2	T	-1.0
Pueblo . . .	63	+2	.4	0	Kansas City . . .	66	+2	.7	-.3	Nashville . . .	66	-3	.9	0
CONN. Bridgeport . . .	62	+3	.8	0	St. Louis . . .	68	+2	.1	-.7	TEX. Abilene . . .	76	+4	0	-.9
Hartford . . .	63	+4	.4	-.4	Springfield . . .	67	+2	3.7	+2.6	Amarillo . . .	69	+3	1.0	+ .3
D.C. Washington . . .	67	+1	.2	-.6	MONT. Billings . . .	59	+4	T	-.5	Austin . . .	73	-2	T	-.9
FLA. Apalachicola . . .	72	-3	T	-.6	Glasgow . . .	54	-1	.3	0	Beaumont . . .	73	-2	0	-1.1
Daytona Beach . . .	73	-2	.1	-.4	Great Falls . . .	54	0	.1	-.4	Brownsville . . .	75	-4	T	-.6
Ft. Myers . . .	77	-1	.8	-.1	Havre . . .	55	0	.2	-.1	Corpus Christi . . .	76	-2	0	-.7
Jacksonville . . .	70	-4	.9	+ .2	Helena . . .	55	+2	T	-.4	Del Rio . . .	76	-2	.4	-.2
Key West . . .	81	0	.6	+ .1	Kalispell . . .	53	+2	T	-.4	El Paso . . .	69	-3	.1	0
Lakeland . . .	--	--	--	--	Miles City . . .	58	+1	.1	-.4	Fort Worth . . .	73	0	T	-1.0
Miami . . .	78	0	1.6	+ .2	Missoula . . .	54	+1	.1	-.3	Galveston . . .	75	-1	0	-.7
Orlando . . .	74	-3	.2	-.4	NEBR. Grand Island . . .	60	-1	T	-.9	Houston . . .	74	-2	0	-1.2
Tallahassee . . .	69	-6	.1	-.8	Lincoln . . .	63	+1	T	-.8	Lubbock . . .	75	+6	.1	-.7
Tampa . . .	74	-3	.8	+ .3	Norfolk . . .	61	+1	.6	-.2	Midland . . .	74	+2	.8	+ .2
W. Palm Beach . . .	73	-5	2.4	+1.2	N. Platte . . .	61	+2	T	-.8	San Angelo . . .	75	0	0	-.6
GA. Atlanta . . .	70	+1	.1	-.7	Omaha . . .	63	+2	.5	-.4	San Antonio . . .	74	-2	.1	-.6
Augusta . . .	69	-3	.6	-.2	Valentine . . .	58	+1	1.0	+ .4	Victoria . . .	73	-4	T	-.9
Macon . . .	70	-4	T	-.8	NEV. Ely . . .	57	+7	0	-.2	Waco . . .	73	-2	0	-1.1
Savannah . . .	75	+1	.1	-.9	Las Vegas . . .	80	+6	0	0	Wichita Falls . . .	76	+4	3.4	+2.3
HAWAII. Hilo . . .	74	0	1.6	-.7	Reno . . .	62	+7	T	-.2	UTAH. Blanding . . .	62	+5	.1	0
Honolulu . . .	78	+1	.1	-.1	Winnemucca . . .	64	+10	0	-.2	Salt Lake City . . .	66	+7	0	-.3
Kahului . . .	76	+1	0	-.1	N.H. Concord . . .	57	+2	.2	-.5	VT. Burlington . . .	61	+6	.2	-.5
Lihue . . .	76	0	.2	-.4	N.J. Atlantic City . . .	61	-1	.9	+ .1	VA. Lynchburg . . .	61	-4	.7	0
IDAHO. Boise . . .	61	+3	0	-.3	Trenton . . .	60	-2	.8	0	Norfolk . . .	63	-4	4.0	+3.2
Lewiston . . .	62	+4	0	-.4	N.MEX. Albuquerque . . .	67	+1	.9	+ .8	Richmond . . .	63	-4	1.3	+ .5
Pocatello . . .	60	+5	T	-.3	Roswell . . .	71	+2	.8	+ .6	Roanoke . . .	61	-4	.1	-.7
ILL. Cairo . . .	71	+2	.7	-.5	N.Y. Albany . . .	60	+2	.2	-.6	WASH. Colville . . .	57	+2	T	-.4
Chicago . . .	62	+2	.2	-.6	Binghamton . . .	56	+1	.3	-.6	Omak . . .	61	+3	0	-.3
Moline . . .	65	+4	.4	-.5	Buffalo . . .	60	+5	.1	-.6	Quillayute . . .	52	+1	.1	-.9
Peoria . . .	63	+1	.1	-.7	New York . . .	61	-1	.8	0	Seattle-Tacoma . . .	59	+4	T	-.4
Rockford . . .	60	+1	.5	-.3	Rochester . . .	60	+3	.1	-.5	Spokane . . .	57	+2	T	-.4
Springfield . . .	67	+3	T	-.8	Syracuse . . .	60	+3	.1	-.5	Walla Walla . . .	65	+4	0	-.4
IND. Evansville . . .	64	-2	.2	-.8	N.C. Asheville . . .	62	-2	.5	-.3	Yakima . . .	62	+4	T	-.1
Ft. Wayne . . .	62	+2	.5	-.4	Charlotte . . .	65	-4	.1	-.5	W.VA. Beckley . . .	57	-1	T	-.9
Indianapolis . . .	62	0	.1	-.8	Greensboro . . .	62	-5	1.0	+ .3	Charleston . . .	61	-4	.1	-.7
South Bend . . .	56	-3	.3	-.4	Hatteras . . .	65	-2	2.2	+1.5	Huntington . . .	63	-2	.2	-.7
IOWA. Burlington . . .	65	+3	.1	-.7	Raleigh . . .	62	-6	1.2	+ .4	Parkersburg . . .	62	-2	.2	-.8
Des Moines . . .	63	+2	.3	-.7	Wilmington . . .	68	-3	1.4	+ .5	WISC. Green Bay . . .	57	+2	1.4	+ .7
Dubuque . . .	60	+2	.6	-.5	N.DAK. Bismarck . . .	55	0	.1	-.4	La Crosse . . .	61	+2	1.6	+ .8
Sioux City . . .	61	0	.4	-.4	Fargo . . .	54	-1	.2	-.3	Madison . . .	59	+3	1.4	+ .6
KANS. Concordia . . .	64	+1	.6	-.4	Williston . . .	54	0	.7	+ .4	Milwaukee . . .	58	+4	.1	-.5
Dodge City . . .	66	+2	.5	-.2	OHIO. Akron-Canton . . .	58	-1	.4	-.5	WYO. Casper . . .	55	+2	T	-.5
Goodland . . .	62	+3	.5	-.1	Cincinnati . . .	61	-2	T	-.8	Cheyenne . . .	56	+3	.2	-.4
Topeka . . .	66	+1	1.1	+ .2	Cleveland . . .	58	0	.1	-.7	Lander . . .	56	+3	0	-.6
Wichita . . .	69	+3	1.0	+ .2	Columbus . . .	64	+3	T	-.9	Sheridan . . .	56	+3	.3	-.3
KY. Lexington . . .	64	-1	.5	-.4	Dayton . . .	63	+1	.1	-.7	P.R. San Juan . . .	80	+1	5.1	+3.6
Louisville . . .	65	0	.3	-.7	Toledo . . .	60	+1	.3	-.5					

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 near normal. Cool nights, warm days early. Warm, humid 19th to 20th. Rain-fall limited, scattered thundershowers on 19th; most locations under 0.50 in.

Fieldwork: 5.3 days suitable. Soil moisture adequate, getting short. Planting main activity. Corn planted 94%, 86% 1978, 87% average. Soybeans planted 42%, 22% 1978, 36% average. Cotton planted 96%, 83% 1978, 91% average. Peanuts planted 92%, 65% 1978, 84% average. Sorghum planted 30%, 27% 1978. Wheat: Headed 99%, 94% 1978, 99% average; turning 56%, 29% 1978; harvested 8%, 10% average. Crops, pastures mostly good condition.

**ALASKA:** Warm, dry week. No rain fell other than light afternoon showers. Seasonal rainfall far below normal.

Dry, windy weather permitted fieldwork nearly all areas of railbelt. Oats and barley seeding for grain ranged from 10% to virtually complete. Last year progress ranged 25% to complete. Earlier seeded fields have emerged in the Matanuska Valley. Potato and vegetable planting excellent progress. Topsoil moisture supplies short to adequate. Livestock in mostly good condition.

