

WEEKLY WEATHER AND CROP BULLETIN

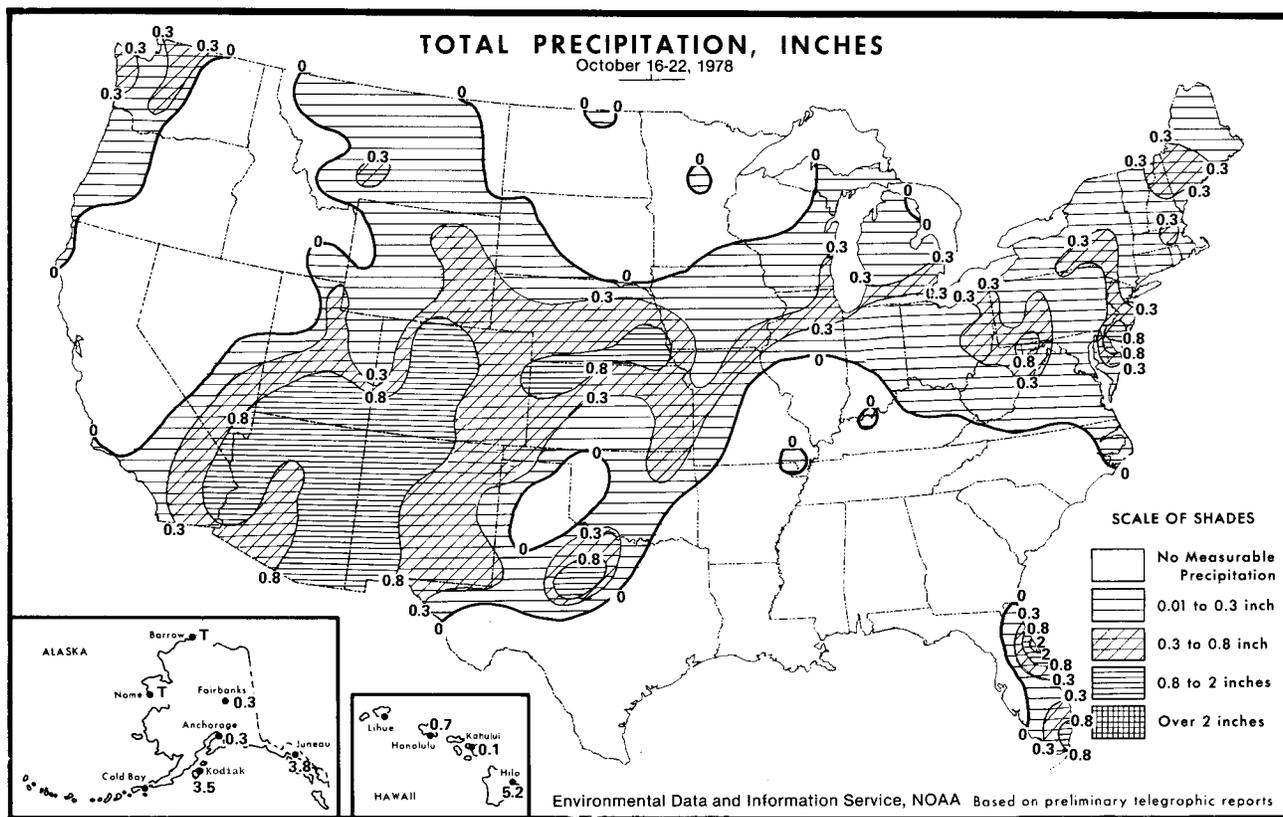
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National Weather Summary

October 16 - 22

HIGHLIGHTS: An early fall rain pattern developed over the Southwest on Thursday and stretched northeastward during the latter part of the week. Heavy rains fell over Arizona, New Mexico, Colorado, and parts of north central Texas and eastern Florida.

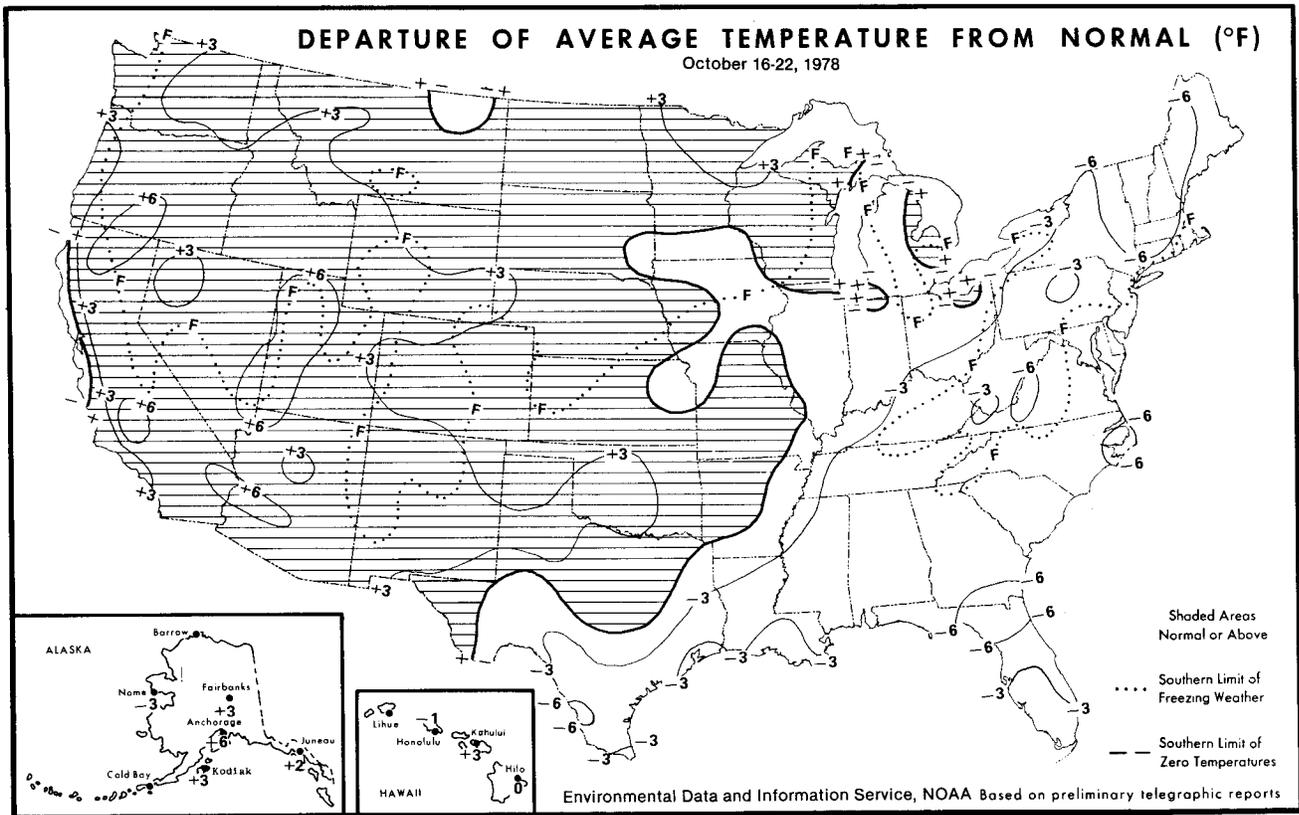
Cool temperatures dominated the East during much of the early portion of the week with Canadian air flowing southward. The West continued warm---up to 8 degrees above normal in the southern San Joaquin Valley of California where the cotton harvest just began. Above-normal readings in central and southern California have persisted since the end of September.

