

WEEKLY WEATHER AND CROP BULLETIN

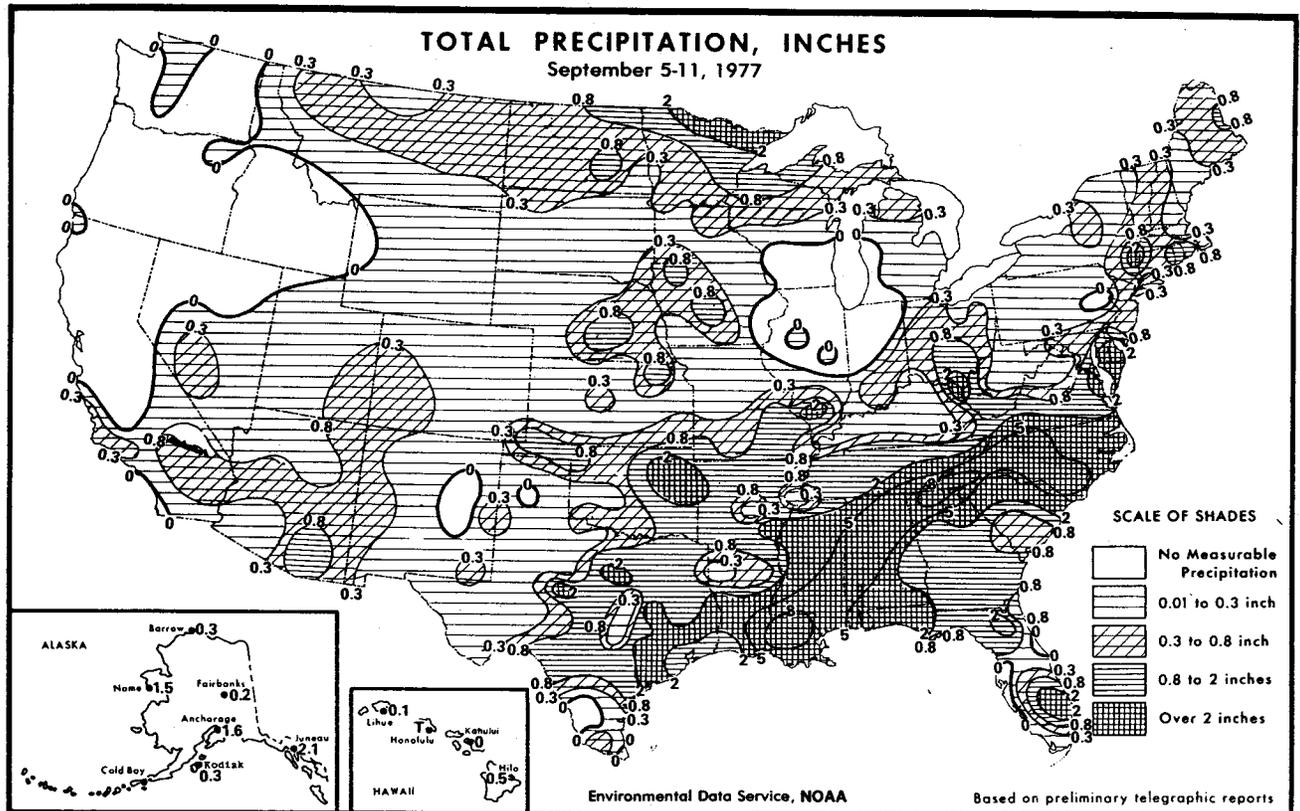
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National Weather Summary

Sept. 5 - 11

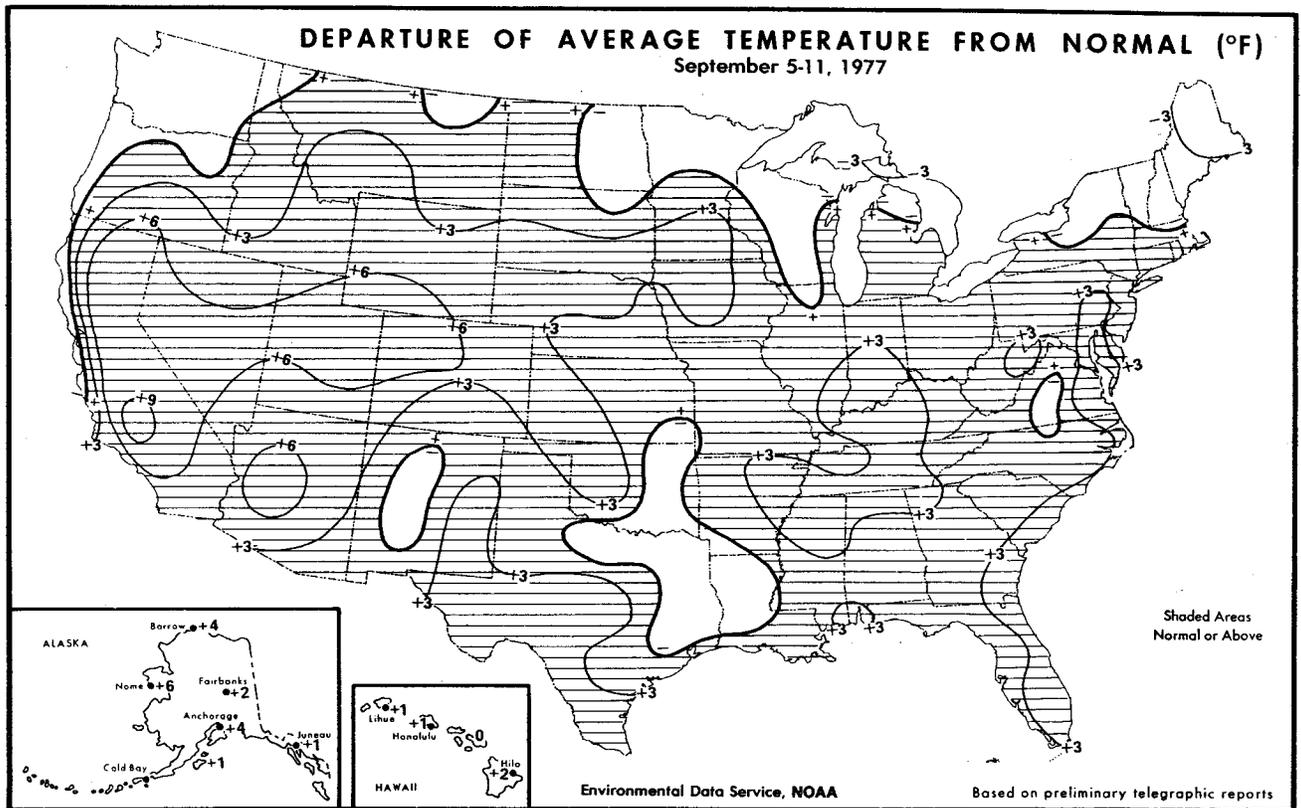
HIGHLIGHTS: The week's heaviest rainfall was triggered by Hurricane Babe and inundated an area stretching from the central Gulf Coast northeastward to North Carolina. Amounts of 5 to 8 in. were common. Most of the West Coast, Pacific Northwest, and northern Plateau Region received little or no rain.

Temperatures averaged very warm from southern Oregon southward to the Mexican border and westward to western Colorado, as high as 10° above normal at some points in southern California. Most of the remainder of the Country was at or slightly above expected readings save a small portion of the upper South which showed a 5° leap.

The south central section of the country was hit by much rain on Monday, caused mainly by Hurricane Babe moving over Louisiana. As she blew ashore, Babe declined to a tropical storm and drenched southeastern Louisiana, southern Mississippi, and extreme northwestern Florida.

Other rain fell when early thunderstorms clustered over the lower Great Lakes and parts of New Mexico. As the day progressed, storms formed from western Arkansas through the Ohio Valley and southern Appalachians to the middle Atlantic States. Late evening rain, locally heavy, was triggered by a cold front running from Texas to Maine. Monday tornadoes were sighted near Pensacola, Fla., in south central Missouri, and southeastern Louisiana.

The remnants of Babe, which diminished further to a low pressure center on Tuesday, completely soaked several areas in the South. Southern Louisiana was deluged by several inches while parts of Mississippi had 4 to 6 in. Alabama and Florida later felt the effects when more than 2 inches hit some points. Other precipitation included 2.38 in. at Fort Worth and 2.70 in. at Dover, Del. Scattered storms dotted a section from the Gulf Coast to Tennessee, middle Mississippi Valley, upper Great Lakes, northern Plains, and the Atlantic Coast from



Florida to New Jersey. Five tornadoes were spotted in Mississippi and Alabama.

The skies continued to unleash a downpour over northern Alabama on Wednesday. Flash flooding followed more than 5 inches in the Birmingham area. By afternoon the heavy rain marched northward to eastern Tennessee and the Carolinas. Western South Carolina and locales in North Carolina measured up to 8 inches through the evening while Chattanooga counted 6.62 in., its largest 24-hour total since 1886. Other thunderstorms clipped parts of Nebraska and South Dakota and the Texas Gulf Coast. Eleven tornadoes were counted--6 in Texas, 2 each in South Carolina and Georgia, and 1 in Illinois.

Record high temperatures baked the Southwest--Bakersfield, Calif., showed 110° and Phoenix, 109°.

The remainder of Hurricane Babe was losing its punch quickly on Thursday after setting its sights on northern North Carolina and extreme southeastern Virginia. Flash flooding and mud slides were the results of her early fury in far western Carolinas. A few showers dampened widely separated regions in the Nation. Some hail hit Dickinson in southwestern North Dakota and 2 inches of snow whitened, appropriately enough, East Glacier in northwestern Montana. A front extending from northern Minnesota through Colorado touched off a series of evening thunderstorms containing some hail which pelted Bemidji, Minn., and spawned 2 tornadoes.

On Friday severe thunderstorms carrying hail and producing lowland flooding hit five counties in eastern Texas. These storms later reached across Louisiana into Arkansas and Mississippi; a tornado touched down near Houston. Another line of thunderstorms gathered over North Carolina and Virginia while other brought rain to southern Florida, southeastern Kansas, and western Oklahoma. The heaviest afternoon precipitation gave Fort Polk, La., 2.33 in.

A cold front reaching from western Quebec to West Texas carried rain eastward. By evening rain was falling over the middle Atlantic States, Florida, upper Mississippi Valley, Colorado, portions of the southern Plateau Region, and from the western Carolinas through northern Mississippi.

Early Saturday precipitation was restricted to the Atlantic Coast from New Jersey to New England, Louisiana, and central Arizona; Baton Rouge reported about 3 inches of rain. Afternoon thunderstorms developed from eastern Texas to the Mississippi coastal zone. Another tornado whirled down near Houston. Rain was nearing an end in New England after drenching Providence with 1.14 in.

Saturday evening showers and thunderstorms covered the upper Northeast, from Texas to southwestern Virginia, portions of the Plateau Region's lower half, and southern California. The heavy rains in the Southwest set off flooding in Arizona and Nevada. At day's end, showers remained in a section from southeastern California and Nevada to West Texas, over the Dakotas and western Minnesota, and scattered along the Atlantic Coast from Florida to New Jersey.