**ARIZONA:** Upper level low moved in from Pacific across northern Mexico and southern Arizona producing showers and thunderstorms over much of eastern two-thirds 18th through 20th. Amounts between 0.25 to 0.75 in. and mostly over 1.50 in. in south central. Snow 1 to 2 in. fell 9,000 ft. level east central and southeastern mountains. Temperatures raised over 3° normal to 3° below.

Cotton planting near complete; limited seeding in southeast. In Yuma squaring increasing. Central cotton making satisfactory progress. Cutting alfalfa hay gaining momentum, harvest third crop underway. Harvest barley and wheat making normal progress. Crops maturing rapidly. Grain sorghum good progress. Good bloom developing in safflower. Sugarbeets in Yuma near maturity, earliest fields being harvested. Yuma cantaloup crop good progress. Early fruit sizing well. Lettuce virtually complete. Harvest dry onions and potatoes seasonal progress. Valencia oranges and grapefruit tapering off. Range, pasture good. Stock water, soil moisture adequate. Feed on ranges normal. Cattle, calves good, some movement summer ranges.

**ARKANSAS:** Dry week; showers by weekend. Temperatures normal. Lowest normal 66°, highest 72°. Lowest mean 66°; highest 74°. Extremes: 43 and 90°. Least precipitation 0.0; most 0.98 in.

Planting active. Fieldwork: 4.8 days available. Soil moisture adequate. Soybean early planted fields up to good stand. Planting progress 10%, 12% 1978; 20% average. Cotton fair; acceptable stand 30%; seeding 81%, 70% 1978; 79% average. Rice fair; germination and emergence fair to good; seeding 72%, 85% 1978, 86% average. Corn and sorghum fair to good. Favorable germination and stands. Corn planting 70%, 81% 1978, 79% average. Sorghum planting 56%, 65% 1978 and average. Small grain crops good. Strawberry harvest active, excellent quality. Tomatoes fair to good. Apples, peaches, grapes good to excellent. Pasture average forage. Hay crops good condition. Cattle good condition, gaining weight.

**CALIFORNIA:** Some showers developed in southwest desert late in week.

Rice 82% planted, 75% year ago; 46% emerged. Cotton virtually all planted; 99% emerged. Small grains 70% turning color stage. Corn planting 70% completed; 49% emerged. Thinning fresh market stone fruit wound down. Deciduous fruit and nuts good growth. Early cherries, peaches picked, cling peach thinning underway. Grapes good growth, irrigated, sulfured. Olives bloomed. Valencia orange harvest increased. Lemons, grapefruit picked. Young almond trees heavy sets. Artichokes decreasing slightly. Asparagus harvest continued heavy with most production to processors. Celery harvest started central coast. Lettuce harvest active central coast, south bay. Planting fall crop potatoes central, north. Spring potato movement increasing Kern. Strawberry movement heavy, south coast production going to freezers. Market tomato harvest started Imperial Valley. Feed conditions excellent. Ranges maturing. Livestock movement summer ranges continued. Cattle making good gains. Stockwater supplies excellent. Spring lambs moving to market.

**COLORADO:** Showers, thunderstorms along front range and eastern plains last half of week. Amounts averaged 0.10 in. Temperature normal to 2° above normal.

Winter wheat condition good; jointed 66%, 57% 1978, 75% average; headed 5%. Spring wheat seeded 62%, emerged 55%. Barley, 87% seeded, 93% 1978, 97% average; emerged 76%, 79% 1978. Oats seeded 79%, 93% 1978; emerged 57%, 82% 1978. Corn 69% seeded, 78% 1978, 83% average; emerged 22%, 40% 1978. Sorghum 17% seeded, 8% 1978, 16% average; emerged 12%. Sugarbeets 96% seeded, 100% last year and average; emerged 69%, 82% average. Summer potatoes planted 54%, 91% 1978, 84% average. Fall potatoes 40% planted, 55% 1978, 68% average. Hay crops, ranges and pastures good condition. Fieldwork: 4.5 days suitable. LP gas and gasoline supplies adequate, diesel fuel tight to adequate.

**FLORIDA:** Weak cool front moved southeastward off lower east coast 15th. Fair weather in Panhandle on 14th followed front southward through peninsula during weekend. Scattered afternoon thundershowers central areas 16th, south by 18th. Low humidity and cooler nighttime temperatures behind front with temperatures averaging near normal. Widely scattered thundershowers developed 20th. Precipitation less than 0.25 in. north with 1.00 to 3.00 in. central, south.

Soil moisture variable; adequate central, north, mostly surplus south, upper northeast. Corn good progress, early corn tasseling to milk stage. Peanut planting nearing completion, early plantings up, making mostly good progress. Tobacco good condition, harvest just beginning. Sugarcane good condition. Small grain harvest beginning. Peach harvest continued. Pastures good to excellent. Cattle good condition. Citrus grove condition excellent. Light rain early week, very little irrigation. New foliage color excellent, new crop fruit progressing well. Orange harvest very active; grapefruit all but over for season. Overall vegetable crop condition fair to good, some very good. Many crops declining seasonally. Fruit quality, yields remain mostly good. Size only fair to good due to recent heavy rains but

improving. Harvest active weather permitting. Shipments up 31% from previous week. Supplies potatoes, tomatoes, watermelons up considerably. Harvest snap beans, carrots, chinese cabbage, peppers, radishes increased while celery, cucumbers, okra held steady. Cabbage, sweet corn, eggplant, escarole, lettuce, parsley, squash supplies decreased. Tomato harvest very active, Palmetto-Ruskin area. Size, quality very good. Watermelon supplies steady to slight increase southwest. Quality good. Size variable, mostly 20 to 30 pound range. Volume below normal for this time of year. Harvest increasing west central area. Quality outlook good. First light cuttings central area expected this week. Crops making good progress north. Fruit set good. First harvest expected early June. Panhandle crop making fair progress; vines setting fruit and early melons sizing.

GEORGIA: Temperatures ranged from lower 60's in extreme north to mid-70's south. Extremes: 90 and 40°. Rainfall mostly early week.

Soil moisture adequate except surplus southeast. Fieldwork: 5 days suitable; southeast much less. Wet soils restricted work several areas, especially southeast. Corn fair to mostly good, some water damage southeast. Tobacco fair to good; wet soils caused some lost acreage southeast. Soybeans fair to mostly good; 44% planted, last year 28%, average 35%, wet soils delayed planting early in period, resumed later. Peanuts fair to mostly good; 1% blooming, none last year and average. Cotton fair to mostly good; 1% squaring, none last year and average. Sorghum 34% planted, last year 37%. Peaches good, harvest began south and central; less than 1% picked, same last year and average. Apples good, spraying active. Harvest of wheat and oats began, but less than 1% complete, last year 1%. First good week of haying, condition good. Vegetables fair to mostly good except southeast, too much water. Pastures, cattle, and hogs good.

HAWAII: Weather warm, humid. Cloudy, wet some areas.

Rains beneficial to some dry areas. Crop progress fair to good. Spraying frequent, minimizing insect, disease damage. Vegetable supplies adequate. Banana, papaya supplies light. Showers beneficial. Pineapple harvesting gradually increasing. Sugar harvesting active. Pastures generally fair to good. Good rains Kau, Kohala areas Island of Hawaii beneficial.

IDAHO: Temperatures above normal. Precipitation almost non-existent.

Spring seeding progress accelerated by dry weather. Seeding spring wheat 95% complete, last year and normal 85%. Spring barley 90% seeded, 80% last year. Potato planting 70% complete, the same as last year. Fieldwork: 6 days suitable. Farm diesel fuel supplies tight southwest and south central, other areas adequate but tight some localities. Gasoline supplies generally adequate, tight some localities.

ILLINOIS: Temperatures 1 to 4° above normal. Precipitation ranged 0.20 to 0.70 in. north, east, south. Little or no rain west, central.

Soil moisture adequate. Corn 72% planted, 37% 1978, 73% average. Soybeans 25% planted, 4% 1978, 35% average. Winter wheat good; 40% headed, 15% 1978, 68% average. Oats, alfalfa, red clover, pastures, good. Fieldwork: 5.5 days suitable.

INDIANA: Showers early and late in period. Light over weekend. Totals 0.10 in. southeast, 0.60 in.

northwest, 0.20 to 0.50 in. elsewhere. Temperatures near normal and ranged from 36 to 85°.

