

WEEKLY WEATHER AND CROP BULLETIN

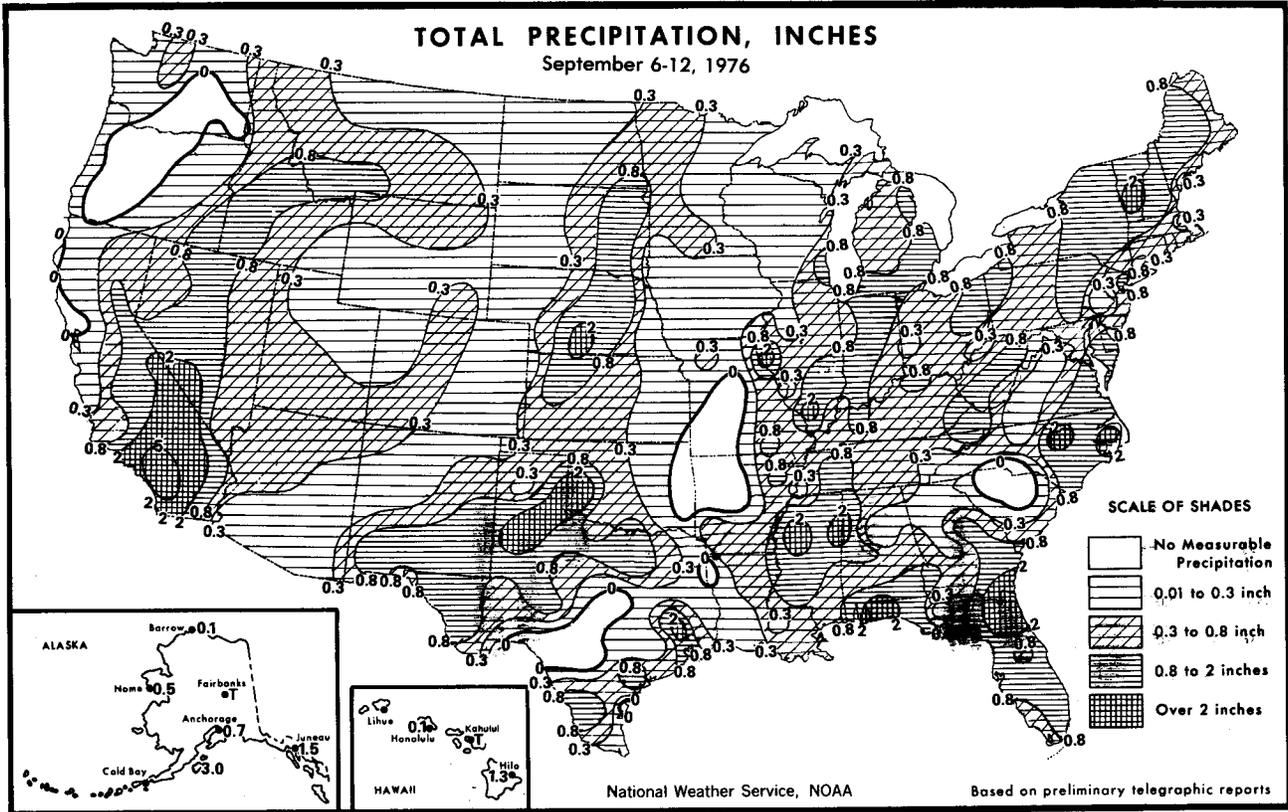
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National Weather Summary

For the Week of September 6 - 12

HIGHLIGHTS: Hot, dry air plagued the northern Plains early in the week, while cool temperatures persisted in the northwestern and northeastern States. Although some rains fell over the parched northern Plains, they did not significantly relieve the drought situation. Tropical storm Kathleen moved into southern California Friday and inflicted heavy rains and high winds over much of the Southwest for the remainder of the weekend.

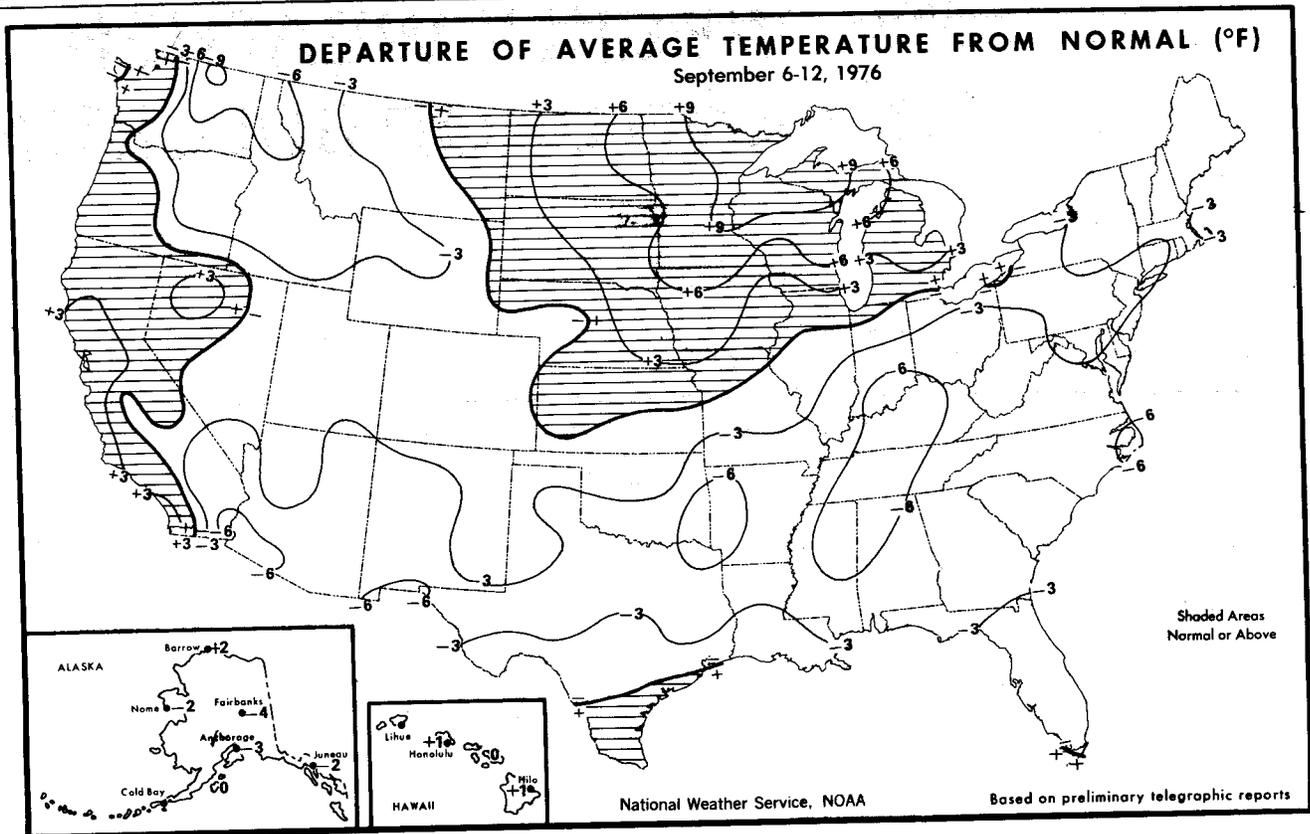
Hot, dry air swept by brisk southerly winds plagued the already parched northern Plains, Monday. South Dakota reached record highs of 107° in Pierre, 105° in Philip, and 104° in Sioux Falls. By contrast, cool temperatures in the 30's and 40's persisted in the Northwest, as a wet snow fell in the mountains (above 4,000 feet) of Washington. In addition, the northeastern U. S.

continued to have cool weather with readings in the 60's and 70's throughout the day.

Showers and thundershowers forced flash flood watches for portions of southern California mountains and deserts, Utah, southern Arizona, and the mountains and southwestern part of Colorado. Other thundershowers lingered over the southwestern Plains, and from the central Gulf States to the southern Atlantic Coast.

A sharp cold front, along with scattered thundershowers, pushed into portions of the Plains, Tuesday. Temperatures dropped more than 30 degrees. Pierre, S. Dak. fell from Monday's high of 107° to only 74° Tuesday, and Bismarck, N. Dak. from 101° to 69°. Ahead of the front, record highs covered portions of Minnesota.

The front also brought welcome rains to the parched areas of the northern and central Plains. Showers and thundershowers reached from Minnesota



and the eastern Dakotas, into eastern Colorado, and western Kansas. Aberdeen, S. Dak. received .76 inch of rain, which tops the total for any one day so far in 1976. However, the area remains over 8 inches below normal.

Showers and thundershowers were scattered also from the lower Mississippi Valley, to the southern Atlantic Coast, over parts of Texas, the southern Plateau region, and southern California.

Just over 1/4 inch of rain fell at Ontario, Calif. and Yucca Flat, Nev. Flash flood watches remained in effect for some of the mountain and desert areas of southern California.

A cold front drifted slowly eastward across the midsection of the Nation to break the upper Midwest heatwave on Wednesday. Temperatures dipped to the low 50's and some below freezing over the Dakotas and into the 20's in Wyoming and Montana.