On Monday, rainfall amounted to less than an inch in all sections; the heaviest accumulations fell in the Ohio Valley and middle Atlantic Coast area.

More than a dozen record low temperatures chilled the East. A sampling showed 36° at Tallahassee, 34° at Columbia, S.C., 23° at Hartford, Conn., and 25° at Burlington, Vt.

Slow-moving systems brought little change in the Nation's weather on Tuesday. A few showers dampened the central East Coast and northern Rockies.

The unseasonable cold continued sending shivers along the Atlantic Seaboard from New England to the South. Hartford, Conn., at 25°, notched its third consecutive record low reading. Erie claimed a new mark for the second straight day with 26°, undercutting the 1965 mark by 8. Atlanta's 36° became the second coldest temperature there this early in the season. Concord, N.H., reigned as the coldest spot in the country with a mere 14°---7 degrees below the 1937 record.



October continued relatively dry for most of the Nation. Wednesday rains stayed below a half-inch; a few showers moistened the central Rockies, Midwest, Ohio Valley, and Florida.

Cold temperatures again covered the East Coast and parts of the South. Concord, N.H., checked in with another record---this time 13° which is the lowest reading ever established in the New England city this early in the season. Other records included 28° at Atlantic City, Hartford's 17°, and in New York, 27° at Syracuse and Albany's 22°. Shreveport, La., awoke to a record-equaling 37°. By contrast, the Southwest heated up a bit; Albuquerque set a record high reading of 83°, its seventh new mark this month.

On Thursday, moisture was mostly light throughout the country. Up to one-third inch fell over parts of New England, and a couple of inches of snow whitened Mt. Washington, N.H. To the South, thunderstorms dumped nearly 2 inches on Cape Canaveral, Fla., and an inch and a half on Daytona Beach.

Though temperatures continued unseasonably cool in the East, only Cape Hatteras, N.C., at 39°, set a record.

Persistent dryness covered most of the country on Friday, except the usually dust-dry Southwest. Although accumulations of no more than a half-inch dampened the region, some local flash flooding resulted; Las Vegas, Nev., reported 5 feet of water in some low-lying spots. Light showers dotted the Pacific Northwest and central Plateau Region.

Record high temperatures scorched the southern Plains. Oklahoma City took aim at the 1899 mark of 88° and easily passed it by 4 degrees. Waco, Tex., at 92°, edged the old record by one.

Rains over the Southwest increased intensity on Saturday inundating some stations with nearly 2 inches. Especially hard hit were points in Arizona and New Mexico where normally dry stream beds overflowed. Meantime, Hurricane Susan brewed a few hundred miles off the Hawaiian coast.

Temperatures soared once again in the southern Plains, and the unseasonable heat extended through the middle Mississippi Valley to the Great Lakes. Oklahoma City reached for the record book again with 90°. Tulsa's 92°, Wichita's 90°, and four readings in Missouri topped former records. Sault Ste. Marie, Mich., tallied a record-equaling 70°.

The moisture and heat both surged northeastward on Sunday. High elevations in the Rockies gathered up to a foot and one-half of snow while, as far east as the central and southern Plains, points noted one-half to three-quarters inch of rain.

Susan, which had threatened Hawaii with its most intense hurricane ever, weakened considerably 400 miles off the Island of Hawaii.

The record heat crept past the Appalachians to the East Coast. New marks showed 76° at Beckley, W. Va., 72° at Portland, Maine, and Boston's record-tying 78°. Concord, N.H. where the mercury had dipped to the teens but a few days earlier, notched 82°, breaking a 110-year-old record by 4 degrees.



National Agricultural Summary

October 16 - 23

HIGHLIGHTS: Good harvest weather prevailed throughout major row crop production areas. Farmers made good progress harvesting all crops. The Nation's corn was 57% harvested, equaling last year and surpassing the 48% average. U.S. soybeans stood at 58% harvested, ahead of 1977's 52% but lagging the average of 60%. Cotton picking advanced to 40%, lagging last year's 49% but ahead of the 31% average. Growers in the Southeast began picking some stands for the second time. Fields in the southern Plains needed a frost to defoliate plants. Sorghum harvest in the 7 major producing States advanced to 68%, tying last year and ahead of the 62% average. Winter wheat seeding reached 92%, compared with 87% last year and the 90% average. Planting was virtually complete except in the Corn Belt. Rains improved growing conditions in parts of the central Plains, but in most other Plains areas soils stayed too dry for optimum germination and growth. Soil moisture was short throughout most of the southern half of the United States and adequate in the northern half.

SMALL GRAINS: Winter wheat seeding for the 1979 crop reached 92%, ahead of both 1978's 87% and the 90% average. Dry soils checked seeding progress in parts of the South and the Great Plains. Texas made good progress, but many areas were dry; seeding stood at 85%. Cattle grazed early stands. Oklahoma seeding reached 90% with 50% of the crop up to stands. No pasture was available. Kansas seeding managed 95% and was virtually complete in the northern Plains. Seeding in the Mountain States neared completion. In the Corn Belt, seeding ranged from 70 to 80%, 10 to 16 points ahead of last year. Rains improved wheat growth in parts of Texas, Kansas, and Nebraska. In the Pacific Northwest, seedlings emerged to good stands and growers sprayed greenbug infestations.

CORN: Corn harvest advanced 19 points for the week to reach 57%. Last year harvest also hit 57% and on the average was 48%. Ideal weather helped dry the crop.

In the eastern north central States, harvest advanced 16 points for the week and stood at 45%, short of last year's 46%, but ahead of the 39% average.

Wisconsin fields dried, improving harvest conditions; corn was standing well.

In the western north central States, corn harvest advanced 21 points for the week and tallied 60%, equaling last year and 10 points ahead of the average. The crop was safe from frost and harvest losses were light to moderate. Storage facilities were short in some States.

In the South, harvest neared completion, ranging from 81 to 90% in the Deep South and 64 to 68% in the middle South.

SOYBEANS: The Nation's soybean harvest progressed to 58%, ahead of last year's 52% but short of the 60% average. Most of the crop matured and harvest moved very quickly.

In the eastern north central States, combining reached 72%, ahead of last year's 68% but below the 79% average. Many areas needed a frost to defoliate the crop and help it field-dry. Rain and fog slowed the Ohio harvest while Wisconsin reported some lodging.

In the western north central States, harvest reached 70%, lagging 1977's 63% but equal to the average. Iowa reported light harvest losses.

In the south central States, harvest totaled 41%, surpassing both 1977's 36% and the 31% average. About 79% of the crop matured, generally ahead of both last year and the average.

COTTON: Picking in the 11 major southern States reached 40%, short of last year's 49% but well ahead of the 31% average. Most bolls were open, ranging from 93% in Georgia to 98% in Tennessee. Many areas needed a killing frost to defoliate the crop. Southeast growers began picking a second time because of favorable weather conditions for harvest. Texas harvest stood at 28%, about equal to the average but far behind last year. Growers on the High Plains defoliated some stands, but many preferred to wait for a killing frost. Oklahoma harvest, at 9%, exceeded last year and the average; stands also needed a frost.