Fieldwork: 4 days suitable. Topsoil and subsoil moisture adequate. Pastures mostly good. Spring cropland 95% plowed, 1978 70%, average 95%. Corn 60% planted, 1978 20%, average 70%; 30% emerged. Soybeans 20% planted, 1978 less than 5%, average 35%. Wheat fair to mostly good; 17 in. high, 1978 11 in.; 80% jointed, 1978 40%; 30% in boot or later. Fuel supplies adequate.

IOWA: Near seasonal temperatures and moderate rainfalls.

Topsoil and subsoil moisture adequate. Fertilizer applied: 94%, 1978 81%. Oat acreage emerged 92%, 1978 83%. Corn acreage planted 82%, 1978 71%, normal 84%; emerged 17%, 1978 16%, normal 43%. Soybean acreage planted 23%, 1978 29%, normal 43%. Fieldwork: 5.7 days favorable. Crop conditions good: Corn, oats, wheat. Very good: Clover hay, alfalfa hay, pasture. Livestock market slowed, little disease problems.

KANSAS: Precipitation less than 0.25 in. extreme southwest and southeast to nearly 1.00 in. north central. Heavy thunderstorms late 19th dumped 3.00 to 5.00 in. over south central and southeast. Temperatures through 19th near or slightly above normal and averaged from 64° northwest to 70° southeast.

Fieldwork: 6 days suitable. Corn plantings 60%, last year 55%, average 70%. Sorghum 10% complete, 5% last year, 15% average. First cut alfalfa 20% complete, 15% last year, 25% average. Wheat growth advanced as 95% reached jointing stage and 30% headed, 40% last year, 65% average.

KENTUCKY: Showers early week and again weekend averaged 0.10 in. east to 0.50 in. elsewhere. Temperatures near normal.

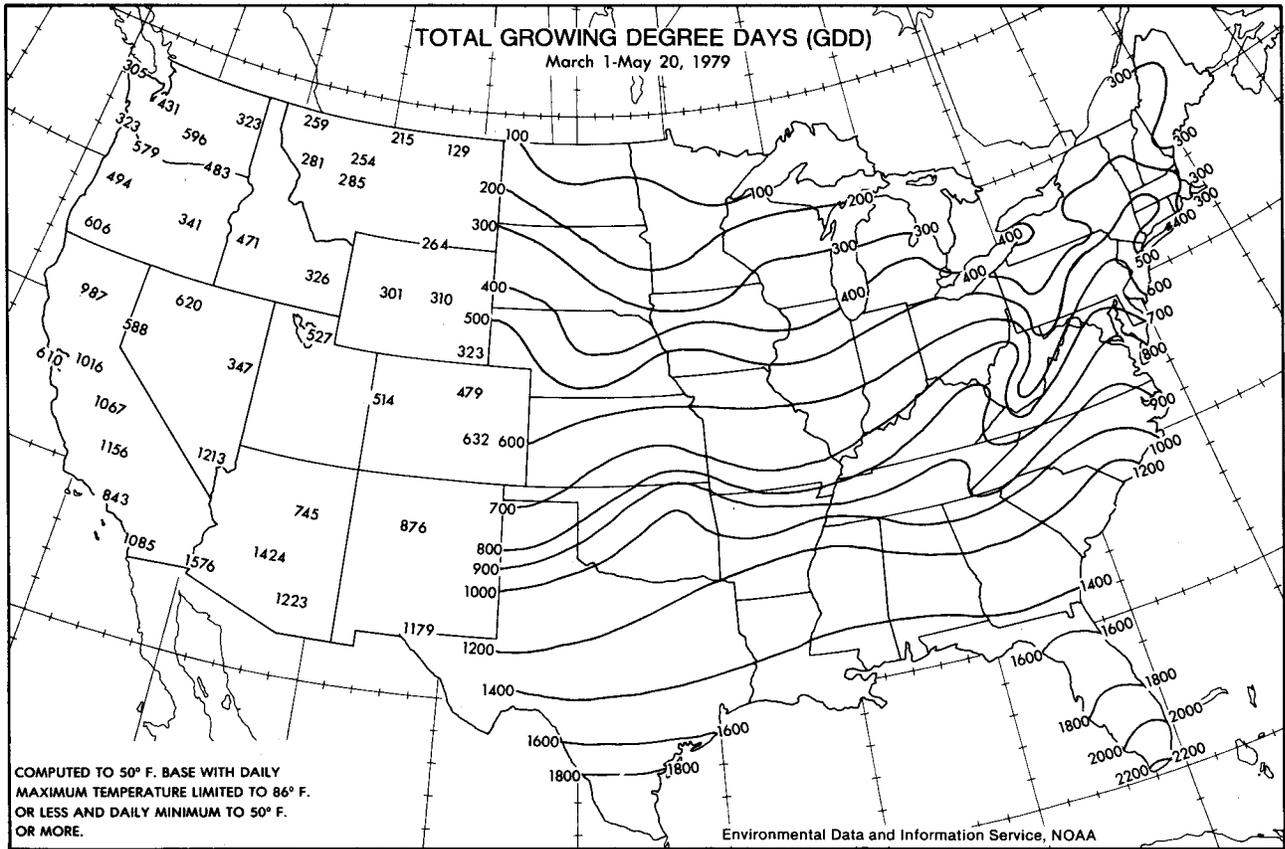
Fieldwork: 5.4 days favorable. Good progress but west well behind normal. Soil moisture short to adequate. Many western fields still too wet to work. Corn 60% planted, last year 38%, average 71%. Soybeans 16% planted, last year 6%, average 19%. Tobacco beds rate good, but plants small. Setting is underway, but will be at peak in another week if weather favorable. Hay, pastures and small grains rate good. Fuel supplies adequate, but appear to be less plentiful than week ago.

LOUISIANA: Temperatures 2 to 4° below normal. Extremes: 93 and 48°. Light shower in New Orleans area late week.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Cotton 84% planted, 73% last year, 78% average; 50% emerged. Rice good; 93% planted; 90% emerged. Corn fair to good, 99% planted, 96% emerged. Soybeans 32% planted, 28% last year, 35% average; 15% emerged. Sorghum 36% planted, 28% last year, 44% average. Sweetpotatoes 54% transplanted, 41% last year, 46% average. Hay fair to good, 60% 1st cutting. Small grains good, 75% wheat and oats turning color. Pastures average. Cattle good.

MARYLAND & DELAWARE: Temperatures near normal. Highs in mid-70's, lows in upper 50's. Precipitation moderate, between 1.00 and 1.50 in.

Fieldwork: 4.6 days suitable. Soil moisture mostly adequate. Pastures supplying average amounts of feed. Corn planting about 80% complete, 40% last year, 72% normal. Soybean planting 10% complete, 5% last year, 10% normal. Small grains, hay, tobacco beds in good condition. Fruit crop prospects appear good.



**MICHIGAN:** Temperatures 1 to 3° above normal. Temperatures cold early week with below freezing temperatures 17th. Temperatures end of week reached into high 70's and low 80's. Precipitation over Upper averaged 1.25 in.; over Lower 0.25 in. Fieldwork: 6 days suitable. Plowing 80% complete, 75% last year and normal. Soil moisture supplies adequate. Pasture feed supplies average. Corn 55% planted, 80% last spring, 60% normal. Soybeans 15% planted, 5% last year, 15% normal. Oats 85% seeded, 95% last year, 90% normal. Sugarbeets 98% planted, 100% last spring, 96% normal. Potatoes 65% planted, 65% last year, 55% normal. Fruit trees southwest have passed bloom and reached petal fall. Fruit trees northwest in full bloom. Asparagus 25% picked.

**MINNESOTA:** Temperatures near normal. Extremes: 91 and 25°. Precipitation more than 0.50 in. below normal east central through southwest; up to 0.74 in. above normal southeast; less than 0.50 in. sub-normal northwest. Precipitation totals less than 0.50 in. except for southeast and south central up to 1.50 in.

Farmers finally made substantial planting progress. Moisture mostly adequate, few low spots still surplus. Another good week will nearly complete planting some areas. Early seedlings emerging. Planted: Corn 37%, 1978 73%, normal 75%; soybeans 7%, 1978 34%, normal 44%; spring wheat 42%, 1978 92%, normal 78%; oats 62%, 1978 90%, normal 85%; barley 24%, 1978 88%, normal 72%; flax 13%, 1978 36%, normal 56%; sugarbeets 48%, 1978 95%, normal 73%; potatoes 5%, 1978 57%, normal 53%; sunflowers 5%, 1978 33%, normal 47%; green peas for processing 45%, 1978 78%, normal 84%; sweet corn for processing 20%, 1978 50%, normal 52%.