A narrow band of showers and some thundershowers extended from northeast Minnesota, through southwest Iowa and north central Oklahoma, to southeast of the Texas Panhandle. In spite of local rainfall exceeding 1 inch in some parts of the Great Plains, the drought-stricken areas still require more prolonged rains.

Unseasonably cool air gripped much of the Nation from the Mississippi Valley into the Rockies early Thursday. Record low temperatures dipped to just 28° in Pocatello, Idaho and 35° in North Platte, Nebr.

A band of showers and thundershowers, associated with a cold front, extended from the central Great Plains area into the lower Mississippi Valley and continued to move eastward. Showers and thundershowers also traversed the Gulf and southern Atlantic Coasts. Tropical storm Kathleen,

just off the Baja California Peninsula, spread moisture northward and produced considerable cloudiness over the southwestern U. S.

Cloud cover and rain held temperatures in the 50's and 60's over parts of New Mexico and western Texas. Clear and cool weather in the northern and central Rockies and upper Mississippi Valley kept temperatures in the 70's and upper 60's. The Pacific Coast remained warm with a few readings over 100 degrees in the northern California interior. Mercuries reached the 80's and 90's elsewhere in California, in parts of the Pacific Northwest, along the Gulf and the middle and southern Atlantic Coasts.

Tropical storm Kathleen moved northward over Baja California, Friday, and spread rains over southern California, southern Nevada, Arizona, and southwest Utah. Rains caused flash flood watches over parts of the southwestern States. Las Vegas, Nev. reported some streets flooded with more than 3 feet of water, while Laguna Mountain, Calif. received more than 9 1/2 inches of rain in a 24-hour period. Tropical storm Kathleen also produced high winds over southwestern Arizona (almost 75 mph at Yuma, Ariz.) and southeastern California.

Although tropical storm Kathleen expended her major force over southwestern Nevada, she continued to drop showers and thundershowers over much of California, Nevada, Utah, southern Idaho, western Wyoming, and parts of Montana on Saturday. Other precipitation fell over southern Texas, southern Florida, and most of New England.

The shower activity extended over the central and northern Plains on Sunday, but the extreme drought conditions received little relief.

National Agricultural Summary

For the Week September 6-12

HIGHLIGHTS: Above normal temperatures blanketed the western North Central States keeping conditions hot and dry. Elsewhere subnormal temperatures ruled, notably slowing cotton development in the Southern States and bringing frost to many northern tier States. Winter wheat seeding increased, but new plantings need rain to assure good germination.

SMALL GRAINS: Favorable weather conditions helped farmers harvest most of the remaining small grains. In Montana, only 5% of the spring wheat waited for the combine. In Idaho, 15% of the winter wheat and 30% of the spring wheat remained to be cut. Some acreage also must be combined in the Pacific Northwest.

Seeding of the 1977 winter wheat crop lagged last year's planting rate. Farmers delayed putting seed in the dry soil hoping for rains to improve germination rates. In Kansas, 5% was seeded equalling last year, but only half the average for this time. Texas growers planted 10%, slightly less than 1975's 13% but far behind the 27% average. Oklahoma growers seeded 3%, well off the 10% average. Colorado growers seeded 36% of the winter wheat crop, nearly the same as 37% in 1975, but much less than the 53% average.

CORN: Above normal temperatures in most of the North Central States helped push more of the corn crop to maturity. In the eastern North Central States, only 15% of the Michigan crop was mature, but from 30 to 67% of the crop reached maturity in other States. This rate lags last year in some States, but exceeds the average in all the eastern North Central States. In the western North Central States, maturity ranged from 41 to 74%, equalling or exceeding both 1975 and the average in all States but Missouri. Harvest operations extended into some Ohio and Nebraska fields. In Kansas and Missouri, corn combining reached 10% complete, equal to last year in Kansas, ahead in Missouri, and ahead of normal in both States.

Harvesting in the southern Atlantic and South Central States surpassed both last year and the average, except in Texas where 32% of the crop was harvested compared with 30% last year and 40% average.

No serious frost damage occurred in the major grain producing areas. Corn originally earmarked for grain was ensilaged in some States because ears did not fill well.

COTTON: The U. S. cotton crop development varied among States but generally lagged previous years performance. Cool temperatures took the blame as readings fell as much as 5 to 7 degrees below normal in some areas of the Cotton Belt. In Texas, only 7% of the crop had been picked compared with 14% in 1975 and 12% average as cool readings delayed boll opening. In Arkansas, only 4% of the acreage had open bolls, compared with last year's 13%. About 6% of the Alabama crop had open bolls, almost half of 1975's 11% and far behind the 16% average. Open bolls exceeded last year's rate only in Mississippi and Louisiana.

SOYBEANS: The Nation's soybean crop rated fair to good, but many areas need rain to fill pods. In Iowa rapid drying matured the crop quickly with

32% in the mature stage. Among the North Central States, maturity ranged from 11% in Missouri to Iowa's 32%. Development generally equals or exceeds previous year's in all the North Central States, except Illinois. In Illinois, 77% of the leaves turned color compared with 86% in 1975 and 59% average; and 45% of the crop shed leaves against 55% last year and 27% average. In Minnesota, soybean harvest began on a limited scale with 26% of the crop mature, twice 1975's 13% and 10% average.

OTHER CROPS: The United States sorghum crop rated a fair condition. Development ran on schedule to slightly ahead in the major producing States. Farmers harvested the crop as far north as Nebraska where 5% of the crop was combined. In Kansas, harvest reached 5% the same as last year and slightly ahead of normal. In Texas, harvest attained 55% complete, below the 61% in 1975 but ahead of the 54% average. The Texas sorghum crop remaining to be harvested needs dry weather to prevent sprouting.

Aroostook County, Maine potato growers killed vines in preparation for harvest, but wet fields limited early activity. Washington potato harvest was in progress.

California rice growers drained fields in preparation for combining. The Texas rice harvest reached 99% complete, edging out last year's 97% and far surpassing the 83% average. In the Delta States, Louisiana harvest hit 77% compared with 66% in 1975 and 73% average. The Arkansas harvest, at 3% complete, fell behind 1975's 14%.

The peanut crop deteriorated in the middle Atlantic States, but showers improved the Oklahoma crop. Rains slowed the Texas harvest to only 20% complete lagging 27% in 1975 and 30% average. In Georgia, threshing, at 18% was behind 1975's 26% and the 29% average.

Tobacco harvest in the major producing States generally neared the 75% mark, ahead of most recent years except in Virginia. Virginia's flue-cured, sun-cured, and fire-cured pullings fell behind last year.

FRUITS AND NUTS: Harvest of the fall apple crop moved ahead throughout the Nation. New York growers harvested Aurora grapes. Recent rains caught California's raisin crop on the ground. The Florida and Texas citrus harvests should begin soon.

VEGETABLES: Fall vegetable harvest increased in northern production areas. In Florida, rains caused some farmers to spot replant but most crops remained in good condition. California processing tomatoes suffered a setback from weekend rains. Seeding resumed, following rains, in south Texas. In northern areas, harvesting of a wide variety of vegetables continued.

