

WEEKLY WEATHER AND CROP BULLETIN

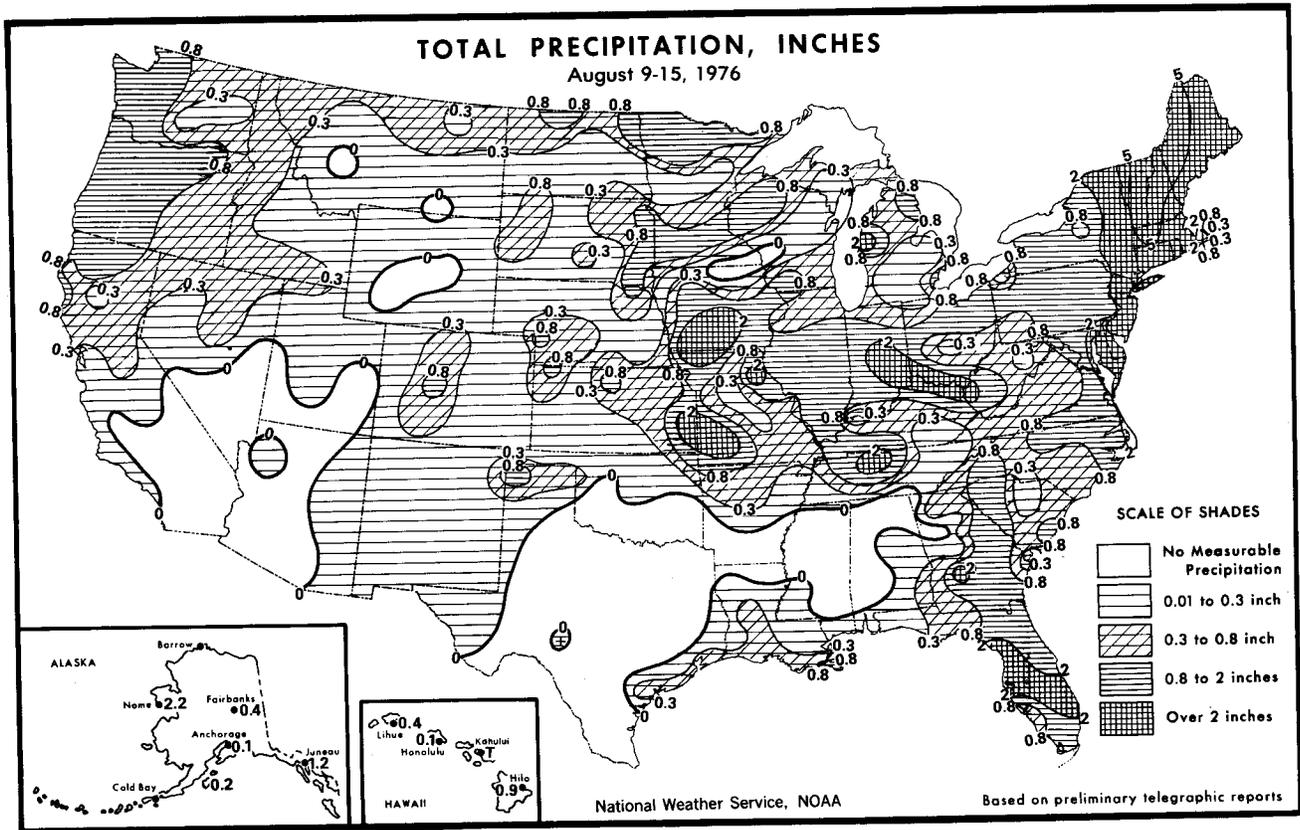
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National Weather Summary For the Week of August 9-15

HIGHLIGHTS: Hurricane Belle caused a flurry of activity as she unleashed high winds and heavy rains over the northern Atlantic Coast States. However, Belle quickly expended her force inland over Long Island and was downgraded to tropical storm status. Other severe weather included thunderstorms which produced high winds, heavy rains, hail, and a few tornadoes. Temperatures slipped to lows of 33° in Flagstaff, Ariz. and 49° in Denver, Colo. on Saturday and even lower readings as an early frost covered sections of Minnesota, Wisconsin, and Michigan.

Hurricane Belle traveled north along the Atlantic Coast and expended much of her force over portions of New York and New England on Monday.

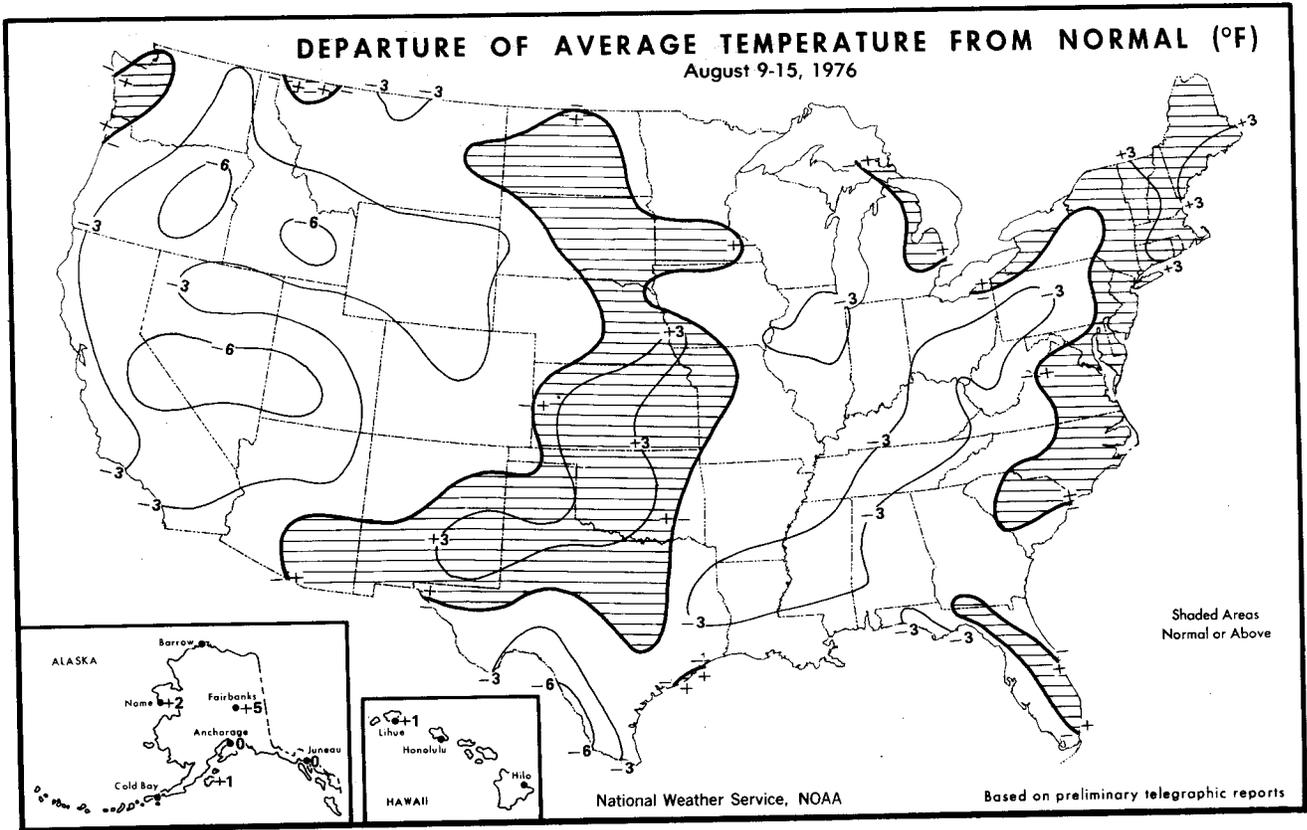
Winds gusted to almost 80 mph at Bridgeport, Conn. and knocked out all power in that area. Winds peaked at about 60 mph at New York City's

La Guardia Airport. Other high winds, around 80 mph, scourged Cape Henlopen, Del. as Belle moved on her way. Winds also uprooted trees and downed power lines in extreme southern New Jersey.

Torrential rains drenched portions of southeastern New York and the southern and eastern parts of New England. Brunswick, Maine received more than 5 inches of rain, while New York's Central Park reported almost 4 inches. Coastal sections of Maryland and Delaware also listed more than 3 inches.

Severe thunderstorms tormented the central and northern Plains States, the upper Mississippi Valley, western Iowa, and eastern New Mexico with high winds, rain, and hail. Isolated thunder-showers dotted southern Florida and parts of Montana.

On the other hand, clear weather reached from lower Michigan, into the central and western Gulf



Coast States, and over most of California.

Contrasting weather converged on the Nation Tuesday. Mercuries dropped to record lows in the South, while high temperatures with high humidity shrouded northwest Missouri, central and western Iowa, and western Nebraska. Although it remained dry in central California and most of South Dakota, flooding extended over portions of New York and New England.

As Belle moved inland, the wind velocity lost some of its violence and caused the downgrade of Belle to tropical storm status. Even at that status, Belle managed to reek havoc over parts of southern Vermont, Massachusetts, and other portions of the Northeast with heavy rains and strong winds.

Sunny skies lingered over most of the Plains, the Rockies, and the desert Southwest. Temperatures stopped in the 90 degree range in the desert Southwest and soared to the 100's in central Kansas.

A line of severe thunderstorms plagued northwestern Missouri and eastern Kansas with heavy rains, hail, and damaging winds on Wednesday. St. Joseph, Mo. and Emporia, Kans. clocked winds at more than 50 mph, as golf-ball sized hail pummeled Tarkio, Mo. The line of thunderstorms stretched across Oklahoma to Iowa, Minnesota, and Wisconsin.

Another hot day prevailed over the southern and central Plains as temperatures skyrocketed to 104° at Concordia and 103° at Russell in Kansas; 105° at Wichita Falls, Tex.; and 103° at Hobart, Okla. New England and the Pacific Northwest reported mercuries in the 80 degree range. Elsewhere, readings reached seasonable marks.

Partly cloudy skies and light winds helped temperatures drop over portions of the Rockies

Thursday morning. Colorado posted record lows of 37° at Alamosa and 50° at Denver.

Cool weather ended over the southeastern States, as cloudy skies and thunderstorms hung over the Gulf of Mexico Coast. Showers developed over the northern Rockies into the Intermountain Region by early afternoon. The showers and thunderstorms centered over the middle Mississippi Valley and the northern Ohio Valley decreased and became widely scattered from the lower Great Lakes Basin through the lower Missouri Valley.

Skies remained sunny over most of the Rockies and the southwestern quarter of the Nation, and temperatures scurried by the 100 degree mark in the desert Southwest.

Thunderstorms pushed across most States east of the Rockies on Friday, the thirteenth. Several of the storm-hit areas reported strong winds in the 60 mph range, golf-ball sized hail, some tornado activity and funnel cloud sightings.

Precipitation also fell over the Pacific Northwest as a cold front approached the coastline, and showers activated in the northern Great Lakes area. Some of the more significant rainfall amounts included more than 2 inches in Cleo, Tex. and almost 1 1/2 inches in Detroit, Mich. Cloudiness varied across the remainder of the Nation as thunderstorms moved across the countryside.

Low early weekend temperatures cooled portions of the Southwest as Flagstaff, Ariz. recorded 33° and Denver, Colo. just 49° on Saturday morning. Other weather activity continued with showers, thundershowers, and thunderstorms in much of the Nation on Saturday and Sunday.

An early frost covered northern sections of Minnesota, Wisconsin, and Michigan in the low-lying areas, and temperatures dropped below freezing in some areas.

National Agricultural Summary

For Week of August 9-15

HIGHLIGHTS: Soil moisture remained short throughout most of the Nation, except in the North Atlantic States. Showers brought relief to some areas in the Central States, however, rain slowed small grain harvest from the Pacific Coast to Minnesota as the harvest season drew to a close. The U. S. corn crop was generally fair to good as more of the crop reached the dent stage. Soybeans developed well nationwide showing good tolerance to stress caused by moisture shortages. Most of the country's cotton was setting bolls and in fair to good condition.

SMALL GRAINS: Only farmers in a few of the Mountain States, Washington, and Oregon harvested winter wheat. Rains hampered combining in the Pacific Coast States. Meantime spring wheat harvest advanced to 61% complete in Minnesota, far ahead of the 42% in 1975 and almost twice the average of 32%. The North Dakota spring wheat crop stood at 45% combined, over twice the normal 22%. In Montana, farmers have harvested 20% of the spring wheat, compared with 1% last year and the 15% average. Rains slowed harvest operations in Minnesota.

Oats combining advanced to 70% complete in Wisconsin, 83% in Minnesota, 65% in North Dakota, and 30% in Montana. In most major States this year's rate of harvest exceeded last year's and the average.

Small grain producers lost no time preparing for the 1977 crop as they plowed from 25% of the winter wheat land in Indiana to 52% in Illinois. About 25% of the Oklahoma wheat land was ready for seeding. Minnesota farmers only disked or used a chisel plow on wheat stubble to conserve limited soil moisture.

CORN: Rains relieved moisture stressed crops in many areas of the North Central States and subnormal temperatures eased the transpiration rate. From 10 to 29% of the corn crop entered the dent stage in the North Central States, lagging last year. In the South, where harvest was active, from 39 to 82% of the crop in States bordering the Gulf Coast was dented, slightly behind last year.

Ohio farmers reported a good to excellent corn crop with 10% dented, half last year's figure but equal to the average. In Illinois 29% of the crop reached the dent stage compared with 48% in 1975 and 26% average. More regular rains improved Wisconsin corn but stands on light soils remained poor. About 30% of the corn attained the dough stage, 5 points behind last year but 5 points ahead of normal. Performance of Iowa's corn depended on moisture supplies. Firing, poor pollination, and subsequent poor kernel development plagued some areas. The crop condition deteriorated from the previous week. Only 18% of the corn was dented compared with 25% in 1975 and 16% average. Irrigated corn in Nebraska was in good shape, but dryland corn reached only the fair state. All corn achieved the dough stage or beyond and 10% reached the dent stage, the same as average but behind 1975's 15%. In South Dakota, dry weather made much of its corn crop too poor for either grain or silage. In Texas, farmers picked 16% of the corn crop compared with 12% in 1975 and 15% normally.

SOYBEANS: Development of soybeans lagged 1975's performance but outpaced the average in the North Central States. In the South Central States,

maturity fell behind both last year and the average except in Mississippi. Fair to good described condition of the Nation's crop, which is standing up well to the dry, hot weather. Illinois soybeans rated mostly good condition with 88% setting pods, compared with 100% in 1975 and 66% average; some leaves began yellowing. Iowa soybeans need rain to fill pods. Condition deteriorated from the previous week. All soybeans were setting pods, ahead of previous years, and leaves started turning color. In Arkansas, shorter than usual soybean plants bloomed well in spite of dry conditions. Farmers irrigated where possible. In Mississippi, 90% of the soybeans bloomed, surpassing 1975's 69% and 64% average, but only 44% were podding compared with 41% in 1975.