**MISSISSIPPI:** Below normal temperatures. Extremes: 43 and 90°. Mostly dry with only isolated thunder-showers late week.

Soil moisture adequate to surplus in northern third, adequate elsewhere. Fieldwork: 5.0 days suitable. Much progress made in planting and land preparation. Hay harvest also very active with clear weather. Cotton 80% planted, 78% 1978, 84% average; 42% up to stand, 45% 1978, 60% average. Soybeans 15% planted, 12% 1978, 27% average; 5% up to stand, 3% 1978, 11% average. Rice 67% planted, 95% 1978, 85% average; 47% up to stand, 85% 1978, 67% average. Corn good to fair condition; 84% planted, 90% 1978, 84% average; 63% up to stand, 75% 1978. Winter wheat good condition; 21% ripe, 27% 1978; 1% harvested, 1% 1978, 2% average. Peanuts 31% planted, 48% 1978. Sorghums 29% planted, 35% 1978, 36% average. Sweetpotatoes 36% planted, 53% 1978, 46% average. Watermelons 94% planted. Pastures good condition. Peaches good to fair condition. Fuel supplies mostly adequate with tight supplies of diesel and gasoline in scattered areas.

**MISSOURI:** Temperatures 1° above normal west central plains and West Ozarks, 3° below normal Bootheel. Rainfall averaged 0.25 in. Northeast, 0.25 to 0.50 in. Central Plains and Northwest Prairie, 0.60 in. Ozarks and Bootheel.

Fieldwork: 5.0 days suitable. Corn 59% planted, last year 21%, normal 71%. Grain sorghum 20% planted, last year 15%, normal 34%. Soybeans 12% planted, last year 7%, normal 32%. Cotton 80% planted, last year 84%, normal 80%. Wheat 28% headed, last year 36%, normal 78%. First cutting alfalfa hay 11% harvested, last year 8%, normal 21%. Wheat and pastures mostly good. Soil moisture supplies mostly adequate.

**MONTANA:** Dry week. North central and northeast had near to a little above normal rainfall. Temperatures mild. Most areas enjoyed warmest temperatures of season early week. Maximum temperatures in many areas 80's and 90's. Overall temperatures 3° above normal.

Soil moisture adequate. Fieldwork: 5.6 days suitable. Winter wheat fair. Planting progress: Spring wheat 50%, 65% 1978, 75% average; barley 50%, 60% 1978, 70% average; oats 40%, 55% 1978, 65% average; corn 35%, 50% 1978, 50% average; potatoes 40%, 35% 1978, 40% average; dry beans 25%, 70% 1978, 55% average; sugarbeets 80%, 100% 1978, 85% average. Livestock on supplemental feed 25%, moved to summer ranges 55%, shearing 80% complete.

**NEBRASKA:** Temperatures 2° above normal. Precipitation 0.25 in. with a few amounts up to 1.50 in. east.

Corn planting 60% complete, 75% year ago, 75% normal; emergence 10%, year ago 10%. Sorghum planting 15% complete, 20% year ago, 30% normal. Soybean planting 10% complete, 15% year ago, 25% normal. Wheat 50% jointed, 75% year ago. Wheat condition fair to good. Gasoline supply mostly adequate. Diesel adequate to tight. L.P. gas adequate. Fieldwork: 5.4 days suitable.

**NEVADA:** Trace precipitation midweek. Temperatures 5 to 10° above normal. Extremes: 98 and 27°.

Weather ideal for fieldwork. Crops responding to warmer weather. Ranges mostly good condition.

**NEW ENGLAND:** Cold front set off rains, ranging from 0.10 to 1.00 in. on 14th and 15th. Another cold front moved through at midweek sprinkling about 0.10 in. High pressure in north combined with low pressure in southeast resulted in 0.30 to 0.40 in. in most areas through weekend. Temperatures above normal north and below normal elsewhere.

Gentle soaking rains prevailed but work schedules remained in order. Apples in full bloom except parts of Maine. Early plantings of peas and sweet corn up. Potato plantings in full swing with exception of rain hampered southern New England. Some cattle turned out week earlier than usual due to adequate available grazing and alfalfa 18 to 24 in. high. Soil moisture adequate to surplus.

**NEW JERSEY:** Temperatures 2 to 3° below normal. Extremes: 36 and 76°. Rainfall 1.27 in. north, 1.42 in. central and 1.00 in. south. Soil temperature 60° north, 63° central and south.

Fieldwork: 4 days suitable. Rain slowed fieldwork. Soil moisture mostly adequate but excessive in few areas. Crop growing nicely. Sweet corn up, planting continued. Fresh market tomatoes setting fruit. Processing tomato planting about 75% complete. Irish potato stands good. Sweet-potato planting about to begin. Apple and peach prospects continue good. Spray schedules difficult to maintain. Strawberry harvest to begin by Memorial Day. Early field corn up. Soybean planting begun. Fuel supplies generally adequate, though some areas report gasoline supplies tight.

**NEW MEXICO:** Scattered showers early week central and east. Amounts to 0.67 in. lower Pecos Valley. Widespread moderate to heavy rains central and east 20th with some totals up to 4.00 in.

Cotton planting 90% complete. Alfalfa 1st cutting about 70% complete in south, northern areas should start cutting soon. Wheat and barley good with about 90% headed and 20% coloring. Corn planting about 90% complete southeast, but well behind in other areas. Grain sorghum planting

active with about half the crops seeded in major producing area. Lettuce harvest active in Mesilla Valley. Ranges fair and livestock good.

**NEW YORK:** Precipitation below normal with temperatures above normal in most areas. Scattered showers early and late in week.

Fieldwork active. Oats 83% planted, 71% 1978. Corn 46% planted, 20% last year. Early corn plantings showed 2 to 4 leaves in some areas. Winter wheat making good progress. Pastures improved with recent showers. Hay fields 18 to 24 in. high. Some first cuttings. Early planted vegetables look good. Long Island potatoes have good stand. Upstate planting continues. Hudson Valley apples in petal fall stage. Western and Lake Champlain Valley apples past full bloom. Chautauque-Erie grapes have 4 to 6 in. shoots.

**NORTH CAROLINA:** Temperatures 2 to 4° subnormal. Precipitation above normal.

Fieldwork: 3.4 days suitable. Soil moisture adequate to surplus. Condition of cotton, corn, tobacco plant beds, tobacco in fields and Irish potatoes fair to mostly good. Wheat, oats, barley, pasture, peaches and vegetables good. Tobacco plant supply adequate. Planted: Flue-cured tobacco 86%, 1978 54%, average 78%; burley tobacco 10%, 1978 less than 5%, average 23%; corn 95%, 1978 88%, average 92%; soybeans 39%, 1978 15%, average 35%; peanuts 65%, 1978 22%, average 70%; cotton 96%, 1978 74%, average 91%; sweetpotatoes 26%, 1978 16%, average 37%; sorghum 28%, 1978 18%, average 39%; summer snap beans 20%; summer cucumbers 76%; summer cabbage and spring cucumbers complete. Harvested: Spring cabbage 5%.

**NORTH DAKOTA:** Week began sunny and warm. Cold front passed through midweek and cooler weather prevailed with scattered showers. Temperatures near normal southwest to 5° below normal northeast. Extremes: 26 and 92°. Rainfall variable from trace south central to 0.84 in. northwest.

Warmer, dryer weather allowed fieldwork and seeding to make good progress until weekend rains. Fieldwork and limited seeding got underway north. Seeding made good progress south. Seeding progress: Hard red spring wheat 21%, last year 55% average 64%; durum wheat 8%, last year 46%, average 53%; barley 16%, last year 61%, average 69%; oats 14%, last year 45%, average 60%; potatoes 6%, last year 50%, average 45%; sugarbeets 53%.

**OHIO:** Temperatures low, warming toward weekend brought average to normal or above. High in 80's; low, freezing or below northeast. Rain free weather most of week, scattered showers weekend. Totals generally 0.50 in. or less; below normal. Growing degree days near normal.

Condition of most crops, especially wheat, very good. Corn plants yellowed slightly and strawberries, grapes, and peaches hurt slightly northeast by frost 16th. Very good planting condition, some moisture needed for good soybeans and sugarbeet germination central and north. Additional moisture needed for herbicides to work properly. Some early hay cut along eastern border. Insect populations increasing, mainly flea beetles on cabbage, spittle bug in alfalfa and cereal leaf beetle in oat fields. Corn planted 90%, 45% 1978, 75% average. Soybeans planted 55%, 15% 1978, 40% average. Potatoes planted 80%, 55% 1978, 75% average. Fieldwork: 5.5 days favorable. Pasture condition good. Soil moisture adequate.