Arizona cotton picking hit full swing until rains temporarily halted activity. New Mexico's crop lagged with 5% harvested, and cool, showery weather further delayed the crop. In California, harvesting increased.

OTHER CROPS: Grain sorghum harvest in the seven major States reached 68%, equaling last year and surpassing the 62% average. Most of the crop was mature with Missouri and Colorado at 90%. Rice harvest was almost finished in the Delta States; Arkansas and Mississippi reached 98%. Texas harvested the second crop at a fast pace.

Potato digging neared completion, ranging from 90% in Michigan and Idaho to complete in Maine.

FRUITS AND NUTS: The southern apple harvest ranged from 90 to 95% complete. Northern production areas ranged from 70 to 85% complete. Grape harvests stood at 85% in Michigan and New York. Pecans rated poor to fair in most States because of dry soils; harvest progressed to 8% in Georgia and 9% in Louisiana. In the West, growers pruned and cleaned up deciduous orchards. In Florida, citrus groves rated excellent. Irrigation supplemented light rains. Grapefruit harvest moved actively. Texas growers harvested early oranges and grapefruit. Arizona picked lemons, grapefruit, and oranges. California grapefruit packing slowed; lemons sized well; and Navels sized well and began coloring. California raisin salvage and reconditioning operations continued. Table and wine grape growers about finished harvesting.

VEGETABLES: Growers in northern production areas harvested hardy crops including cabbage, cauliflower, celery, and carrots. Florida vegetable crops scored good to excellent. Both planting and harvesting advanced along with irrigation and spraying. A wide variety of crops moved to market.

Dry soils slowed Texas vegetable growth in many areas. Fall harvests were active. California growers supplied heavy volumes of broccoli, cauliflower, and celery. Very light volumes of brussels sprouts and carrots, and good supplies of tomatoes, melons, lettuce, and peppers.

PASTURE AND LIVESTOCK: Pastures throughout the northern half of the Nation rated fair to good except the northern Great Plains. In the southern half, dry soils kept grasslands in only poor to fair condition. Some areas of the South were feeding hay and hauling water. In Texas, cattle moved to stalk stubble and wheat pastures. In Arizona, browse was short; showers helped ranges, but more moisture was required to replenish stock tanks. California grasslands also needed moisture. Most cattle moved to winter grazing lands throughout the West.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 22, 1978