PASTURES AND LIVESTOCK: Short soil moisture supplies kept grasslands in mostly fair condition. Some grazing land rated poor in the northern half of the Nation. In the southern half of the Nation, recent rains helped green some grasslands earning a good condition for some. Many cattlemen fed hay and forage to supplement meager pastures in the driest areas. Cattle were in good condition.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., September 12, 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 . . .	71	-5	.2	-.7	La.Baton Rouge . . .	77	-2	0	-.9	Youngstown . . .	63	-2	1.1	+5
Mobile . . .	75	-4	1.2	-.5	Lake Charles . . .	78	-2	.1	-.9	OKLA.Okla. City . . .	73	-2	.7	-1
Montgomery . . .	74	-4	.3	-.8	New Orleans . . .	77	-3	.4	-1.0	Tulsa . . .	74	-1	.1	-.9
ALASKA.Anchorage . . .	48	-3	.7	+1	Shreveport . . .	74	-5	T	-.7	OREG.Astoria . . .	61	+2	.2	-.3
Barrow . . .	35	+2	.1	0	MAINE.Caribou . . .	53	-3	.6	-.2	Burns . . .	57	-3	T	-1
Fairbanks . . .	44	-4	T	-.3	Portland . . .	57	-4	T	-.7	Medford . . .	66	0	T	-1
Juneau . . .	49	-2	1.5	0	MD.Baltimore . . .	69	-2	.5	-.3	Pendleton . . .	63	-3	T	-1
Kodiak . . .	52	0	3.0	+1.6	MASS.Boston . . .	64	-2	.3	-.5	Portland . . .	63	-1	T	-.3
Nome . . .	43	-2	.5	-.1	Chatham . . .	62	--	.5	--	Salem . . .	66	+3	T	-.3
ARIZ.Flagstaff . . .	58	-1	.4	0	MICH.Alpena . . .	63	+5	.9	+1	PA.Allentown . . .	55	-2	.1	-.8
Phoenix . . .	83	-3	.1	-.1	Detroit . . .	67	+1	1.2	+7	Erie . . .	64	+1	2.0	+1.2
Tucson . . .	77	-5	.3	-.3	Flint . . .	67	+4	1.1	+5	Harrisburg . . .	67	-2	1.6	+1.0
Winslow . . .	67	-6	.2	+1	Grand Rapids . . .	66	+2	.6	-.2	Philadelphia . . .	69	-1	.2	-.6
Yuma . . .	83	-7	0	-.1	Houghton Lake . . .	63	+4	.5	-.3	Pittsburgh . . .	62	-4	.4	-.2
ARK.Fort Smith . . .	69	-4	0	-.8	Lansing . . .	66	+2	.4	-.2	Scranton . . .	63	-2	.8	+1
Little Rock . . .	71	-2	.5	0	Marquette . . .	69	+10	1	-.7	R.I. Providence . . .	62	-3	.6	-.2
CALIF.Bakersfield . . .	80	-1	0	+5	Muskegon . . .	65	+2	.6	-.2	S.C.Charleston . . .	74	-3	.4	-.9
Eureka . . .	58	+1	.9	+9	S. Ste. Marie . . .	62	+5	.5	-.4	Columbia . . .	73	-3	0	-1.1
Fresno . . .	74	-1	0	+9	MINN.Duluth . . .	65	+9	1	-.7	Greenville . . .	69	-5	0	-.9
Los Angeles . . .	75	+2	2.3	+2.2	Internatl Falls . . .	64	+9	.3	-.5	S.D.Aberdeen . . .	67	+5	.8	+4
Red Bluff . . .	80	+2	0	+1.0	Minneapolis . . .	71	+9	.2	-.5	Huron . . .	68	+5	1.0	+6
San Diego . . .	76	+6	1.0	+1.0	Rochester . . .	68	+7	.1	-.7	Rapid City . . .	64	+1	.2	-.1
San Francisco . . .	68	+4	T	0	St. Cloud . . .	66	+6	.2	-.5	Sioux Falls . . .	69	+6	.3	-.4
Stockton . . .	77	+4	T	0	MISS.Jackson . . .	74	-4	1.9	+1.1	TENN.Chattanooga . . .	70	-4	.7	-.2
COLO.Denver . . .	64	-1	.3	0	Meridian . . .	71	-6	.5	-.3	Knoxville . . .	70	-4	.1	-.6
Grand Junction . . .	68	-1	.1	-.1	MO.Columbia . . .	69	-1	T	-1.0	Memphis . . .	71	-5	.2	-.5
Pueblo . . .	67	-1	.1	-.1	Kansas City . . .	69	-2	.3	-.4	Nashville . . .	67	-7	.5	-.3
CONN.Bridgeport . . .	66	-2	.2	-.5	St. Louis . . .	67	-4	0	-1.0	TEX.Abilene . . .	75	-3	.4	-.1
Hartford . . .	64	-1	.4	-.5	Springfield . . .	60	-1	.8	+4	Amarillo . . .	68	-4	.1	-.4
D.C.Washington . . .	71	-2	.4	-.4	MONT.Billings . . .	59	0	.1	-1	Austin . . .	80	-1	.1	-.7
FLA.Apalachicola . . .	77	-3	1.8	-.5	Glasgow . . .	58	-1	.3	0	Beaumont . . .	80	0	.8	-.5
Daytona Beach . . .	79	-1	1.6	-.1	Great Falls . . .	58	-1	.1	-.2	Brownsville . . .	83	0	.2	-1.0
Ft. Myers . . .	80	-2	.3	-1.9	Havre . . .	53	-5	.6	+4	Corpus Christi . . .	83	+1	T	-1.2
Jacksonville . . .	77	-2	4.4	+2.5	Helena . . .	53	-5	.6	0	Dallas . . .	--	--	--	--
Key West . . .	85	+1	.7	-1.0	Kalispell . . .	51	+1	.3	0	Del Rio . . .	81	-1	0	-.7
Lakeland . . .	81	0	1.4	-.1	Miles City . . .	63	-5	.4	+1	El Paso . . .	70	-6	.5	+2
Miami . . .	81	-1	1.4	-.6	Missoula . . .	53	-2	.4	+3	Fort Worth . . .	76	-4	1.6	+9
Orlando . . .	81	0	.6	-1.2	NEBR.Grand Island . . .	69	+4	.9	+3	Galveston . . .	81	0	1.3	-.1
Tallahassee . . .	77	-3	.1	-1.6	Lincoln . . .	72	+4	1.2	+6	Houston . . .	78	-3	T	-1.1
Tampa . . .	80	-2	1.4	-.3	Norfolk . . .	69	-3	0	0	Lubbock . . .	71	-2	2.5	+2.0
W.Palm Beach . . .	81	-1	1.3	-.9	N.Platte . . .	62	+5	.1	-.7	Midland . . .	73	-4	.5	+1
GA.Atlanta . . .	70	-4	.1	-.7	Omaha . . .	71	+2	.1	-.4	San Angelo . . .	74	-5	1.3	+7
Augusta . . .	73	-3	.4	-.4	Valentine . . .	66	-2	.4	+3	San Antonio . . .	80	-1	0	-.9
Macon . . .	73	-5	.1	-.7	NEV.Ely . . .	57	-4	.4	+5	Victoria . . .	81	0	1.6	+4
Savannah . . .	75	-3	1.7	+3	Las Vegas . . .	78	0	.6	+4	Waco . . .	79	-2	T	-.8
HAWAII.Hilo . . .	77	+1	1.3	-.3	Reno . . .	62	0	.5	+5	Wichita Falls . . .	75	-4	T	-.7
Honolulu . . .	82	+1	.1	0	Winnemucca . . .	65	+4	.6	+4	UTAH.Blanding . . .	62	-3	.3	+1
Kahului . . .	79	0	T	0	N.H.Concord . . .	57	-5	1.2	0	Salt Lake City . . .	65	-2	.1	0
Lihue . . .	--	--	--	--	N.J.Atlantic City . . .	65	-4	.7	0	VT.Burlington . . .	57	-4	1.5	+7
IDAHO.Boise . . .	61	-4	1.7	+1.6	Trenton . . .	68	-1	.3	-.5	VA.Lynchburg . . .	65	-5	.2	-.6
Lewiston . . .	64	-1	T	-.2	N.MEX.Albuquerque . . .	72	0	1.1	+7	Norfolk . . .	70	-4	1.0	-.1
Pocatello . . .	59	-3	.3	+2	Roswell . . .	72	0	1.1	+3	Richmond . . .	67	-5	.8	-.1
ILL.Cairo . . .	70	-4	.4	-.5	N.Y.Albany . . .	60	-4	1.1	+1	Roanoke . . .	66	-4	.1	-.7
Chicago . . .	69	+1	.7	0	Binghamton . . .	59	-3	.8	-.4	WASH.Colville . . .	55	-6	.1	-.1
Moline . . .	68	+1	.2	-.7	Buffalo . . .	63	-1	.4	+1	Omak . . .	56	-9	T	-.1
Peoria . . .	66	-1	.1	-.7	New York . . .	69	-1	1.3	-.4	Quillayute . . .	57	-1	.2	-.7
Rockford . . .	65	0	.6	-.4	Rochester . . .	64	0	.5	+5	Seattle-Tacoma . . .	62	+1	.2	-.2
Springfield . . .	68	-1	.7	-.1	Syracuse . . .	62	-3	1.1	-.6	Spokane . . .	57	-5	.1	-.2
IND.Evansville . . .	67	-4	.4	-.3	N.C.Asheville . . .	64	-5	.3	-.8	Walla Walla . . .	64	-4	.1	-.1
Ft. Wayne . . .	64	-2	1.2	+6	Charlotte . . .	71	-3	T	-.8	Yakima . . .	58	-5	0	-.1
Indianapolis . . .	65	-3	1.0	+3	Greensboro . . .	67	-5	.1	-.8	W.Va.Beckley . . .	61	-4	.7	-.1
South Bend . . .	66	0	1.2	+5	Hatteras . . .	69	-6	1.8	+4	Charleston . . .	65	-5	.8	+1
IOWA.Burlington . . .	67	0	.3	-.6	Raleigh . . .	69	-4	2.8	+1.8	Huntington . . .	65	-5	.7	0
Des Moines . . .	70	+4	.1	-.7	Wilmington . . .	73	-3	1.8	+4	Parkersburg . . .	65	-4	.2	-.5
Dubuque . . .	65	+2	.1	-1.0	N.DAK.Bismarck . . .	63	+3	.1	-.3	Parkersburg . . .	67	+6	T	-.8
Sioux City . . .	70	+5	.2	-.5	Fargo . . .	68	+8	.5	0	WIS.Green Bay . . .	69	+5	T	-.8
KANS.Concordia . . .	72	+2	.5	-.3	Williston . . .	61	+2	1	-.2	La Crosse . . .	65	+3	T	-.8
Dodge City . . .	72	0	T	-.4	OHIO.Akron-Canton . . .	62	-4	1.2	+6	Madison . . .	69	+6	.9	+2
Goodland . . .	67	0	T	-.8	Cincinnati . . .	64	-2	.5	-.1	Milwaukee . . .	58	-3	.3	+1
Topeka . . .	70	0	T	-.8	Cleveland . . .	64	-2	.6	-.1	WYO.Casper . . .	58	-2	.5	+2
Wichita . . .	71	-2	.3	-.6	Columbus . . .	63	-4	.5	-.1	Cheyenne . . .	60	-1	T	-.2
NY.Lexington . . .	65	-6	.6	-.1	Dayton . . .	63	-5	.2	-.4	Lander . . .	58	-2	.6	+3
Louisville . . .	63	-8	.3	-.4	Toledo . . .	65	-1	.5	-.1	Sheridan . . .	58	-2	.6	+3
										P.R.San Juan . . .	84	+2	1.7	+2

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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: Record low temperatures; average 5° below normal.