Sunday morning showers dampened the Oklahoma/Texas Panhandles as well as the southern Plateau Region, upper Mississippi Valley, southern Appalachians, and northern New England. Later in the day, thunderstorms built up over the eastern portions of Oklahoma and Kansas and the western sections of Missouri and Arkansas; Tulsa had 1.85 in. Storms also made their mark in the Southwest where flooding occurred in some areas. By dusk severe thunderstorms opened up over the central Plains and upper Mississippi Valley; large hail and heavy rain fell. More than 3 inches splashed down on parts of south central Nebraska.

Temperatures were generally cool over much of the Nation.

National Agricultural Summary

Sept. 5 - 11

HIGHLIGHTS: Rainy weather spawned by Hurricane Babe dumped heavy precipitation across the southern States lodging some rice fields ready for harvest. Drier weather returned to the Corn Belt providing good conditions for the initial phase of the corn harvest. Winter wheat seedbed preparation and planting became widespread extending across the Great Plains' important production area and most other sections except the Corn Belt and the Northeast. Corn harvest began in nearly all States although in some areas only high moisture corn was harvested. Cotton opened rapidly and, in spite of rains, farmers were able to pick some fields. Soybeans developed earlier than normal, but slower than last year's pace. Only a few soybeans were harvested. Sorghum harvest moved into Kansas. Soil moisture rated adequate, and in some areas surplus. The West and parts of the South reported shortages. Pastures responded to the changed moisture situation, but remained poor to fair in the West and South.

SMALL GRAINS: Damp conditions continued to plague small grain farmers along the Canadian border who were trying to harvest the last of the 1977 crop. North Dakota farmers had sprouting problems with 15% of the hard red spring wheat to harvest along with 30% of the durum and 5% of the oats and barley. Montana farmers must combine 15% of the spring wheat; growers in the Pacific Northwest were almost finished.

Seedings on the Great Plains were about on schedule with last year but slower than normal. South Dakota producers seeded 35%, Nebraska 15%, Kansas 5%, Texas 20%, Colorado 46%, and Oklahoma growers were just starting. Further east in the north central States, farmers plowed land for planting but did not begin seeding the crop. Soils were too dry in some of the Mountain States and the Pacific Northwest to plant fall grains while farmers waited for additional moisture.

CORN: Harvest operations continued throughout the Nation although in some States it was limited to high moisture corn for livestock feeding. Among the eastern north central States, Wisconsin's crop was 90% mature, Illinois 92%, Indiana 55%, and Ohio 35%. Maturity was much earlier in all these States except Ohio which lagged last year but not the average. Illinois farmers harvested 4% of the crop compared with 1% last year and average.

In the western north central States 70% of Minnesota's crop was mature, 66% in Iowa and Missouri, 60% in Nebraska, and about 50% in Kansas and South Dakota. Maturity surpassed both last year and the average in all these States. Harvest reached 10% in Kansas, equal to last year and double the average; 15% in Missouri compared with 10% in 1976 and 5% average.

Among the southern States harvest ranged from nearly complete in Florida to 33% in Texas; 10% in Kentucky, 16% in Tennessee, 25% in Mississippi, and 54% in Louisiana. In the drought-damaged Southeast, harvest ranged from 42 to 63% complete; about 10 points ahead of 1976 but far ahead of normal.

SOYBEANS: Soybeans rated fair to good in the major production areas; the worst soybeans were in the Southeast and these rated fair. In the north central States nearly half the crop turned color ranging from 70 to 77% in Indiana and Illinois, 45 to 55% in Wisconsin, Michigan, and

Nebraska but only 32 to 44% in Missouri and Iowa. Development lagged the 1976 rate. Leaf shedding advanced quickly ranging from 15 to 40% in eastern areas and 10 to 76% in western areas of the north central States. Harvest started in North Dakota. Soybeans in the south central States yellowed, ranging from 24 to 44%, and leaf drop stood at 15%. A few Arkansas soybeans were harvested.

COTTON: Bolls opened rapidly while harvest gradually expanded. Opened bolls reached near 50% in the South Atlantic States and ranged from 5% in Oklahoma, 37% in Louisiana, near 50% in Arkansas, Alabama and Tennessee, and 83% in Mississippi. In many States, this was 4 to 10 times the percent open last year at this time. Harvest advanced to 15% in Texas, double last year. In other States harvest was just getting started and ranged up to 7% complete. In California high humidity and budworms damaged opening bolls.

OTHER CROPS: Grain sorghum harvest advanced to 64% complete in Texas, 18% in Missouri, and 5% in Kansas. This pace was ahead of 1976 and the average. About 45% of Nebraska's sorghum was ripe, equalling last year but more than double the average. Oklahoma's crop was 38% mature, about the same as 1976 and the average.

Rains and winds lodged some of Arkansas' rice as harvest advanced to 19%, far ahead of 1976's 4%. The Texas harvest was almost complete except for some record cuttings. Louisiana's combining reached 72% slightly behind last year's 75% and the 73% average. Mississippi harvest advanced to 23% well ahead of the 2% average. California growers drained fields in preparation for harvest.

Maine potato growers prepared to start the 1977 harvest scheduled for mid-September.

Peanut harvest lagged in Georgia at only 6% dug compared with 24% in 1976 and 28% average. Texas harvest was on schedule at 16%. Alabama's crop was good, but harvest progress was slow.

FRUITS AND NUTS: The peach harvest was almost complete. Apple harvest continued throughout the Nation. Grape harvest advanced into northern areas; New York producers picked wine varieties and Concords. California growers picked grapes destined for table use, raisins, and wines. A wide selection of other California fruits moved to market. Florida citrus groves rated excellent putting on new growth from adequate moisture in all areas. Growers harvested a few Florida grapefruit. California growers harvested some lemons and grapefruit; navels sized slowly.

VEGETABLES: Northern vegetable production areas shipped onions, sweet corn, snap beans, tomatoes, cucumbers, and cabbage to market. Florida growers planted and cultivated fall crops, resetting some fields washed by heavy rain. Producers picked squash and okra; sweet corn should begin soon. California and Texas farmers sent a wide array of vegetables to market. Texas growers prepared seedbeds and planted fall vegetable crops.

PASTURES AND LIVESTOCK: Adequate soil moisture in most of the Nation's eastern half improved grasslands although the northern Plains and the Southeast still rated only poor to fair while other sections rated good. In the West most ranges rated poor to fair although pastures at higher elevations improved. Cattlemen took herds off summer ranges earlier than usual.

Temperature and Precipitation Data for the Week Ending Midnight, L.st., Sept. 11, 1977