**OKLAHOMA:** Temperatures 4 to 6° above normal southwest, central and northeast, elsewhere 2° above normal. Precipitation all areas with averages

ranging from 0.76 in. northeast to 2.98 in. south central.

Weather good for wheat and other small grains, with adequate moisture. Wheat 95% headed, 90% 1978, 95% average; wheat 20% soft dough or later, 15% 1978, 35% average. Sorghum seedbed preparation 90% complete, 90% 1978, 80% average. Sorghum planted 20% complete, 20% 1978, 25% average. Cotton 90% acreage prepared, 80% average. Cotton 20% planted, 25% 1978, 20% average. Pastures and ranges abundant grazing, with cattle good condition. Fieldwork: 5.9 days suitable.

OREGON: Warm, dry. Few light showers after midweek and mainly along coast. Precipitation less than 0.10 in. Temperatures 3 to 8° above normal. Temperatures 3 to 8° above normal. Maximum temperatures in 70's and low 80's. Minimum temperatures in mid-30's to mid-40's.

Soil moisture supplies adequate. Winter wheat 48% booting, less than 1% headed. Most grain, hay and seed crops good condition except spotty areas. Wheat fields generally good, some disease problems appearing. First cutting alfalfa and grass hays underway. Mint flammage almost completed. Spring seeding winding up as fallow preparation continued. Spraying and cultivating continuing on berry crops. Strawberry and caneberry planting continued; good crop development. Boysen and Marion berries in bloom. Spraying, cultivating and thinning fruit. Planting beans and sweet corn. Green peas good. Onions a little slow; sprays applied. Sugarbeets good; thinning in progress. Potatoes planted in late areas; crop looks good. Livestock pasture, and range condition good to excellent. Forage coming along well.

PENNSYLVANIA: Partly cloudy and cool. Temperatures near to 3° below normal. Daily temperature minimums 40's and 50's to maximums in 60's and 70's. Extremes: 27 and 83°. Rain 15th and weekend totaled less than 0.50 in. west and central increasing to 1.00 to 1.50 in. extreme east.

Fieldwork: 5 days suitable. Soil moisture adequate. Activities: Plowing; spraying; planting oats, corn, potatoes, soybeans, alfalfa, clover, vegetables; silage crop harvest plus early vegetables. Plowing 92%, last year 82%. Soybeans 15% planted, last year under 5%. Oats sown, last year 88%. Potatoes 78% planted, last year 67%. Corn 68% planted, last year 32%, average 51%. Barley 50% headed, last year 13%. Wheat 18% headed, last year none. Alfalfa hay condition good, clotting good to fair. Little alfalfa cut for silage. Apples 10% pink, 90% full bloom or past.

PUERTO RICO: Island average rainfall 5.11 in. or 3.46 in. above normal. Temperatures about 79° on coasts and 73° interior. Extremes: 91 and 51°.

SOUTH CAROLINA: Temperatures below normal except near normal south. Midweek temperatures into 40's central, west. Rainfall less than usual as scattered showers beginning, end of period.

Soil moisture adequate, but coastal region surplus. Fieldwork: 4.5 days suitable. Farm fuel supplies adequate. Corn condition good, wet fields causing some fertilization difficulties. Cotton fair to good condition; 99% planted, 86% last year, 93% average. Soybeans 45% planted, 24% last year, 30% average. Peanuts good condition; 81% planted, 82% last year, 86% average. Good-sized peaches, 1% harvested; harvest started in coastal plains on 16th, ridge on 17th; cool nights slowing maturity; hail hit 500 acres in ridge 11th, slight damage. Apple fruit set good, sizing prospects good. Grapes blooming in favorable weather except

cooler than average temperatures. Oat harvest at 1%, 56% turning color, condition fair to good. Wheat fair to good condition with some powdery mildew. Good vegetables despite heavy rains. Harvested: Snap beans 7%; all cucumbers 3%; cabbage 30%.

SOUTH DAKOTA: Temperatures warmed to 80's and 90's briefly then cooled. Averages 3° below normal east, 3° above west. Precipitation light, 0.10 in. or less except locally heavy showers southwest 1.00 in. or more.

Growing degree days near normal. Topsoil moisture surplus southeast, short west, adequate elsewhere. Fieldwork: 5 days suitable. Fuel supplies generally adequate. Oats 90% seeded, 1978 83%, average 95%. Barley 88% seeded, 1978 83%, average 93%. Spring wheat 92% seeded, 1978 87%, average 96%. Flax 40% planted, 1978 23%, average 60%. Corn 28% planted, 1978 30%, average 55%. Soybeans 6% planted, 1978 6%, average 29%. Sorghum 1% planted, 1978 1%, average 11%. Sunflowers 2% planted, 1978 2%. Winter wheat 0% boot, 1978 14%, average 22%. Rye 0% boot, 1978 12%, average 25%.

TENNESSEE: Dry and warm. Temperatures 2° above normal. Thunderstorms 205h, 2.00 in. some areas.

Fieldwork: 5.0 days suitable. Soil moisture adequate. Spring plowing 81% completed, 1978 85%, average 87%. Corn 73% planted, 1978 68%, average 75%. Cotton 76% planted, 1978 79%, average 81%. Soybeans 15% planted, 1978 13%, average 27%. Tobacco 23% transplanted, 1978 10%, average 25%. Plant beds fair. Plant supply short some areas. Wheat 92% headed, 1978 83%, average 92%. Oats 90% headed, 1978 70%, average 83%. Barley 92% headed, 1978 73%, average 92%. Pastures and livestock good. Haying full swing. Snap bean planting active on Cumberland Plateau. Fuel supplies adequate at present.

TEXAS: Southeasterly winds brought showers to southwest, west and warm temperatures statewide. Rainfall 0.50 to 1.50 in. below normal over eastern half, 0.50 in. below normal south, Panhandle and northern portions west Plains. Amounts 0.25 to 0.50 in. above normal southwest. Temperatures 5 to 10° below normal.

Sunny weather advanced cotton planting in Panhandle and promoted development of planted crops in all areas. Moisture generally adequate in eastern half, but many areas in west would welcome additional moisture. Most of wheat crop headed, with harvesting underway in southern areas. Fuel for farming generally adequate although some areas reported tight supplies. Over 25% of High Plains cotton planted during week. Planting rain would be welcomed on many dryland fields throughout Panhandle. Good stands noted on earlier planted fields while fields of American Pima attained four leaf stage in El Paso area. Squaring observed in central while fields throughout lower Rio Grande Valley sitting bolls. Corn planting completed by weekend. Excellent stands noted. Some corn fields in south silking. Sorghum planting gained momentum in north and on High Plains. Insect build-up light although greenbugs in Blacklands. South fields heading while fields in Rio Grande Valley began to turn color. Wheat made good growth although heavy army worm infestations caused central farmers to spray fields. Good, general rain would be welcomed by Plains growers to facilitate heads filling out. Harvesting began to pick up pace in south. Barley began heading on High Plains while harvesting operations in progress on Blackland Blacklands, Edwards Plateau, and south. Rice showed improvement as sunny conditions promoted growth and development. Peanut planting gained momentum

as warmer temperatures caused soil temperatures to rise. Soybean planting advanced as far north as High Plains. Good stands on earlier planted fields observed throughout Gulf Coast. Flax and oat harvesting picked up in central. Many oat fields damaged by harsh winter being cut for hay. Cotton planted 48%, 46% 1978, 59% average; squaring 8%; setting bolls 2%. Rice planted 96%, 100% 1978, 98% average; emerged 86%. Sorghum planted 73%, 75% 1978, 76% average; headed 9%; turning color 1%. Wheat headed 94%; turning color 19%; harvested for grain 1%, 1% 1978, 2% average. Barley harvested 5%, 0% 1978, 1% average. Flax harvested 17%, 69% 1978, 59% average. Oats for grain harvested 8%, 9% 1978, 8% average. Corn planted 100%, 97% 1978, 97% average. Peanuts planted 23%, 21% 1978, 29% average. Sunflowers planted 12%, 0% 1978, 15% average. Soybeans planted 12%, 13% 1978, 19% average.