Scattered showers slowed maturity of most crops. Harvest of corn and peanuts advanced slowly. Cotton fair to good, bolls open 6% of acreage, 11% 1975, 16% average. Start of harvest delayed. Corn good condition, 26% harvested, 24% 1975, 14% average. Soybeans good to fair condition, 19% mature, 9% last year. Harvest to begin soon. Peanut harvest continues, 13% combined. Pastures adequate.

ALASKA: Tanana Valley cool and cloudy. Rainfall light to moderate. Widespread frost early week. Matanuska Valley temperatures slightly below normal, mostly cloudy. Precipitation light to moderate. Frost common 5th and 6th. Kenai Peninsula cloudy, cool and wet with above normal rainfall. Kodiak temperatures seasonable under mostly cloudy skies. Rainfall below normal.

Harvesting of all crops continued throughout Tanana and Matanuska Valleys. Crop yields generally below average except where irrigated. Topsoil moisture generally short. Subsoil moisture short to adequate in Tanana Valley but very short in Matanuska Valley.

ARIZONA: Cool with scattered showers. Heaviest rainfall extreme west, 1.00-2.00 in. along Colorado River. Storms in west from tropical storm. Temperatures 3 to 6° below normal.

Turbulent weather southwest damaged cotton fields. Other areas, progress normal. Yuma sorghum fields damaged by winds, rain. Other areas, good progress. Hay baling temporarily discontinued. Lettuce planting, weeding, thinning, irrigation underway. Grapefruit, oranges progressing normally, damaged by storm. Range conditions unchanged; desert ranges poor to fair. Stock water supplies adequate higher elevations, short to adequate desert. Supplemental feeding necessary desert. Livestock mostly good condition.

ARKANSAS: Temperatures 2 to 8° below normal. Extremes: 94 and 34°. Precipitation variable, greatest amount 2.12 in. at Marianna.

Soybeans mostly fair condition. Early harvest underway. Cotton mostly fair condition. Open bolls 4% of acreage, 13% last year. Insect levels below normal. Rice harvest 3% complete, 14% year ago. Corn harvest over 33% complete. Sorghum harvest 21% complete, 39% last year. Few more fields seeded to wheat and oats. Hay condition improved. Rain enhanced chances for final cutting. Pastures short. Hay feeding continued to supplement short pastures.

CALIFORNIA: Temperatures 3 to 5° above normal. Light rains and below freezing temperatures briefly in extreme north. Tropical storm Kathleen brought southern half heavy rains 10th. Warm weather improved crops. Damage desert from weekend rain and thunderstorms. Rice fields drained. Sugarbeet harvest full swing. Rain in desert damaged newly planted sugarbeets. Milo fields headed. Alfalfa hay seed harvest continues. Cotton doing well; defoliation start shortly. Corn nearing harvest. Dry bean harvest continues. Recent rain expected cause mold damage raisins. Olive harvest begun. Peach,

prune, harvests nearing completion. Harvesting early varieties walnuts. Processing tomatoes in Sacramento Valley suffered set back with weekend rain. Most other vegetables unaffected. Good weather for cool season type vegetables. Flooding and heavy rains in desert valleys washed out some new lettuce acreage. Rains improve pasture. Supplemental feeding and culling continues. Water supply fair to poor.

COLORADO: Temperatures near normal except dropped to 50° 8th. Rain 0.25 northeast, 0.25 to 1.00 in. mountains.

Winter wheat seeding 36%, 37% average, 53% 1975; emergence 12%, equal average, 14% 1975. Sorghum 74% turned color, 3% ripe. Corn condition good; dough 90%, 92% 1975, dented 61%, 67% 1975. Silage cut 20%. Dry beans windrowed 57%, 37% 1975, 39% average; combined 19%, 15% 1975, 12% average. Sugarbeet condition good to very good. Fall potato harvest start next week San Luis Valley. Alfalfa condition good, third cutting 49%, fourth started. Soil moisture very short. Range, pasture condition fair, except poor east central. Peach, pear harvest nearly complete. Vegetable harvest active.

FLORIDA: Partly cloudy, scattered thundershowers early. Temperatures near normal becoming below normal over weekend. Some record lows set over Panhandle 11th. Rainfall generally moderate except locally heavy along east coast.

Soil moisture mostly adequate, but surplus along Panhandle coast and upper east coast. Corn harvest nearing completion. Peanut harvest active, some interruptions by showers. Tobacco marketing practically complete. Soybeans fair to good condition. Cotton fair condition. Hay harvest continues. Sugarcane good condition, cutting for seed active. Grazing conditions mostly good. Pastures in Panhandle vary considerably. Peninsular pastures mostly good, some low-lying areas oversaturated. Cattle, calves mostly good condition except fair to good Panhandle. Citrus groves continue excellent; abundance new growth. Moisture adequate. Little early orange splitting. Grapefruit harvest start this week. Vegetable plantings continue active for fall crop, nearly all areas underway. Most crops remain in good condition, though heavy rains necessitated some spot resetting. Fieldwork very active.

GEORGIA: Rainfall heaviest south and central. Northern third amounts well under 1.00 in. Temperatures 1 to 3° below normal ranging from 68° extreme northeast to 79° extreme south.

Soil moisture extremely variable, northeast and east central very short, southern part adequate to excessive, others mixed. Fieldwork: 4.0 days suitable. Cotton slightly weaker, mostly fair to good, 17% open. Peanuts fair to good, harvest continues, 24% dug, 18% threshed, last year 40% and 26%. Average 41% and 29%. Corn fair to mostly good, slightly improved. Grain harvest active southern half, 41% harvested, last year 25%, average 12%. Soybean condition fair to good, more moisture needed northern half. Tobacco marketing ended last week. Hay crop condition mostly fair to good. Pastures fair to good. Apples fair to mostly good, harvest very active. Pecans mostly fair to good.

HAWAII: Weather favorable, Skies clear to partly cloudy. Few scattered showers mainly higher elevations.

Spraying for insect and disease control. Irrigation continuing all sections. Vegetable supplies adequate. Banana supplies getting plentiful. Papaya supplies light. Sugar harvesting steady. Pastures leeward area dry however dry feed available. Windward pastures fair to good. Moisture sufficient.

IDaho: Below normal temperatures brought frost. Extremes: 98 and 19°. Precipitation 0.95 in. Grangeville.

Harvest proceeds rapidly. Ripening remaining. Grain speeded by frost and good weather.

Harvest 1976 1975: Winter wheat 85%, 75%; spring wheat 70%, 70%; barley 70%, 65%; dry beans 50%, 45%.

ILLINOIS: Temperatures 1 to 2° above normal northern third; 1 to 4° subnormal southern two-thirds. Precipitation 0.10 to 3.00 in.; some thunderstorms.

Corn 1% excellent, 45% good, 46% fair, 8% poor; 92% reached dent, 100% 1975, 90% average; 65% mature, 89% 1975, 62% average. Soybeans 1% excellent, 41% good, 51% fair, 7% poor; 77% turning yellow, 86% 1975, 59% average; 45% shedding leaves, 55% 1975, 27% average; 5% combined, 7% 1975, 3% average. Winter wheat acreage 75% plowed, 82% 1975, 86% average. Third crop alfalfa hay fair; 85% cut, 79% 1975, 76% average. Pastures fair to poor. Soil moisture short. Fieldwork: 6.0 days suitable.

INDIANA: Rainfall from 0.50 to 2.30 in.; large areas reported 0.80 to 1.30 in. Temperatures ranged 40 to 92°, near normal. Sunshine 83% of possible, much above normal. Humidity 8% below normal.

Fieldwork: 6 days suitable. Topsoil and subsoil moisture mostly short to adequate. Corn 30% mature, 1975 35%, average 20%. Corn 85% dented. Soybeans 5% mature; 35% shedding leaves, 35% in 1975. Wheat land 55% plowed, 1975 and average 60%. Wheat 5% seeded, same as 1975 and average. Rye 10% seeded. Tobacco 50% harvested, 1975 30%, average 35%. Apples 50% picked, 1975 40%, average 30%. Silos 30% filled, 1975 40% filled. Pastures declined, mostly poor to fair.

IOWA: Drought intensified by warm dry weather. Light frost in lowlands. Dry weather continued, scattered showers fell in some areas.

West central and northwest remain under drought conditions. Fieldwork: 7 days suitable. Rapid drying and maturing of corn and beans continues. Beans filling poorly and corn ears short and very light. Cutting silage well underway. Corn condition 3% excellent, 31% good, 39% fair, 27% poor. Virtually all corn in or past dent, 87% 1975, 96% average. Corn in mature stage 74%, 57% 1975, 39% average. Soybean condition 1% excellent, 29% good, 51% fair, 19% poor. Leaves turning 87%, 56% 1975, 43% average; leaves shedding 46%. Soybeans in mature stage 32%. Third cutting alfalfa 88% harvested, 62% 1975, 66% average. No third crop dry areas. Topsoil and subsoil moisture short. Pastures short. Hay regrowth slow. Livestock in good condition with supplemental feeding of hay and chopped corn.