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 . . .	57	- 5	0	- .6	LA. Baton Rouge . . .	66	- 2	0	- .6	Youngstown . . .	50	- 2	.7	0
Mobile . . .	63	- 5	0	- .4	Lake Charles . . .	66	- 4	0	- .8	OKLA. Okla. City . . .	66	+ 5	.1	- .4
Montgomery . . .	60	- 5	0	- .4	New Orleans . . .	65	- 4	0	- .4	Tulsa . . .	64	+ 2	.5	- .1
ALASKA. Anchorage . . .	39	+ 6	.3	0	Shreveport . . .	64	- 2	0	- .6	OREG. Astoria . . .	56	+ 4	.1	- 1.5
Barrow . . .	--	--	T	- .1	MAINE. Caribou . . .	39	- 4	T	- .7	Burns . . .	51	+ 5	0	0
Fairbanks . . .	26	+ 3	.3	+ .2	Portland . . .	44	- 4	.3	- .4	Medford . . .	51	+ 5	0	- .5
Juneau . . .	43	+ 2	3.8	+ 2.0	MD. Baltimore . . .	53	- 3	.1	- .5	Pendleton . . .	54	+ 3	0	- .3
Kodiak . . .	43	+ 3	3.5	+ 2.1	MASS. Boston . . .	50	- 5	.2	- .5	Portland . . .	55	+ 3	.1	- .8
Nome . . .	24	- 3	T	- .3	Chatham . . .	49	- 1	0	- .1	Salem . . .	55	+ 3	3.3	- 1.0
ARIZ. Flagstaff . . .	47	+ 1	.5	+ .2	MICH. Alpena . . .	47	+ 1	0	- .4	PA. Allentown . . .	48	- 3	.2	- .7
Phoenix . . .	77	+ 6	.3	+ .2	Detroit . . .	51	- 1	.7	+ .1	Erie . . .	48	- 3	.7	- .4
Tucson . . .	73	+ 4	1.7	+ 1.6	Flint . . .	52	+ 2	.2	- .3	Harrisburg . . .	52	- 2	.2	- .7
Winslow . . .	59	+ 3	1.4	+ 1.3	Grand Rapids . . .	48	- 3	1	- .5	Philadelphia . . .	51	- 5	.5	- .1
Yuma . . .	78	+ 3	.4	+ .3	Houghton Lake . . .	46	- 1	T	- .6	Pittsburgh . . .	48	- 4	.3	- .3
ARK. Fort Smith . . .	63	+ 1	0	- .8	Lansing . . .	50	- 1	.2	- .3	Scranton . . .	48	- 4	.2	- .4
Little Rock . . .	62	+ 1	0	- .6	Marquette . . .	49	+ 1	.2	- .3	R. I. Providence . . .	62	- 5	.2	- .5
CALIF. Bakersfield . . .	74	+ 8	0	- .1	Muskegon . . .	48	- 3	T	- .6	S. C. Charleston . . .	62	- 3	0	0
Eureka . . .	53	- 1	T	- .8	S. Ste. Marie . . .	45	0	T	- .6	Columbia . . .	59	- 4	0	- .5
Fresno . . .	68	+ 5	0	- .1	MINN. Duluth . . .	48	+ 3	0	- .5	Greenville . . .	56	+ 5	0	- .7
Los Angeles . . .	69	+ 1	.1	0	Internat'l Falls . . .	47	+ 4	T	- .3	S. D. Aberdeen . . .	48	- 1	0	- .3
Red Bluff . . .	70	+ 6	0	- .3	Minneapolis . . .	50	+ 1	0	- .4	Huron . . .	49	+ 0	0	- .4
San Diego . . .	69	+ 3	.1	0	Rochester . . .	48	- 1	.1	- .3	Rapid City . . .	50	+ 1	.2	- .7
San Francisco . . .	59	- 2	T	- .2	St. Cloud . . .	47	0	0	- .4	Sioux Falls . . .	48	- 1	.4	- .3
Stockton . . .	66	+ 3	0	- .2	MISS. Jackson . . .	61	- 4	0	- .5	TENN. Chattanooga . . .	56	- 4	0	- .6
COLO. Denver . . .	53	+ 2	1.3	+ 1.0	Meridian . . .	59	- 5	0	- .4	Knoxville . . .	55	- 5	0	- .6
Grand Junction . . .	55	+ 1	T	- .2	MO. Columbia . . .	58	+ 1	0	- .7	Memphis . . .	62	- 2	0	- .5
Pueblo . . .	54	+ 1	.6	+ .4	Kansas City . . .	56	- 2	.3	- .4	Nashville . . .	68	+ 3	1.3	+ .7
CONN. Bridgeport . . .	52	- 4	- 1	- .5	St. Louis . . .	58	0	T	- .6	TEX. Abilene . . .	60	+ 0	T	- .4
Hartford . . .	45	- 7	- 1	- .6	Springfield . . .	59	+ 1	T	- .8	Amarillo . . .	69	+ 1	0	- .7
D. C. Washington . . .	57	- 2	.2	- .4	MONT. Billings . . .	50	+ 1	.1	- .1	Austin . . .	68	- 1	0	- .8
FLA. Apalachicola . . .	64	- 6	0	- .9	Glasgow . . .	45	- 1	.2	+ .1	Beaumont . . .	68	- 2	0	- .7
Daytona Beach . . .	70	- 3	2.1	+ .4	Great Falls . . .	52	+ 4	.2	+ .1	Brownsville . . .	70	- 3	0	- .5
Ft. Myers . . .	--	--	--	--	Havre . . .	47	+ 1	T	0	Corpus Christi . . .	69	- 1	0	- .4
Jacksonville . . .	62	- 8	- 1	- .8	Helena . . .	46	+ 2	T	- .1	Del Rio . . .	65	+ 2	.7	+ .5
Key West . . .	78	- 1	T	- 1.2	Kalispell . . .	43	+ 2	T	- .3	El Paso . . .	69	+ 2	T	- .6
Lakeland . . .	72	- 2	0	- .5	Miles City . . .	50	+ 2	.1	0	Fort Worth . . .	71	- 1	0	- .5
Miami . . .	76	- 1	1.1	- .7	Missoula . . .	46	+ 3	0	- .2	Galveston . . .	65	- 5	0	- .9
Orlando . . .	71	- 3	.6	- .2	NEBR. Grand Island . . .	54	+ 1	.5	+ .3	Houston . . .	64	+ 4	T	- .5
Tallahassee . . .	63	- 5	0	- .5	Lincoln . . .	54	0	1.1	+ .8	Lubbock . . .	62	- 3	.1	- .2
Tampa . . .	71	- 3	T	- .5	Norfolk . . .	53	+ 1	.4	+ .1	Midland . . .	64	- 2	.2	- .2
W. Palm Beach . . .	74	- 3	.4	- 1.5	N. Platte . . .	51	+ 1	.4	+ .2	San Angelo . . .	67	- 3	0	- .6
GA. Atlanta . . .	58	- 3	0	- .5	Omaha . . .	55	+ 1	.4	0	San Antonio . . .	68	- 3	0	- .8
Augusta . . .	58	- 5	0	- .5	Valentine . . .	50	+ 1	T	- .2	Victoria . . .	69	+ 1	0	- .6
Macon . . .	61	- 4	0	- .5	NEV. Ely . . .	48	+ 3	.1	0	Waco . . .	67	+ 2	.3	- .3
Savannah . . .	63	- 3	0	- .6	Las Vegas . . .	70	+ 4	.6	+ .5	Wichita Falls . . .	55	+ 4	.9	+ .6
HAWAII. Hilo . . .	75	0	5.2	+ 2.6	Reno . . .	52	+ 3	0	- .1	UTAH. Blanding . . .	57	+ 6	T	- .3
Honolulu . . .	78	- 1	.7	+ .3	Winnemucca . . .	49	+ 2	T	- .1	Salt Lake City . . .	42	- 6	T	- .6
Kahului . . .	80	+ 3	.1	- .2	N. H. Concord . . .	42	- 6	.2	- .4	VT. Burlington . . .	52	- 5	.1	- .6
Lihue . . .	--	--	--	--	N. J. Atlantic City . . .	49	- 7	.3	- .5	VA. Lynchburg . . .	57	- 4	.2	- .5
IDAHO. Boise . . .	55	+ 4	0	- .2	Trenton . . .	52	- 4	.3	- .3	Norfolk . . .	55	- 3	.2	- .4
Lewiston . . .	53	+ 2	T	- .3	N. MEX. Albuquerque . . .	61	+ 4	.6	+ .4	Richmond . . .	51	- 6	T	- .7
Pocatello . . .	51	+ 4	.1	- .3	Roswell . . .	62	+ 3	.5	+ .2	Roanoke . . .	--	--	--	--
ILL. Cairo . . .	60	- 1	0	- .6	N. Y. Albany . . .	44	- 6	.2	- .4	WASH. Colville . . .	48	+ 2	0	- .2
Chicago . . .	53	- 1	.5	- .1	Binghamton . . .	46	- 3	.3	- .4	Omak . . .	53	+ 3	.5	- 2.3
Moline . . .	53	0	.2	- .3	Buffalo . . .	48	- 2	.1	- .6	Quillayute . . .	55	+ 4	.1	- .8
Peoria . . .	53	- 1	.2	- .3	New York . . .	53	- 4	T	- .7	Seattle-Tacoma . . .	48	+ 1	0	- .3
Rockford . . .	52	0	T	- .5	Rochester . . .	49	- 2	.1	- .5	Spokane . . .	56	+ 3	0	- .4
Springfield . . .	56	0	T	- .7	Syracuse . . .	47	- 4	.1	- .6	Walla Walla . . .	51	+ 2	0	- .1
IND. Evansville . . .	55	- 2	T	- .6	N. C. Asheville . . .	53	- 3	0	- .7	Yakima . . .	50	- 2	.1	- .4
Ft. Wayne . . .	52	0	T	- .5	Charlotte . . .	56	- 5	0	- .6	W. VA. Beckley . . .	53	- 3	.1	- .4
Indianapolis . . .	54	- 1	.2	- .6	Greensboro . . .	54	- 4	T	- .6	Charleston . . .	53	- 3	T	- .4
South Bend . . .	53	+ 1	.2	- .5	Hatteras . . .	57	- 7	.1	- 1.0	Huntington . . .	53	- 3	T	- .4
IOWA. Burlington . . .	54	0	.5	- .2	Raleigh . . .	56	- 3	0	- .6	Parkersburg . . .	52	- 4	.3	- .1
Des Moines . . .	54	+ 1	.2	- .3	Wilmington . . .	59	- 5	0	- .7	WISC. Green Bay . . .	49	+ 1	.1	- .3
Dubuque . . .	50	- 1	T	- .6	N. DAK. Bismarck . . .	47	+ 1	T	- .2	La Crosse . . .	52	+ 1	.1	- .3
Sioux City . . .	52	0	.3	0	Fargo . . .	47	+ 1	0	- .2	Madison . . .	49	0	T	- .4
KANS. Concordia . . .	57	+ 1	.4	0	Williston . . .	46	+ 1	0	- .1	Milwaukee . . .	51	+ 1	.6	+ .2
Dodge City . . .	58	+ 1	T	- .4	OHIO. Akron-Canton . . .	50	- 2	.1	- .4	WYO. Casper . . .	49	+ 2	.3	+ .1
Goodland . . .	54	+ 2	1.2	+ 1.0	Cincinnati . . .	53	- 3	T	- .5	Cheyenne . . .	49	+ 2	.5	+ .3
Topeka . . .	56	- 1	.3	- .3	Cleveland . . .	55	+ 2	.1	- .5	Lander . . .	49	+ 3	.3	0
Wichita . . .	60	+ 1	.1	- .4	Columbus . . .	51	- 2	.3	- .1	Sheridan . . .	48	+ 1	.2	0
KY. Lexington . . .	53	- 4	T	- .5	Dayton . . .	52	- 2	.2	- .2	P. R. San Juan . . .	84	+ 3	.1	- 1.2
Louisville . . .	55	- 2	0	- .5	Toledo . . .	51	- 1	.2	- .3					

Based on 1941-70 normals

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State Summaries of Weather and Agriculture

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

ALABAMA: Temperatures 3° below normal. No rain. Fieldwork: 6.0 days suitable. Soil moisture very short to short. Cotton 60% harvested, 48% 1977, 27% average. Corn 86% harvested, 82% 1977, 64% average. Soybeans 39% harvested, 27% 1977, 27% average. Peanuts 93% combined, 77% 1977, 88% average. Small grains 50% seeded, 57% 1977, 57% average. Seedings limited by dry soils. Pecans poor to fair. Pastures drying rapidly. Some feeding of hay reported.