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 . . .	76	0	5.1	+ 4.2	La. Baton Rouge . . .	79	0	8.5	+ 7.5	Youngstown . . .	67	+ 2	T	-.6
Mobile . . .	82	+ 3	2.8	+ 1.1	Lake Charles . . .	80	0	1.2	+ .2	OKLA. Okla. City . . .	78	+ 3	T	-.8
Montgomery . . .	80	+ 2	1.2	+ .1	New Orleans . . .	80	0	6.5	+ 5.1	Tulsa . . .	74	- 2	3.0	+ 2.1
ALASKA. Anchorage . . .	55	+ 4	1.6	+ 1.0	Shreveport . . .	78	- 1	.2	-.5	OREG. Astoria . . .	57	- 2	0	-.5
Barrow . . .	37	+ 4	.3	+ .2	MAINE. Caribou . . .	53	- 4	.6	-.2	Burns . . .	65	+ 4	0	-.1
Fairbanks . . .	50	+ 2	.2	-.1	Portland . . .	59	- 2	.1	-.6	Medford . . .	70	+ 3	0	-.1
Juneau . . .	52	+ 1	2.1	+ 1.6	MD. Baltimore . . .	74	+ 3	.5	-.3	Pendleton . . .	63	- 3	0	-.1
Kodiak . . .	53	+ 1	.3	-.1	MASS. Boston . . .	67	0	.2	-.6	Portland . . .	63	- 1	0	-.3
Nome . . .	51	+ 6	1.5	+ .8	Chatham . . .	65	-.4	-.4	-.4	Salem . . .	61	- 3	0	-.2
ARIZ. Flagstaff . . .	66	+ 6	.4	0	MICH. Alpena . . .	57	- 1	.3	-.5	PA. Allentown . . .	70	+ 3	0	-.9
Phoenix . . .	92	+ 6	T	-.2	Detroit . . .	68	+ 2	.1	-.4	Erie . . .	65	+ 2	.3	-.5
Tucson . . .	84	+ 2	1.3	+ .9	Flint . . .	65	T	T	-.6	Harrisburg . . .	71	+ 2	T	-.6
Winslow . . .	76	+ 4	.2	0	Grand Rapids . . .	59	0	T	-.6	Philadelphia . . .	72	+ 2	.7	-.1
Yuma . . .	93	+ 4	T	-.1	Houghton Lake . . .	64	0	T	-.6	Pittsburgh . . .	67	+ 1	T	-.6
ARK. Fort Smith . . .	78	+ 2	2.0	+ 1.2	Lansing . . .	58	- 1	.6	-.2	Scranton . . .	66	+ 1	T	-.7
Little Rock . . .	78	+ 2	.1	-.7	Marquette . . .	58	- 0	.6	-.2	R.I. Providence . . .	67	+ 1	1.3	+ .5
CALIF. Bakersfield . . .	88	+ 10	0	0	Muskegon . . .	64	0	0	-.8	S.C. Charleston . . .	81	+ 4	.7	-.6
Eureka . . .	56	- 1	T	-.1	S. Ste. Marie . . .	54	- 3	.4	-.5	Columbia . . .	77	0	.5	-.6
Fresno . . .	82	+ 6	0	0	MINN. Duluth . . .	56	- 1	.9	+ .1	Greenville . . .	76	+ 2	4.5	+ 3.6
Los Angeles . . .	76	+ 3	0	-.1	Internatl Falls . . .	54	- 1	3.0	+ 2.2	S.D. Aberdeen . . .	64	- 1	T	-.4
Red Bluff . . .	84	+ 7	0	-.1	Minneapolis . . .	65	+ 3	.8	+ .1	Huron . . .	67	+ 4	.1	-.3
San Diego . . .	75	+ 4	0	0	Rochester . . .	64	+ 2	.1	-.7	Rapid City . . .	66	+ 3	.1	-.2
San Francisco . . .	63	- 1	0	0	St. Cloud . . .	62	+ 2	.2	-.5	Sioux Falls . . .	67	+ 4	.3	-.4
Stockton . . .	81	+ 7	0	0	MISS. Jackson . . .	79	+ 1	2.3	+ 1.5	TENN. Chattanooga . . .	79	+ 5	6.6	+ 5.7
COLO. Denver . . .	71	+ 6	.1	-.2	Meridian . . .	79	+ 2	5.0	+ 4.2	Knoxville . . .	76	+ 2	2.7	+ 2.0
Grand Junction . . .	77	+ 7	.4	+ .2	MO. Columbia . . .	72	+ 1	T	- 1.0	Memphis . . .	81	+ 5	1	-.7
Pueblo . . .	70	+ 1	T	-.2	Kansas City . . .	71	0	.2	-.8	Nashville . . .	76	+ 2	1.3	+ .5
CONN. Bridgeport . . .	71	+ 2	.2	-.5	St. Louis . . .	73	+ 1	.6	-.1	TEX. Abilene . . .	81	+ 3	.1	-.4
Hartford . . .	67	+ 2	.3	-.6	Springfield . . .	73	+ 1	.5	-.5	Amarillo . . .	73	+ 1	0	-.5
D.C. Washington . . .	75	+ 2	.1	-.7	MONT. Billings . . .	64	+ 3	.1	-.3	Austin . . .	84	+ 3	.1	-.7
FLA. Apalachicola . . .	82	+ 2	.6	-.7	Glasgow . . .	59	- 1	.4	-.2	Beaumont . . .	83	+ 2	1.3	0
Daytona Beach . . .	83	+ 3	0	- 1.7	Great Falls . . .	60	0	.4	+ .1	Brownsville . . .	86	+ 3	0	- 1.2
Ft. Myers . . .	84	+ 2	T	- 2.1	Havre . . .	62	+ 2	.1	-.2	Corpus Christi . . .	87	+ 5	.2	- 1.0
Jacksonville . . .	83	+ 3	.4	- 1.6	Helena . . .	63	+ 5	T	-.2	Dallas . . .	84	+ 3	.9	-.2
Key West . . .	84	0	.2	- 1.5	Kalispell . . .	56	0	.4	-.1	Del Rio . . .	75	0	.9	-.2
Lakeland . . .	84	+ 3	.7	-.9	Miles City . . .	64	+ 1	.7	+ .4	El Paso . . .	86	0	.2	-.1
Miami . . .	85	+ 3	.3	- 1.7	Missoula . . .	59	+ 1	.1	-.2	Fort Worth . . .	80	0	1.7	+ 1.0
Orlando . . .	83	+ 2	.2	- 1.6	NEBR. Grand Island . . .	69	+ 2	1.0	+ .4	Galveston . . .	81	0	1.5	+ .1
Tallahassee . . .	81	+ 1	1.4	-.3	Lincoln . . .	69	+ 1	.4	-.4	Houston . . .	80	- 1	1.7	+ .6
Tampa . . .	84	+ 2	0	- 1.7	Norfolk . . .	70	+ 4	.5	-.1	Lubbock . . .	75	+ 2	T	-.5
W. Palm Beach . . .	85	+ 3	2.7	+ .5	N. Platte . . .	67	+ 2	.3	-.2	Midland . . .	80	+ 3	.1	-.3
GA. Atlanta . . .	78	+ 2	.6	-.2	Omaha . . .	69	+ 2	.1	-.7	San Angelo . . .	82	+ 3	.3	-.3
Augusta . . .	80	+ 2	1.5	+ .7	Valentine . . .	68	+ 4	T	-.4	San Antonio . . .	83	+ 2	.9	0
Macon . . .	81	+ 3	1.0	-.4	NEV. Ely . . .	66	+ 7	.1	0	Victoria . . .	84	+ 2	1.0	-.1
Savannah . . .	78	+ 2	.5	- 1.2	Las Vegas . . .	88	+ 5	.2	+ .1	Waco . . .	84	+ 3	.2	-.5
HAWAII. Hilo . . .	82	+ 1	T	-.1	Reno . . .	68	+ 6	0	0	Wichita Falls . . .	78	- 2	.2	-.5
Honolulu . . .	79	0	0	0	Winnemucca . . .	67	+ 5	0	-.1	UTAH. Blanding . . .	70	+ 4	.4	+ .2
Kahului . . .	82	+ 1	T	-.1	N.H. Concord . . .	60	- 2	.2	-.6	Salt Lake City . . .	74	+ 6	1	0
Lihue . . .	80	+ 1	.1	-.3	N.J. Atlantic City . . .	70	+ 1	.4	-.4	VT. Burlington . . .	61	- 1	.1	-.7
IDAH. Boise . . .	68	+ 2	0	-.1	Trenton . . .	71	+ 2	.3	-.5	VA. Lynchburg . . .	69	- 1	1.6	+ .8
Lewiston . . .	67	+ 1	0	-.2	N.MEX. Albuquerque . . .	73	- 1	.1	-.1	Norfolk . . .	78	+ 4	1.6	+ .5
Pocatello . . .	66	+ 4	0	-.1	Roswell . . .	78	+ 5	T	-.4	Richmond . . .	75	+ 3	1.6	+ .7
ILL. Cairo . . .	76	+ 2	0	-.9	N.Y. Albany . . .	66	+ 2	.5	-.2	Roanoke . . .	72	+ 2	2.0	+ 1.2
Chicago . . .	68	0	0	-.7	Binghamton . . .	63	+ 1	.1	-.6	WASH. Colville . . .	59	- 2	T	-.2
Moline . . .	68	+ 1	0	-.9	Buffalo . . .	65	+ 1	.2	-.6	Omak . . .	63	- 1	0	-.1
Peoria . . .	68	0	.1	-.7	New York . . .	71	+ 1	.3	-.5	Quillayute . . .	57	- 1	0	-.9
Rockford . . .	65	- 1	0	- 1.0	Rochester . . .	64	0	T	-.6	Seattle-Tacoma . . .	61	0	0	-.4
Springfield . . .	69	0	0	-.8	Syracuse . . .	63	+ 2	3.0	+ 2.1	Spokane . . .	60	- 2	0	-.2
IND. Evansville . . .	74	+ 3	.2	-.5	N.C. Asheville . . .	76	+ 2	3.4	+ 2.6	Walla Walla . . .	67	- 1	T	-.2
Ft. Wayne . . .	68	+ 1	0	-.6	Charlotte . . .	72	0	5.7	+ 4.8	Yakima . . .	62	- 2	0	-.1
Indianapolis . . .	72	+ 4	0	-.7	Greensboro . . .	78	+ 3	2.6	+ 1.2	W. Va. Beckley . . .	66	+ 1	1.1	+ .3
South Bend . . .	66	0	0	-.7	Hatteras . . .	73	0	3.0	+ 2.0	Charleston . . .	71	+ 1	T	-.7
IOWA. Burlington . . .	69	+ 1	0	-.9	Raleigh . . .	73	0	3.0	+ 2.0	Huntington . . .	70	0	2.4	+ 1.7
Des Moines . . .	70	+ 3	1.0	+ .2	Wilmington . . .	80	+ 3	4.4	+ 3.0	Parkersburg . . .	71	+ 1	.9	+ .2
Dubuque . . .	65	+ 1	T	- 1.1	N. DAK. Bismarck . . .	62	+ 2	.5	+ .1	WIS. Green Bay . . .	61	0	1	-.7
Sioux City . . .	68	+ 2	.5	-.2	Fargo . . .	60	- 1	.2	-.3	La Crosse . . .	66	+ 2	0	-.8
KANS. Concordia . . .	71	+ 1	.1	-.7	Williston . . .	61	+ 2	.8	+ .5	Madison . . .	62	0	T	-.8
Dodge City . . .	71	+ 3	.1	-.3	OHIO. Akron-Canton . . .	67	+ 1	.2	-.4	Milwaukee . . .	63	0	0	-.7
Goodland . . .	71	+ 4	T	-.4	Cincinnati . . .	73	+ 3	T	-.6	WYO. Casper . . .	65	+ 4	T	-.2
Topeka . . .	72	+ 1	.1	-.7	Cleveland . . .	67	+ 1	.1	-.6	Cheyenne . . .	65	+ 4	T	-.3
Wichita . . .	74	+ 1	T	-.9	Columbus . . .	69	+ 2	1.1	+ .5	Lander . . .	66	+ 5	T	-.2
KY. Lexington . . .	74	+ 3	.1	-.6	Dayton . . .	70	+ 1	.4	-.2	Sheridan . . .	62	+ 1	T	-.3
Louisville . . .	75	+ 4	.3	-.4	Toledo . . .	66	0	T	-.6	P.R. San Juan . . .	81	0	3.1	+ 1.6

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 SRS State offices in cooperation with the National Weather Service.

ALABAMA: Abundant rainfall and near normal temperatures. Hurricane Babe dropped heavy rains on central Alabama on 7th and 8th.

Fieldwork: 4.1 days suitable. Soil moisture short to adequate. Cotton fair condition; 51% with open bolls, 6% 1976, 14% average. Few fields harvested. Corn 42% harvested, 26% 1976, 18% average. Soybeans fair condition, 12% mature, 19% 1976, 14% average. Peanuts good condition, harvest making slow progress. Pastures fair condition.

ALASKA: Above average temperatures. Rainfall below normal.

Oat and barley combining ranged from 35% to complete. Potato harvesting increased as more growers began digging. Top soil moisture varied from short to mostly adequate. Vegetable harvest continues active and moderate supplies cabbage, carrots, lettuce, squash remained available. Farm activities: Cutting mixed grains, silage, slaughtering.

ARIZONA: Moist, unstable air, widespread thunder-showers, 0.25 in. to 1.00 in. Temperatures 2 to 4° above normal.

Cotton harvest starting Yuma. Insect activity increased. Grain sorghum harvest continues. Corn fair to good condition, harvest underway. Alfalfa hay harvest, renovation, preparation new plantings. Fall sugarbeets good condition. Seedbed preparation, planting fall and winter vegetables nearing completion. Lettuce, broccoli, cabbage emergence progressing. Hand weeding, thinning earlier fields. Fall cantaloup harvest continues. Lemon harvest continues, Yuma. Citrus groves good condition, new crop sizing well. Range conditions poor to good, improving higher elevations. Stock water, soil moisture short many areas. Livestock improving higher elevations, fair to good lower elevations.

ARKANSAS: Highest mean 80°, lowest 73°. Extremes: 94 and 53°. Most precipitation 3.22 in., least 0.01 in.

Soil moisture short to adequate. Fieldwork: 5.3 days suitable. Soybean harvest underway. Worms continue to feed on foliage. Crop fair to mostly good. Cotton mostly good; 7% picked. Open bolls 51% of acreage, 4% last year. Insects still heavy greener fields. Rice harvest 19% complete, 4% 1976. Severe lodging due to rain and wind some areas. Corn harvest 43% complete, 37% year ago. Sorghum harvest 56% complete, 21% last year. Wheat sown few additional fields. Oat seeding underway. Fall hay cuttings continued. Pastures provided average feed. Beef cattle gains good most herds.

CALIFORNIA: Dry; temperatures above normal.

Small grainseedbed preparation. Rice fields drained for harvest. Corn, milo good progress. Sugarbeet harvest continues. Alfalfa seed 85% complete. Cotton opening Central Valley; some damage desert, tobacco budworm, high humidity. Almond and apple harvest increasing. Table Thompson seedless harvest past peak. Raisin lay over 75% complete. Wine grape harvest slowly increasing. Stone fruit harvests slowing seasonally, prune, late pear harvests continue. Walnut groves being prepared for harvest. Fig harvest active. Date harvest continues. August rains caused some split damage. Pomegranate harvest increasing. Lemon harvest slow. Navel oranges

sizing slowly. Grapefruit harvest still slow. Broccoli, celery, lettuce, peppers heavy. Cauliflower, carrot, corn moderate. Fall potato beginning. Sweetpotato started. Brussels sprouts full swing. Processing tomato remains near peak Sacramento Valley. Lower elevation range poor, higher areas slightly better. Supplemental feed most areas, water trucked. Stockmen delaying purchasing livestock.

COLORADO: Dry; 9th cooler temperatures. Increased moisture produced rainfall 10th; 11th mountains and west received most rain. Temperatures above normal.