KANSAS: Locally beneficial moisture west and central with little significant moisture east, southwest and extreme west. Temperatures 70° northwest, 71 to 73° elsewhere or 1 to 2° above

normal north to 3° below normal southeast.

Some scattered showers particularly northwest, west central and north central. Subsoil moisture still short. Corn 80% dented, same as average and last year; 50% mature, same as last year, 45% average; 10% harvested, same as last year, 5% average. Harvesting taking place on dryland fields east. Sorghum 60% turning color, same as last year, 55% average; 20% mature, same as last year, 15% average; 5% harvested, same as last year, slightly above average. Harvesting in east. Winter wheat seeding 5% complete, same as last year, average 10%. Fourth cutting of alfalfa 30% complete, 15% last year, 25% average. New seeding of alfalfa 35% complete, 65% last year, 60% average.

KENTUCKY: Precipitation little over 0.50 in. in showers late 7th and 8th. Temperatures 5° below normal.

Fieldwork: 5.0 days favorable. Soil moisture adequate. Main activities tobacco, hay and silage harvest. Burley 74% cut, 61% last year and 51% average. Dark tobaccos 72% cut, 57% last year and 54% average. Corn maturing normally, 33% mature, 54% dented but not mature, 13% dough or earlier. Soybeans maturing slowly, 60% leaves entirely green, 29% turning yellow and 11% shedding. Fall plowing 19% complete. Fall wheat seeding 5% complete. Pasture condition good.

LOUISIANA: Temperatures below normal. Rainfall light.

Soil moisture short to adequate. Fieldwork: 5 days suitable. Cotton mostly fair; open bolls 15%, 8% last year. Insect control active. Rice 89% ripe; 77% harvested, 66% year ago, 73% average. Soybeans fair to good, 31% turning color, 13% dropping leaves, limited harvest. Sugarcane fair to good, 43% planted, borer damage light. Corn 55% harvested, 53% year ago. Sorghum 66% ripe, 27% harvested. Sweetpotatoes fair to good; 31% dug, 28% last year. Pecan crop light. Hay, pastures fair. Livestock fair to good.

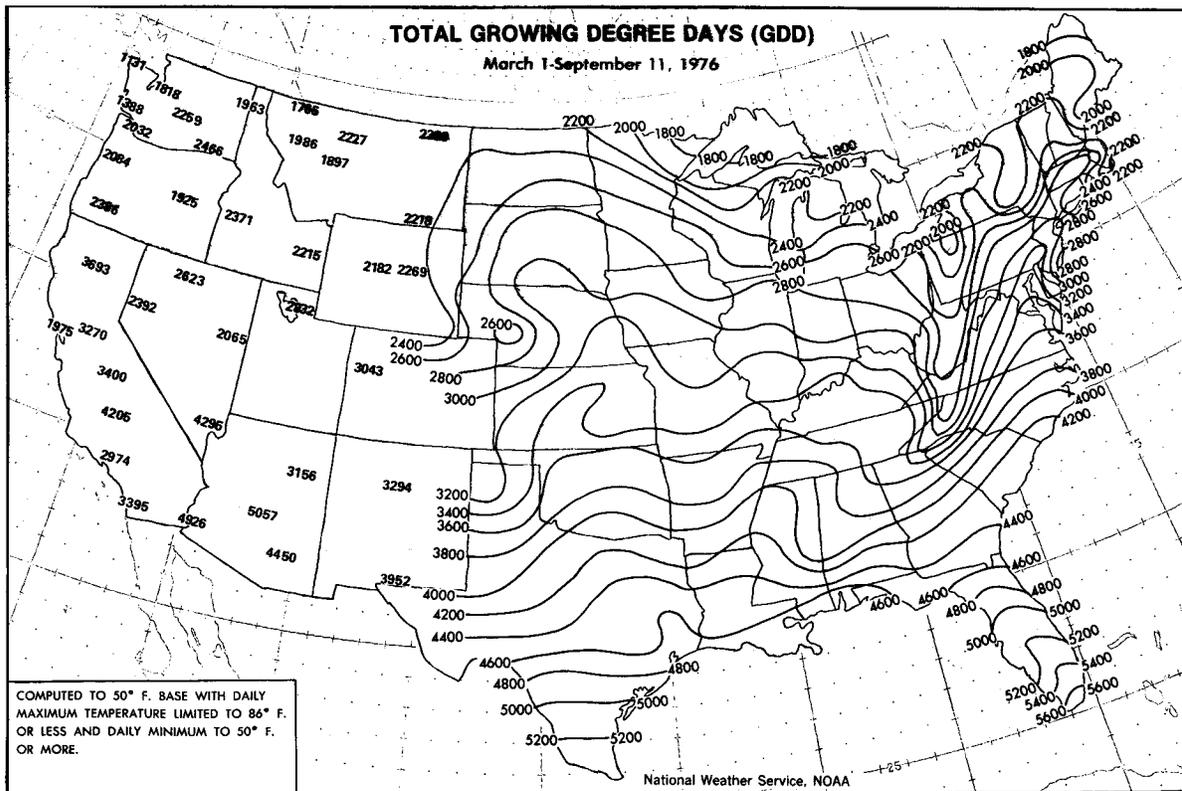
MARYLAND & DELAWARE: Temperatures 1° below normal with warm days and cool nights. Extremes: Low 90's, low 40's. Precipitation 0.25 in. in north; 1.50 in. on lower Eastern Shore.

Soil moisture supplies short. Pastures supplying below average amounts feed. Corn 65% mature; 60% 1975, 53% average. Corn for silage 50% harvested; 44% 1975, 43% average. Corn for grain 15%, 12% 1975, 7% average. Soybeans 30% yellowed, 20% 1975, 14% average. Tobacco harvest in full swing, 80% harvested, 70% 1975, 73% average. Fall apple harvest underway. Seeding small grain started.

MICHIGAN: Temperatures ranged from 98° south to 30° extreme north. Precipitation general, ranging from 0.06 in. extreme north to 1.36 in. southeast Lower.

Soil moisture short. Light frost southeast Lower. Corn 65% dent, 15% mature. Silage 25% cut. Oat harvest complete. Dry beans 35% harvested, 40% shedding leaves. Soybeans 25% shedding leaves, 55% turning color. Potato harvest over 30% complete, same as normal. Third cut hay 45%, 25% normal, 20% 1975. Pasture feed supplies short, much supplemental feeding. Summer apples 95% picked, 70% normal, 95% 1975. Peaches over 90%, pears and plum harvest active. Cabbage over 50%, sweet corn 85%, tomatoes 70% harvested.

MINNESOTA: Temperatures 8° above normal. Extremes: 102 and 29°. Record highs established



7th. Precipitation much below normal, averaged 0.10 in. east to 0.44 in. west central. Growing season precipitation departure: 7.00 in. below normal east to near 10.00 in. below normal west. Row crops rapidly maturing. Harvesting soybeans, sugarbeets, fall potatoes on a limited basis. Harvesting fall potatoes to be in full swing soon. Short moisture supplies delay fall seeding winter wheat and rye. Most corn crop mature. Dry edible bean harvest getting underway, few sunflower fields combined. Corn 55% mature, 1975 30%, normal 33%; corn silage 66% cut, 1975 34%, normal 24%. Soybeans 84% shedding leaves and beyond, 1975 55%, normal 41%; mature 26%, 1975 13%, normal 10%. Flax 82% combined, 1975 57%, normal 60%. Winter wheat 35% seeded, 1975 70%, normal 61%. Rye 29% seeded, 1975 72%, normal 59%. Sweet corn pack 95% completed. Potato harvest 21% completed, 1975 17%, normal 12%.

MISSISSIPPI: Temperatures 3° below normal. Extremes: 55 and 95°. Soil moisture mostly adequate. Fieldwork: 3.1 days suitable. Cotton 25% open bolls, 20% 1975, 19% average. Soybeans 95% podding, 95% 1975; 35% turning, 33% 1975; 10% shedding, 14% 1975. Rice 95% headed, 90% 1975, 16% ripe, 39% 1975. Corn 81% mature, 42% 1975; 12% harvested, 6% 1975, 12% average. Sorghum 67% ripe, 44% 1975; 30% harvested, 20% 1975, 29% average. Hay crops 78% harvested, 75% 1975, 75% average. Peanuts 37% harvested, 40% 1975, 27% average. Sweetpotatoes 20% harvested, 41% 1975, 34% average. Cotton in fair condition. Other crops in fair to good condition.

MISSOURI: Temperatures normal west central plains and 1 to 3° below normal elsewhere. Trace precip-

itation west central plains, 0.25 in. to 0.75 in. elsewhere.

No significant improvement of soybean and corn condition. Fieldwork: 6.2 days suitable. Soybeans setting pods, 93%, 96% 1975, 92% normal. Soybeans mature 11%, 12% 1975. Corn 90% dented, 94% 1975. Corn 41% mature, 77% 1975, 45% normal. Corn 10% harvested, 15% 1975, 6% normal. Grain sorghum 95% headed, 94% normal. Grain sorghum 28% mature, 60% 1975, 43% normal. Cotton 9% bolls open, 32% 1975, 16% normal. Third cutting alfalfa hay 87% complete, 88% 1975, 88% normal. Soybean condition poor to fair. Corn condition poor to fair. Cotton fair. Pastures poor. Soil moisture short.