Cantaloup, bell pepper, watermelon, sweet corn harvest underway. Cabbage and onion movement on decline. Cucumber and potato harvest active. East Texas sweetpotato transplanting from beds to fields full swing following delays from wet weather. Recent warm, dry weather stimulated vegetable growth and development. Early tomato fields begun to ripen. Peach harvest active south; initial picking early varieties underway in hill country and central. Pecan producers in central, east spraying for first generation casebearers. South Texas, casebearer spraying complete. Trans-Pecos no evidence casebearers to date.

Pastures and rangeland on High Plains provide adequate grazing; however, some grasses beginning to dry due lack of moisture. Cattle movement off grazed-out wheat active. Hay cutting and baling active throughout central, east as forage remained good supply although some areas experiencing heavy stands of weeds in fields that suffered winterkill. Grass development in Trans-Pecos very slow due drying conditions. South Texas, grazing conditions continued improve in response sufficient moisture supplies. Livestock conditions good to excellent.

UTAH: Few isolated, light showers. Temperatures variable ranging between 3° below and 6° above normal.

Fuel supplies adequate, getting tight. All week suitable for fieldwork except southeast corner. Moisture getting short on nonirrigated land. Fruit crop condition generally good. Pollination of fruit questionable, especially cherries. Spring planting progress: 90% wheat, barley and oats all planted. Field corn about 70% planted. Vegetables 50 to 70% planted. Spring range growing with warmer weather. Cattle and sheep movement continued. Calving, lambing and shearing virtually complete.

VIRGINIA: Slightly below normal temperatures prevailed. Extremes: Low 80's to mid-30's. Considerable cloudiness. Rainfall moderate averaging about 1.00 in. occurring mainly first 2 days and last 2 days.

Topsoil moisture mostly adequate. Fieldwork: 4.1 days available. Planting progress: Corn 82%, 64% 1978, 80% average; Tidewater and southeast corn over 95%, 80% 1978; soybeans 18%, 3% 1978, 18% usual; peanuts 75%, 7% 1978, 59% average. Tobacco set: Flue-cured 41%, 8% 1978, 36% average; fire-cured 19%, 0% 1978, 18% usual; burley 5%, 8% 1978, 15% usual; sun-cured 7%, 7% 1978, 24% average. First cutting hay 26%, 11% 1978. Pastures, corn, hay in good condition. Fuel supply for farmwork mostly adequate, a few tight supplies diesel and gasoline mostly from west, southwest and east. Gasoline classed tight more frequently than diesel fuel.

WASHINGTON: West: Temperatures 2° above normal. Precipitation 0.20 to 0.70 in. below normal.

Sunshine and warm temperatures prevailed throughout the week. Strawberries in full bloom, harvest should start early June. Raspberries and blueberries show good growth with some winterkill in raspberries. Green peas, carrots, cauliflower, broccoli, sweet and silage corn being planted. Early radishes being harvested. Green shopping continued. Cattle on pasture.

East: Temperatures near normal to 3° above normal. Precipitation 0.20 to 0.40 in. below normal.

Generally sunny and warm allowing good crop growth. Asparagus cutting active. Potato planting complete. Fruit trees in bloom in latest areas. Spring frost light, no orchard heating last week. Cherry fruit flies, codling moths appeared. Fruit growers applying thinners and nutrients. Winter injured trees easily identified. Most damage to young apples. Winter wheat generally good, reseeded stands show moisture stress. Spraying, working summerfallow active. Wireworms reported in Walla Walla area. Livestock on spring range. Wheat headed 2%, 12% 1978.

WEST VIRGINIA: Temperatures and precipitation below normal. Extremes: 84 and 22°.

Fieldwork: 4.3 days suitable. Soil moisture mostly adequate. Main activities: Planting corn, fencing, plowing. Wheat good to fair condition. Barley and oats fair to good condition. Oats 90% planted, 73% emerged. Barley 23% pre-jointed, 49% jointed and 28% headed. Wheat 39% pre-jointed, 51% jointed and 10% headed. Corn good condition, 59% planted and 22% emerged. Tobacco beds 92% emerged, 4% set. Pasture and hay good to fair condition. Several reports of alfalfa weevil. Fuel supply adequate.

WISCONSIN: Temperatures near normal. Week began cool with highs in 60's and lows below freezing at some locations. Temperatures warmed to 80's 16th to 18th with gusty southwest winds. Cooler again weekend. Extremes: 90 and 29°. Significant rainfall occurred late 17th northwest and 18th rest of State. Rainfall totaled 0.50 to 1.50 in. Hail and severe weather accompanied some thunderstorms. Scattered showers and cooler readings prevailed weekend.

Good week for planting crops. Fieldwork: 5 days suitable. Oats 75% planted, 1978 96%, normal 95%. Low areas north and east still wet. Early oats coming good. Corn 40% planted, 1978 50%, normal 45%. Some farmers done planting corn south and now planting soybeans. Soybeans 5% planted, 1978 1%, normal 15%. Spring plowing 65% done, 1978 85%, normal 80%. Hay fields and pastures growing well south but slower developing north. Alfalfa weevil adults becoming more abundant. Potato planting underway north, mostly completed central and south. Planting peas, sweet corn, and other vegetable crops active. Tobacco beds look good. Apple trees in bloom south. Strawberries coming good. Soil moisture mostly adequate. Rain on 18th beneficial to newly planted crops.

WYOMING: Temperatures above normal. Maximum temperatures generally upper 70's and 80's; minimum temperatures from mid-20's to low 30's. Precipitation below normal.

Topsoil moisture adequate. Fieldwork: 6 days suitable. Acreage planted: Spring wheat 74%; oats 86%; barley 80%; corn 44%; potatoes 24%; dry beans 10%. Acreage emerged: Spring wheat 48%; oats 52%, barley 60%; sugarbeets 56%; corn 8%. Range and pastures mostly good. Range ewes lambed 78%; range sheep shorn 94%. Stock water supply adequate. Supplies of LP gas adequate nearly all areas. Diesel fuel and gasoline supplies tight in some areas and farmwork delayed in small portion of State.

World Weather and Crop Update

May 14 - 20

USSR. The central and eastern Ukraine got 5 to 25 mm of moisture, but the remainder of the winter grains region stayed generally dry. Spring seeding and crop development benefited from the drier and warmer conditions, particularly in northern areas. Planting of spring crops is virtually complete in the Ukraine. Only the northern portions of the Volga River region received light showers. Scattered showers moved across the New Lands as well helping spring wheat, which had been sown over the past few days. Seeding will be continuing for the next 2 to 3 weeks. Persistent showers headed across the cotton-growing regions of the south and may be causing some problems for cotton producers. Early plant development is lagging normal.

CHINA. Rainfall over China's winter wheat region was light ranging from a trace to 5 mm. The dry weather was badly needed, particularly in the southern part of the region because the winter grains should be ready to harvest. Heavy, persistent rains the past month may hurt grains ready to harvest. Further north, some showers dampened spring grains regions as well. Rainfall also tapered off in the double-crop rice region of the south with amounts generally less than 25 mm except along the coast. Heavy showers soaked some of the western provinces including the Szechwan rice area.

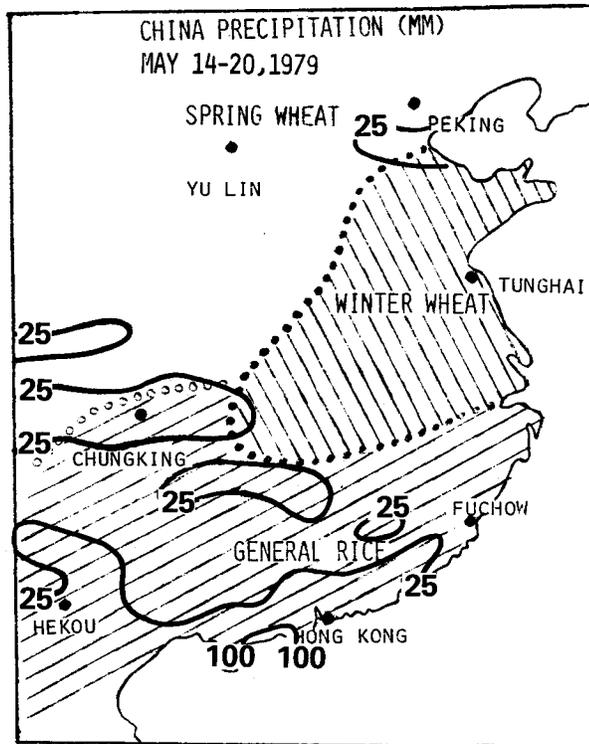
AUSTRALIA. Little or no precipitation fell across the continent, including the winter wheat belt which received no moisture.