Winter wheat seeding 46% 1977, 36% 1976, 44% average. Corn very good, 75% dough, 78% dented. Dry beans good; 47% cut, 32% threshed. Alfalfa 63% 3d cutting. Sorghum 71% turned, 8% ripe. Range and pasture poor west, fair to good east.

FLORIDA: Tropical storm Babe brought considerable moisture north 5th and 6th. By 7th, dry condition existed with daytime temperatures in low to mid-90's. Rainfall ranged from 2.00 to 4.00 in. north to generally less than 2.00 in. central and south.

Soil moisture adequate central and north, mostly excessive west and south. Corn harvest nearing completion but problems continue to mount as aflatoxin shows up in practically all samples. Tobacco marketing continues. Hay and peanut harvest active. Soybeans fair to good condition. Cotton fair condition. Sugarcane very good condition. Harvesting for plant cane continues. Pastures mostly fair to good. Armyworms problem some areas. Cattle condition mostly good. Citrus tree condition excellent. Very little rain, moisture adequate all areas. New growth continues. Grapefruit harvest started slowly. Vegetable plantings fall crop continue active, nearly all areas underway. Transplanting, seeding, thinning, staking tomatoes active. Condition of growing crops fair to very good. Heavy rains necessitating exceptional resetting some fields. Preventive spray programs on schedule. First harvest sweet corn expected this week. Light movement squash, okra.

GEORGIA: Temperatures near to slightly above normal ranging from low 70's northeast to near 80° west and south. Rainfall 3.00 to 6.00 in. extreme north as remnants of Babe moved thru area, 1.00 to 2.00 in. east and south and 0.50 to 1.00 in. central. Cold front weekend bringing first touch of fall to north and central.

Soil moisture supplies mostly adequate. Fieldwork: 4 days suitable. Heavy infestation of insects continued. Corn rated poor; 51% harvested, 41% last year, 15% average. Cotton mostly poor to fair; 48% open, 3% harvested, last year 17% open, none harvested; average 1% harvested. Soybeans mostly fair. Peanuts mostly fair; 6% dug, 3% threshed; last year 24% dug, 18% threshed; average 28% dug and 19% threshed. Pastures poor to mostly fair. Cattle mostly fair to good. Hogs fair to mostly good. Apples fair to good; 55% harvested, 70% last year. Pecans fair. Wheat seeding 3% complete, rye 3%, other small grains 4%. Last year wheat 2%, rye 2%, other small grains 4%.

HAWAII: Weather warm and humid. Showers light mainly windward higher elevation.

Irrigation heavy most areas. Spraying frequent to control insect infestations. Vegetable supplies

of eggplant and green peppers generally heavy. Others light to adequate. Banana supplies moderate to heavy. Papaya supplies moderate. Pineapple supplies down. Sugar harvesting steady. Pastures fair to good. Some leeward areas need more moisture.

IDAHO: North received rain, south remained dry. Temperatures below normal north, near normal south. Extremes: 24 and 99°.

Grain harvest nearing completion. Fall planting just beginning. Winter wheat 100% harvested, 85% 1976. Spring wheat 95% harvested, 70% 1976. Barley 90% harvested, 70% 1976. Dry beans 70% swathed, 50% 1976; 15% combined, 10% 1976.

ILLINOIS: Temperatures 1 to 4° above normal. Precipitation little or none many areas, up to 0.50 in. some southern areas.

Corn good; 92% mature, 62% 1976, 60% average; 4% harvested, 1% 1976 and average. Soybeans good; 77% turning yellow, 73% 1976, 59% average; 40% shedding leaves, 44% 1976, 33% average. Pastures mostly good. Soil moisture mostly adequate. Fieldwork: 5.5 days suitable.

INDIANA: Sunny with few showers. Temperatures from middle 60's to low 70's. Extremes: 42 and 88°. Rainfall slight in north and south, about 0.30 in. central. Temperatures few degrees above normal in south.

Fieldwork: 6 days suitable. Topsoil and subsoil moisture adequate. Pastures unchanged, fair to mostly good. Corn 55% mature, 1976 35%, average 25%; fair to mostly good. Soybeans 70% turning yellow, 1976 75%; 25% shedding leaves, 1976 30%; 5% mature; fair to mostly good. Wheatland 35% plowed, 1976 55%, average 60%. Rye 10% seeded, 1976 10%. Silos 45% filled, 1976 35%.

IOWA: Mild with occasional showers. Rains in excess of 1.00 in. spread from northwest into central. Moderate showers weekend fell over southern parts of southwest and south central; elsewhere rainfalls light.

Soil moisture adequate. Fieldwork: 4 days suitable. Corn borer problem, ears and stalk dropping. Corn generally good to fair; 33% dent, 66% mature compared to 70% mature a year ago. Soybeans fair to good; 44% leaves turning, 25% leaves shedding, 26% mature. Corn and soybean crop nearing maturity. Hay and pasture continue to improve. 3d cutting alfalfa 80% complete. Livestock generally good with improved pasture and moisture supply.

KANSAS: Heavy rains 3.00 in. to over 5.00 in. extreme northeast and 1.00 to over 2.00 in. extreme southeast; otherwise moisture ranged few hundredths to none west to 0.25 in. to 0.75 in. east. Temperatures averaged 72° northwest to 74° south, 5° above normal northwest to 1 to 2° above normal elsewhere.

Harvesting corn, sorghum, wheat seedbed preparation, wheat seeding made slow progress in wet fields. Harvesting centered southeast, wheat seeding far west. Wheat seeding to date 5%, last year and average 5%. Corn dough stage 100%, equal last year, average 95%. Corn dented 85%, last year 80%, average 75%; mature 50%, last year, average 45%; harvested 10%, last year 10%, average 5%. Sorghums headed 95%, last year, average 90%; mature 25%, last year 20%, average 15%; harvested 5%, last year 5%, average 0%. Soybeans harvested none, equal last year, average. Alfalfa hay cutting continues. New crop alfalfa plantings 60%, equal average, last year 35%. Livestock benefit cooler temperatures, grazing sudan, volunteer fields.

KENTUCKY: Temperatures slightly above normal, averaging in mid-70's. Rainfall averaged 0.25 to 0.75 in., falling as showers first of week.

Soil moisture mostly adequate, with some scattered shortage and surplus areas. Most days favored outdoor activities at such jobs as corn shelling, silage chopping, tobacco cutting, fall plowing and early fall seeding of grains and cover crops. Corn maturing rapidly, 46% mature, 45% dented, only 9% in dough or earlier, 10% harvested, 2 weeks ahead last year and 86% considered safe from frost. Soybeans making good progress, 15% shedding leaves, 33% turning yellow, but half crop still green; 61% safe from freeze. Tobacco cutting slowed by showers and high humidity. Burley now 68% cut, 74% last year but well ahead of average 58%. Dark tobacco harvest progress about same as burley. Houseburn becoming serious especially in central and north. Housed tobacco meets cooler dryer air to slow barn damage and field rotting. Labor short. Plowing progress slowed, fall seeding just underway. Armyworms devouring early seeded cover crops and young grain some areas.

LOUISIANA: Temperatures 1° above normal. Extremes: 63 and 96°. Rain from Hurricane Babe.

Soil moisture short to adequate north, adequate to surplus elsewhere. Main activities: Insect control cotton, soybeans; haying and preparation of harvest equipment. Cotton fair to good; 37% open, 19% last year. Soybeans fair to good; near 100% setting pods, 24% turning color. Rice fair; 72% harvested, 75% last year, 73% average. Sugar-cane good; 4% planted, 39% last year. Corn 54% harvested, same as year ago. Sorghum fair to good; 43% ripe. Sweetpotatoes fair to good; 32% harvested, 30% last year. Hay fair. Pastures and livestock fair to good.

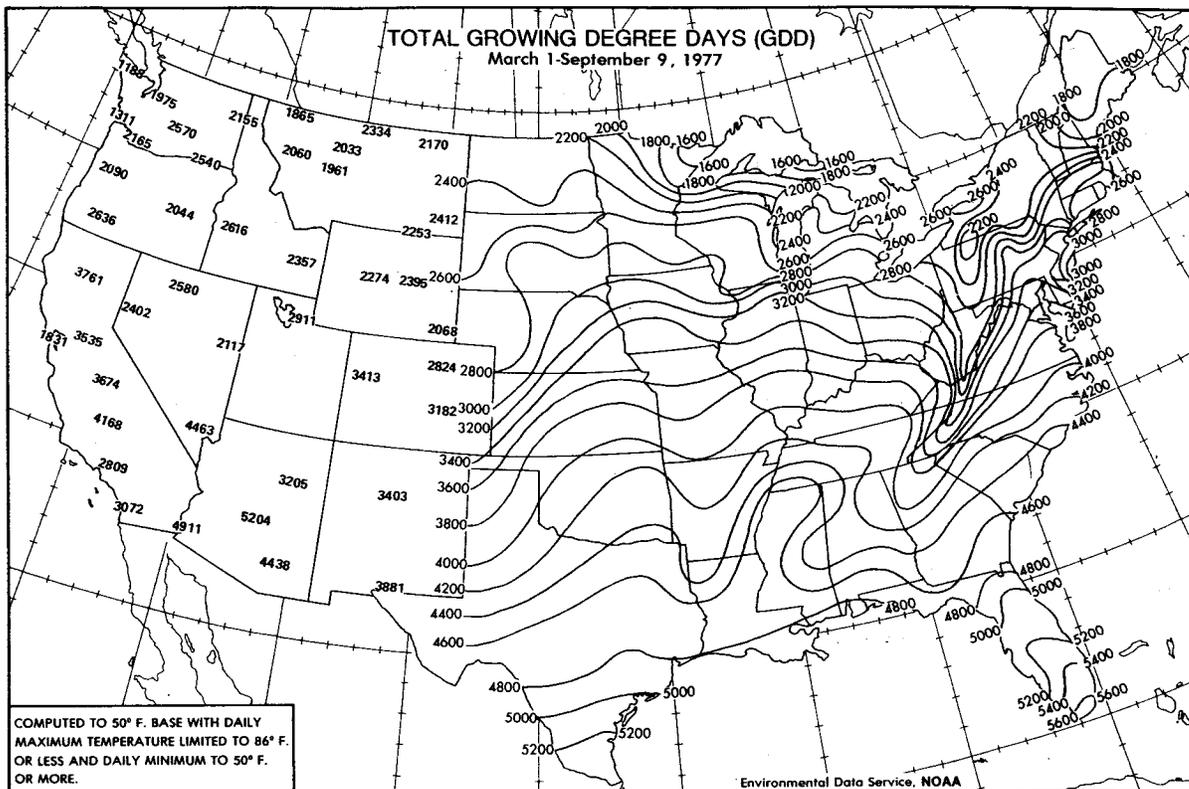
MARYLAND & DELAWARE: Temperatures 4° above normal. Highs, low to mid-80's, lows in upper 60's. Precipitation varied considerably; averaging 0.30 to 0.40 in. Some areas 2.50 to 5.00 in.

Soil moisture short. Pastures below average. Corn for silage 55% harvested, 60% mature. 25% soybeans have leaves turned. Tobacco cutting 80% complete. Fall apple picking started.

MICHIGAN: Temperatures 1° above normal southeast Lower; 2° below normal east, central Lower; 1° below normal northern Lower and Upper. Extremes: 88 and 31°. Precipitation averaged 0.38 in. northern Lower and 0.73 in. Upper; less than 0.02 in. elsewhere.