ARIZONA: Considerable moisture and cooler air. Considerable rain fell, largest accumulation southeast, central mountains.

Cotton harvest full swing central and west; temporarily halted by rain. Sorghum harvest tapering off. Corn harvest winding down. Sugarbeets good condition; harvest expected near month's end. Alfalfa haying tapering off. Small grain preparations continued. Lettuce harvest full swing Cochise County. Harvest increasing central areas. Fall melon harvest full swing. Harvest lemons, grapefruit, limited oranges underway. Other early citrus good progress. Widespread showers will help ranges. More rain needed for soil moisture, stock tanks. Winter browse short, to non-existent lower to mid-elevation ranges. Sheep on irrigated winter pastures in lower valleys. Cattle, calves mostly fair to good condition.

ARKANSAS: Dry with no precipitation. Cool temperatures beginning week, warm by weekend. Extremes: 93 and 30°.

Harvest active on all crops, with rice nearly completed. Small grain germination suffered from short soil moisture. Fieldwork: 6.3 days available. Soybean harvest 29%, same as last year, average 32%; fair condition. Cotton harvest 57%, 1977 72%, average 53%; condition fair. Rice harvest 98%, 95% 1977, 95% average. Oat seeding progress 41%, 45% 1977. Wheat seeding 43%, 45% 1977. Sorghum harvest 95%, 98% 1977, 95% average. Hay harvest completed. Pasture below average condition. Cattle fair to good condition.

CALIFORNIA: Temperatures generally above normal. Except for some showers southeast desert, no precipitation. Temperatures northeast corner minima generally freezing or lower. Scattered occurrences of 100° plus temperatures from San Joaquin Valley and desert areas.

Cotton harvesting activity increasing. Blackeye bean harvest in good volume. Field preparation winter grains continues. Corn harvesting continues on late fields. Deciduous fruit orchards pruned, irrigated and occasional pesticide applications. Table and wine grape seasons approach completion. Raisin salvaging and reconditioning continued. Grapefruit packing slow. Coastal area lemons sizing well, good quality. Navel oranges sizing well, early varieties taking on color. Harvests of walnuts, persimmons, pomegranates continued. Artichokes, brussels sprouts, carrots, very light. Broccoli, cauliflower, celery heavy. Melons, lettuce, peppers, fresh market tomatoes continue good supplies. Fall potatoes, pumpkins seasonal high. Cattle moving to winter ranges. All areas in need of moisture.

COLORADO: Dry and mild until late week; widespread precipitation weekend. Heavy snow in

mountains; rain at lower elevations. Temperatures 1 to 3° above normal.

Winter wheat emerged 82%, 93% 1977, 87% average; stands fair to good. Sugarbeets harvested 31%, 43% 1977, 36% average. Corn mature 95%, 100% 1977, 99% average; harvested 50%, 72% 1977, 37% average. Sorghum ripe 90%, 97% 1977; harvested for grain 32%, 52% 1977, 28% average; for forage 83%, 93% 1977, 88% average. Fall potato harvest 99%, 100% 1977, 96% average. Summer potato harvest 99%, 99% 1977, 95% average. Ranges and pastures poor condition.

FLORIDA: Mostly fair skies. Showers over Atlantic coastline and east inland areas. Heavy shower 20th southeast areas and lower east coast. Temperatures 2 to 5° below normal, returning to near normal weekend.

Soil moisture short to very short north, west; mostly adequate south, central; however, a few dry spots in central areas. Soybean harvest full swing; corn, peanut, hay harvests nearing completion. Harvesting sugarcane for sugar about to start, conditions good. Planting small grains delayed due to dry soils. Pastures poor to fair Panhandle, northern peninsula. Growth of earlier planted winter forage slow, many cattlemen have delayed plantings because of dry soils. Central pastures mostly fair; good to excellent south. Cattle good condition. Citrus tree condition excellent. Very little light rain, irrigation most areas. Grapefruit harvest very active. Vegetable crops good to excellent condition. Harvest activity increasing. Quality, yields good to very good. Plantings active some crops. Irrigation, spraying steady. Winburn evident some areas. Harvest very active okra, sweet corn, eggplant, pole beans, squash, cucumbers, radishes. Harvest gaining snap beans, carrots, tomatoes. Strawberry transplanting active most fields.

GEORGIA: Temperatures 5 to 8° below normal; near 50° mountains, mid-50's north, low 60's south. Rain 13th averaged less than 0.50 in. north, less than 0.25 in. general, and less than 0.10 in. south. Cool nights and warm days 21st and 22d.

Soil moisture very short. Fieldwork: 6 days suitable. Corn poor to fair; 88% harvested, same as last year, average 67%. Peanuts fair to good; 99% dug, 97% threshed, last year 93% dug, 84% threshed, average 98% dug, 94% threshed. Soybeans poor to fair; 21% combined, last year and average 12%. Cotton mostly fair to good; 93% open, 46% harvested, last year 83% open, 33% harvested, average 31% harvested. Apples fair to good; 95% picked, last year 92% picked. Pecans mostly fair to good; 8% harvested, 13% last year, average 8%. Small grain seeding progressing slowly; wheat 19%, rye 20%, other small grains 19% seeded; last year wheat 36%, rye 50%, other small grains 48%. Pastures and hay crops poor to fair. Cattle fair to good, hogs fair to mostly good.

HAWAII: Weather generally favorable. Heavy rains midweek some areas Islands Hawaii, Maui.

Crop growth fair to good all Islands. Vegetable supplies: Cabbage crops, sweetpotatoes heavy. Others light to moderate. Papaya supplies heavy. Pineapple harvesting slow. Sugar harvesting steady. Pastures generally good.

IDAHO: Temperatures 4 to 8° above normal. Precipitation light, limited to southeast.

Fall harvests nearing completion. Potatoes 90% harvested, last year 95%. Most other crops 90% harvested, slightly behind last year. Sugarbeets 20% harvested, last year 35%. Winter wheat 95% seeded, 60% emerged. Most livestock moved from ranges to glean fields.

ILLINOIS: Temperatures normal to 3° below normal. Precipitation 0.50 in. northeast and west, light elsewhere.

Corn 62% harvested, 1977 55%, average 53%. Soybeans 86% combined, 1977 76%, average 89%. Winter wheat acreage 80% seeded, 1977 64%, average 80%. Grain sorghum harvest 50% complete. Plowing 1979 corn and soybean acreage 25% complete, 1977 12%, average 22%. Pasture conditions fair to good. Fieldwork: 6.2 days suitable. Soil moisture adequate.

INDIANA: Sunny, low humidity, light rainfall and near normal temperatures. Precipitation 0.30 in. north, 0.10 in. central, trace in south. First fall frost 15th-17th except extreme southwest, however, central and south not below 30°.

Fieldwork averaged 5 days. Soil moisture mostly adequate. Corn 40% harvested, 1977 50%, average 30%. Soybeans 55% combined, 1977 55%, average 65%. Wheat 70% seeded, 1977 55%, average 75%. Wheat 40% emerged. Wheat stands fair to mostly good. Spring cropland 20% plowed.