COTTON: Most of the Nation's cotton crop rated fair to good; only some of Missouri's crop was in poor condition. Boll set ranged from 75 to 96%, falling short of the last year's maturity rate, and in some instances, the average. Only Oklahoma, with 75% of the crop setting bolls, outdistanced last year. In Texas, harvesting in the Lower Rio Grande Valley and Coastal Bend area reached 65% complete. Statewide cotton picking reached 3%, behind 1975's 4% but equal to the average. Boll weevils heavily infested cotton on the southern Low Plains, where the crop reached peak bloom. Oklahoma cotton experienced only moderate insect damage, but populations began building. In Arizona early cotton set good sized bolls; farmers irrigated late cotton.

OTHER CROPS: Sorghum development lagged last year's rate and the average in most major producing States. The Texas sorghum harvest made excellent progress as it reached 42% complete, compared with 48% in 1975 and 44% average. In Oklahoma, the crop fell behind schedule with 75% headed and 25% in the dough stage and needs rain. Kansas sorghum stood at 50% headed and 5% turning color. In Nebraska, 85% of the sorghum crop headed, compared with 90% in 1975 and 100% normal.

Rice harvest grew more widespread and should begin in California. Texas harvest advanced rapidly to 78% complete compared with 63% last year and 50% average. Louisiana farmers combined 35% of their crop compared with 28% last year and 25% average. Early varieties headed in Arkansas, and late varieties approached the heading stage.

FRUITS AND NUTS: Peach harvest neared completion in the southeast, reached its peak in the northeast, and was in progress in the northwest. Apple harvest of different varieties started throughout the United States. Hail damaged some Washington apples.

VEGETABLES: Summer vegetable harvests continued in the Nation's northern producing areas. In Wisconsin sweet corn matured slowly. Planting activities progressed in Florida, Texas and Arizona. A wide variety of vegetables moved out of Texas packing sheds.

PASTURES AND LIVESTOCK: Pastures provided less than average forage in most of the North Central States, the mid-Atlantic States, California, Oklahoma, and Texas. Elsewhere, grasslands supplied enough forage for cattle. Cattlemen fed hay earmarked for winter use or moved livestock onto irrigated pastures in distressed areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., August 15, 1976

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	78	-2	.1	-.9	La. Baton Rouge . . .	80	-2	T	-1.1	Youngstown . . .	67	-3	.9	+1
Mobile . . .	81	-1	T	-1.5	Lake Charles . . .	80	-2	.2	-.9	OKLA. Okla. City . . .	86	+4	.1	-.5
Montgomery . . .	79	-2	.2	-.5	New Orleans . . .	80	-2	.2	-.9	Tulsa . . .	85	+3	.1	-.5
ALASKA. Anchorage . . .	57	0	.1	-.4	Shreveport . . .	79	-5	1.1	-.5	OREG. Astoria . . .	62	+2	1.6	+1.3
Barrow . . .	-	-	-	-	MAINE. Caribou . . .	68	+5	3.0	+2.2	Burns . . .	61	-6	1.5	+4
Fairbanks . . .	62	+5	.4	-.2	Portland . . .	69	+2	2.9	+2.3	Medford . . .	67	-4	1.0	+9
Juneau . . .	55	0	1.2	+1	MD. Baltimore . . .	76	0	2.0	+1.0	Pendleton . . .	67	-5	.9	+8
Kodiak . . .	56	+1	.2	-.7	MASS. Boston . . .	77	+5	3.1	+2.3	Portland . . .	65	-2	1.0	+8
Nome . . .	52	+2	2.2	+1.4	Chatham . . .	70	-1	.1	-	Salem . . .	64	-2	.8	+7
ARIZ. Flagstaff . . .	61	-3	0	-.6	MICH. Alpena . . .	67	+2	1.3	+7	PA. Allentown . . .	73	+1	1.6	+6
Phoenix . . .	90	0	0	-.3	Detroit . . .	72	0	1.6	+8	Erie . . .	70	+2	.2	-.5
Tucson . . .	85	+1	0	-.6	Flint . . .	70	+1	.2	-.6	Harrisburg . . .	74	-1	1.3	+5
Winslow . . .	74	-3	.3	-.1	Grand Rapids . . .	70	-1	.2	-.3	Philadelphia . . .	76	0	1.5	+5
Yuma . . .	91	-2	0	-.1	Houghton Lake . . .	65	0	.1	-.3	Pittsburgh . . .	66	-5	.5	-.2
ARK. Fort Smith . . .	80	-2	T	-.6	Lansing . . .	70	0	.1	-.5	Scranton . . .	72	+1	.9	+2
Little Rock . . .	80	-1	.3	-.3	Marquette . . .	65	-2	.3	-.3	R.I. Providence . . .	75	+4	2.5	+1.6
CALIF. Bakersfield . . .	80	-2	T	0	Muskegon . . .	69	-1	.4	-.2	S.C. Charleston . . .	79	-1	1.3	-.2
Eureka . . .	57	0	.7	+6	S. Ste. Marie . . .	67	+3	.6	-.1	Greenville . . .	82	+1	1.1	-1.2
Fresno . . .	73	-6	T	0	MINN. Duluth . . .	63	-2	.6	-.3	Greenwood . . .	77	-1	1.2	+3
Los Angeles . . .	69	-5	.1	+1	Internat. Falls . . .	63	-2	.8	0	S.D. Aberdeen . . .	73	+1	.4	-.1
Red Bluff . . .	76	-4	.3	+3	Minneapolis . . .	72	0	.9	+2	Huron . . .	73	0	.1	-.3
San Diego . . .	71	-1	0	0	Rochester . . .	72	+2	1.1	-.7	Rapid City . . .	70	-3	.5	+1
San Francisco . . .	62	-1	.3	+3	St. Cloud . . .	69	-1	.3	-.6	Sioux Falls . . .	75	+2	.8	+2
Stockton . . .	73	-3	.3	+3	MISS. Jackson . . .	78	-4	.1	-.7	TENN. Chattanooga . . .	77	-2	T	-.7
COLO. Denver . . .	69	-4	.1	-.2	Meridian . . .	77	-4	T	-.9	Knoxville . . .	75	-3	.2	-.6
Grand Junction . . .	75	-1	.1	-.1	MO. Columbia . . .	77	0	.1	-.6	Memphis . . .	80	-1	T	-.8
Pueblo . . .	73	-2	T	-.5	Kansas City . . .	80	+1	.7	-.1	Nashville . . .	76	-3	2.7	+2.0
CONN. Bridgeport . . .	75	+2	2.2	+1.3	St. Louis . . .	76	-2	.8	+2	TEX. Abilene . . .	85	+1	0	-.5
Hartford . . .	75	+4	3.1	+2.2	Springfield . . .	77	-1	3.4	+2.8	Amarillo . . .	79	0	.1	-.6
D.C. Washington . . .	78	0	.8	-.3	MONT. Billings . . .	71	-1	T	-.2	Austin . . .	85	0	0	-.4
FLA. Apalachicola . . .	79	-3	.3	-1.4	Glasgow . . .	83	-1	.1	-.1	Beaumont . . .	81	-2	.6	-.7
Daytona Beach . . .	80	-1	1.4	-.1	Great Falls . . .	86	-3	.6	+4	Brownsville . . .	83	-2	0	-.5
Ft. Myers . . .	82	-1	.4	-1.3	Havre . . .	66	-2	T	-.2	Corpus Christi . . .	84	-1	0	-.6
Jacksonville . . .	80	-1	1.1	-.7	Helena . . .	64	0	.6	+3	Dallas . . .	82	-5	0	-.2
Key West . . .	84	-1	.9	0	Kalispell . . .	74	0	.1	-.2	Del Rio . . .	81	0	T	-.3
Lakeland . . .	81	-1	4.1	+2.5	Miles City . . .	64	-2	.2	0	El Paso . . .	87	+1	0	-.5
Miami . . .	83	0	1.7	+3	Missoula . . .	76	0	.2	-.4	Fort Worth . . .	84	0	.3	-.6
Orlando . . .	83	+1	1.0	-.5	NEBR. Grand Island . . .	78	+1	.1	-.6	Galveston . . .	82	-2	T	-1.0
Tallahassee . . .	82	+1	.3	-1.2	Lincoln . . .	75	0	.6	0	Houston . . .	82	+3	T	-.4
Tampa . . .	81	-1	2.4	+6	Norfolk . . .	70	-4	.5	0	Lubbock . . .	82	0	0	-.4
W. Palm Beach . . .	82	0	2.9	+1.5	N. Platte . . .	78	+3	.6	-.3	Midland . . .	82	0	0	-.3
GA. Atlanta . . .	77	-1	T	-.8	Omaha . . .	74	0	.2	-.4	San Angelo . . .	83	-2	0	-.5
Augusta . . .	80	0	.8	-.2	Valentine . . .	61	-6	T	-.1	San Antonio . . .	84	-1	.7	+1
Macon . . .	80	-1	.1	-.7	NEV. Ely . . .	83	-5	0	-.1	Victoria . . .	88	+2	0	-.4
Savannah . . .	79	-2	.1	-1.4	Las Vegas . . .	63	-5	.2	+1	Waco . . .	89	+3	0	-.4
HAWAII. Hilo . . .	76	0	.9	-1.7	Reno . . .	67	-2	.3	+2	Wichita Falls . . .	68	-4	T	-.4
Honolulu . . .	81	0	.1	-.1	Winemucca . . .	71	+3	1.6	+1.0	UTAH. Blanding . . .	78	-3	.1	-.1
Kabului . . .	80	+1	T	-.1	N.H. Concord . . .	74	0	4.3	+3.1	Salt Lake City . . .	70	+2	2.4	+1.6
Lihue . . .	80	+1	.4	-.2	N.J. Atlantic City . . .	75	0	2.1	+1.1	VT. Burlington . . .	75	0	.6	-.3
IDAHO. Boise . . .	68	-5	.3	+5	Trenton . . .	76	-1	.2	-.1	VA. Lynchburg . . .	77	0	1.9	+5
Lewiston . . .	70	-3	.6	+1	N.MEX. Albuquerque . . .	83	+4	T	-.4	Norfolk . . .	77	0	.8	-.4
Pocatello . . .	65	-6	.2	-.1	Roswell . . .	72	+2	2.2	+1.6	Richmond . . .	74	-1	.8	-.4
ILL. Cairo . . .	78	-2	.7	-.2	N.Y. Albany . . .	67	-1	1.9	+1.1	Roanoke . . .	64	-4	.4	+2
Chicago . . .	72	-3	.5	-.3	Binghamton . . .	67	+2	1.1	+1.1	WASH. Colville . . .	67	-2	.5	+4
Moline . . .	73	-4	1.1	+4	Buffalo . . .	69	0	1.2	+4	Omak . . .	58	-1	1.7	+1.1
Peoria . . .	71	-3	.4	-.4	New York . . .	77	+1	3.7	+2.6	Quillayute . . .	65	-1	.9	+7
Rockford . . .	70	-2	.9	+3	Rochester . . .	70	0	1.7	+1.0	Seattle-Tacoma . . .	66	-3	.2	+1
Springfield . . .	73	-2	.1	-.6	Syracuse . . .	69	-1	.8	0	Spokane . . .	70	-5	.5	+4
IND. Evansville . . .	75	-1	.4	-.3	N.C. Asheville . . .	71	-2	1.6	+5	Walla Walla . . .	67	-2	.1	0
Ft. Wayne . . .	71	-1	3.1	+2.5	Charlotte . . .	79	+1	.3	-.6	Yakima . . .	67	-2	.8	0
Indianapolis . . .	73	-1	.6	-.2	Greensboro . . .	76	-1	1.2	+2	W. Va. Beckley . . .	71	-3	1.5	+6
South Bend . . .	71	-3	1.4	+7	Hatteras . . .	78	0	3.9	+2.4	Charleston . . .	73	-2	2.9	+2.1
IOWA. Burlington . . .	72	-2	2.2	+1.5	Kaleigh . . .	79	+2	.6	-.5	Huntington . . .	71	-4	.6	-.2
Des Moines . . .	72	-2	1.5	+6	Wilmington . . .	80	0	.4	-1.2	Parkersburg . . .	67	-2	.3	-.3
Dubuque . . .	69	-1	.2	-.4	N. DAK. Bismarck . . .	71	0	.1	-.4	WIS. Green Bay . . .	72	-1	T	-.6
Sioux City . . .	74	+5	.4	-.3	Fargo . . .	70	-1	.2	-.5	La Crosse . . .	70	0	.8	+1
KANS. Concordia . . .	83	+4	.1	-.5	Williston . . .	70	0	.6	+2	Madison . . .	71	+1	.6	0
Dodge City . . .	83	0	.6	+1	OHIO. Akron-Canton . . .	69	-2	.9	+3	Milwaukee . . .	68	-3	T	-.1
Goodland . . .	75	+2	.3	-.7	Cincinnati . . .	72	-3	3.1	+2.5	Wyo. Casper . . .	65	-4	.2	-.2
Topeka . . .	80	+3	.1	-.6	Cleveland . . .	71	0	1.2	+5	Cheyenne . . .	67	-3	T	-.1
Wichita . . .	84	-3	.4	-.4	Columbus . . .	70	-3	.2	-.5	Lander . . .	67	-3	T	-.2
KY. Lexington . . .	73	-1	.8	+1	Dayton . . .	71	-3	.6	0	Sheridan . . .	68	-3	T	-.2
Louisville . . .	76	-1	.8	+1	Toledo . . .	71	-1	.3	-.4	P.R. San Juan . . .	84	+3	.8	-.8

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State Summaries of Weather and Agriculture

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

ALABAMA: Very dry. Rains 15th over north half. Temperatures $1\frac{1}{2}$ below normal. Extremes: 99 and 54°.

Favorable crop development. Soil moisture short. Cotton fair to good condition; 83% setting bolls, 94% 1975. Corn good condition, dented 82%, 76% 1975, 45% mature, 36% 1975. Soybeans favorable growth, 69% blooming, 84% 1975, 77% average. Over 40% setting pods. Peanuts fair to good growth and development. Pastures fair to good.

ALASKA: Tanana Valley rain and cool, warmer and drier midweek but rain again end of week. Temperatures above seasonal normals. Matanuska Valley rain first of week and parts of valley midweek. Drier than normal in spite of locally above normal rain. Warmer than normal. Kenai Peninsula warmer and sunnier than normal. Rain 7th to 9th. Drier than normal. About 40% of normal rainfall received.

Kodiak Island dry and cooler with little rain first and last of week. Temperatures warmest midweek, above normal.

Ground moisture adequate in Tanana Valley to short in Matanuska Valley and Kenai Peninsula. Most grain turned color. Prospects for potato and vegetable yields rated fair to good.

ARIZONA: Scattered showers. Temperatures 4° below normal in north central, 1° above in northwest.

Cotton operations normal, crop good progress. Early cotton setting good size bolls. Late cotton being irrigated, square setting excellent. Pink bollworm problem, frequent insecticide applications. Sorghum various stages, wide range of maturity. Late fields severely infested southwestern cornborer. Baling hay continues, market is good. Planting fall vegetables underway. Cantaloups being thinned. Citrus harvest virtually complete. Desert ranges poor to fair, some supplemental feeding. Higher ranges good to excellent. Livestock good to excellent higher elevations, fair on desert ranges.