INDIA-SOUTHEAST ASIA. Rainfall picked up across the region, particularly in Southeast Asia where 25 to 100 mm fell over most of Thailand, Burma, Cambodia, and Vietnam. These were the heaviest rains of the season; the moisture is very important for preparations to plant the main rice crop next month. In India, only scattered showers fell across most of the country, including some of the winter wheat region of the north. However, harvest is far enough along that this should not hurt the crop. One finger of 25 mm or more fell along the India-Nepal border and extended into Bangladesh.

AFRICA. South Africa and adjoining countries were dry, except for scattered moisture along the coast. In North Africa, Morocco and Tunisia received generally less than 5 mm. Rainfall is increasing across the Sahel countries.

EUROPE. Precipitation ranged from zero over much of eastern Europe to well above normal in southwestern France and northern Spain. The dry weather over eastern Europe provided a real boost toward completion of fieldwork and planting. The southern United Kingdom enjoyed its driest and warmest week of the spring with less than 10 mm falling in most areas. Northern France and most of West Germany received 5 to 20 mm.

(continued on back cover)



**SEEDING PROGRESS**

FOR WEEK ENDING MAY 20

SPRING WHEAT			
	1979	1978	AVG.
IDAHO	95	85	85
MINN	42	92	73
MONT	50	65	75
N DAK	21	55	64
S DAK	92	87	96
<b>5 STATES</b>	<b>43</b>	<b>68</b>	<b>71</b>

THESE 5 STATES PRODUCED 95% OF THE 1978 SPRING WHEAT CROP EXCLUDING DURUM.

WINTER WHEAT HEADED			
	1979	1978	AVG.
CALIF	NA	NA	NA
COLO	5	NA	NA
IDAHO	0	0	0
ILL	40	15	68
IND	NA	NA	NA
KANS	30	40	65
MO	28	36	78
MONT	0	0	0
NEBR	0	0	0
OHIO	NA	NA	NA
OKLA	95	90	95
OREG	1	NA	NA
S DAK	0	0	0
TEX	94	NA	NA
WASH	NA	NA	NA

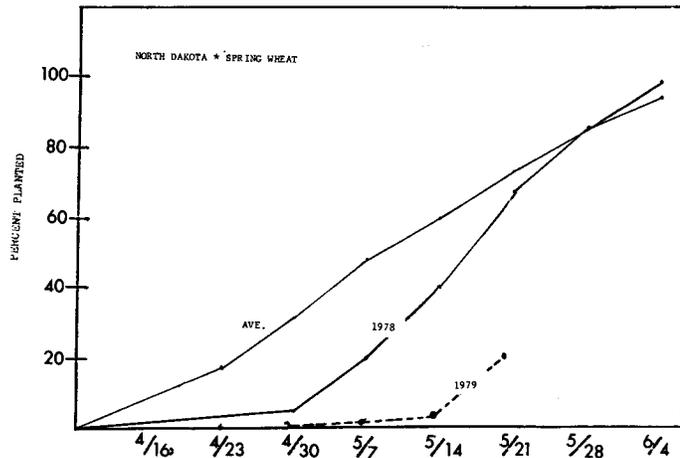
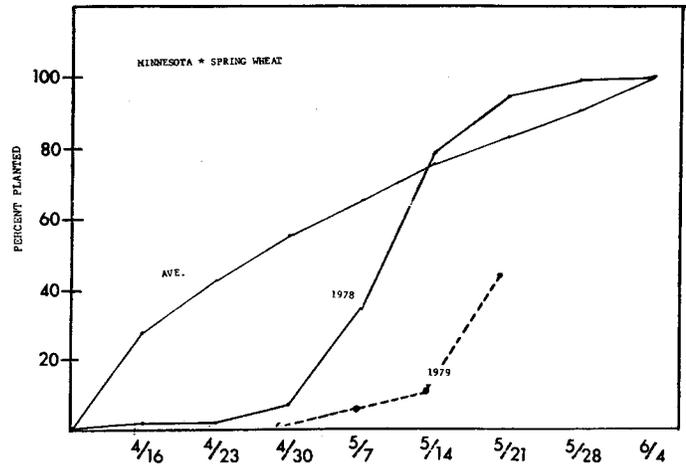
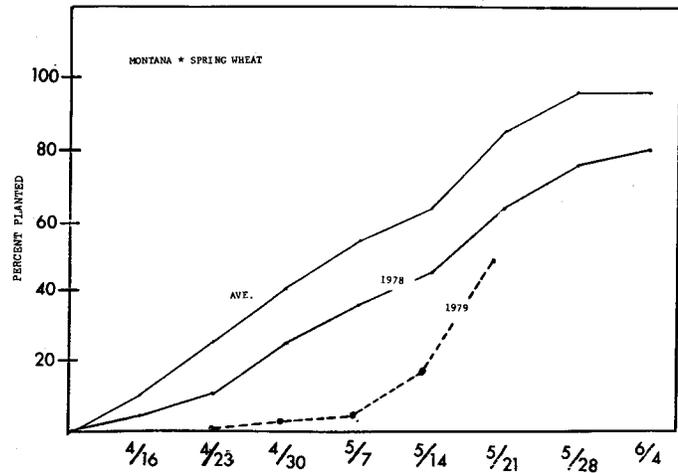
CORN			
	1979	1978	AVG.
COLO	69	78	83
GA	100	100	100
ILL	72	37	73
IND	60	20	70
IOWA	82	71	84
KANS	60	55	70
KY	60	38	71
MICH	55	80	60
MINN	37	73	75
MO	59	21	71
NEBR	60	75	75
NC	95	88	92
OHIO	90	45	75
PA	68	32	51
S DAK	28	30	55
VA	82	64	80
WISC	40	50	45
<b>17 STATES</b>	<b>67</b>	<b>57</b>	<b>75</b>

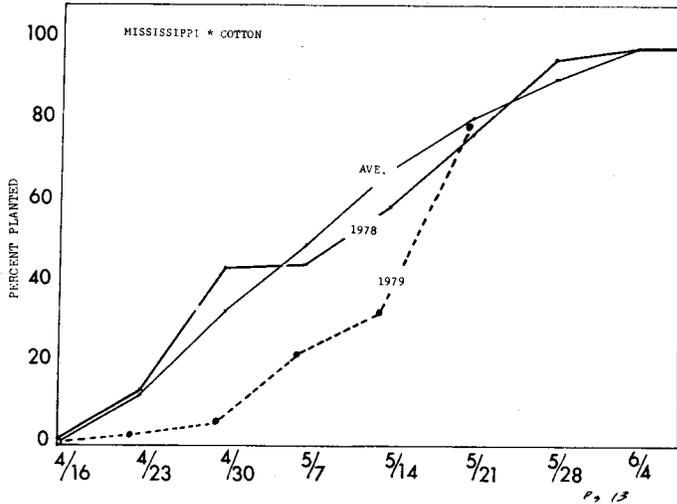
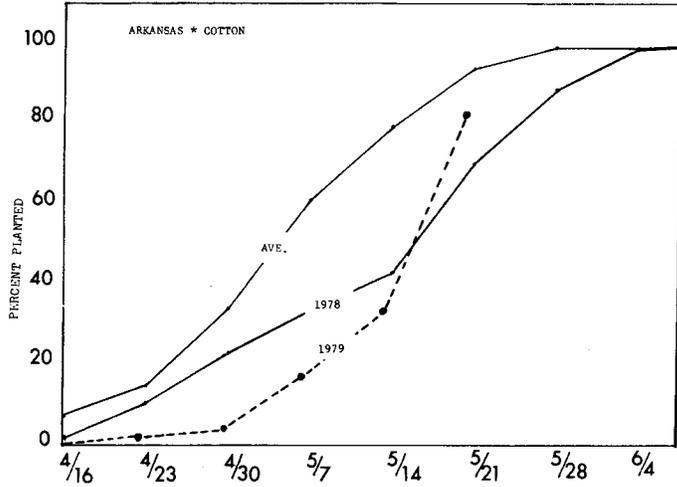
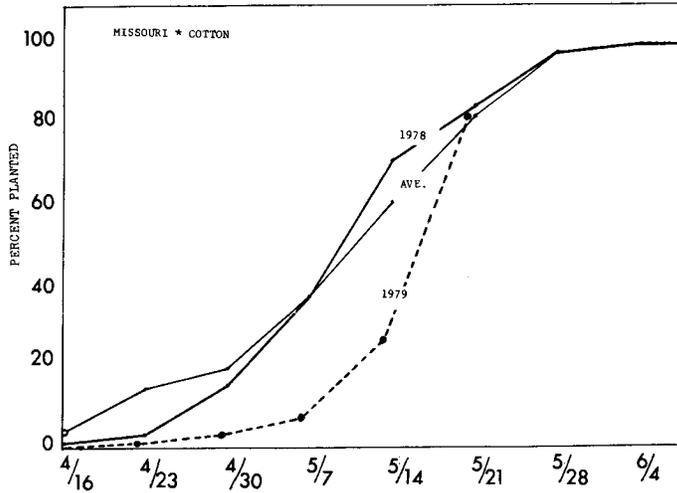
THESE 17 STATES PRODUCED 93% OF THE 1978 CORN CROP.