IOWA: Mild with light precipitation north and east to moderate precipitation west central and southwest.

Fieldwork: 6.7 days favorable. Topsoil and subsoil moisture adequate. Corn harvested 60%, 59% 1977, 44% normal; harvest loss currently light to moderate. Soybeans harvested 76%, 75% 1977, 78% normal; light harvest loss. Popcorn harvest 71%. Sorghum harvest 58%, 55% 1977, 50% normal. Fall plowing 12% completed, 15% 1977, 16% normal. Livestock good condition; market movement increasing. Feeder pig purchase increasing.

KANSAS: Dry and mild. Cooler with significant precipitation over weekend. Temperatures averaged near to slightly above normal; mid-50's northwest to low 60's southeast. Rainfall northwest, north central, and east 0.50 to 1.00 in., lesser amounts elsewhere.

Row crop harvest made good progress; corn 80% harvested, same as last year, 45% average; 100% safe from frost, same as last year and average. Sorghum 60% harvested, 50% last year, 35% average. Sorghum 95% mature, same as last year, 85% average. Soybeans 60% harvested, 40% last year, 45% average. Sugarbeet and dry bean harvests active. Wheat 95% planted, 90% last year, 90% average. Weekend rains northwest and north central should help newly planted wheat.

KENTUCKY: Warm days and cool nights prevailed. Temperatures in mid-50's, about normal. Precipitation very sparse; generally less than 0.10 in.

Soil moisture adequate. Corn harvest 64% complete, last year 63%, average 59%. Soybean harvest 44%, last year 36%, average 45%. Burley stripping 7% complete, last year 16%, average 10%. Fall seeded grain dry. Rain needed to germinate planted grain and to allow continuation of seeding. Seeding 56% complete.

LOUISIANA: Temperature 3° below to 1° above normal. Extremes: 90 and 32°. No rain.

Fieldwork: 6.0 days suitable. Soil moisture short. Cotton 70% harvested, 56% last year, 33%

average. Soybeans 53% harvested, 47% last year, 45% average. Corn 96% harvested. Sorghum 93% harvested. Sugarcane 91% planted, 76% last year; 6% harvested, 10% last year, 8% average. Sweetpotatoes 86% harvested, 77% last year, 78% average. Oats and wheat 67% seeded, 38% last year, 57% average. Pecans fair, 9% harvested. Hay and pasture fair. Cattle fair to good.

MARYLAND & DELAWARE: Temperatures well below normal. Highs averaged in mid-60's and lows in upper 30's; slightly cooler in western areas. Precipitation light; averaging 0.50 in. Weekend sunny, mild.

Fieldwork: 5.1 days suitable. Soil moisture short. Pastures supplying below average amounts of feed. Corn for grain 75% harvested, 85% 1977, 73% average. Soybeans 35% harvested, 30% 1977, 28% average. Apple harvest continued. No damage from frost. Seeding small grains continued. Tobacco growers stripping crop.

MICHIGAN: Temperatures 2 above to 3° below normal. Temperatures plunged into low 20's 17th bringing frost and ending growing season. Precipitation from 0.01 to 0.71 in.; some snow mixed with rain Upper.

Fieldwork: 6 days suitable. Soil moisture mainly adequate. Grain corn 25% harvested, 20% last fall, 25% normal. Corn silage 90% chopped, 80% last year, 90% normal. Soybeans 35% harvested, 30% last year, 55% normal. Winter wheat 90% sown, 60% last fall, 85% normal. Dry beans 95% combined, 50% last fall, 85% normal. Potatoes 90% dug, 80% last year, 85% normal. Sugarbeets 40% dug, 20% last year, 40% normal. Grapes 85% picked, 100% last year, 95% normal. Jonathans and Red Delicious 85% picked.

MINNESOTA: Temperatures near normal south and central, 3° above normal north. Extremes: 86 and 18°. Precipitation 0.30 in. below normal. Amounts ranged from 0 most of state to 0.17 in. southeast.

Harvest moved ahead rapidly. Full week of fieldwork will nearly complete harvest in many localities. Harvest: Corn 67%, 1977 68%, normal 64%; soybeans 91%, 1977 80%, normal 89%; sunflowers 92%, 1977 82%, normal 79%; flax 97%, 1977 95%, normal 98%; sugarbeets 96%, 1977 94%, normal 93%; potatoes 98%, 1977 94%, normal 95%.

MISSISSIPPI: Temperatures 3 to 11° subnormal. Few scattered showers early week; remainder dry.

Soil moisture very short to short. Fieldwork: 6.2 days suitable. Ideal harvest weather. Winter grazing crops need rain. Soybeans 99% shedding, 96% 1977; 79% mature, 73% 1977, 55% average; 41% harvested, 41% 1977, 29% average. Cotton 76% harvested, 70% 1977, 39% average. Corn 81% harvested, 82% 1977, 61% average. Rice 98% harvested, 90% 1977, 81% average. Sorghum 93% harvested, 84% 1977, 75% average. Hay crops 96% harvested, 93% 1977, 93% average. Winter wheat 53% planted, 64% 1977, 62% average. Soybeans fair to good condition; cotton fair; pastures fair to poor condition; pecans poor to fair.

MISSOURI: Temperatures 6° below normal Bootheel to 1° above normal extreme northwest. No rainfall.

Fieldwork: 6.1 days suitable. Soybeans 91% mature, last year 89%, normal 86%; 47% harvested, last year 41%, normal 48%. Corn 53% harvested, last year 63%, normal 52%. Grain sorghum 90% mature, last year 100%, normal 98%; 54% harvested, last year 71%, normal 55%. Cotton 66% harvested, last year 65%, normal 41%. Fall plowing for spring planted crops 22% complete, last year 17%. Winter

wheat seeding 62% complete, last year 34%. Pastures mostly fair to good. Soil moisture short to adequate.

MONTANA: Mild; temperatures near 4° above normal. Nights cold with minimums falling well below freezing. Precipitation light with no significant amounts.

Soil moisture adequate. Fieldwork: 6.6 days suitable. Harvest progress: Potatoes 85%, normal 80%; sugarbeets 75%, normal 70%. Winter wheat germination and condition good. Livestock good to excellent condition. Cattle moved from summer ranges 65%, normal 75%; sheep moved 70%, normal 75%.

NEBRASKA: Little to no precipitation. Temperatures near normal; began period below normal; ended above.

Corn harvest 50% complete; year ago 55%, normal 45%. Sorghum grain harvest 70% complete; year ago and normal 65%. Soybean harvest 85% complete; year ago 65%; normal 75%. Most winter wheat fair to good condition. Short moisture supplies limiting crop development. Livestock grazing fall crop residues. Fieldwork: 7 days suitable.

NEVADA: Warm weather continued but long dry spell broken by intensive rain activity south and central. Temperatures remained well above normal all areas.

Ideal weather for potato digging. Good progress also made alfalfa seed harvest and winter grain seeding all areas except south and central. Moving livestock to winter ranges.

NEW ENGLAND: Cold early week. Highs mostly in 40's to low 50's; lows in teens and 20's in most areas away from coast. Many record low readings set 17th and 18th. Unseasonably mild toward weekend. Highs 21st in 60's and 70's and by 22d in 70's to low 80's. Rainfall 0.10 to 0.30 in. 19th.