ARKANSAS: Temperatures ranged from record-breaking lows early to above normal by weekend.

Temperatures averaged normal south and west and 3 to 5° below normal north and east. Very dry week. Southern half no rain. Scattered showers and thunderstorms over north. Amounts 0.25 to 0.75 in. Extremes: 52 and 102°.

Soybeans blooming well, but dry. Plants shorter than usual. Irrigation continued where possible. Condition mostly fair. Cotton fruiting well, peak squaring. No open bolls, 96% setting bolls. Condition fair. Rice mostly good. Early varieties heading, late approaching head. Some sheath blight. Harvest of early sorghum to begin in 2 weeks. Condition of sorghum fair to good. Corn fair to good. Most reporting shortage of feed for livestock. Reduced hay yields. Farmers fed hay or sold livestock. Insects and pinkeye caused problems.

CALIFORNIA: Temperatures below normal. Rain showers northern third 13th. Sacramento Valley temperatures cooled 10 to 20°. Rainfall totals of 0.10 in. in Valley but nearly 0.50 in. north coast and northern mountains.

Cool weather held back growth and development

field crops. First harvest rice, milo expected about 3 weeks. Safflower harvest increasing San Joaquin Valley, starting Sacramento Valley. Cotton making good progress. Harvest early varieties almonds begun in few areas. San Diego lemon drop heavier than usual. Picking of pears begun in most areas. Growers concerned over weekend rains: Conditions created for brown rot and drop in stone fruit; mildew, bunch rot, slip skin in grapes. No damage assessment available. Vegetables improving, ripening rapidly. Cannery strike effects drawn out. Some grower discontent. Rangeland remains dry. Showers gave relief to higher elevations. Supplemental feeding necessary many areas. Most cattle moved to irrigated pasture.

COLORADO: Temperatures below normal. Extremes: 101 and 17°. Light snow Central Mountains above 11,000 feet midweek. Light precipitation general some areas heavy rains and golf ball size hail. Several tornadoes northeast.

Spring barley harvest 59% complete, 26% 1975; condition good. Sorghum 59% headed, 50% 1975; condition good. Dry beans flowered 83%, 79% 1975, condition very good. Summer crop potato harvest 23% complete, 18% 1975; condition summer and fall very good. Corn silked 85%, 84% 1975, average height 81 in., 75 in. 1975, condition very good. Oats condition good. Alfalfa condition good, 76% 2nd cut, 12% 3rd cut. Sugarbeet condition very good. Range and pasture conditions fair. Livestock condition good.

FLORIDA: Partly cloudy with temperatures near normal. Rainfall slightly below normal except for a few locations receiving 3.00 to 5.00 in.

Soil moisture mostly adequate; short, few areas. Corn harvest progress good. Good to excellent yields. Tobacco harvest nearing completion. Marketings active. Peanut harvest underway. Some white mold problem. Hay cutting decreasing. Sugarcane growth good. Forage conditions good to very good, moisture adequate. Cattle and calves generally good. Citrus groves excellent condition as hot temperatures, ample moisture provide good growing condition. Small volume old crop valencias being harvested. Fall plantings increasing. Tomatoes being transplanted. Pepper seeding underway southwest. Eggplant transplantings increasing southeast. Sweet corn plantings underway Everglades.

GEORGIA: Rainfall variable, with amounts ranging from less than 0.50 in. to more than 4.00 in. Temperatures near normal except 2 or 3° below north central and central.

Soil moisture extremely variable, very short to adequate. Weekend showers brought needed moisture to some areas. Fieldwork: 6.0 days suitable. Cotton fair to good, slightly improved, setting bolls and 1% open, same as last year. Some decline in condition other row crops. Peanuts rated fair to mostly good, 99% blooming and 99% pegging, last year 100% blooming and 99% pegging. Spraying very active. Insect control active on soybeans, condition fair to mostly good. Corn condition fair to mostly good, early harvest active south. Tobacco 96% harvested, last year 95%, average 93%. Marketing active. Watermelons mostly fair, 95% harvested, last year 97%. Peach harvest 99% complete, last year 100%, average

98%. Apple condition good, 27% harvested. Hay-ing active, condition fair to good, problems with armyworms. Cattle fair to mostly good. Pasture condition fair to good. Hogs good condition.

HAWAII: Weather favorable. Most windward areas received light rains. Gusty winds mainly on Oahu.

Spray frequent. Irrigation heavy. Vegetable supplies adequate. Dry onion harvesting Maui and Molokai declining. Banana harvesting steady. Papaya supplies light to moderate. Pineapple harvesting over peak. Sugar harvesting steady. Pastures leeward poor, windward fair to good.

IDAHO: Temperature 2 to 8° below normal. Extremes: 80 and 35°. Rain north and southwest 0.89 in.

Good growing conditions. Some problem rain, hail. Main activities grain harvest, hay irrigation. Crops need warm weather. Range good to excellent. Livestock good condition.

ILLINOIS: Temperatures 1 to 6° below normal. Precipitation 0.50 in. to 1.50 in., 0.10 in. extreme east and southeast.

Corn good to fair; 75% in dough, 86% 1975, 63% average; 29% reached dent, 48% 1975, 26% average. Soybeans good; 88% set pods, 100% 1975, 66% average; beginning to turn yellow. Winter wheat acreages 52% plowed, 45% 1975, 45% average. Third crop alfalfa hay mostly fair to good; 32% cut, 23% 1975, 19% average. Pastures mostly fair. Soil moisture short to adequate. Fieldwork: 5.8 days suitable.

INDIANA: Normal temperatures ranging from 40 to 91° but showers varied from only 0.10 in. in extreme southwest and northeast, to 3.10 in. central, 1.00 to 1.50 in. in lower central. Since August 1 only 0.10 to 0.50 in. extreme southwest and northeast corner.

Fieldwork: 6.0 days suitable. Topsoil moisture and subsoil moisture short to mostly adequate. Corn 95% silked, 1975 95%. Corn 45% in dough, 10% dented. Soybeans 75% setting pods, 1975 75%. Wheat land 25% plowed, 1975 30%, average 35%. Pastures fair.

IOWA: Temperatures 2 to 3° subnormal east, 3° above normal southwest. Precipitation light over dry northwest to moderate with locally heavy showers south.

Hot, dry weather harmful to crops. Scattered storms midweek brought little relief to dry west central, northern third. Crops deteriorated in those areas, especially northwest. Crops good elsewhere, especially southeast. Fieldwork: 6.1 days suitable. Corn variable, poor northwest, good to excellent southeast. Firing, poor pollination and kernel development west central, northern third. Corn condition good to fair; 80% corn milk stage. Corn dough stage 51%, 63% 1975, 58% average. Corn dented 18%, 25% 1975, 16% average. Soybeans standing dryness better than corn, need rain to fill pods. Soybean condition good to fair. All beans setting pods, 88% 1975, 80% average. Leaves starting to turn. Some pasturing of third alfalfa crop. Third crop alfalfa 38% harvested, 10% 1975, 23% average. Second clover crop 77% harvested, 68% 1975, 64% average. Topsoil moisture short to adequate, subsoil moisture short to adequate. Livestock good, pastures poor. Some hay, silage feeding. Winter feed supplies a concern.

KANSAS: Temperatures ranged from 79° northwest to 85° south central representing readings around

normal southeast to 4° above normal south central and central. Scattered showers and thunderstorms with most significant east and north to locally heavy amounts east. Local rains of 1.00 in. to 2.00 in. east with lesser amounts northwest and north central and only a few hundredths or none at all southwest.

Dry weather continued to put stress on nonirrigated row crops. Corn dough 45%, 65% last year and average; 15% in dent, 25% last year and 30% average. Sorghum headed 50%, 5% colored, both same last year and average. Soybeans setting pods 40%, 55% last year, 60% average. Alfalfa third cutting 70% complete, 50% last year, 55% average. Rain needed.

KENTUCKY: Temperatures near to slightly below normal. Scattered showers and thundershowers at week's end. Precipitation around 0.75 in. with heavier amounts in northeast.

Soil moisture adequate to short. Fieldwork: Over 5.0 days favorable. Corn mostly excellent condition; 47% dough stage, 24% dented. Soybeans 51% podding or podded, condition fair to good. Burley tobacco conditions improving, mostly fair to good. Over 60% of all tobacco topped. Cutting of burley beginning, 4% cut becoming more widespread. Third cutting alfalfa over 60% complete.

LOUISIANA: Several record low temperatures 9th. Scattered showers south late week, amounts near 1.00 in.

Soil moisture short except extreme southeast. Cotton mostly good; some shedding fruit, needs rain. Rice good; 63% ripe, 35% harvested, 28% year ago, average 25%. Soybeans 88% blooming or past, 54% setting pods; rain needed badly. Corn good; 82% mature, 12% harvested, 8% year ago. Sorghum fair to good; 86% headed, 32% turning color. Sugarcane good; borers light to moderate. Sweetpotatoes 6% harvested. Pastures fair to good. Cattle good.

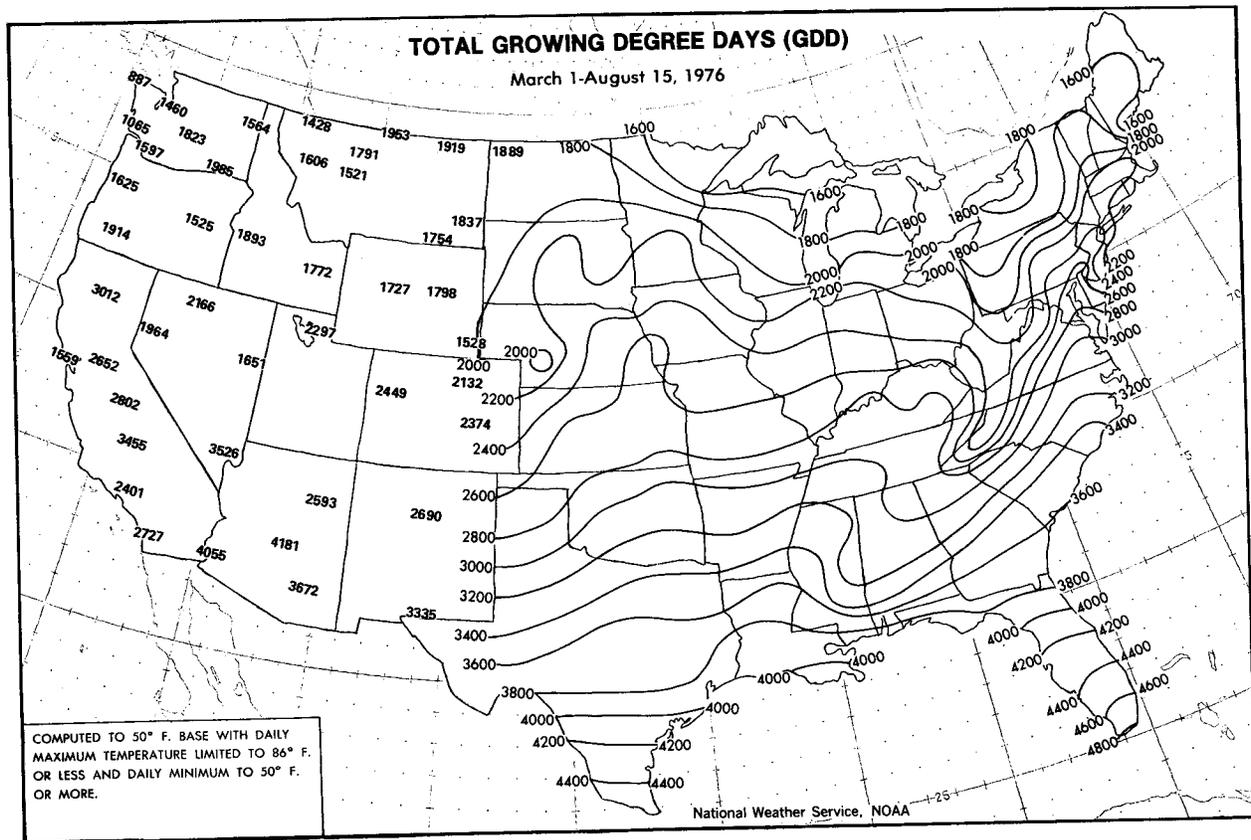
MARYLAND & DELAWARE: Temperatures normal to 4° below normal. Extremes: Mid 90's, upper 40's. Precipitation ranged 0.30 to 6.69 in. Heavier amounts due to Hurricane Belle. Weekend warm with scattered showers.

Corn 60% in dough stage, 25% in dent stage; 55%, 30% 1975; 56%, 21% average. Soybeans 70% bloomed, 35% podded; 65%, 30% 1975; 61%, 27% average. Tobacco 15% harvested, equal to last year and average. Third cutting alfalfa and second cutting other hay 85% complete. Vegetable harvest in full swing. Apple and peach harvest active.

MICHIGAN: Temperatures ranged from 93° in south to 32° in extreme north. Precipitation occurred in most areas, averaging 0.32 in. south central to 1.35 in. west central.

General rains benefited crop growth. Soil moisture: Very short in western Lower one-half, mostly short to adequate elsewhere. Corn 100% silked, 85% normal; over 40% in dough, 25% normal. Wheat harvest virtually complete. Oat harvest 80% complete, 65% 1975, 55% normal. Dry beans 45% setting pods, 50% 1975. Soybeans 55% setting pods, 65% 1975, 66% normal. Summer potato digging 30% Saginaw Bay area, 15% statewide. Second crop hay over 70%, 70% 1975, 60% normal. Pasture feed supplies below average to average. Harvests: Summer apples over 30%, peaches 40%. Cabbage and celery 20%. Sweet corn 30%.

MINNESOTA: Temperatures 2° below normal north-



east to 2° above normal southwest. Extremes: 97 and 35°. Precipitation at or above normal west and north central ranging from 0.80 in. to 1.30 in. and at or below elsewhere ranging from 0.70 in. to 0.30 in.

Rains helped some row crops south, slowed small grain harvest north. Soybeans showing regrowth from earlier moisture in some southern areas. Few fields yellowing. Filling of corn ears helped by moisture, but many fields showing effects of earlier stress. Green chopping of corn beginning west central, southwest to supplement forage for livestock. Many farmers disking or chiseling stubble field rather than plowing to conserve winter moisture. Corn 88% in milk, 1975 79%, normal, 68%, in dough 29%, 1975 30%, normal 19%. Soybeans 84% setting pods, 1975 87%, normal 83%. Small grains combined: Spring wheat 61%, 1975 42%, normal 32%; oats 83%, 1975 70%, normal 59%; barley 77%, 1975 71%, normal 58%; flax 33%, 1975 16%, normal 17%. Winter wheat, rye harvest virtually completed.

MISSISSIPPI: Temperatures 3 to 6° subnormal. Extremes 50 and 98°.