Topsoil moisture adequate to surplus; subsoil improving. Fieldwork: 5 days suitable. Main activities: Plowing, seeding winter wheat and cover crops, haying, cutting corn silage, and picking fruits and vegetables. Corn 62% dent, 61% 1976, 51% normal, some combining started in south. Dry bean harvest 5%, 32% 1976, 21% normal. Soybeans 55% leaves turning, 53% 1976, 41% normal; shedding 20%, 21% 1976, 12% normal; 5% mature. 3d cut hay 50%, 45% 1976, 29% normal. Pasture feed supplies looking best of year. Fruit and vegetable harvest: summer apples 98%; fall apples starting, peaches 95%, pears 90%, plums 90%, grapes 8%, sweet corn 90%, tomatoes 55%, dry onions 75%, pickles 90%.

MINNESOTA: Temperatures 2° below normal northeast to 4° above normal southwest. Extremes: 93 and 36°. Precipitation averaged near normal to 0.70 in. below normal southwest half and 0.25 to 0.75 in. above normal northeast half locally to about 2.00 in. above normal extreme north.



Corn, soybean harvest begun in south. Wind caused some ear droppage, stalk breakage in corn. Wet weather in north again delayed completion of small grain, flax harvests. Few sunflowers combined. Limited sugarbeet lifting begun. Moisture mostly adequate except in north, east central where some surplus. Corn 70% mature, 1976 53%, normal 33%; silage 47% cut, 1976 65%, normal 29%. Soybeans 76% shedding leaves, 1976 80%, normal 44%; mature 23%, 1976 33%, normal 12%. Combined: Spring wheat 94%, 1976 99%, normal 88%; flax 60%, 1976 80%, normal 62%. Seeded: Winter wheat 40%, 1976 30%, normal 53%; rye 41%, 1976 23%, normal 52%. Potatoes 24% harvested, 1976 23%, normal 14%.

MISSISSIPPI: Temperatures 2 to 6° above normal Delta, near normal elsewhere. Extremes: 99 and 61°.

Soil moisture short to very short north, surplus southeast, adequate elsewhere. Fieldwork: 4.4 days suitable. Soybeans 95% podding, 94% 1976; 44% turning, 32% 1976; 14% shedding, 9% 1976. Cotton 83% open bolls, 23% 1976, 17% average; 6% harvested. Rice 84% mature, 16% 1976; 23% harvested, 2% average. Corn 96% mature, 80% 1976; 25% harvested, 12% 1976, 11% average. Sorghums 78% ripe, 66% 1976; 26% harvested, 29% 1976, 27% average. Hay crops 80% harvested, 78% 1976, 75% average. Sorghum silage 77% harvested, 71% 1976. Peanuts 32% harvested, 35% 1976, 28% average. Corn silage 91% harvested, 84% 1976. Sweetpotatoes 29% harvested, 20% 1976, 32% average. Soybeans and cotton in fair to good condition. Rice in good condition. Corn, pastures and pecans in fair condition.

MISSOURI: Temperatures 2° above normal north, 4 to 6° above extreme south. Precipitation general with only few stations central not receiving

rain. Most sections averaged 0.25 to 0.50 in. except west Ozarks with 1.00 in. average.

Fieldwork: 4.5 days suitable. Corn 66% mature, last year 39%, normal 45%; harvested 15%, last year 10%, normal 5%. Soybean condition good; 32% turning color, 9% mature, last year and normal 10% mature. Grain sorghum 58% mature, 27% last year, 43% normal; 18% harvested. Cotton 65% with open bolls. Pasture condition fair to good. Soil moisture adequate.

MONTANA: Warm temperatures, cool 8th, and nights became frosty. Temperatures near normal west and east to 5° above normal central. Showers and thunderstorms most numerous midweek with some local heavy rain central and east.

Cool, rainy weather slowed harvest. Topsoil moisture short to adequate. Subsoil moisture short except short to adequate southeast. Spring wheat 85% harvested, normal 75%. Barley and oats 80% completed, normal 75%. Dry beans 20% harvested, normal 25%. Chopping corn silage 35% completed, normal 10%. Second cutting of alfalfa 80% completed, normal 75%. Winter wheat seeding 25% completed, normal 15%. Livestock moved from summer ranges 35%, normally only 20%.

NEBRASKA: Temperatures 2 to 6° above normal. Precipitation 0.10 in. Panhandle to 0.75 in. southeast. Wind, rain and hail storms south central caused considerable damage 11th not reflected in this report.

Corn over 60% mature, 45% year ago, 35% normal. Sorghum 45% ripe, 45% year ago, 20% normal. Soybean leaves turning 55% acreage, 65% year ago, 60% normal. Leaves shedding 10% acreage, 30% year ago, 20% normal. Fourth cutting alfalfa hay 25% complete, below 20% last year. Winter wheat

seeding 15% completed, 15% year ago, normal 26%. Topsoil and subsoil moisture adequate.

NEVADA: Sunny and warm. Few scattered showers south and east. Temperatures 5 to 10° above normal. Extremes: 109 and 18°.

Alfalfa seed harvest gaining momentum. Harvesting alfalfa hay ranged 3d cuttings west to 6th crop extreme southern valleys. Livestock movement slow.

NEW ENGLAND: Temperatures near normal. Precipitation mostly scattered showers averaging below normal.

Maine potato farmers preparing for harvest which will be in full swing mid-September. Vegetable growth normal. Apple harvest in full swing. Cranberry growers planning to start harvest around mid-September. Field corn progressing well. Second hay crop 70 to 90% harvested.

NEW JERSEY: Temperatures just below normal; light frost on 12th. Extremes: 35 and 88°. Rainfall 0.13 in. north, 1.01 in. central and 1.08 in. south. Soil moisture in percent of field capacity 53% north, 60% central and 65% south. Soil temperature averaged 65° north, 68° central and 70° south.

Some areas continue to irrigate. Harvest of fall vegetables slowed because of cooling temperatures. Peach harvest about complete. Apple harvest increasing. Cranberry harvest about to begin. Corn silage making general. Irish potato harvest active. Sweetpotato harvest beginning. Early planted field corn maturing rapidly. Late planted soybeans in some areas benefited from improved soil moisture conditions. Land preparation and seeding of small grains and cover crops increasing.

NEW MEXICO: Few showers southern sections 5th then dry through middle of week. Showers again west and south 10th and 11th. Rain mostly less than 0.50 in.

Alfalfa hay, irrigated grain sorghum, corn, peanuts good. Dryland sorghum fair. Cotton excellent with 15% of bolls open. Alfalfa hay third cutting 75% complete in north, fourth cutting almost complete in south. Corn and apple harvest underway. Ranges and livestock mostly good.

NEW YORK: Precipitation 0.50 in. or less. Temperatures in 60's; near normal to 7° above normal Hudson Valley. Extremes: 89 and 34°.

Corn silage harvest 5% complete. Earliest varieties in hard dent stage. Third cutting alfalfa 50% in. Dry bean harvest starting. Harvests of onions, sweet corn, cabbage for kraut, snap beans, potatoes continue. Early wine grape and cold-press concords being harvested.

NORTH CAROLINA: Rainfall 2.00 to over 6.00 in. Temperature 2 to 4° above normal.

Fieldwork: 3.9 days suitable. Soil moisture adequate. Conditions: Corn poor to fair; soybeans, cotton, peanuts, pasture, sorghum and sweetpotatoes fair; apples fair to good. Harvested: Burley 44%, 1976 46%; corn for grain 37%, 1976 36%, average 23%; corn for silage 70%, 1976 61%; apples 28%, 1976 42%, average 32%; sweetpotatoes 11%, 1976 9%.

NORTH DAKOTA: Cloudy, damp weather prevailed. Precipitation averaged 0.33 in. below normal to 0.75 in. above. Temperatures little above normal. Extremes: 39 and 89°.

Harvest operations made little or no progress due to wet weather. Sprout damage in small grains due to damp and rainy weather. Hard red spring wheat about 85% combined, durum about 70%, barley 95%, oats 95%. Soybean harvest in progress. Pasture growth improved but generally poor to fair condition.

OHIO: Temperatures normal. Extremes: 87 and 43°. Rainfall light.

Soil moisture adequate. Fieldwork: 6 days suitable. Main activities: Cutting tobacco and hay, chopping silage, spraying soybeans and shelling seed corn, processing tomato harvest and potato digging, plowing for fall seeding, beginning rye and barley planting. Corn 35% safe from frost, 40% 1976, 30% average. Soybeans 30% leaves shedding, 25% last year and average; 10% mature, equal to 1976 and slightly above normal. Corn silage and tobacco cutting in full swing. Tomatoes for processing 55% complete. Pastures in good condition supporting normal numbers of livestock.

OKLAHOMA: Temperatures slightly above normal, ranging from normal in the northwest to 6° above normal in the southeast. Precipitation ranged from 0.05 in. west central to 1.87 in. northeast.

Topsoil and subsoil moisture generally adequate. Seedbed preparations for wheat 84% complete, 57% 1976, and 71% normal. Planting underway in scattered localities. Corn rated good to excellent; 81% mature, 67% 1976, and 63% normal. Sorghum good condition; 38% mature, 38% 1976 and 39% normal. Cotton good to excellent condition; 99% setting bolls, 98% 1976 and 98% normal. Open bolls reported on 5% of crop, 1% 1976, and 5% normal. Peanuts rated good 98% spiking, 95% 1976, and 96% normal. Soybeans good to excellent condition; 86% setting pods, 80% 1976 and 80% normal. Alfalfa hay fair to good condition; 55% of the cutting complete, 66% 1976, and 54% normal. Pasture and range condition rated good. Livestock rated good to excellent.

OREGON: Significant rainfall early week in northwest, over 1.00 in. along north coast and 0.33 in. in Willamette Valley; other areas dry. Temperatures near normal coast and northwest interior while southwest and east ranged from 5 to 9° above normal.

Grain harvest complete in west, varying stages of completion east. Some fall seeding and summer fallow work underway. Grass and legume seed harvest mostly complete. Haying continues with abundance of grass hay on hand west. Peach harvest continues and prune harvest beginning in west. Mint harvest mostly complete in west, 75 to 90% complete east. Sweet corn harvest continues in Willamette Valley. Bartlett pear harvest nearly complete. Winter pear harvest underway. Range situation virtually unchanged; poor to fair east, fair to very good west. Increase in cattle movement.

PENNSYLVANIA: Hot, humid weather first part of week; drier and cooler at end of period. Extremes: 29 and 89°. Dry for most of state. Scattered showers gave 1.00 to 2.00 in.

Fieldwork: 5 days suitable. Moisture adequate. Activities: Making hay and baling straw; filling silos; plowing; digging potatoes; cutting tobacco; seeding alfalfa; picking apples; equipment preparation for corn silage harvest. Tobacco 75% cut, same as 1976. Potatoes 54% dug, last year 39%. Ensilage corn 12% cut, last year 18%. Corn for grain 61% dented, last year 45%. Plowing 46%,

last year 52%. Wheat 4% sown, barley 6%--last year each 32%. Alfalfa third cut 70%, fourth cut 23%. Hay quality fair to good. Feed from pastures average.

PUERTO RICO: Island rainfall 2.23 in. or 0.41 in. above normal. Temperatures averaged about 80° on coasts and 75° interior. Extremes: 95 and 58°.