MONTANA: Temperatures averaging near normal central and east to 5° below normal west. Rainy, cool weather early week. Frost midweek with hard freeze central and west. Slow warming 10th, cooler with showers 11th, windy and showers ending 13th.

Winter wheat seeding active, 25% complete, 15% last year, 10% normal. Soil moisture shortages and grasshoppers delaying seeding many locations north central. Grain harvesting in wind-up. About 5% spring wheat and 10% barley and oats not combined. Corn silage chopping well underway, now 40% done. Frost last week halted growth. Dry bean combining 50% done and second cutting alfalfa 85% done. Range feed supplies adequate. About 15% all livestock moved from summer ranges.

NEBRASKA: Temperatures 3 to 25° below normal middle of period, otherwise, 1 to 24° above normal. Rainfall, mostly midweek, greatest amount central, northeast and east.

Wheat seedbed preparation continues. Topsoil moisture short. Subsoil moisture short. Irrigated corn good, dryland corn poor condition. Corn 45% mature, 30% normal and 35% 1975. Corn harvest for grain begun. Silage harvest continues. Sorghum and soybeans fair condition. Sorghum 40% ripe, 20% normal and 30% 1975; 5% harvested, 0% normal and 1975; 60% soybean leaves turned, same as normal, 1975 65%; 30% shed leaves, normal and 1975 20%. Alfalfa and wild hay poor to fair condition. Third cutting alfalfa practically complete. Pasture and range feed short. Supplemental feeding on dry pastures increasing with some culling.

NEVADA: Unseasonably wet with mild temperatures. Precipitation beginning and end of week, midweek generally dry. Rainfall ranged from 0.24 in. to 1.65 in. Extremes: 103 and 23°.

Harvesting alfalfa hay ranged 3d cuttings west to 6th crop extreme southern valleys. Livestock movement slow.

NEW ENGLAND: Delightful, late summer weather. Numerous showers and thundershowers, rainfall totaled 0.25 in. near coast to 1.50 in. north and west. Temperatures mild, near seasonal normals.

Weather favored haying and other outdoor work. Large amounts excellent quality 2d crop hay cut. Aroostook County, Maine potato growers top-killing vines. Wet fields limited early harvesting. Apple crop sizing and coloring well, McIntosh picking underway. Corn silage harvest underway south and on frosted fields in north. Vegetable supplies abundant, sweet corn tapering off.

NEW JERSEY: Temperatures 3 to 4° below normal. Extremes: 34 and 92°. Rainfall 0.19 in. north, 0.36 in. central and 0.54 in. south.

Soil moisture short. Irrigating. Fall vegetable harvest increasing. White potato harvest continues. Sweetpotato harvest begun. Peach harvest about complete. Field corn and soybeans need rain. Soil preparation and seeding of small grains and cover crops continue.

NEW MEXICO: Extensive heavy cloudiness and general rains; more than 3.00 in. at Carlsbad and over 2.00 in. at Deming.

Soil moisture adequate south, short to adequate north. Ranges good south, fair to good north, livestock good. Cotton fair to good, boll setting complete in major areas. Boll openings range from 2 to 20%. Alfalfa good, rain damaged some hay, hampered harvest, most of fourth cut complete south and fifth cut started. Irrigated grain sorghum and corn good. Sorghum well advanced heading. Corn completed dough stage. Corn and sorghum silage harvest continued. Winter wheat, barley seeding proceeded slowly. Apple and chili harvest continued.

NEW YORK: Temperatures within 3° of normal. Extremes: 90 and 26°. Above normal rainfall many areas.

Good progress fieldwork. Second cutting alfalfa 90%, third 50%. Quality better than first cutting. Oat harvest in late stages. Cool weather slowing corn maturity. Potatoes going into storage. Sweet corn about 80% harvested. Dry fields limiting development of cabbage and beets. Cucumber yield poor. McIntosh harvest underway Hudson Valley and western areas. Bartlett pear and peach harvest about complete. Harvest of Aurora grapes underway Finger Lake area.

NORTH CAROLINA: Precipitation light until end when some heavy thundershowers occurred. Temperatures averaged slightly above normal.

Fieldwork: 5.8 days suitable. Soil moisture very short to short. Rain did not ease drought and crops continued to deteriorate. Corn averages fair to good, mostly good in major producing coastal plains. Soybeans, peanuts, cotton, sweetpotatoes, sorghum mostly fair. Apples mostly good. Corn for grain 38% harvested, 21% 1975, 24% average. Corn for silage 63% cut. Mostly fair burley tobacco crop 61% harvested, 51% 1975. Sweetpotatoes nearly 10% harvested, 17% 1975. Apples 43% picked, 31% 1975, 34% average. Peanut and cotton harvest to start soon.

NORTH DAKOTA: Temperatures 4° above normal south central to 10° above normal east central. Extremes: 103 to 30°. Precipitation 0.42 in. below normal northeast to 0.13 in. above normal east central. Weekend brought small amount much needed rain.

Combining small grains virtually complete. Potato digging and sugarbeet lifting beginning. Cutting corn for silage, combining flax, soybeans and dry edible beans continuing. Moisture supplies short. Pastures and ranges poor.

OHIO: Near or above normal temperatures with below normal 6th and 10th. Extremes: 92 and 39°. Northwest, west central, and portions of east central remain dry. Precipitation ranges 0.19 in. southeast to 1.22 in. northeast.

Crops in good to excellent condition. Corn and soybean harvest began in scattered fields. Corn 50% mature, 50% 1975 and 30% normal. Soybeans 40% shedding leaves, 45% 1975 and 35% normal. Soybeans 15% mature, 15% 1975 and 10% normal. Harvest completion: Corn silage 35%, 40% 1975 and 30% normal; alfalfa 85%, 70% 1975 and 65% normal; tobacco 65%, 55% 1975 and 45% normal; red clover seed 70%, tomatoes 60%, apples 25%. Percent of intended fall acreage planted: Wheat 10%, barley 15%, rye 10%. Soil moisture short to adequate. Fieldwork: 6 days suitable.

OKLAHOMA: Temperatures 1 to 5° below normal rainfall 0.06 in. Panhandle to 1.10 in. southeast. Weekend mild with very scattered to very heavy rain.

Light rain did little to ease dry topsoil condition but combined with cooler temperatures which helped crop condition. Wheat planting 3% complete, average 10%. Most fertilizer applied. Corn harvest 15% complete, ahead of 11% average. Sorghum late planted showing effect of dry weather, near 40% mature or past. Cotton in fair condition, few early bolls open. Later than 12 percent average. Peanuts improved by showers. Seven percent mature. Soybeans mostly good with 80% setting pods, none mature compared with 86% average. Pastures and range greening some. Cattle good condition. Marketing moderate.

OREGON: Temperatures northwest cool early week. Warming trend brought temperatures up 2 to 4° above normal except eastern north central below normal. Extremes: low 90's, 40's west; low 90's, high 20's east. Light to moderate precipitation northwest. Dry weather elsewhere except showers over northwest mountains.

Nearly all fall grain harvested. Most grain harvesting at higher elevations. Third cuttings of alfalfa made. Fall land preparation continues. Anjou pears being harvested. Elberta peaches

being picked. Prunes being picked. Sweet corn, onions and potatoes being harvested. Range and pastures in good condition. Livestock in good flesh.

PENNSYLVANIA: Sunny, dry and cool beginning and end. Warm midperiod with showers and thunderstorms. Temperatures mostly 40's to 80's averaging near to several degrees below normal. Extremes: 33 and 92°. Rainfall 1.00 to 1.50 in. extreme northwest and through much of Susquehanna Valley but less than 0.50 in. southwest and southeast. Elsewhere 0.50 to 0.75 in.

Fieldwork: 6.0 days suitable. Soil moisture short. Activities: Plowing; haymaking; filling silos; harvesting potatoes, tobacco, apples and vegetables. Tobacco cut 76%, last year 44%. Potatoes 40% dug, 39% in 1975; need rain for sizing. Corn 47% dent, 8% mature, last year 55% dent and 15% mature. Ensilage harvest 19%, last year 22%. Plowing 53%, 45% in 1975. Barley and wheat 33% sown. Alfalfa third cut 72%. Clo-tim second cut 84%. Hay quality mostly good. Feed from pastures below average, needs rain.

PUERTO RICO: Island average rainfall 2.24 in. or 0.47 in. above normal. Temperatures averaged about 81° on coasts and 76° interior. Extremes: 93 and 59°.

Sugarcane ratoons and new plantings progressing well due recent rains although more rains needed mostly south coastal areas. Fertilization and cultivation main activities. Recent rains have not helped coffee bean development. Harvest prospects poor due to drought. Soil preparation tobacco planting continues. Pastures recuperating due recent rains. Food crop plantings active where it rained and developing well but affected by dry conditions other areas.