Soil moisture short. Fieldwork: 6.2 days suitable. Cotton 83% setting bolls, 92% 1975, 94% average. Soybeans 90% blooming, 69% 1975, 64% average; 44% podding, 41% 1975. Rice 65% headed, 25% 1975. Corn 93% to dough stage, 65% 1975; 63% dented, 53% 1975. Sorghums 82% headed, 69% 1975; 19% ripe. Watermelons 89% harvested, 83% 1975, 76% average. Hay crops 69% harvested, 52% 1975, 62% average. Peaches 97% harvested, 91% average. Cotton in mostly fair condition. Other crops in fair to good condition.

MISSOURI: Temperatures 2 to 5° below normal in

the northeast prairie, East Ozarks, and the Boot-heel, 1° above elsewhere. Precipitation in the northern portion averaged 0.50 in. to 1.00 in., 0.25 in. elsewhere.

Fieldwork: 5.5 days suitable. Soybeans 77% blooming, 1975 86%, normal 77%. Soybeans 49% setting pods. Corn 96% silked, 1975 95%, normal 91%. Corn 61% in dough stage. Grain sorghum 74% headed, 1975 81%, normal 74%. Grain sorghum 4% matured. Cotton 94% squared, normal 99%. Setting bolls 76%. Third cutting alfalfa hay 55% harvested, normal 40%. Beans and corn mostly fair. Cotton poor to fair. Pastures poor to fair. Soil moisture short.

MONTANA: Mild, showery, with temperatures 6° below normal southwest, near normal elsewhere. Scattered afternoon and evening showers or thunderstorms accompanied at times by heavy rain, winds and hail.

Grain harvest slowed by rains. Near 45% winter wheat combined, 10% last year and normal 40%. Spring wheat 20% harvested, 1% last year and normal 15%. Oats 30% and barley 20% harvested. About 40% spring grains ripe and ready for harvest. Second cutting alfalfa 35% done. Grasshopper infestations light to moderate, heaviest in north central and southeast. Grasshopper damage mostly light. Range feed and stockwater adequate.

NEBRASKA: Temperatures above normal except near end when 5 to 15° below normal. Showers and thunderstorms intermittent, heaviest over north central.

Topsoil moisture short. Subsoil moisture short. Irrigated corn good condition. Dryland corn fair condition. All corn 50% in dough stage or beyond, 50% normal, 60% 1975; 10% in dent stage, 10%

normal and 15% 1975. Sorghum and soybeans fair condition. Sorghum 85% headed, 100% normal and 90% 1975; 10% turned, 10% normal and 1975. Soybeans 85% podded, 90% normal and 85% 1975. Alfalfa and wild hay fair condition. Third cutting alfalfa 15% harvested. Pasture and range feed supplies short.

NEVADA: Unseasonably cool, unsettled weather. Temperatures 5° below normal. Extremes: 105 and 33°. Above normal precipitation fell north. Snow level dropped to 8,000 feet.

Potatoes blossom stage or beyond. Haying, small grain harvest delayed by rains north. Ranges improved somewhat by recent showers.

NEW ENGLAND: Hurricane Belle moved inland along Connecticut River Valley late on 9th and during 10th with much less rainfall than anticipated. Serious flooding only in Vermont. Between 2.00 to 5.00 in. rain fell 9th to 11th. Another 0.50 in. fell by week's end from scattered thunderstorms. Temperatures below normal early but hot and humid after midweek.

Damage to crops not extensive. Winds caused minimal damage to fruit trees. Flooding caused some damage to hay, corn and vegetables. Several hundred acres Maine potatoes damaged by flooding. Full extent damage not known at this time. Very little fieldwork done, fields too wet to support equipment.

NEW JERSEY: Temperatures near normal. Extremes: 47 and 92°. Rainfall 2.68 in. north, 4.18 in. central and 4.05 in. south. Soil moisture, in percent of field capacity averaged: 91% north, 91% central and 97% south. Soil temperature averaged 72° north and 76° south.

Hurricane Belle caused losses to some crops while benefiting others. Soil moisture mostly adequate but surplus in a few areas. Harvest of many summer vegetables declining. Potato digging increasing as soil conditions permit. Peach harvest peaking. Cranberry prospects good. Rain improved field corn and soybean prospects. Soil preparations underway for fall planted grains. Alfalfa seeding begun. Third cutting of hay being made as weather permits.

NEW MEXICO: Precipitation very light. Weekend almost entirely dry. Temperatures 1 to 3° sub-normal central and west and 2 to 5° warmer than normal east.

Topsoil moisture short. Subsoil moisture short to adequate. Cotton good, 95% setting bolls. Alfalfa good, third cutting 85% complete, fourth cutting 40% underway. Irrigated grain sorghum good, 85% heading. Corn good, 50% tasseling. Apples good, harvesting underway. Chili, tomatoes, beans good, approaching harvest. Onion harvest continued. Ranges and sheep fair to good. Cattle good.

NEW YORK: Hurricane Belle passed over Long Island 9th and produced storm winds causing some crop damage over the Island and in portions of southeast. Very heavy rainfall caused some flooding. Precipitation 2.00 to 4.00 in. over eastern sections. Scattered thunderstorms 13th, 14th and 15th. Temperatures near normal in the west and 2 to 4° above normal east. Cloudiness prevalent.

Rain and cloudy conditions held back fieldwork. Corn condition variable. Warmer temperatures and sunshine needed for development. Harvest of early planted oats made some progress. Prospects poor for late planted fields. Diseases and lodging widespread. Wheat harvest nearly

complete. Second cutting alfalfa over 50% completed, some third cutting underway. Dry bean prospects fair, development slow with weed and disease problems. Potatoes look good, early varieties being harvested. Onion set harvest complete, other just beginning. Cabbage for kraut harvest underway, quality fair. Tomatoes ripening slowly. Sweet corn harvest continues. Fruit condition good with early harvest apples, peaches and pears.

NORTH CAROLINA: Temperatures near normal. Excessive rain along coast but drought continued inland until some showers developed during weekend.

Fieldwork: 5.5 days suitable. Soil moisture very short to adequate. Most crops deteriorated. Flue-cured tobacco fair to good; 63% harvested, 1975 51%, average 42%. Corn fair to good. Soybeans, fair to good. Peanuts fair to good. Cotton fair to good. Hay fair; 72% harvested, 69% 1975 and average. Pasture poor to fair. Sweetpotatoes fair to good, harvesting less than 5% complete. Apples fair to good.

NORTH DAKOTA: Temperatures ranged from 1 to 4° above normal, with high of 97° and low of 40°. Precipitation ranged from 0.37 in. below normal to 0.94 in. above normal. Weekend cooler with scattered rain showers.

Harvesting made good progress with about 47% hard red spring wheat combining completed, 26% durum, 70% barley and oats 63%. Normal 22%, 9%, 43% and 38% respectively. Moisture supplies improved northern portions.

OHIO: Showers and thundershowers 12th to 14th. Precipitation ranged from 0.20 in. central to 3.13 in. southwest. Temperatures below normal 9th, 14th to 15th and near normal 10th. Extremes: 90 and 47°.

Harvest completion: Potatoes 15%, timothy seed 50%; alfalfa hay 3d cutting 20%, 15% 1975 and 10% normal; clover-timothy 2nd cutting 85%, 80% 1975 and 70% normal. Corn 65% in dough stage, 75% 1975 and 50% normal. Corn 10% dented but not hard, 20% 1975 and 10% normal. Soybean 35% pods set, 45% 1975 and 30% normal. Tobacco 20% topped, 20% 1975 and 25% normal. Fall plowing for wheat 30% complete, 20% 1975 and 25% normal. Corn and soybean condition reported good to excellent. Soil moisture adequate. Fieldwork: over 5.0 days suitable.

OKLAHOMA: Temperatures 3° below normal southeast to 5° above normal north central. Precipitation ranged from zero west central, southwest and south central to 0.40 in. northeast.

Weekend hot with scattered light to moderate showers confined to northwest half.

Dry hot weather dropped soil moisture supplies, and corn and sorghum condition fell slightly, other crops held steady. Wheat ground 25% ready for seeding, near average for date. Fertilizer being applied. Corn fair to good condition, 70% at or past dough. Ensilage cutting to start soon in Panhandle. Sorghums mostly fair to good. Crop late with under 75% headed, just over 25% in dough. Needs rain to fill. Cotton mostly good, ahead of year ago and average with near 75% setting bolls. Insect damage moderate but building. Peanuts good condition and growth pattern ahead of a year ago and average when 59% were spiking. Soybeans late but good; only 25% setting pods, average 33%. Pecan outlook poor to fair. Insect damage heavy. Ranges burning as top soil moisture short. Cattle good condition but some supplemental feeding in few localities.

OREGON: Temperatures near normal but mostly 3 to 5° below normal east. Extremes: Low 90's, high 40's west; low 90's, mid 30's east. Precipitation variable but widespread, amounts ranging from 0.10 to 0.67 in. Willamette Valley.

Fall grains harvested as weather permits. Grain quality and yield mostly good. Second and third hay cuttings being made. Mint being harvested. Peach harvest continues. Pear harvest one to two weeks away. Beans, broccoli and sweet corn being harvested. Potato harvest continues; yields good. Livestock in good condition. Ranges and pastures in fair to good condition, improved by recent rains.

PENNSYLVANIA: Near normal temperatures under clear and partly cloudy skies through 12th. Very humid and warm with numerous scattered showers and thunderstorms remainder of period. Temperatures mostly in 55 to 85° range with extremes 90 and 44°. Rainfall 1.50 to 3.00 in. southeast, 1.00 to 1.50 in. central and northwestern mountains and 0.50 southwest. Fourth week of above normal rainfall many sections.

Fieldwork limited. Soil moisture adequate to surplus. Activities: Hay making, oats combined, tobacco topping, potato digging, picking sweet corn, snapbeans, tomatoes, peaches and apples, fall plowing. Oats 86% harvested, 75% last year. Tobacco harvest 13% complete, 5% last year. Potatoes excellent condition, limited blight, 12% dug, 20% last year. Corn for grain excellent condition, 9% pre-silk, 60% silk, 27% in dough stage, 4% dented. Fall plowing 13% done. Alfalfa second cut 79%, equal to 1975; third cut 30%, 20% in 1975; fourth cut 20%, not started last year. Clo-tim second cut 53% equal to 1975. Quality of hay made fair. Feed from pastures above average. Fruits and vegetables in good condition. Peach harvest full swing, some splitting from excessive moisture.

PUERTO RICO: Island rainfall 1.18 in. or 0.48 in. below normal. Temperatures about 81° on coasts and 76° interior. Extremes: 92 and 60°.

Recent rains benefited growth sugar cane ratoons but in southern and western areas more rains needed for recuperation from drought effects. Rains favored development of coffee bean. Some new plantings affected by drought. Soil preparations for tobacco seedbed underway. Pastures improving by recent rains but in southern, western and some central areas more rains needed for recuperation from dry weather. Rains benefited development of food crops although in some southern, western and central areas more rain needed.

SOUTH CAROLINA: Hot, dry weather; temperatures near normal early week, above normal near end. Extremes: 97 and 59°. Amounts mostly light.

Farm activities: Harvest of corn, tobacco, grapes, apples, watermelons, peanuts, some late peaches. Application of insecticides to cotton, soybeans, peanuts; applying herbicides to soybeans. Soil moisture mostly short. Armyworms causing damage to milo, coastal bermuda, sorghum. Bollworm, boll weevil infestation high in some cotton fields. Corn earworms in soybeans. Dry, hot weather continues to adversely affect most crops. Tobacco harvested 91% 1976, 83% 1975, 86% average. Peaches harvested 98% 1976, 94% 1975, 92% average. Soybeans blooming 55% 1976, 63% 1975, 60% average. Soybeans setting pods 25% 1976, 35% 1975, 27% average. Cotton setting bolls 94% 1976, 94% 1975, 92% average. Corn harvesting 10% 1976.

SOUTH DAKOTA: Severe drought central and east, main concern. Varied generally light showers provided little relief. Growing season moisture deficits: 14.00 in. northeast. 6.00 to 8.00 in. central and southeast. Temperatures normal Extremes: 46 and 104°.

Row crops deteriorating. Corn damaged most, much too poor for silage for grain. Corn 14% in. dough stage, 1975 26%, normal 34%. Sorghum development hindered, 57% headed, 1975 63%, normal 67%. Soybeans also under stress, 81% podded, 1975 90%, normal 82%. Flax rushed to maturity by drought, 85% ripe, 1975 71%, normal 65%. Flax 65% harvested, 1975 41%, normal 35%. Some cattle losses due to high nitrate levels in corn plants where fields were pastured. Pink-eye and some calf losses to pneumonia. Cattle-men still forced to cut back herds due to feed and water shortages. Green chopped corn and stubble fields providing temporary feed. Silage chopping getting started.

TENNESSEE: Scattered thundershowers 14th and 15th. Rainfall averaged less than 0.25 in. Temperatures 1 to 3° below normal. Weekend showers but more rain needed.

Insect populations on increase. Armyworms reported, slight damage from budworm and boll weevils. Pastures short. Haying, spraying, weeding and cultivating main activities. Fall plowing slightly behind normal. Fieldwork: 5.7 days suitable. Soil moisture short. Corn in good condition, almost 100% silked. Corn 73% dough, 77% last year, 84% average. Corn 39% dented, 43% last year, 45% average. Corn 8% mature, 5% last year, 8% average. Slight budworm and boll weevil damage in cotton. Cotton 84% setting bolls, 86% last year, 88% average. Soybeans 77% blooming, 80% last year, 80% average. Soybeans 38% setting pods, 38% last year, 39% average. Tobacco 80% topped. Blackshank and wildfire reported. Crop short due to poor weather. Burley 20% harvested, 8% last year, 10% average.

TEXAS: Hot dry prevailed. Temperatures from 6° above normal over northwest to 1° above normal along coastal plains. Normal temperatures range near 80° northwest to middle 80's southeastern. Rainfall east, southeast, Panhandle. Rainfall along upper coast, averaged 0.50 in. other sections 0.25 in. or less. Normal rainfall ranges from 0.25 in. southwest to 1.00 in. Upper Coast.

Hot, dry weather. Cotton, sorghum, rice harvesting progressed rapidly. Most crops remain good condition; rain welcomed all areas. Cotton continues good progress. Harvesting 3% complete, 4% 1975, 3% average. Boll weevils heavily infest fields on southern Low Plains. Southern High Plains cotton reached peak bloom. Corn good to excellent condition. Harvesting 16% complete, 12% 1975, 15% average. Sorghum harvest 42% complete, 48% last year, 44% average. Fields most areas look good. Greenbugs on plains now decreasing. Peanut harvesting 7%, 5% 1975, 10% normal. Fields in Blacklands need moisture. Wilting in that area. Rice harvesting 78% complete, 63% 1975, average 50%. Soybeans most areas look good; fruiting on high plains. Haying continued active. Dry weather slowed crop growth.

Harvest watermelons, tomatoes, peas, okra, beans continues. Some sweetpotatoes dug. Movement of peaches complete. Pecan drop continues. Preparation for fall vegetables active. Movement onions, potatoes, cabbage, bell peppers continues. Hot dried ranges all parts. Soil moisture

on plains, north, central, east short. Range fires north, south, Edwards Plateau. Cattle generally good. Screwworms, ticks south.