Agricultural drought terminated by frequent moderate to heavy rainshowers throughout the Island. Some eastern interior zones too wet for satisfactory field operations. Recent rains greatly benefited surface water supplies.

SOUTH CAROLINA: Warmer than usual; cooler, drier weekend. Rainfall above normal especially mountains, foothills. Flash flooding in mountain area first half of week.

Soil moisture adequate. Armyworms, earworms still plaguing farmers. Aflatoxin still reported in corn crop. Tobacco harvesting virtually over. Worms still in cotton crop. Chemicals controlling the problem more now than in past. Over 50% of acreage had open bolls. Farmers harvesting corn crop. Soybean condition fair. Worms still problem but chemicals were controlling them better. Pastures poor to fair. Pecans fair. Apples fair to good. Fall vegetables poor to fair. Corn harvested 63% 1977, 53% 1976, 31% average.

SOUTH DAKOTA: Warmer than average. Extremes: 32 and 101°. Precipitation mostly less than 1.00 in.

Topsoil moisture short. Silage cutting in full swing. Greenbugs infesting grain sorghum and winter wheat plantings. Livestock in good condition. Grain stubble supplementing pasture supplies. Corn dent stage or past 97%, 1976 96%, normal 83%. Corn mature (safe from frost) 51%, 1976 49%, normal 49%. Soybeans shedding leaves 60%, 1976 71%, normal 47%. Grain sorghum showing color 79%, 1976 80%, normal 71%. Fall plowing complete 57%, 1976 50%, normal 56%. Winter wheat seeded 35%, 1976 33%, normal 40%. Rye seeded 42%, 1976 13%, normal 37%.

TENNESSEE: Temperatures 1 to 5° above normal. Precipitation 0.50 in. west and mid, over 3.00 in. east.

Soil moisture adequate. Fieldwork: 4.3 days suitable. Pastures short but improved. Cattle condition good. Soybeans mature 6% 1977, 2% normal. Cotton open bolls 52% 1977, 5% 1976, 18% normal. Cotton harvested 6% 1977, 3% normal. Corn mature 72% 1977, 40% 1976, 47% normal. Corn harvested 16% 1977, 1% 1976, 6% normal. Dark-fired tobacco harvested 85% 1977, 82% 1976, 65% normal. Burley tobacco harvested 81% 1977, 85% 1976, 72% normal. Air-cured tobacco harvested 81% 1977, 40% 1976, 68% normal. Fall plowing completed 48% 1977, 46% 1976, 49% normal. Wheat seeded 17% 1977, 7% 1976, 10% normal. Oats seeded 25% 1977, 19% 1976, 19% normal. Barley seeded 29% 1977, 12% 1976, 19% normal.

TEXAS: Scattered showers, thunderstorms. Temperatures above normal. Rainfall below normal Panhandle, Lower Valley; above normal east; elsewhere, near normal.

Cotton harvest active Blacklands; few fields stripped southern High Plains, northern Low Plains. Some producers applying desiccants. Sorghum harvest active mainly southern Low Plains, Cross-Timbers; beginning northern Low Plains, southern High Plains. Corn harvest accelerating High Plains. Peanut harvest progressing south. Beneficial rains some areas, but fields Cross-Timbers need rain. Sunflower harvest becoming active High Plains. Rice harvest good progress; first cutting virtually complete. Wheat seeding accelerating. Many early

planted fields up to stand; but some areas need rain for good germination. Oat seeding good progress. But many growers planting in dry seedbeds. Sorghum harvested 64% 1977, 55% 1976, 56% average. Rice harvested 99% 1977, 99% 1976, 93% average. Corn harvested 33% 1977, 32% 1976, 36% average. Cotton harvested 15% 1977, 7% 1976, 10% average. Peanuts harvested 16% 1977, 18% 1976, 16% average. Wheat planted 20% 1977, 20% 1976, 17% average. Oats planted 9% 1977, 8% 1976, 12% average.

Planting fall vegetables. Kale, cabbage, spinach, carrots developing. Cucumbers, cauliflower good growth. Moisture improved fall vegetables some areas. Harvest green peppers, tomatoes, squash, cucumbers, carrots. Scattered showers improved pastures, ranges many areas. Available grazing still below average except parts Panhandle, east, along coast. More rain needed. Livestock condition varies from good to excellent where grasses green, to fair or poor drier areas where supplemental feeding common.

UTAH: Fair and mild first half; gradual cooling trend latter portion with scattered shower and thunderstorm activity. Amounts generally light to moderate. Temperatures ranged from 1 to 11° above normal.

Soil moisture for winter wheat planting short; about half of 1978 crop planted dryland areas. Irrigated winter wheat 8% planted. 35% or third crop alfalfa hay harvested. Other harvest progress: Sweet corn 80%, tomatoes 45%, potatoes 37%, dry onions and corn silage 8%. Peaches and pears 55% picked, apples 10%. Livestock conditions fair to good; some movement from summer ranges.

VIRGINIA: Rainfall 1.60 in. Temperatures 4° below normal.

Topsoil moisture short to adequate. Livestock watering supplies short to adequate. Fieldwork: 4.1 days suitable. Corn combining 30% done, 20% 1976, 9% normal. Peanuts good, harvest equipment being readied. Flue 58% pulled, 72% 1976, 69% normal. Fire 51% cut, 73% 1976, 60% normal. Burley 55% cut, 67% 1976, 48% normal. Sun 70% cut, 56% 1976. Apples 18% picked, 16% 1976. Wheat 1% seeded, barley 4%, winter oats 5%.

WASHINGTON: West: Temperatures near normal except 4° below normal east Cascade foothills. Precipitation near normal.

Good weather provided excellent growing and harvest conditions. Some small grain remains to be harvested, high moisture content a problem.

East: Temperatures 3° below normal to near normal. Precipitation near normal.

Moderate temperatures ideal for fruit sizing. Peach harvest over; pears still being harvested; some apples starting. Winter onion harvest starting; potato digging continues. Concord grapes start in 10-14 days, some wine grapes already in. Silage corn harvest underway many areas. Soil moisture improved on dryland, but most operators waiting for more rain prior to seeding fall grain. More moisture badly needed many areas.

WEST VIRGINIA: Temperatures above normal with cooling trend weekend. Precipitation heavy localized showers in south; little to no rain elsewhere.

Fieldwork: 4.6 days suitable. Main activities: Haying, silage cutting. Soil moisture adequate. 2d haying 79% complete, 82% 1976, 79% average. 3d haying 39% complete, 33% 1976, 38% average. Corn development: 8% silked, 57% dough, 28% mature, 7% harvested. Corn condition fair to good. Potatoes 59% dug, 71% 1976, 58% average. Wheat and barley less than 5% planted, less than 5% 1976. Pasture and hay condition fair to good.

WISCONSIN: Temperatures 1° below normal. Warmest 8th and 12th when highs in upper 70's and low 80's. Low temperatures in 40's. Rainfall heaviest north at about 1.00 in., only trace south. Most rainfall occurred 6th and 8th. Severe storms northwest evening of 8th.

Corn 90% safe from frost, 1976 67%, normal 45%. Some high moisture corn going into silos, a little grain corn picked for immediate use. Silo filling 15% done, 1976 30%, normal 10%. Silos fill fast with tall corn and good sized ears. Soybeans 45% turning yellow, 1976 60%, normal 33%. Soybeans look very good, need couple weeks to mature safely from frost. Third crop hay 50% harvested. Large third crop growth but difficult to dry for storage. Some fourth crop harvested and growth coming fast where third crop removed. Pasture conditions

above normal. Tobacco harvest well advanced. Harvesting of potatoes and vegetables continuing. Little fall plowing done. Apple harvest proceeding rapidly, cranberry harvest may begin in another week or ten days. Soil moisture supplies adequate.

WYOMING: Temperatures above normal. Highest temperature 97°. Precipitation below normal.

Soil moisture short. Winter wheat 59% planted, 23% emerged. Potato digging started, 11% complete. Dry beans 52% in windrows, 16% combined. Corn silage 32% cut. Corn for grain 56% in denting stage, 12% mature. Harvesting of other hays mostly complete. Third cutting of alfalfa 34% put up. Fall and winter livestock grazing prospects fair. Cattle and calves 24% contracted, 8% marketed. Sheep and lambs 31% contracted, 22% marketed.

World Weather and Crop Update

Sept. 5 - 11

USSR. The small grain harvest in the Soviet Union is now focused on the important spring wheat regions of western Siberia and northern Kazakhstan where cool, wet weather has hampered growers in many areas. Although conditions improved somewhat, a considerable area still remains to be harvested. For example, only 53 percent of the small grain area of 25 million hectares in Kazakhstan had been swathed, and only 10 million hectares were threshed by September 5. A period of warm dry weather is desperately needed to complete the harvest. Elsewhere, the European USSR harvest of row crops proceeded showing 11 and 24 percent, respectively, of potatoes and vegetables harvested. Lifting of sugarbeets was well underway, and 60 percent of the area in corn (for grain and silage) had been harvested by September 5.

ASIA. Light to moderate rainfall occurred over the north and northeastern regions of the People's Republic of China where the harvesting of coarse grains, potatoes, and industrial crops had begun. North China, in particular, had been suffering from flooding and waterlogging caused by extremely heavy rains in midsummer. Precipitation was spotty in the rice growing areas south of the Yangtze River. Heavy, spin-off rains from Typhoon Babe hit the east central coastal provinces causing localized flooding in some areas. The Shanghai section, which is still recovering from heavy flooding in late August, recorded five inches of moisture. But rainfall was below normal in some of the central provinces. In India, there was substantial reduction in monsoon activity after a brief resurgence at the end of August. Nevertheless, cumulative rainfall from June 1 to September 7 was normal or above for the entire country except East Uttar Pradesh and Nagaland, Manipur, Mizoram, and Tripura. The favorable precipitation pattern has given rise to hopes of a record or near record fall harvest of food grains. Little moisture fell on Australia's grain belt over the past week.