SOUTH CAROLINA: Temperatures near normal. Trend toward cooler end of week. Extremes: 94 and 41°. Widely scattered thundershowers northwest, southern sections, remainder dry.

Rain still needed. Soil moisture very short to adequate. Insect problem in soybeans; spraying continues. Armyworms still problem in coastal bermunda fields. Corn harvest continues. Sorghum harvest beginning. Crop conditions: poor to fair - pastures, pecans; fair - soybeans, grapes, fall vegetables; good - apples. Cotton open bolls 40% 1976, 1975, 30% average. Corn harvested 55% 1976, 38% 1975, 26% average. Soybeans setting pods 90% 1976, 86% 1975, 86% average. Apples harvested 53% 1976, 62% 1975, 58% average.

SOUTH DAKOTA: Showers midweek, heaviest east, to 2.00 in. Moisture deficits from 5.00 to 12.00 in. east. Temperatures to 7° above average. Extremes: 27 and 108°.

Rains spurred winter wheat seeding to 35% complete, 1975 57%, normal 44%. More rain needed to get crop up and growing. Rye seedings also lagging, 15% complete, 1975 59%, normal 40%. Corn silage operations continuing, some fields too short for silage being grazed. Corn for grain 96% in dent or past, 1975 85%, normal 86%; mature 55%, 1975 41%, normal 53%. Soybeans maturing rapidly, 74% shedding leaves, 1975 47%, normal 52%. Sorghum, 81% showing color, 1975 71%, normal 73%. Operations delaying plowing due to dry soil to prevent blowing. Topsoil moisture short. Calves weaned early due to feed shortage. Heavy hay imports. Cattle sales and movements continue.

TENNESSEE: Widely scattered showers west less than 0.25 in. early week. Rainshowers end week 0.25 to 0.50 in. Temperatures 4 to 5° below average.

Showers boosted crops, but more moisture needed, especially for soybeans, cotton, and late planted corn and vegetables. Pastures improved but still short. Fieldwork: 4.9 days suitable. Soil moisture short to adequate. Corn 93% dented, 95% last year, 92% average; 35% mature, 55% last year, 50% average. Cotton 10% open boll stage, 20% last year and average. Soybeans 90% setting pods, 95% last year and average. Burley tobacco 85% harvested, 70% last year and average. Fall plowing 48% completed, 45% last year, 52% average. Wheat 10% seeded, 10% last year, 15% average. Oats 15% seeded, 15% last year, 20% average. Barley 10% seeded, 15% last year, 20% average.

TEXAS: Rainfall Panhandle, South Plains above normal, Trans-Pecos, Upper Gulf Coast normal, remainder well below normal. Temperatures near, slightly above normal south, 2 to 6° below normal elsewhere.

Cotton harvest progressed rapidly central, slowed in Blacklands by showers. Harvest 7% complete, 14% 1975, 12% average. Sorghum harvest 55% complete, 61% 1975, 54% average. Combining on low plains progressed well, began on high plains. Corn harvest 32% complete, 30% last year, 40% average. Peanut harvest 20% complete, 27% 1975, 30% average. Rice harvest 99% complete, 97% 1975, 83% average. Wheat planting 10% complete, 13% 1975, 27% average.

Vegetable: land preparation, seeding resumed following recent rains. Citrus harvest to begin shortly. Harvest tomatoes, okra, watermelons, peas, cucumbers, onions, squash continues.

Ranges average to good northern High Plains need rain. Armyworms increase north, central, east. Cattle generally good.

UTAH: Scattered showers, and thunderstorms, more general activity over weekend. Accumulated moisture generally light to moderate but locally heavy with some flash flooding. Temperatures range from 2° below normal northwest to 5° below south.

Peach and pear harvest in progress. Winter wheat planting in progress. Corn for silage harvest just starting. Alfalfa 3rd crop 20 to 25% harvested. Some small grain harvest continues. Livestock fair to good. Ranges generally dry. Very little cattle or calf movement to market.

VIRGINIA: Temperatures near normal. Extremes: 97 and 38°. Showers generally on 10th averaged about 0.63 in.

Fieldwork: 5.5 days suitable. Topsoil moisture short. Corn 71% of normal. Corn silage harvest very active. Harvest for grain increasing. Soybean condition dropped to 66% of normal. Armyworms and corn earworms still problem. Peanut conditions declined further to 77%. Getting harvest machinery ready. Tobacco harvest progress: Flue-cured 72%, 1975 77%; fire-cured 73%, 1975 76%; burley 67%, 1975 63%; sun-cured 56%, 1975 61%. Flue-cured marketing active. Hay and pasture still declining. Apple harvest fall varieties moving ahead. Land for fall seeding of small grains being prepared. Very limited seeding due extremely dry soils.

WASHINGTON: West: Temperatures 1 to 3° below normal. Precipitation normal to 0.3 in. below.

Grain harvest near end; much lodged, some sprout damage. Fall pasture in good shape. Potato harvest beginning. Blight damage evident. Sweet corn, cucumbers, zucchini, beans, beets, carrots and cabbage harvested in abundance.

East: Temperatures 2 to 6° below normal. Precipitation near normal.

D'anjou pear harvest continues north central. Weather ideal for apples, quality good, size down. Alfalfa third cutting near complete. Wheat harvest moving rapidly. Quality good. Farmers prepared seedbeds, some have seeded. Harvest of potatoes, dry beans, corn silage, red clover seed and alfalfa seed active.

WEST VIRGINIA: Temperatures 2 to 6° below normal. Precipitation near normal, showers last of week.

Farmwork: 5.3 days suitable. Haying, filling silo and clipping pasture most active. Soil moisture short. Burley tobacco 70% harvested. Potatoes 71% dug, 51% 1975, 61% average. Second haying 82% complete, 81% average. Third haying 33%. Corn good to fair. Livestock good condition.

WISCONSIN: Temperatures 3° above normal. Highs in 90's 7th and 8th. Cold front 8th brought relief from heat along with scattered showers. Rainfall light and spotty, only southeast had

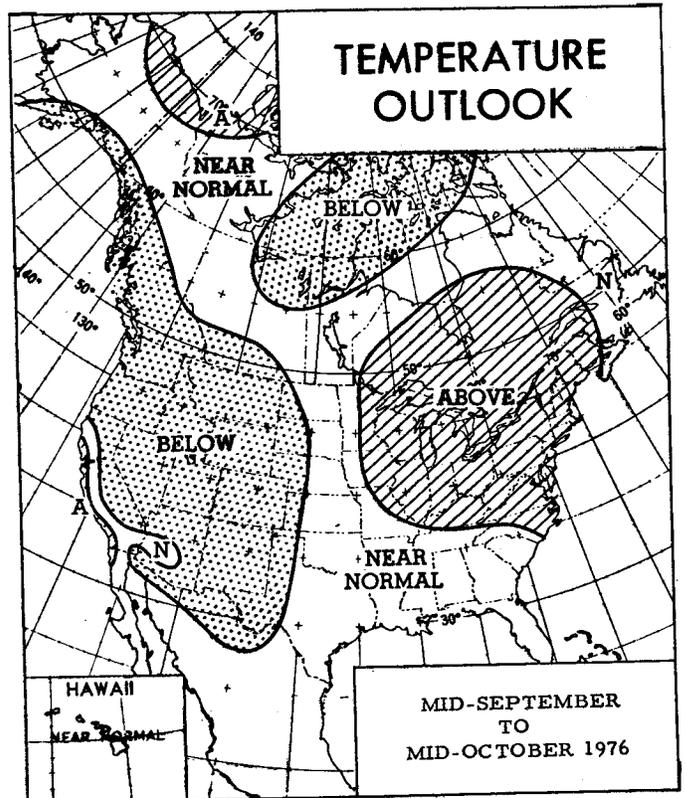
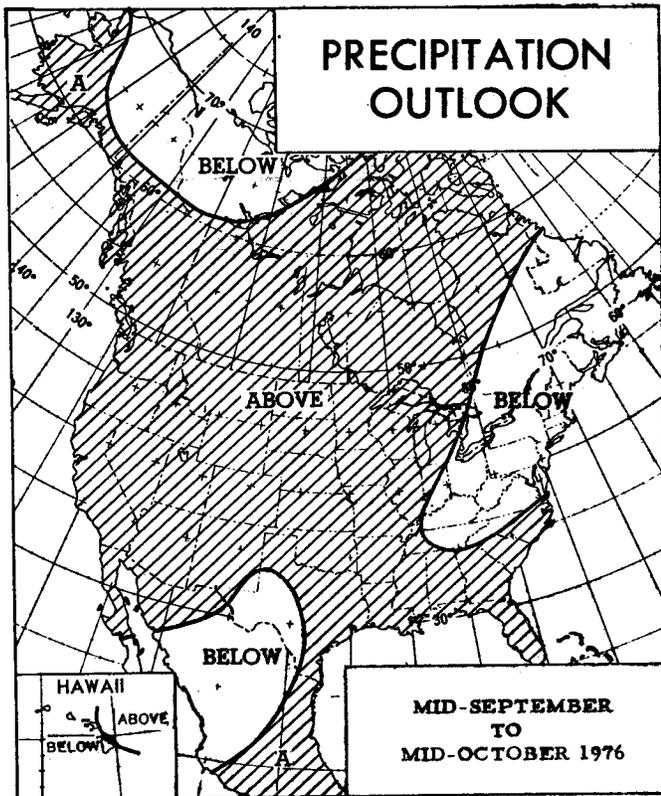
significant amounts of 0.50 in. Cooler temperatures in 70's until weekend when readings back to mid-80's and strong winds.