UTAH: Widely scattered showers and thunderstorm activity southeast portion in early period and northwest portion over weekend. Amounts light to locally moderate. Temperatures ranged from near normal to 7° below in north.

Dryland winter wheat 75% harvested. Irrigated 65% harvested. Spring wheat and barley 60% harvested. Yields poor to good. Field corn poor to excellent depending on locality about 90% used for silage. Peach, apple, pear prospects generally good. Some early peaches being harvested. Second cutting hay about 80% harvested. Livestock generally good, normal weight gains. Range conditions dry.

VIRGINIA: Slightly cooler for period, average 2° below normal. Extremes: 97 and 44°. Rainfall light to moderate, average about 0.75 in.

Fieldwork: 5.4 days suitable. Topsoil moisture short. More rain needed by end of period. Corn 76% normal. Harvest for grain started in southeast. Soybeans 79% normal. Early beans helped by rain. Peanuts 91% normal. Harvest ahead of normal for all types tobacco: Flue-cured 29%, fire-cured 12%, burley 7%, sun-cured 3%. Flue-cured sales underway. Hay and pasture conditions still poor. Rain kept condition stable for period. Corn acreage chopped to supplement short pasture. Hay yields short. Harvest of fruit, melons, and vegetables active.

WASHINGTON: West: Temperatures 1 to 2° below normal. Precipitation much above normal: From 0.2 in. to 1.60 in.

Corn behind. Pastures in excellent shape. Some hay caught in rain.

East: Temperatures 2 to 3° below normal. Precipitation near normal to 0.30 in. above normal.

Thundershowers and hail on 6th and 7th caused severe damage to wheat, peas, barley, some areas. Some apples damaged by hail. Pear harvest underway; peaches and prunes continue. Mint, early potatoes and third cutting alfalfa this week. Wheat harvest in full swing but hampered by showers.

WEST VIRGINIA: Temperatures below normal,

precipitation above normal southwest, less than half normal elsewhere. Extremes: 96 and 43°. Fieldwork: 4.9 days suitable. Soil moisture short to adequate. Oats harvested 72%, 1975 85%, average 81%; condition fair to good. Hay 2d cutting 37% complete, 1975 46%, average 44%. Tobacco mostly fair. Potato digging 21%, 1975 27%, average 22%; condition fair to good. Corn fair to good.

WISCONSIN: Temperatures 3° subnormal. Warm and humid midweek but sharply cooler weekend. Record low nighttime temperatures 15th. Showers and thunderstorms most days. Heaviest rainfall northwest and southeast. Strong winds and hail accompanied storms 13th south.

Oats 70% harvested, 1975 60%, normal 55%. Early oats in south good yields, northern oats poor. Straw length short. Quality and bushel weight of oats good. Spring wheat and barley yields down, but winter wheat better than last year. Corn crop improved since rains become more regular after mid-July. Corn for grain 30% in dough, 1975 35%, normal 25%. Early corn starting to dent. Considerable variation in corn, good on heavier soils but poor on sand. Second crop hay 75% harvested, 1975 70%, normal 50%. Yields light on second crop. Third crop growing good with recent moisture. New seedings look much better. Pastures show only slight recovery. Soybeans good where rain sufficient to set pods. Early tobacco being topped, late tobacco behind due to dry weather. Sweet corn maturing slowly, yields below normal on early harvest. Early apples being harvested, size reduced by lack of moisture. Soil moisture short.

WYOMING: Temperatures slightly below normal, departing 1 to 5° from seasonal normals. Maxima ranged from mid 80's to low 90's. Minima mostly 40's. Precipitation deficit 0.10 to 0.25 in. most places.

Major activities: grain harvest and haying. Barley 80% mature and 49% harvested. Winter wheat 86% harvested and spring wheat 27% harvested. Row crops in good condition. Corn 62% silked, potatoes 85% in bloom and 78% dry beans setting pods. Soil moisture fell. Topsoil short to adequate. Subsoil short to adequate. Alfalfa second cut 43% complete, third cutting in some areas.

World Weather and Crop Update

(July review with update as of August 16)

HIGHLIGHTS: July rains made a large USSR grain crop possible but continuing rains in August delayed threshing. Although drought eased in parts of Europe in July, dryness returned to much of Western Europe in August. Asia, the Philippines, the People's Republic of China (PRC), Indonesia, Australia, and Sri Lanka suffered moisture shortages. Only the Philippines and the PRC showed much improvement in August. India's summer monsoon lagged last year's performance, but still generated some flooding in Pakistan as well as India.

August rains perked up crop prospects in Argentina after many weeks of relatively dry weather. Although frosts threatened coffee in Brazil up to mid-August, limited damage occurred. Timely July rains enhanced Canada's crop outlook. August showers halted deteriorating crop conditions in much of Manitoba. Cool, wet weather continued to delay crop development in much of the USSR. Harvesting lagged and some sprouting of small grains occurred, particularly in the Russian Republic (RSFSR) and eastern Ukraine. Warmer, drier weather is needed to advance corn, potatoes, sugarbeets, sunflowers and other crops. Soil moisture remained excellent for soil preparation and sowing winter grains except in the Crimea and small areas of the southern Ukraine and North Caucasus region. Spotty rainfall patterns left the spring wheat region with mixed but primarily good condition. Early planted wheat in drier spots suffered. Cool weather delayed maturity and increased frost risk. In Eastern Europe crops fared well in southern areas but tended to deteriorate northward. Periods of drought inflicted crop damage in East Germany, Poland, Czechoslovakia, and parts of the Danube Basin in the Balkan countries. Early August rains offered relief over eastern Europe but were too sparse to aid East Germany. A brief period of rain in July tempered West

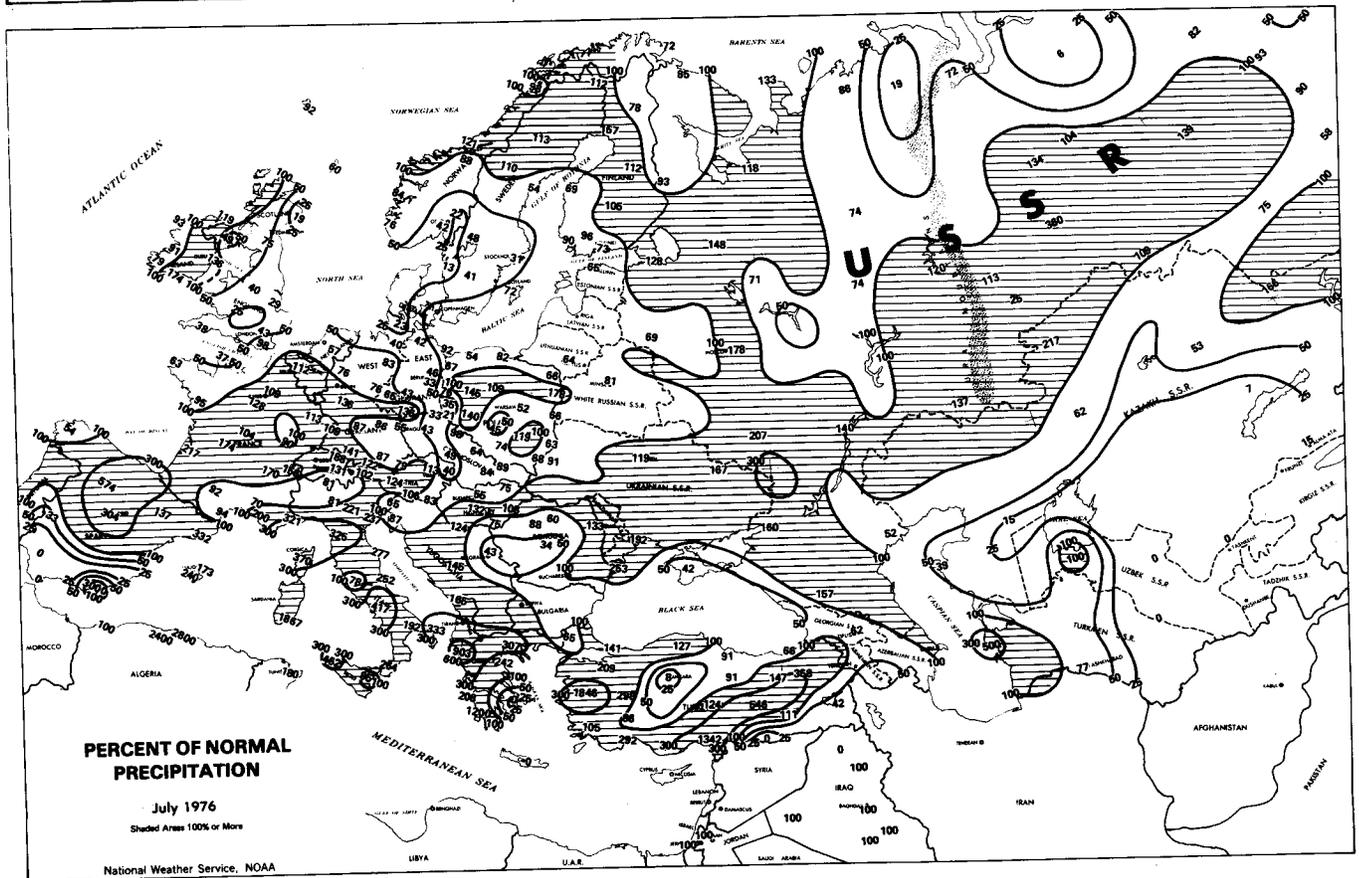
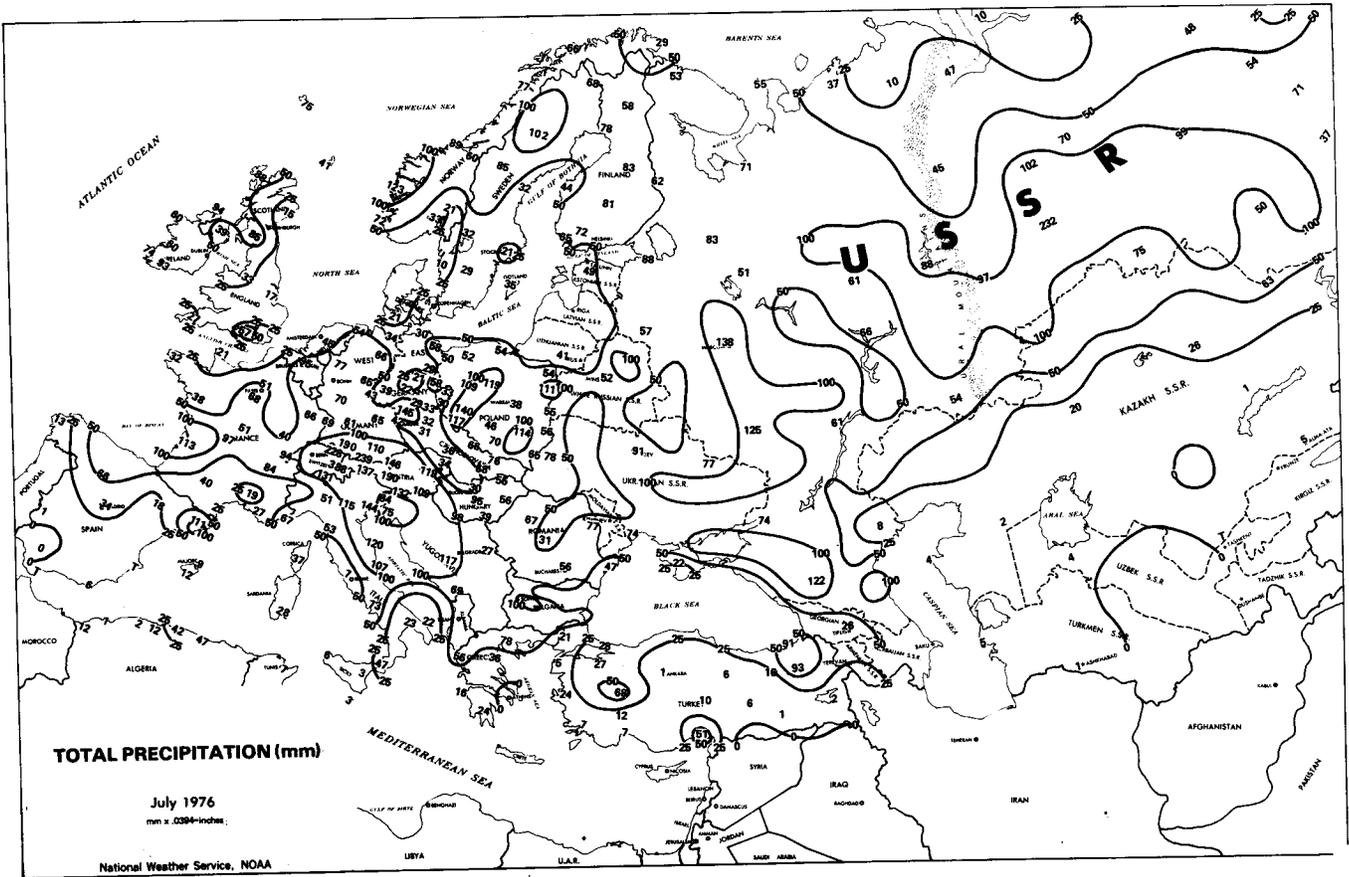
European drought, but dry weather returned to England, most of France, the Netherlands, southern Scandinavia, and parts of adjacent countries. August rainfall helped in some central Europe locations, especially West Germany, Switzerland, and Italy.