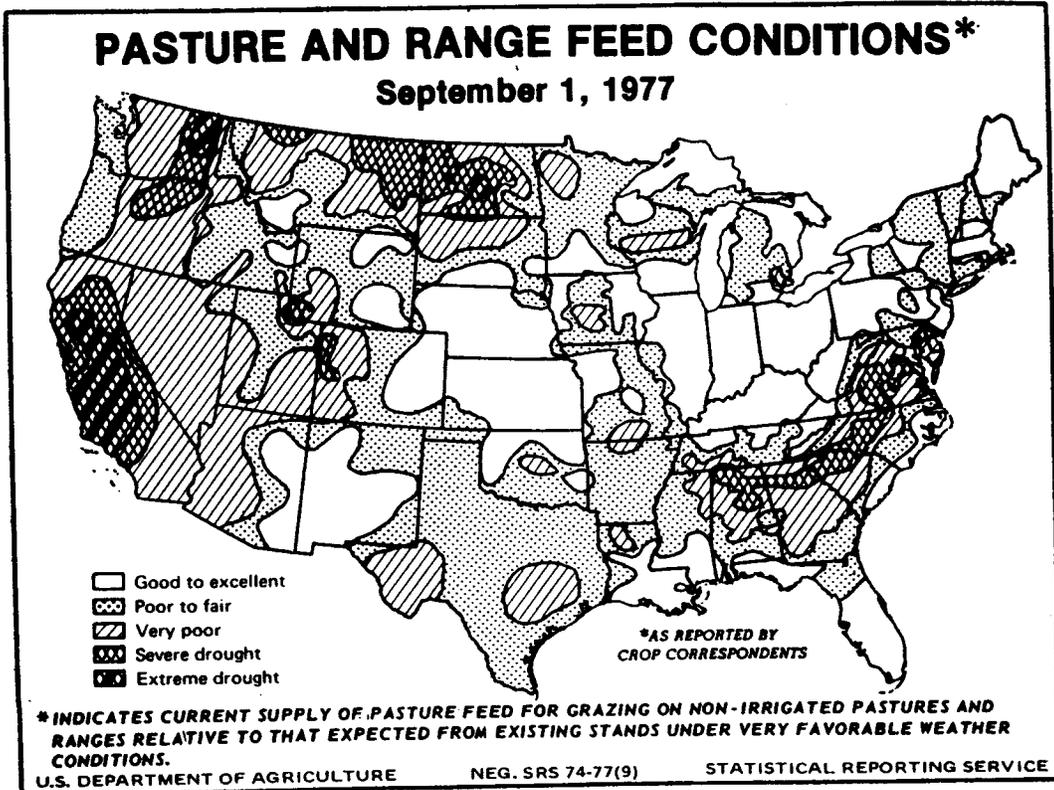
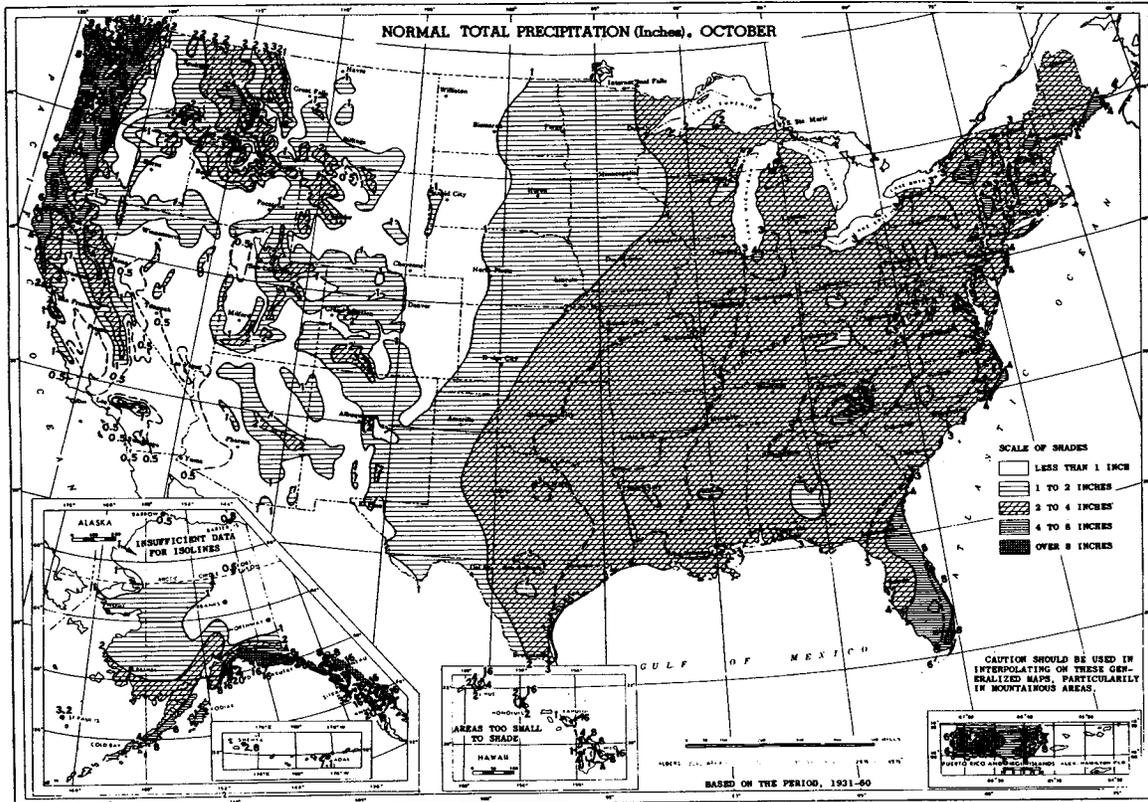
AFRICA. There was some shower activity in Morocco and Tunisia in the north, but South Africa con-

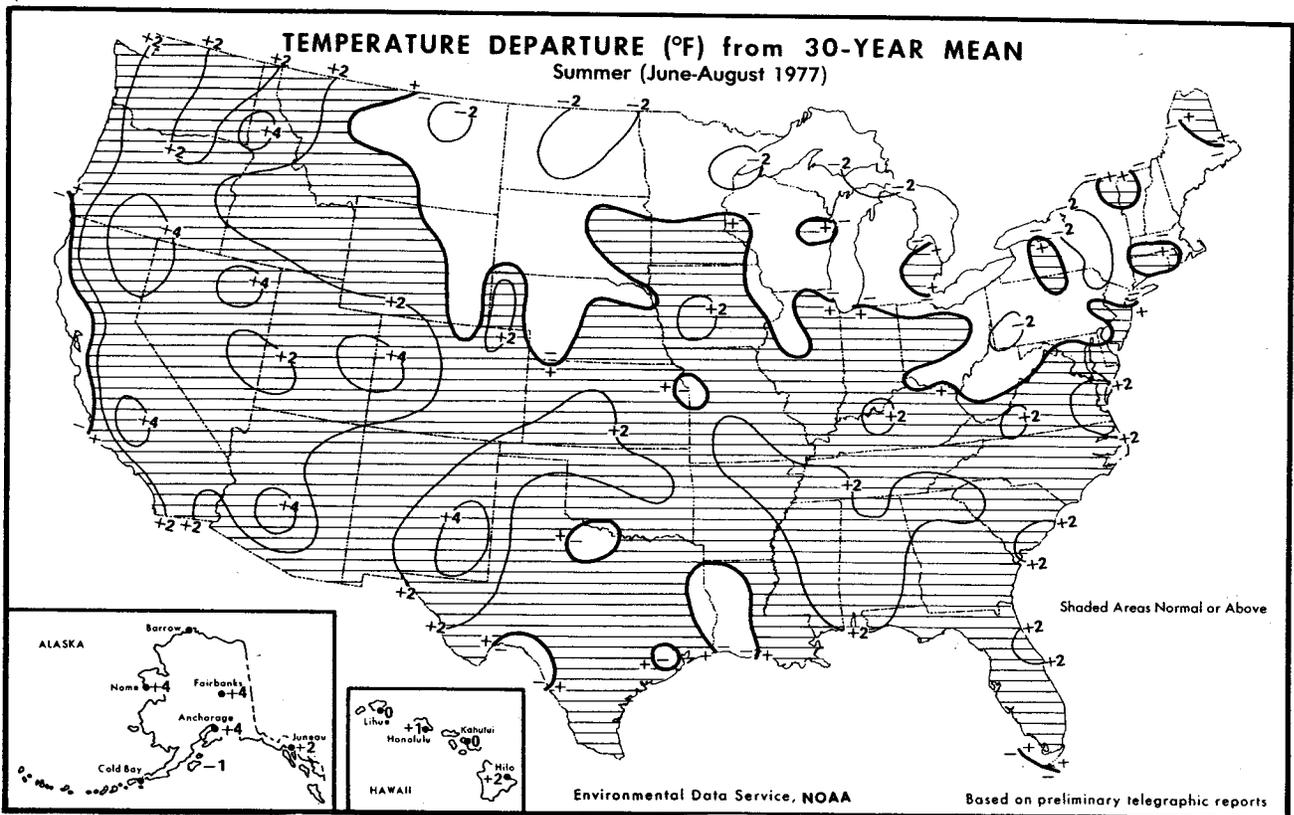
tinued cool and seasonally dry. In central Africa, Mauritania, Senegal, and adjacent areas of Mali have been suffering from serious drought along with the southern areas of Ghana, Togo, and Benin. Rains in recent weeks, however, improved the agricultural outlook in Senegal while parched areas in Mauritania and Mali received some relief.

SOUTH AMERICA. Temperatures were well above freezing in the coffee growing areas of Brazil. Precipitation was spotty throughout the main agricultural areas in the south and southeast. Significant moisture fell over much of Rio Grande do Sul, Brazil's most important wheat state. However, dry conditions continued to prevail in the main winter wheat belt of Argentina.

EUROPE. Mild temperatures and light precipitation prevailed over most of western Europe. The generally favorable weather of recent weeks permitted completion of the harvest of small grains and pulses throughout most of the sub-continent. However, much of the grain was harvested containing above normal moisture content; this required artificial drying. Spain and Italy were without significant precipitation. Eastern Europe also enjoyed a week of generally light precipitation--a situation that favored completion or near completion of the small grain harvest in the northern countries where earlier harvest operations were hampered by poor weather. Dry conditions prevailed in Greece and Turkey.

NORTH AMERICA. Substantial rains fell throughout the southern states from East Texas to the Atlantic Coast. Fall pastures, in particular, were helped by the moisture. Moderate to locally heavy showers also hit the center of the United States in eastern Kansas and Nebraska, Missouri, and southern Iowa. Light to moderate showers were widespread throughout the northern Great Plains. Heavy rains set back harvest operations in Manitoba in the Canadian Prairie Provinces. Alberta and Saskatchewan, however, escaped with generally light showers.





Summer Weather Review

HIGHLIGHTS: Summer was a season of plentiful rain and good temperatures for key agricultural sections of the Country. The central Plains and upper Midwest had an especially healthy growing period. The upper South and central California had less than a normal rainfall while temperatures climbed above the expected readings for summer; some crop damage resulted.

Temperatures were normal or warmer for the most part. The northern tier of the Nation, from central Montana to a section of upper New England dipped to cooler-than-normal readings.