NEW JERSEY: Temperatures 5 to 6° below normal. Extremes: 17 and 78°. Rainfall averaged 0.17 in. north, 0.27 in. central and 0.75 in. south.

Fieldwork: 6 days suitable. Most areas could use a good rain. Harvest of hardy vegetables continued. Irish potato harvest in clean-up stage. Sweetpotato digging active. Apple and cranberry harvest well advanced. Corn silage harvest about complete. Harvest of corn for grain and soybeans active. Grain and cover crop seeding continued as fall crops are harvested.

NEW MEXICO: Warm and dry through 19th. Extensive cloudiness and widespread rain beginning 19th and continuing through weekend. General showers fell, but most totals small.

Cotton picking 5% complete; crop late; showers and cool temperatures will delay it more. Alfalfa hay 5th cutting 80% complete south. Grain sorghum harvest 40% finished, and corn for grain about 75% complete. Most winter wheat planted and up, but dryland needs rain. Little of grain producing area received significant rain. Lettuce and chile harvest in progress until halted by weekend rains.

NEW YORK: Rainfall and temperature averages below normal. Most areas had killing frost.

Good harvest conditions. Corn silage 90% harvested, 50% 1977. Grain corn 30% harvested, 12% 1977. Dry bean harvest continued. Fresh market cabbage harvest 70% complete; good quality. Potato harvest nearly done; good quality. Long Island cauliflower harvest in progress. Apple harvest in Champlain Valley done; Hudson Valley 85% complete;

west 70%. Apple quality good. Grape harvest 85% complete.

NORTH CAROLINA: Temperatures subnormal early week, 50's to 60's. Above normal weekend, 70's. Precipitation light; widely scattered showers.

Fieldwork: 6.1 days suitable. Soil moisture very short to short. Condition of soybeans and cotton fair to good; pasture mostly fair; peanuts fair to mostly good. Harvested: Peanuts dug 94%, 1977 78%, average 84%; peanuts threshed 80%, 1977 75%, average 74%; sweetpotatoes 84%, 1977 79%, average 72%; soybeans 12%, 1977 7%, average 9%; corn for grain 90%, 1977 100%, average 82%; apples 90%, 1977 84%, average 86%; sorghum 71%, 1977 75%, average 65%; cotton 32%, 1977 35%, average 27%; planted: Wheat 34%, 1977 34%.

NORTH DAKOTA: Dry weather prevailed; no measurable rain. Temperatures 2 to 6° above normal. Early morning lows dipped below freezing on several days, but afternoon of 20th quite warm and mercury climbed into low 80's through south. Extremes: 16 and 81°.

Lack of rain permitted farmers to begin wrapping up harvest season. Harvest of sunflower stands at 80% complete while harvest of sugarbeets and potatoes is virtually complete. Moisture supplies of concern heading into winter as hay moving and other preparatory activities are underway.

OHIO: Temperatures slightly below normal. Extremes: 80 and 26°. Rainfall less than 0.25 in.

Fast crop drying experienced during weekend. Killing frost needed. Other fall harvest: Digging potatoes and sugarbeets, baling hay, and stripping tobacco. Corn harvest 40%, 40% 1977, 35% average. Soybean harvest 65%, 70% 1977, 75% average. Apples harvested 70%, 90% 1977. Grapes harvested 95%, 90% 1977. Popcorn 50%, 50% 1977, 50% average. Wheat planted 80%, 70% 1977, 80% average; emerged 50%. Fieldwork: 4 days favorable. Pasture condition good. Soil moisture adequate.

OKLAHOMA: Temperatures 1 to 2° below normal south central and southeast, 2 to 5° above normal elsewhere. Precipitation received all areas except west and north central. Averages ranged from 0.05 in. southeast to 0.53 in. south central.

Topsoil and subsoil moisture short. Wheat pasture not yet available but over 50% up to stand, 68% 1977, 56% normal. Seeding 90% complete 1978 and 1977, 86% normal. Wheat rated fair to good. Sorghum harvest 24% complete, 36% 1977, 40% normal. Cotton crop awaiting killing frost, fair condition; harvest 9% complete, 7% 1977, 5% normal. Soybeans rated fair to poor, peanuts fair, pastures rated fair to poor. Most cattle require supplemental feeding. Livestock rated good to fair. Fieldwork: 6.3 days suitable.

OREGON: Temperatures 5 to 10° above normal. Rainfall light; few showers northwest; amounts generally 0.25 in. and less. Extremes: High 80's; mid-30's west; low 80's, low 20's east.

Soil moisture short to adequate. Fall land preparation and seeding continue. Spring grain harvest virtually complete. Late apples still being picked, other fruits done. Cool season vegetable harvests continue. Potato and onion harvests also continue. Filbert and walnut harvests continue; both crops look good. Range and pasture look fair to good. Feed supplies are adequate. Cattle and calves in excellent shape. Calves in some areas are heaviest ever.

PENNSYLVANIA: Sunny and cool with Indian summer conditions weekend. Frost and freezing several mornings with afternoon readings in 50's and 60's through 20th and 60's and 70's weekend. Extremes: 17 and 80°. Temperatures near to 4° below normal. Light showers 16th and 19th provided less than 0.25 in. rainfall.

Open weather allowed continuation of harvesting and small grain seeding.

PUERTO RICO: Island average rainfall 1.07 in. or 0.72 in. below normal. Temperatures about 81° on coasts and 76° interior. Extremes: 96 and 58°.

SOUTH CAROLINA: Fair weather; night temperatures in 30's with scattered frost during first half across central, north. October rainfall averaged much below normal.

Soil moisture very short. Fieldwork: 6 days available. Corn practically harvested. Cotton harvested 70%, 51% last year, 38% average; few picking second time in ideal conditions. Soybean condition fair, 36% mature in dry weather, 29% last year; 11% harvested, 7% last year, 5% average. Small grain condition fair. Dry conditions discouraged planting small grains, pastures due to germination difficulty. Pastures fair, deteriorating. Sorghum 58% harvested, 60% last year. Peanuts 78% harvested, same as last year. Cucumber harvest peaked; cool, dry weather reducing yields. Snap bean picking continued. Most tobacco markets to close this week, quality of offerings somewhat lower.

SOUTH DAKOTA: Temperatures well above normal, peaking 20th. Extremes: 16 and 80°. Precipitation of little consequence.

Storage tight; piling corn and grain sorghum on ground. Pastures and winter grains need moisture. Topsoil moisture adequate east. Fieldwork: 6.3 days suitable. Corn for grain 60% harvested, 1977 39%, normal 58%. Grain sorghum 56% harvested, 1977 49%, normal 68%. Soybeans 83% harvested, 1977 71%, normal 79%. Sunflowers 65% harvested, 1977 47%.

TENNESSEE: Sunny, dry. Rainfall very light and scattered. Temperatures 3 to 5° below normal.

Fieldwork: 5.0 days suitable. Soil moisture short. Corn harvested 68%, 1977 68%, average 49%. Cotton open bolls 98%, 1977 95%, average 73%; harvested 72%, 1977 65%, average 33%. Soybeans mature 79%, 1977 81%, average 62%; harvested 30%, 1977 38%, average 19%. Burley tobacco stripped 30%, 1977 44%, average 33%. Fall plowing completed 73%, 1977 77%, average 79%. Wheat seeded 64%, 1977 62%, average 62%. Pastures poor. Cattle on supplemental feed.