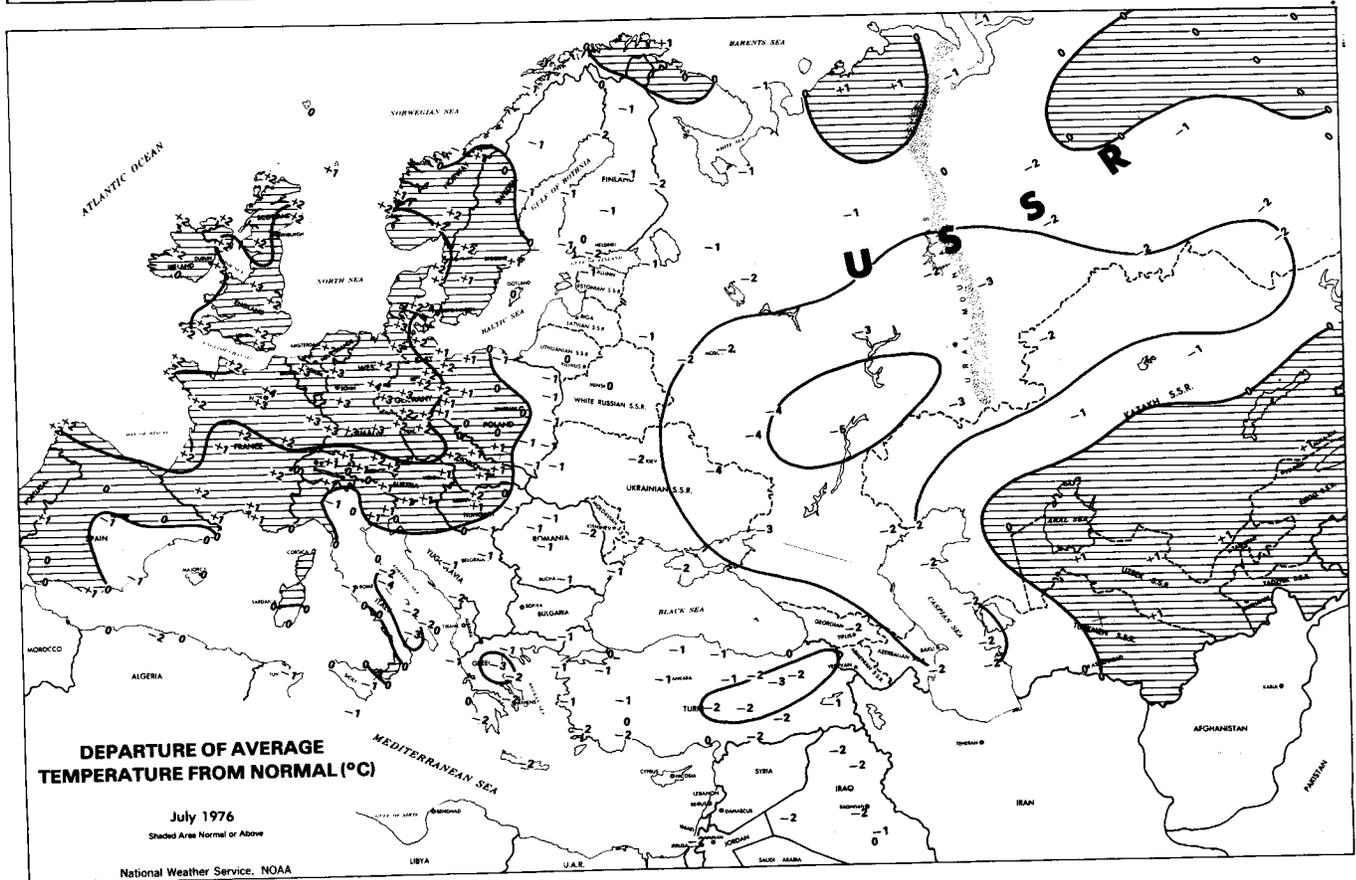
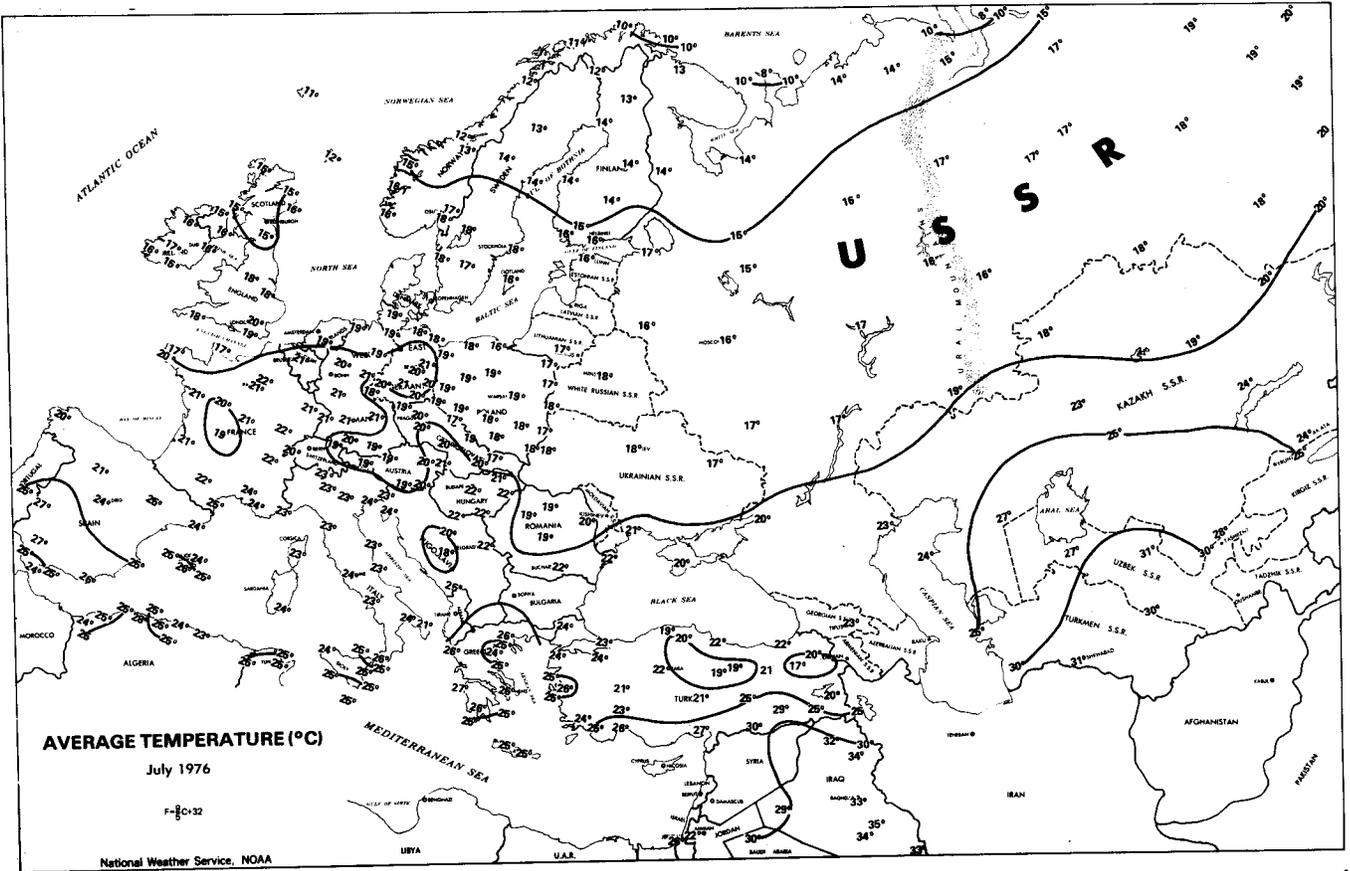
July rainfall provided the answer for crops in Canada's Alberta and Saskatchewan Provinces, but crop prospects in southern Manitoba deteriorated from the prolonged dry spell. August brought some relief to Manitoba but too late for bumper yields of spring grains and other early maturing crops.

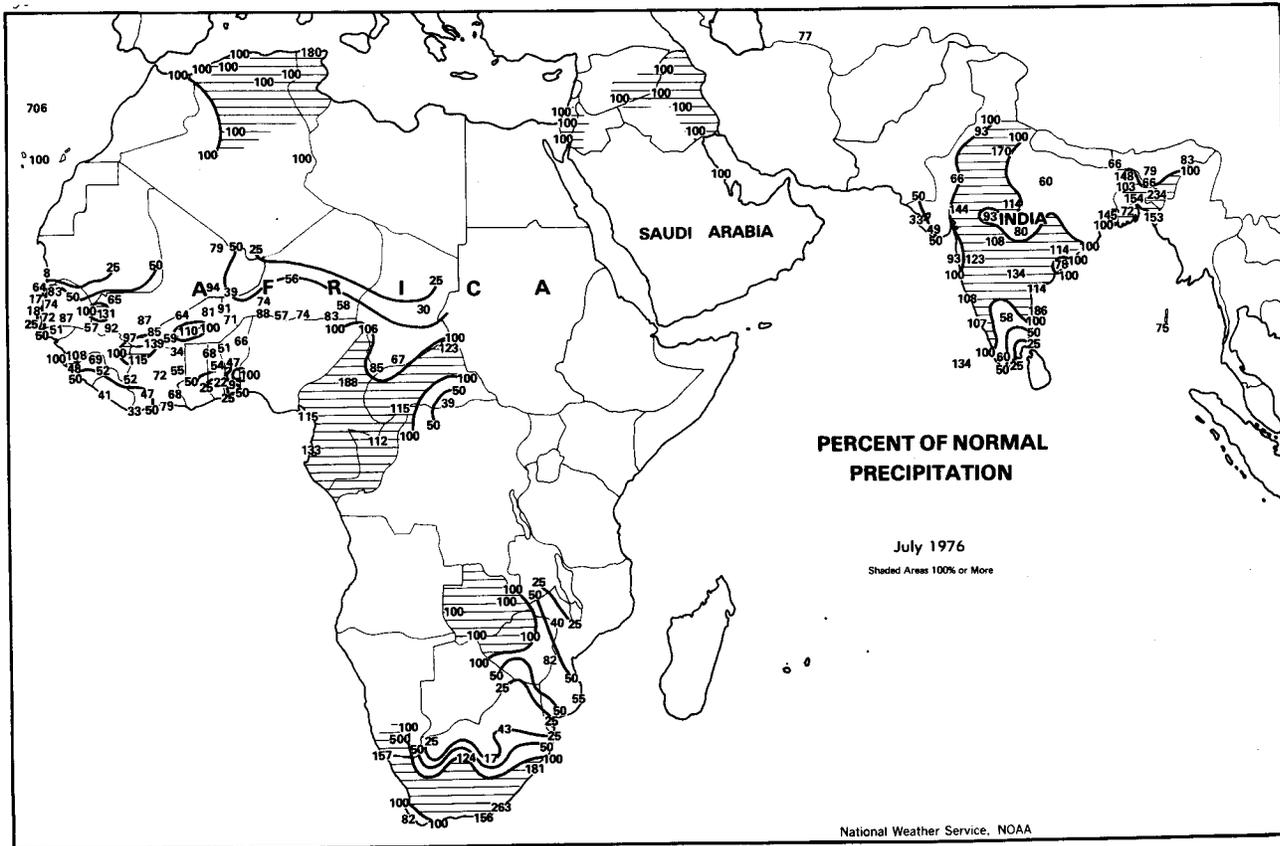
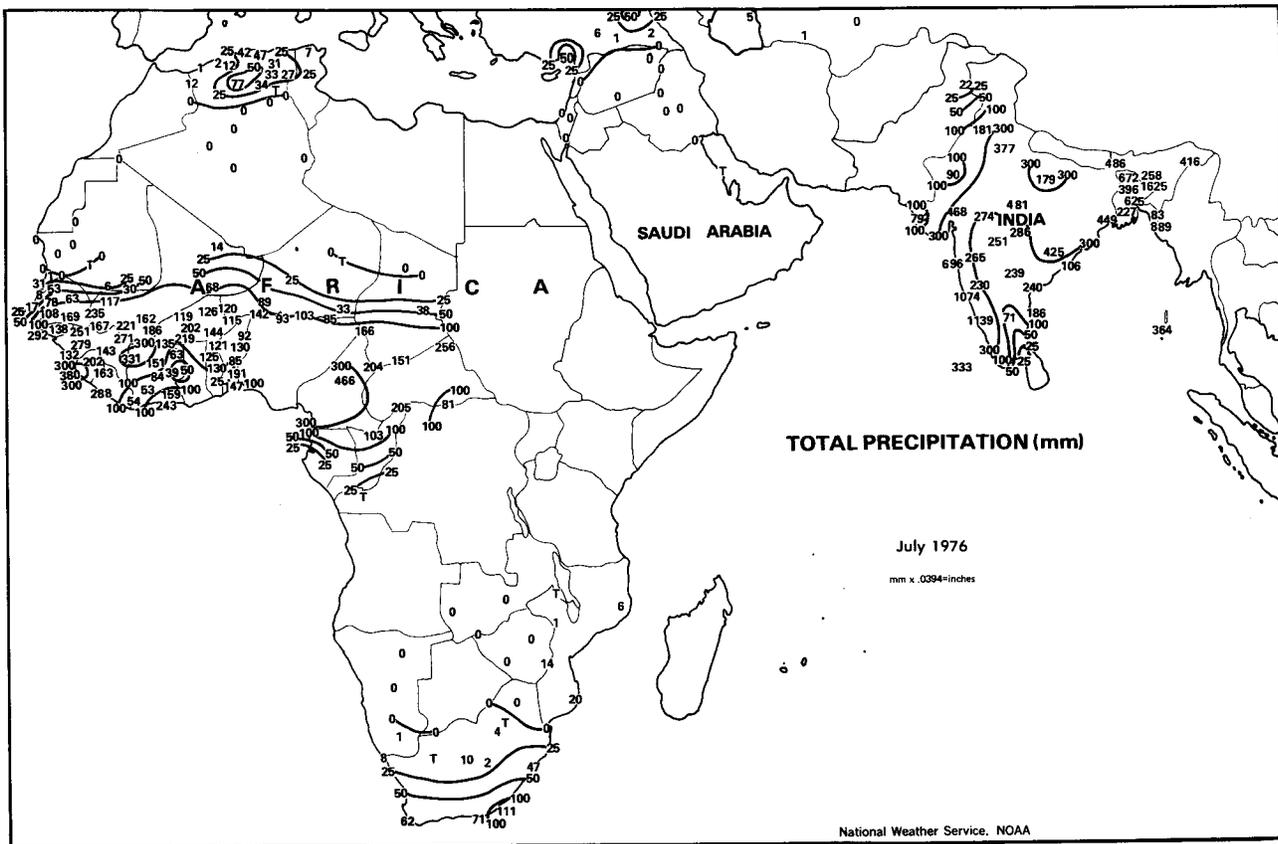
In most of the PRC, July temperatures and precipitation fell below normal. Relatively cool weather benefited crops (since the PRC tends to be too hot in July), but moisture shortages stressed crops in some places, particularly central Manchuria. Good August rains favored much of the North China Plain, while little moisture fell in important areas of Manchuria.