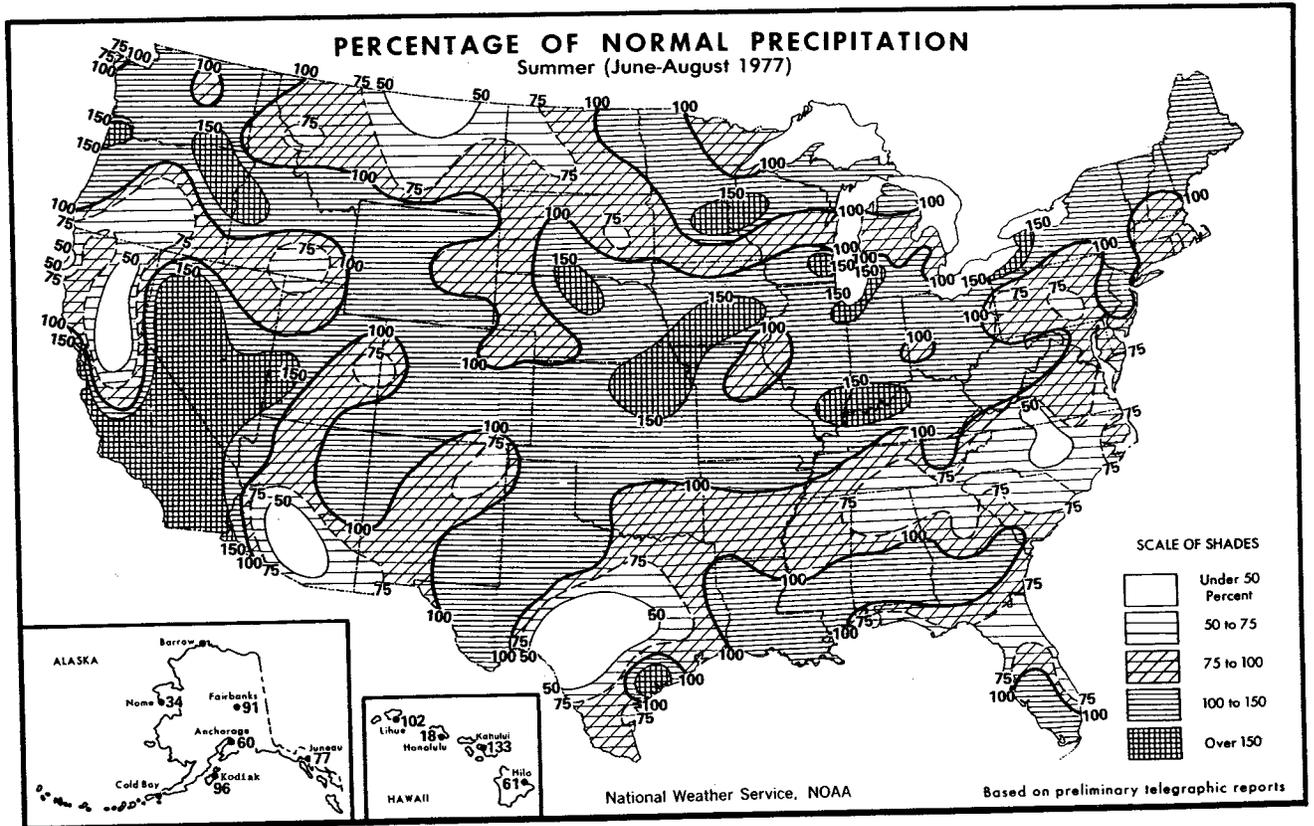
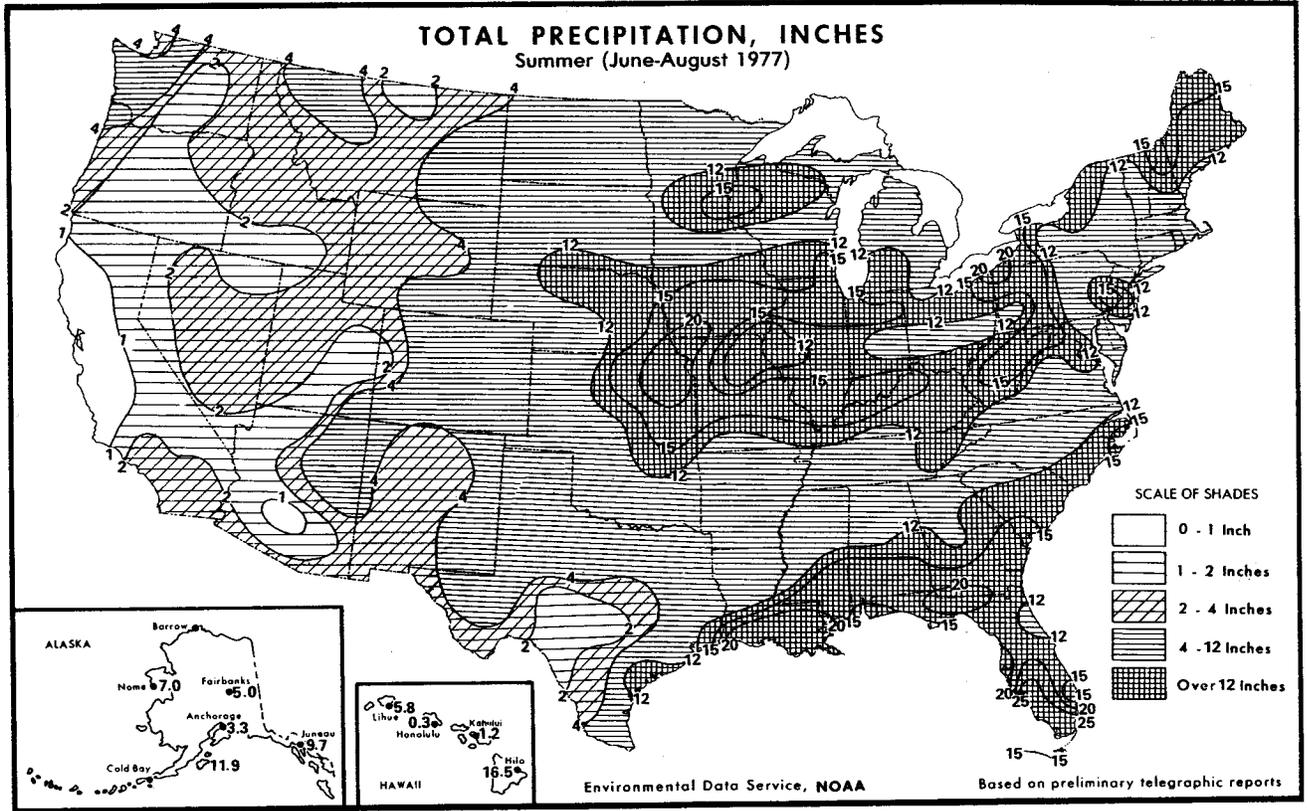
Early June proved productive for portions of the central Plains eastward to Missouri, the upper Midwest, and the Ohio and Tennessee River Valleys. Rain fell in good amounts helping to germinate late-sown corn and soybeans and providing needed moisture for other crops. The Southeast looked to the skies for more rain; not enough came and the area simmered under above-normal heat. A large part of the Country, from the Rockies to the West Coast received little or no rain. Western pasture lands were hurt. Temperatures measured above normal throughout the U.S. except from Illinois and Wisconsin eastward to the Atlantic Coast and as far south as North Carolina.

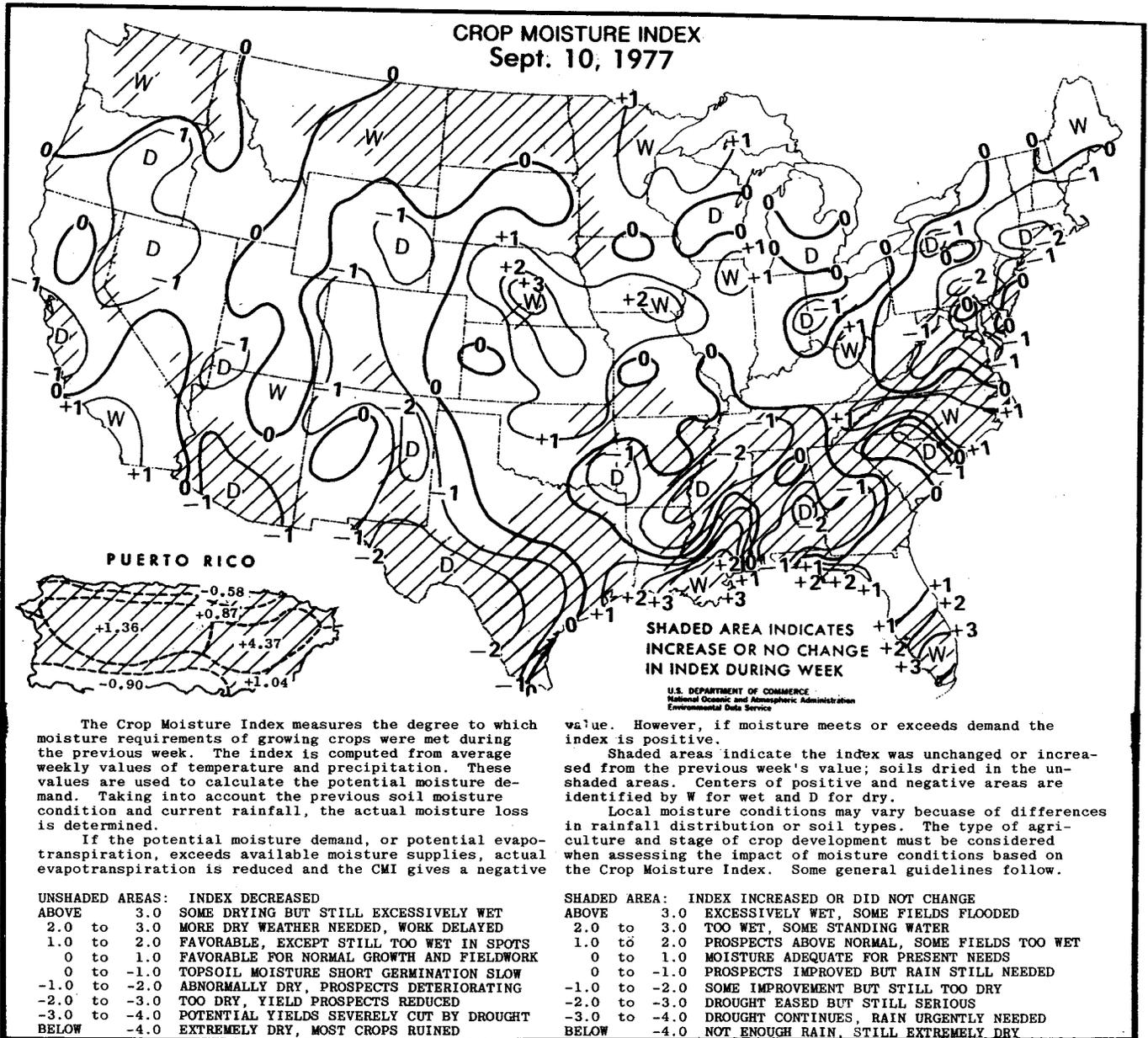
High temperatures and thunderstorms were July's major contributions. Although less-than-normal rains fell in many areas, they came at regular intervals during the warmest days of the month cutting down on high evaporation rates and reducing crop stress in several sections. Welcome rain drenched dry eastern North Dakota and western

Minnesota while portions of the north central Plains, upper Midwest, Oklahoma, and the central parts of Mississippi and Alabama got ample moisture. Large areas in Virginia, North Carolina, Tennessee, Texas, Missouri, and California were plagued by dryness and heat. July extremes included one day when all States save Washington and Oregon had readings above 90°, and a devastating flood at Johnstown, Pennsylvania. Temperatures soared at nearly all stations except the Pacific Northwest, Idaho, western Montana, and central New York.

Once again a summer month gave the necessary ingredients for good growing conditions in major producing regions. The Corn Belt and Great Plains received much more rain than usual for August. And although temperatures in those sections were slightly below normal, crops flourished. Parts of Iowa, Nebraska, Kansas, Oklahoma, Illinois, and Indiana were drenched by several inches of rain. Meantime, the Pacific Northwest was suffering under wearying heat, sometimes reaching into the 100's. Relief did not come until August's fourth week--following was a winterlike cold front bringing early rains. The central Plains and upper Midwest welcomed the heavy precipitation. Dry soil moisture conditions lessened as the rain fell. Only portions of the upper South, Southwest, and central California measured less moisture than expected.

The hurricane season brought ample rains to some of the Gulf Coast and southeastern States when Anita and Babe trudged in from the sea.





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