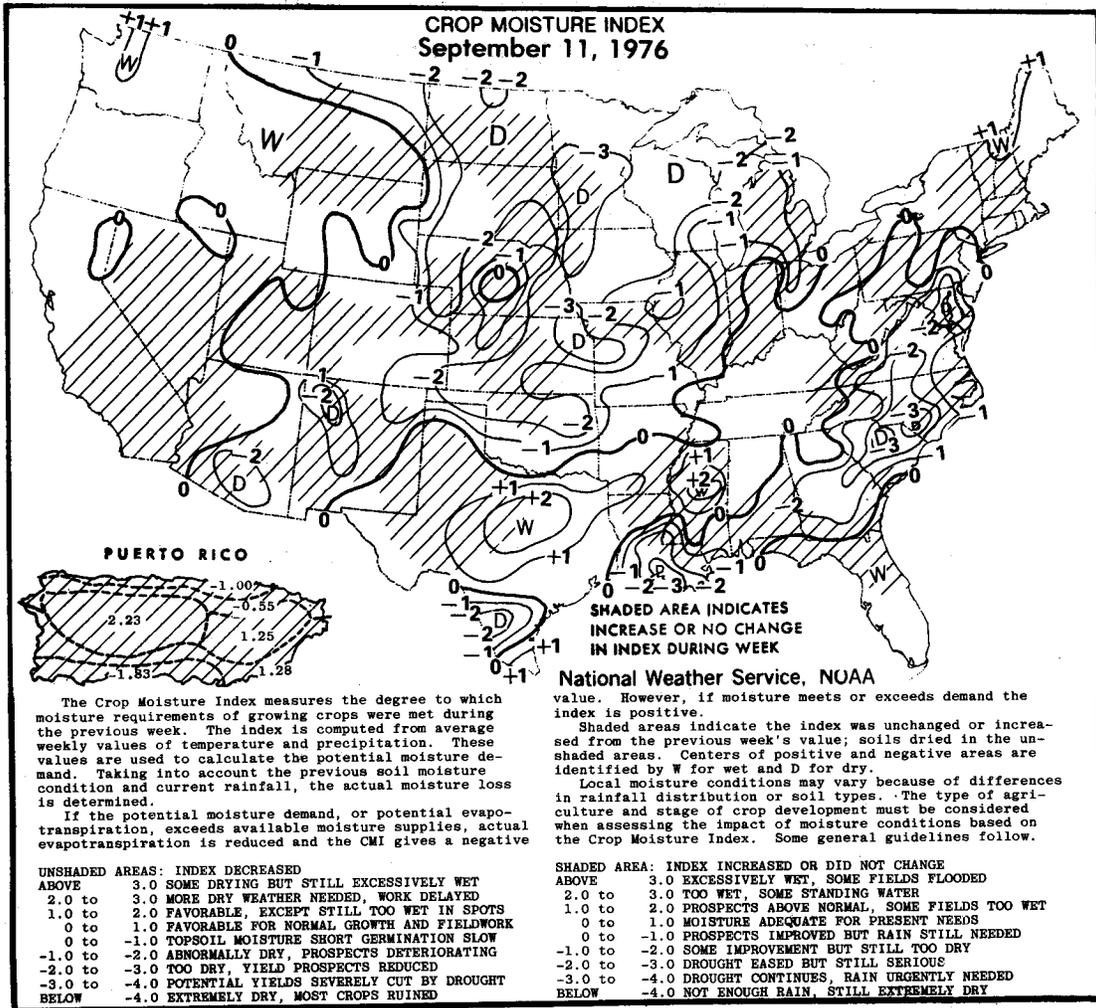
Conditions extremely dry. Soil moisture short. Water levels very low. Corn 67% mature, 1975 67%, normal 45%. Corn drying fast, early corn has moisture below 30%. Seed corn being harvested. Silo filling 30% done, 1975 12%, normal 19%. Soybeans 60% turning yellow, 1975 45%, normal 33%. Not enough moisture to fill pods. Most haying finished; no moisture for regrowth. Pastures poor, most farms on full winter feeding. Concern over winter feed supplies. Very little fall field work being done. Few winter grains seeded but need rain for germination. Tobacco harvest well along, crop lighter in weight this year. Fall potato harvest underway. Apple harvest going good. Home gardens, sweet corn, and other vegetables being harvested. Quality good but quantity down unless irrigated.

WYOMING: Temperatures near normal except far southeast below normal. Precipitation near normal. First major freeze.

Soil moisture short. Major activity: Seeding winter wheat. Corn development ahead of previous years, 54% dented and 5% mature. Small grain harvest completed. Dry beans 43% in windrows and 8% combined. Second cutting alfalfa 89% complete, third cutting 10%. Other hay harvest complete.

Average Monthly Weather Outlook





August Weather Cuts U.S. Feed Grains

Hot, dry August weather across much of the major grain growing areas of the Nation sliced production prospects for corn and sorghum and shortened total feed grain output.

The Department of Agriculture's Crop Reporting Board, in its September summary of farming conditions and potentials, stated that total feed grain production--corn, sorghum, oats and barley--is currently expected to only about match last year's harvest of 184 million metric tons. This level reflects the 5% drop in corn and a 10% decline for sorghum, since an estimate was made in early August.

The outlook for corn is 5,892 million bushels, a tumble of 295 million bushels from last month, but still 2% ahead of the 1975 record crop. Corn prospects September 1 indicated an average yield per acre of 82.8 bushels, down 2.9 bushels from a month earlier; last year's yield was 86.2 bushels. Farmers also expect to harvest 1 million fewer corn acres for grain than reported in August.

Sorghum production may be down 79 million bushels from last month's expectation and 6% less than a year ago. Oat prospects improved 3% during August and the harvest is

estimated at 564 million bushels, although this would be 14% short of last year. Barley gained 4% in August and production is forecast at 355 million bushels, but under the 1975 harvest.

Wheat production is likely to be a record setting 2,139 million bushels, slightly ahead of last season. The durum crop may be a record 138 million bushels, up 12% from a year earlier, and 70% above 1974. Other spring wheat is also expected to reach a record high at 459 million bushels, topping last year by 28%. Winter wheat is estimated at 1.5 billion bushels, 7% short of 1975, but the second largest crop on the books.

Food grain production, overall, is expected to amount to 64 million metric tons, just 1% short of last year. The record wheat harvest may nearly overcome the 14% smaller rice crop and slight reduction for rye.

Soybean production fell 5% during August and may finish the year 16% under the 1975 level at 1,274 million bushels. Even at this reduced level, the soybean harvest would be the third largest.

This season's cotton crop is now forecast at 10.4 million bales, off 3% from the August view, but an expansion of 25% from a year ago. Acreage is up, offsetting a slightly smaller yield.



FIRST CLASS MAIL

World Weather and Crop Update

(Week ending September 13)

EUROPE: Rain, often moderate to heavy, frequently fell over much of Europe. England, Wales and northern France, where drought held the longest grip, received especially generous amounts. Although river flow and ground and storage water will not quickly return to normal, the rains provided moisture for late maturing row crops (mainly sugarbeets), boosted prospects for fall forage, and wet the soils for fall plowing and sowing.

USSR: "We are playing hide-and-peek with the clouds," commented a Voronezh farm chairman about the Soviet harvest difficulties. However, shower activity tapered off in Europe USSR last week. Dry, sunny weather predominated. It aided harvesting of sunflowers, corn, potatoes, sugarbeets and remnant small grains; advanced ripening of Kuban rice; and facilitated fall plowing and planting. Timely planting is critical to Soviet winter grains because plants need to tiller well before they are subjected to severe winter cold. Much grain did not tiller well last fall and heavy losses in winterkill resulted. But as the weather improved in the west, it deteriorated in the east. Rain and showers harassed harvesting east of the Urals. The moisture, on the other hand, benefited fall sown crops. Harvesting of rice and selective picking of cotton began in Central Asia. Frosts occurred in a few spots east of the Urals and in northern latitudes of the European sector,

but they probably caused little damage.

Soviet officials continued to promote planting of winter grains throughout the country because of unusually favorable soil moisture and the ability of winter grains to considerably out yield spring grains.

ASIA: Typhoon Fran drenched southern Japan and caused wind and flood damage to crops. Sunny weather prevailed over much of the Peoples Republic of China; advantageous in middle and lower reaches of the Yellow River and its tributaries threatened by floods caused by heavy late August rains. Near Aikang water crested at the highest level since 1964.

A few showers fell in Java and Australia, but they were much too thin and scattered to materially relieve drought. The monsoon performed weakly over most of central Asia, although a tropical storm hovered off Burma and generated showers here and in Assam. The August floods in Pakistan damaged 1 3/4 million acres of crops (mainly rice and cotton).

CENTRAL AMERICA: Relatively dry weather persisted in parts of Central America and stressed crops. The lack of rain reduced cotton prospects in Nicaragua.

AFRICA: Drought intensified and stressed crops and rangelands in East Africa.