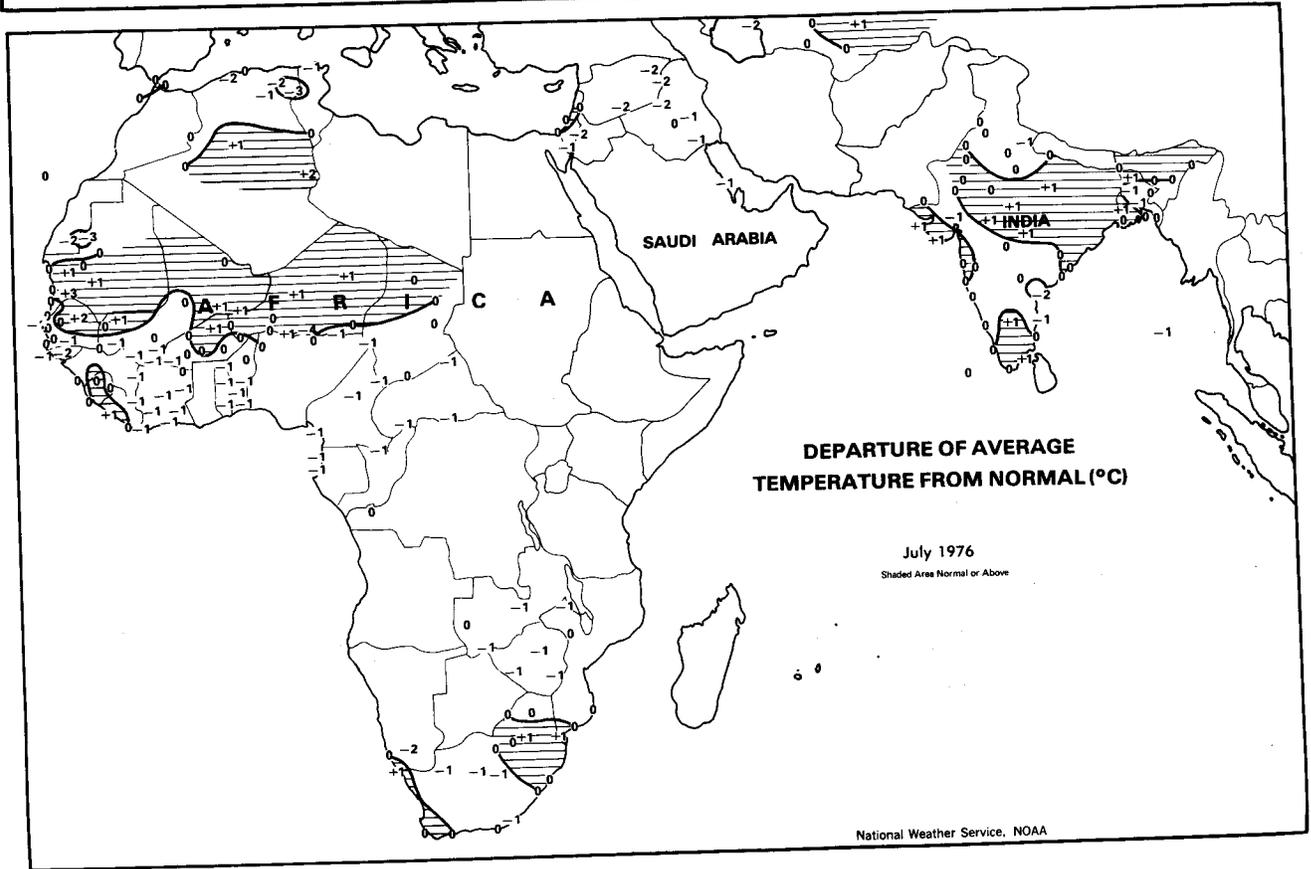
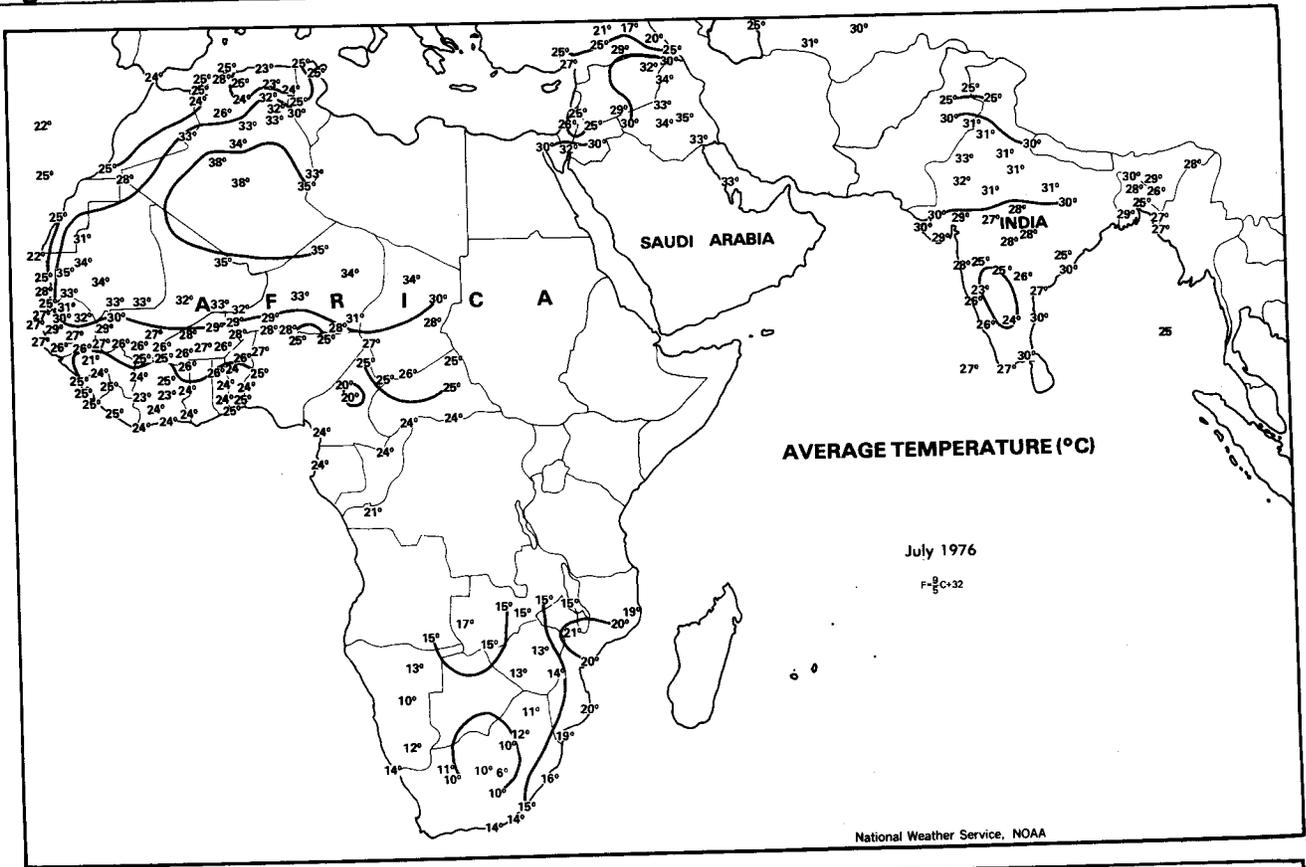
India and Pakistan suffered some flooding, the price of effective monsoon rains. The monsoon performed reasonably well to date, but not as effectively as last year. Break periods in the monsoon caused more stress this season. Sri Lanka and portions of southern India suffered from continued lack of rain. The Java area of Indonesia also remained stressed from drought. Rice took the brunt of the dry weather in Asia. Australia moved into the eighth month of drought. Spotty rains eased stress in Western Australia and in parts of Queensland, New South Wales, and Victoria. South Australia endured another period of little or no rain, delayed planting, and hardpressed animals and vegetation.

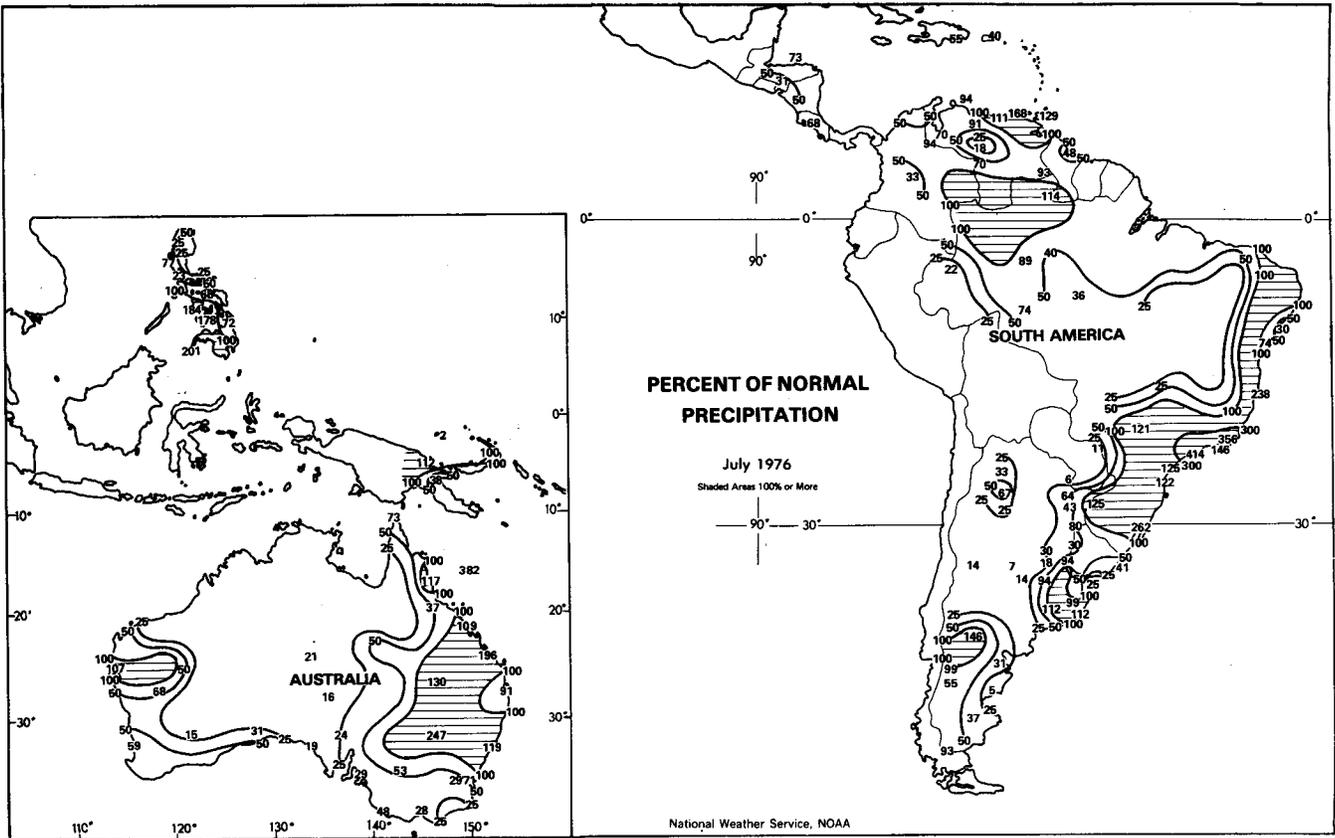
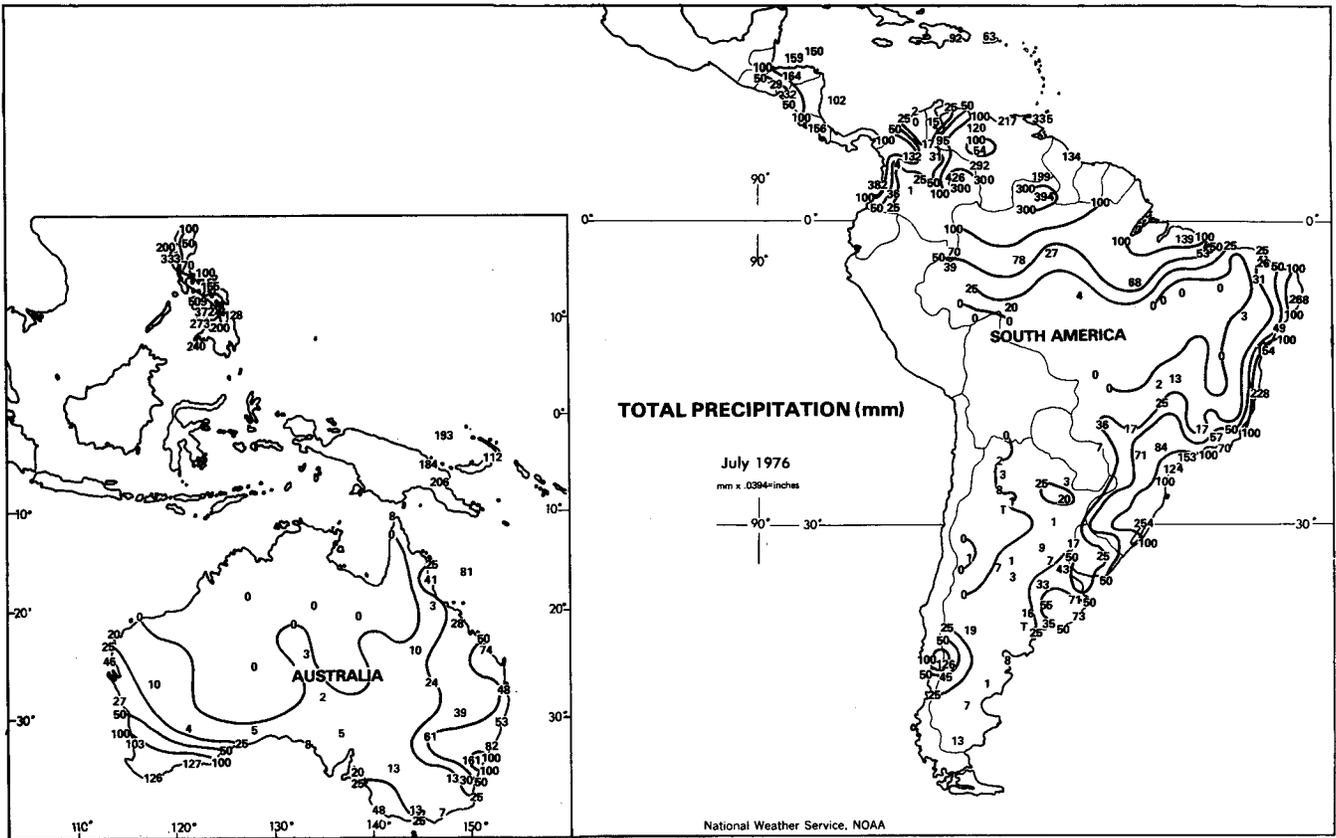
August rains snapped Argentina's dry spell and revived planting activity. Periodic cold spells set back plant growth and development, and occasionally extended into Brazil to threaten coffee. Interior areas of northeast Brazil, Colombia, and many adjacent areas remained dry.