RICE			
	1979	1978	AVG.
ARK	72	85	86
CALIF	82	75	NA
LA	93	100	100
MISS	67	95	85
TEX	96	100	98
<b>5 STATES</b>	<b>83</b>	<b>90</b>	<b>94</b>

THESE 5 STATES PRODUCED 99% OF THE 1978 RICE CROP.

NA NOT AVAILABLE





COTTON

	1979	1978	AVG.
ALA	96	83	91
ARIZ	100	NA	NA
ARK	81	70	79
CALIF	100	95	NA
GA	100	NA	NA
LA	84	73	78
MISS	80	78	84
MO	80	84	80
N MEX	90	NA	NA
NC	96	74	91
OKLA	20	25	20
SC	99	86	93
TENN	76	79	81
TEX	48	46	59

14 STATES 66 60 66

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

SOYBEANS

	1979	1978	AVG.
ALA	42	22	36
ARK	10	12	20
GA	44	28	35
ILL	25	4	35
IND	20	1	35
IOWA	23	29	43
KANS	10	5	15
KY	16	6	19
LA	32	28	35
MICH	15	5	15
MINN	7	34	44
MISS	15	12	27
MO	12	7	32
NEBR	10	15	5
NC	39	15	35
OHIO	55	15	40
SC	45	24	30
TENN	15	13	27

18 STATES 23 15 33

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

GRAIN SORGHUM

	1979	1978	AVG.
COLO	17	8	16
KANS	10	5	15
MO	20	15	34
NEBR	15	20	30
OKLA	20	20	25
S DAK	1	1	11
TEX	73	75	76

7 STATES 35 33 41

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

1/ LESS THAN 5%

\*\*\*\*\* CORRECTIONS \*\*\*\*\*

\* PLANTING PROGRESS \*

\* FOR WEEK ENDING MAY 13 \*

\* GRAIN SORGHUM \*

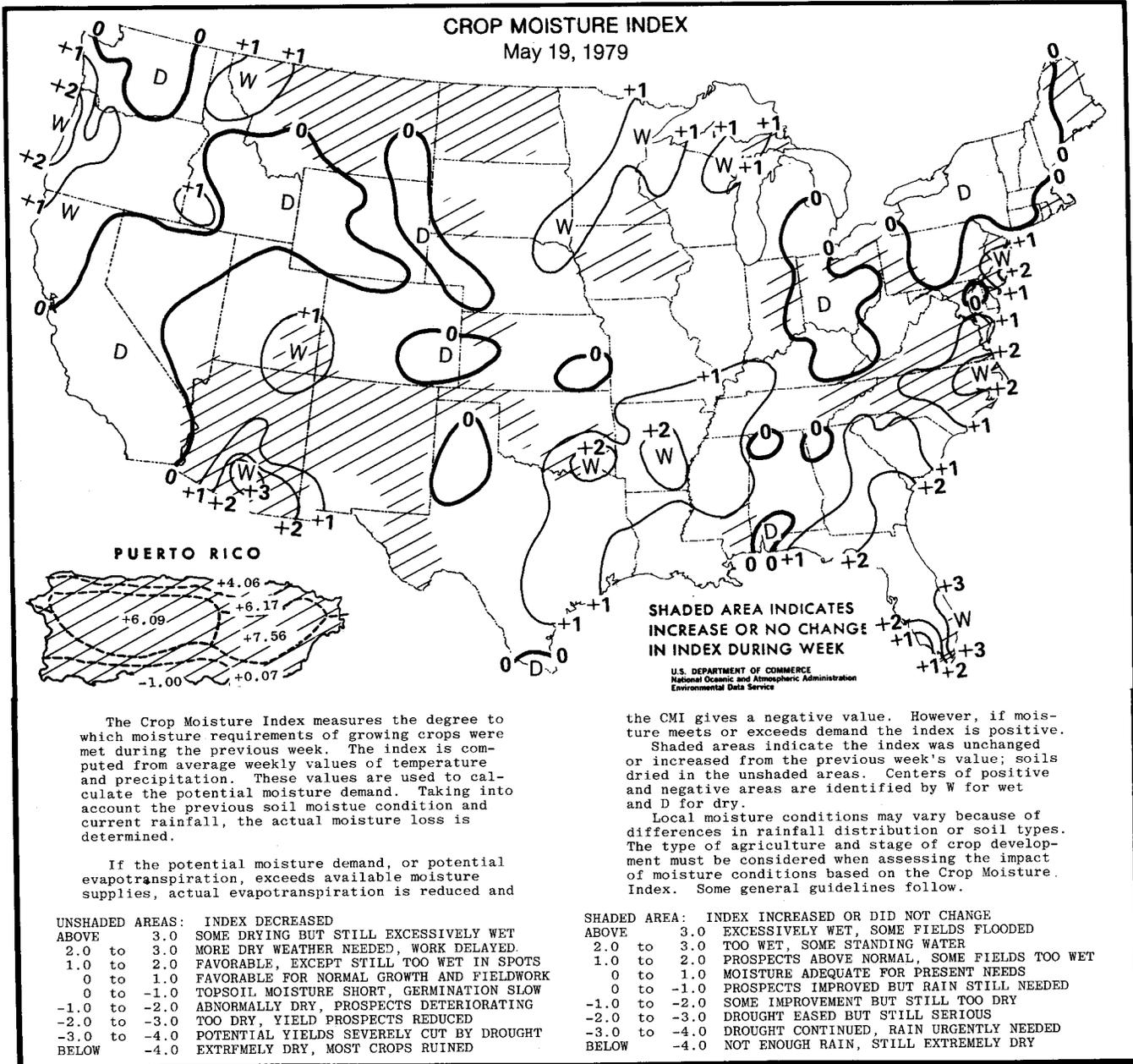
	1979	1978	AVG.
* OKLA	20	10	15
* 7 STATES	28	29	34

\* SPRING WHEAT \*

	1979	1978	AVG.
* N DAK	2	33	51
* 5 STATES	20	50	62

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THE AREAS OF EXCESSIVE CROP MOISTURE IN THE LOWER MISSISSIPPI VALLEY AND SOUTHEASTERN U.S. HAS IMPROVED CONSIDERABLY. THE SITUATION IS NOW DESCRIBED AS "FAVORABLE, EXCEPT TOO WET IN SPOTS". SOME DRY SPOTS ARE BEGINNING TO SHOW UP IN KANSAS AND THE TEXAS PANHANDLE BUT CURRENT SHOWERS WILL HELP THE LATTER AREA.

# IMMEDIATE - U. S. Weather Report

This Report Will be Treated in All Respects as Letter Mail

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U.S. DEPARTMENT OF COMMERCE

COM 210



## FIRST CLASS MAIL

(continued from page 11)

**SOUTH AMERICA.** Heavy rains drenched the southern states of Brazil and parts of Argentina. Much of Rio Grande do Sul in Brazil received 50 to 100 mm. The soybean harvest is nearly completed and this moisture should not have seriously hindered the crop but may have caused some problems with handling and transportation. Good rains fell across the winter wheat region of Argentina, which should provide good moisture for seeding next month. Colder air has been penetrating northward into Argentina but so far has not bothered crops.

**CANADA.** Wet conditions continued to plague the Prairie Provinces of Canada with general rains

on several days. The only significant fieldwork so far this spring took place in parts of Alberta and Saskatchewan. Very little work was accomplished in Manitoba.

**MEXICO:** A few light showers (less than 6 mm) fell in most exporting production areas; however, heavy amounts (25 to 50 mm) dampened the citrus areas of Jalapa and Veracruz. The major tomato area of Culicán had 5 mm, but larger amounts may have fallen in some northern fields according to satellite photos. Temperature maxima averaged 26 to 33°C; minima were 15 to 22°C.