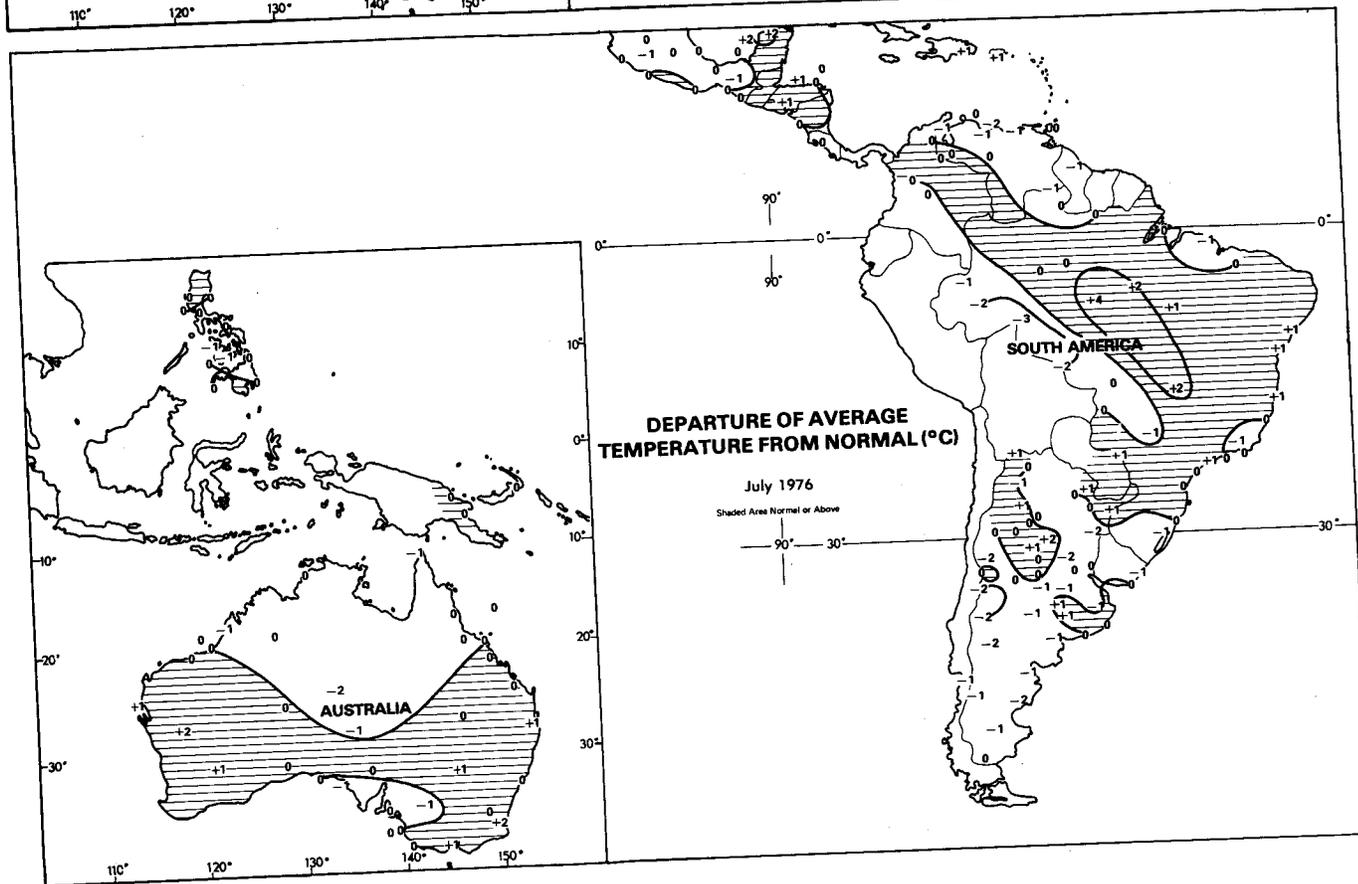
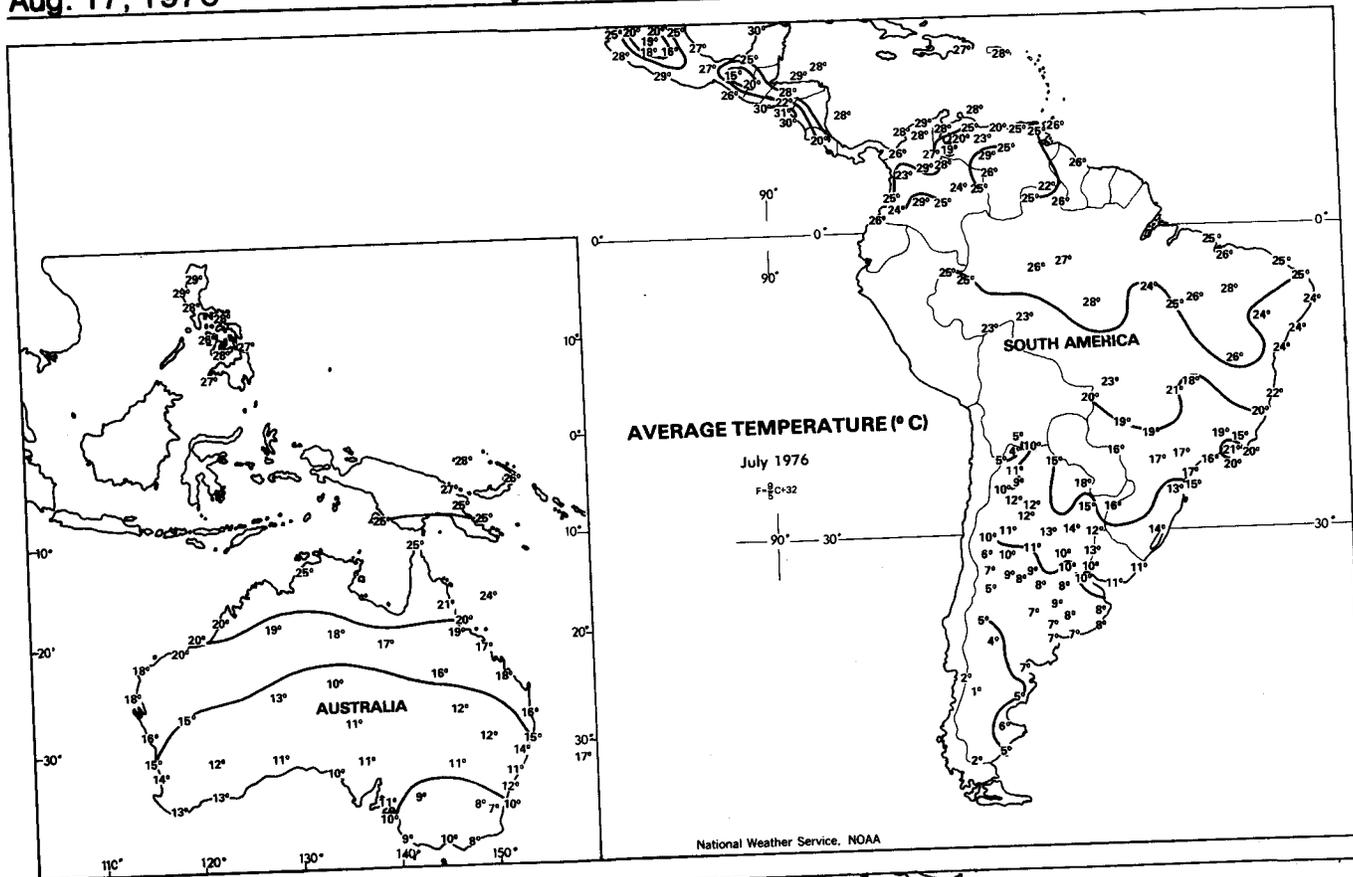




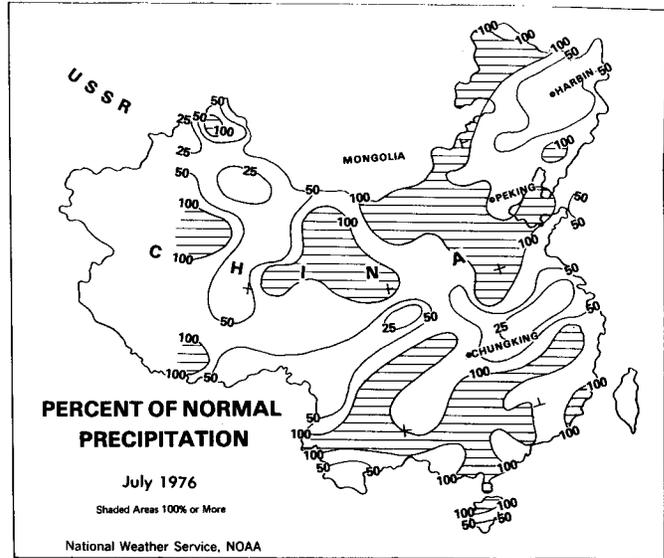
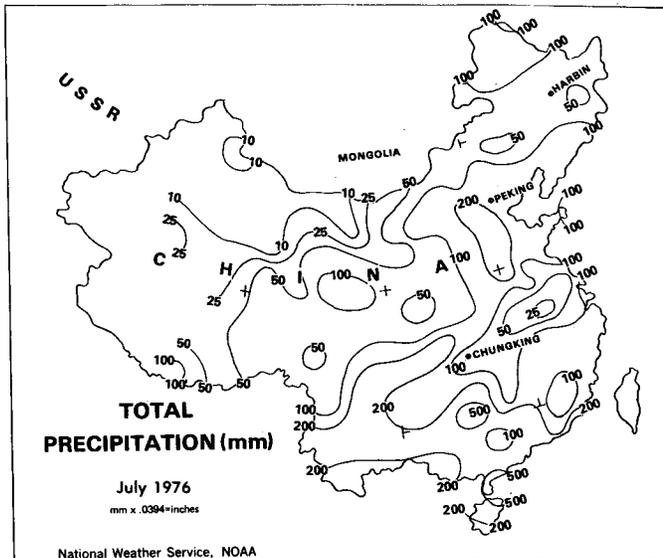








China Precipitation



Dryness Plagues Record Corn Crop

Hot, dry summer weather took some toll on the Nation's 1976 agricultural prospects during July, however, most major commodities are still heading for top notch production levels.

The Department of Agriculture's Crop Reporting Board, in its summary of farming conditions and potentials as of August 1, expects more feed grains than a year ago, led by a record large corn crop; and also a total wheat harvest only slightly short of the record set in 1975.

The latest evaluation of 1976 output possibilities notes that the corn crop is likely to be nearly 6.2 billion bushels, 6 percent less than indicated a month ago but still 7 percent better than in 1975 and the largest harvest recorded. The average corn yield is put at about 86 bushels per acre, a decrease of 5 bushels from the July projection and 0.5 bushel short of a year ago.

The hot, dry July weather over much of the Corn Belt, particularly the western portion of that area, sliced into production prospects. Substantial decreases in yield during the past month showed up in estimates for Illinois, Wisconsin, and all major producing States in the Western Corn Belt, except Kansas.

Production of the four feed grains--corn, oats, barley, and sorghum--is likely to be a record 193 million metric tons, 5 percent above 1975 and 2 percent over the record 1971 outturn. The output level is led by corn's record setting pace coupled with an expected sorghum harvest of 789 million bushels, up 4 percent from a year ago. These crops will more than offset an expected 16 percent decline for oats and 11 percent downturn in barley compared with 1975.

Although barley and oats slipped from a year ago, prospects are better than last month as harvested yields turned out better than expected in the western North Central States, particularly

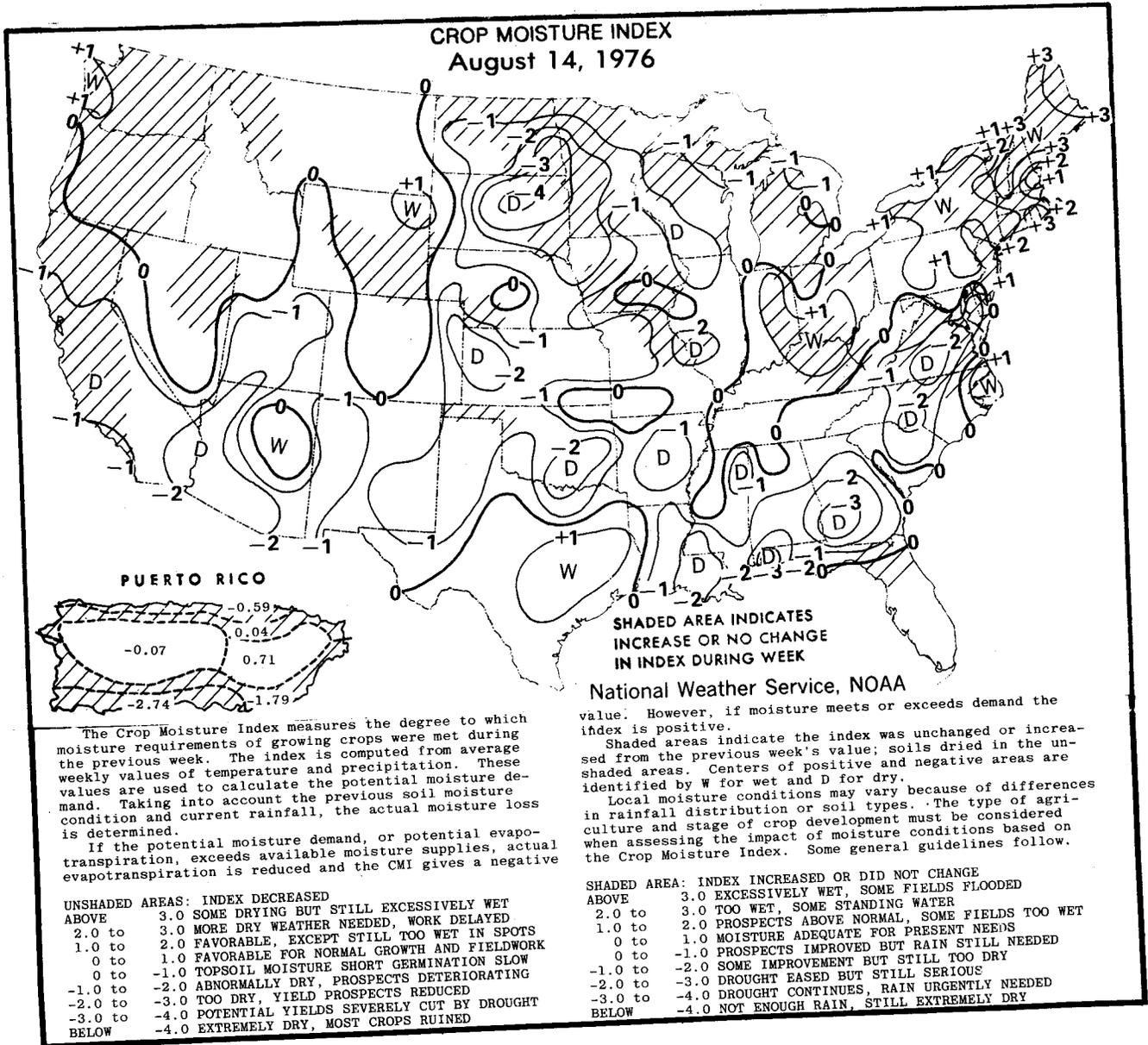
the drought areas of North and South Dakota, and Minnesota.

The complete wheat crop--winter, durum, and other spring--is aiming at almost 2.1 billion bushels, a 3 percent improvement from a month ago, and only 2 percent short of the record 1975 level. During July, durum prospects gained 4 percent, which may mean a harvest of 134 million bushels, 8 percent ahead of 1975. Other spring wheat improved 10 percent in the past month and is likely to produce 420 million bushels, 17 percent better than last season. The winter crop inched ahead in July and the outlook now calls for 1.5 billion bushels, just 7 percent short of 1975's harvest.

The first forecast of the season for soybeans indicated a crop of 1.3 billion bushels, a 12 percent dip from 1975, but potentially the third largest output on the books. Yield prospects at the start of August were for 27.2 bushels per acre, 1.2 below last year. The Crop Reporting Board now estimates that soybeans are planted on 50.3 million acres, up 3 percent from their earlier total. This estimate reflects additional double cropping behind harvested small grains and some replanting of abandoned cotton acreage. The 50.3 million soybean acres are still down 8 percent from last year.

This year's cotton crop is expected to be 10.7 million bales, a substantial 29 percent jump from a season ago. Producers planted nearly 12 million acres, an increase of 24 percent, and yields are running 466 pounds per acre, compared with 453 a year ago.

Production of sugarbeets in 1976 is forecast at 28.5 million tons, 4 percent below the 1975 record crop. Sugarcane prospects, at 28.6 million tons, show a slight improvement from last season and will be a record.





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