TEXAS: Fair skies, no precipitation, mild temperatures first five days. Scattered showers 21st Panhandle and southwest, and moved into north central 23d. Rainfall above normal Trans-Pecos, Northern Plains. No rain from lower Valley through east. Temperatures below normal east, upper Gulf Coast; above normal low Plains, Cross-Timbers; near normal elsewhere.

Harvest cotton, grain sorghum, peanuts fair progress but continued behind last year's schedule. Frost needed to speed cotton harvest on Plains. Peanut farmers need rain Cross-Timbers to loosen packed soils. Seeding wheat, oats excellent progress; growth slow in dry south, central, eastern areas, but generally good other areas. Second cutting rice moving steady pace upper Gulf Coast. Wheat seeding excellent progress High, Low Plains; early stands furnish grazing to stocker cattle. Corn harvested 95%, 99% 1977, 92% average. Cotton

harvested 28%, 45% 1977, 29% average. Peanuts harvested 59%, 65% 1977, 74% average. Pecans harvested 4%, 7% 1977, 5% average. Sorghum harvested 84%, 91% 1977, 89% average. Soybeans harvested 30%, 1977 40%, 31% average. Sugarbeets harvested 11%, 27% 1977, 26% average. Sunflowers harvested 53%, 79% 1977, 69% average. Oats planted 81%, 88% 1977, 73% average. Wheat planted 85%, 74% 1977, 85% average. Flax planted 16%, 0% 1977, 4% average.

Fall melon, cabbage, carrot, lettuce, pepper, and cucumber harvests active. Bell pepper, lettuce making good progress. Worm damage increased in cabbage fields. Citrus harvest continued to increase in early orange, grapefruit groves. Growth of vegetables slowed by limited moisture. Pecan harvest early varieties increasing; dry conditions advanced shuck splitting in central and east.

Movement of stocker cattle into stalks and wheat pasture in Panhandle. Heavy supplemental feeding, above normal culling active from Cross-Timbers east to Louisiana border as moisture conditions critically short. Cattle condition declined, water hauling necessary some areas northeast. Cool evening temperatures slowed pasture growth in central, ranges browning from lack of water. Cattle and range conditions good to excellent in lower Rio Grande Valley and Trans-Pecos.

UTAH: Scattered showers and thunderstorms south and east latter part period. Amounts generally light to moderate. Temperatures 3 to 9° above normal.

Late season crop harvest rushed to make time for deer hunting. Corn for silage and potato harvest virtually completed. Sugarbeet harvest continued. Winter wheat seeding nearing completion. Seven days were good for harvest north; cut short in south by rain. Most livestock moved from high summer ranges.

VIRGINIA: Temperatures 1 to 8° below normal. Scattered, light showers on 19th only precipitation. Light frosts in north midweek.

Topsoil moisture mostly short. Pastures fair. Fieldwork: 5.7 days suitable. Harvest progress: Corn 65%, 76% 1977, 59% average; soybeans 12%, 4% 1977, 10% average; peanuts dug 93%, 81% 1977, 83% average; peanuts combined 78%, 56% 1977, 61% average; grain sorghum 15%, 17% 1977. Pasture area watering supplies for livestock short to adequate with a few reports critical far southwest. Seeding progress: Wheat 30%, 38% 1977, 43% average; barley 56%, 76% 1977, 68% average; winter oats 62%, 86% 1977, 73% average. Other activities: Digging sweetpotatoes on Eastern Shore, picking apples and pears, tobacco grading and marketing, selling cattle.

WASHINGTON: West: Temperatures 6 to 7° above normal. Precipitation ranged from 0.20 to 1.70 in. below normal.

Harvest of celery, carrots, cauliflower, cabbage, sweet corn, and silage corn continued. Other activities: Preparing fields, canning raspberries, completing seed beet harvest, and potato digging. Pastures good.

East: Temperatures averaged 5° above normal. Precipitation ranged from 0.20 to 0.40 in. below normal.

Apple harvest near complete. Orchardists starting fall clean-up and mouse baiting. Grape picking continued. Carrots, onions, alfalfa seed, and some sunflowers being harvested. Most irrigation water off next week. Most grain fields seeded and show good stands. Greenbug evident, spraying begun. Last of hay being put in. Cattle faring well. Grass good.

WEST VIRGINIA: Temperatures below normal. Extremes: 78 and 17°. Precipitation well below normal.

Fieldwork: 4.9 days suitable. Soil moisture adequate to short. Major activities: Harvesting corn, seeding small grains, and caring for livestock. 3d cutting hay 86%, 82% 1977. Corn harvested 49%, 50% 1977. Potatoes 94% dug, 93% 1977. Wheat planted 75%, 59% 1977. Barley sown 79%, 62% 1977. Pasture condition fair to good. Hay supply mostly adequate to surplus.

WISCONSIN: Temperatures slightly above normal; mostly sunny and dry. Highs in 40's and 50's 16th but warmed to 70's 21st. Lows 20's and 30's except higher weekend. Extremes: 79 and 26°. Rainfall very light most areas; heaviest southeast at 0.40 in. 16th and 22d.

Crop harvest increased with drier field conditions. Fieldwork: 5 days suitable. Corn for grain 25% harvested, 1977 45%, normal 35%. Corn standing well yet. Silo filling finishing up;

quality of silage poor to fair. Soybeans 20% combined, 1977 35%, normal 40%. Some soybeans lodged extensively. Fall plowing 20% done, 1977 20%, normal 33%. Little hay being made yet. Pasture conditions good. Winter wheat growing well. Potato harvest making progress, some nearing completion. Harvesting of cranberries and apples continued. Soil moisture mostly adequate to surplus.

WYOMING: Warm and dry with temperatures averaging above normal. Precipitation below normal with many places recording no precipitation or only a trace.

Topsoil moisture short. Acreage harvested: Potatoes 91%; sugarbeets 92%; corn for grain 29%. Dry bean harvest windup stages, over 95% harvested. Winter wheat 90% emerged, mostly fair to good condition. Additional moisture needed for optimum development. 67% of yearling cattle and lambs marketed. 60% calves marketed. Winter grazing varied, mostly fair to good.

World Weather and Crop Update

October 16 - 22

EUROPE. Relatively dry weather continued over extensive portions of western Europe for the sixth consecutive week. These conditions were quite favorable for the successful completion of the fall harvest, but fall-planted grains needed moisture. Dry conditions delayed planting in Spain. The rest of Europe received generally normal rainfall, with the exception of a dry pocket in Hungary and Romania, and above-normal amounts in the Mediterranean area.

USSR. Northern agricultural areas from the Baltics through the New Lands got normal precipitation. Harvest reached its final stages with some difficulties for root crops. Above-normal rainfall soaked the eastern Ukraine, possibly interfering with the sunflower harvest. High winds over the weekend may have caused some lodging. The southern Volga Valley was relatively dry, but above-normal precipitation drenched the southern portion of the New Lands.

PRC. Most western portions of the winter wheat belt noted normal rainfall or above, but the eastern central plains were once again much below normal. If fall sowing follows the norm and is completed on schedule, then irrigation may be necessary, and water could be in short supply. Much above-normal rains fell in the southern coastal state of Kwangtung, but this may have done more harm than good to the maturing rice crop there.

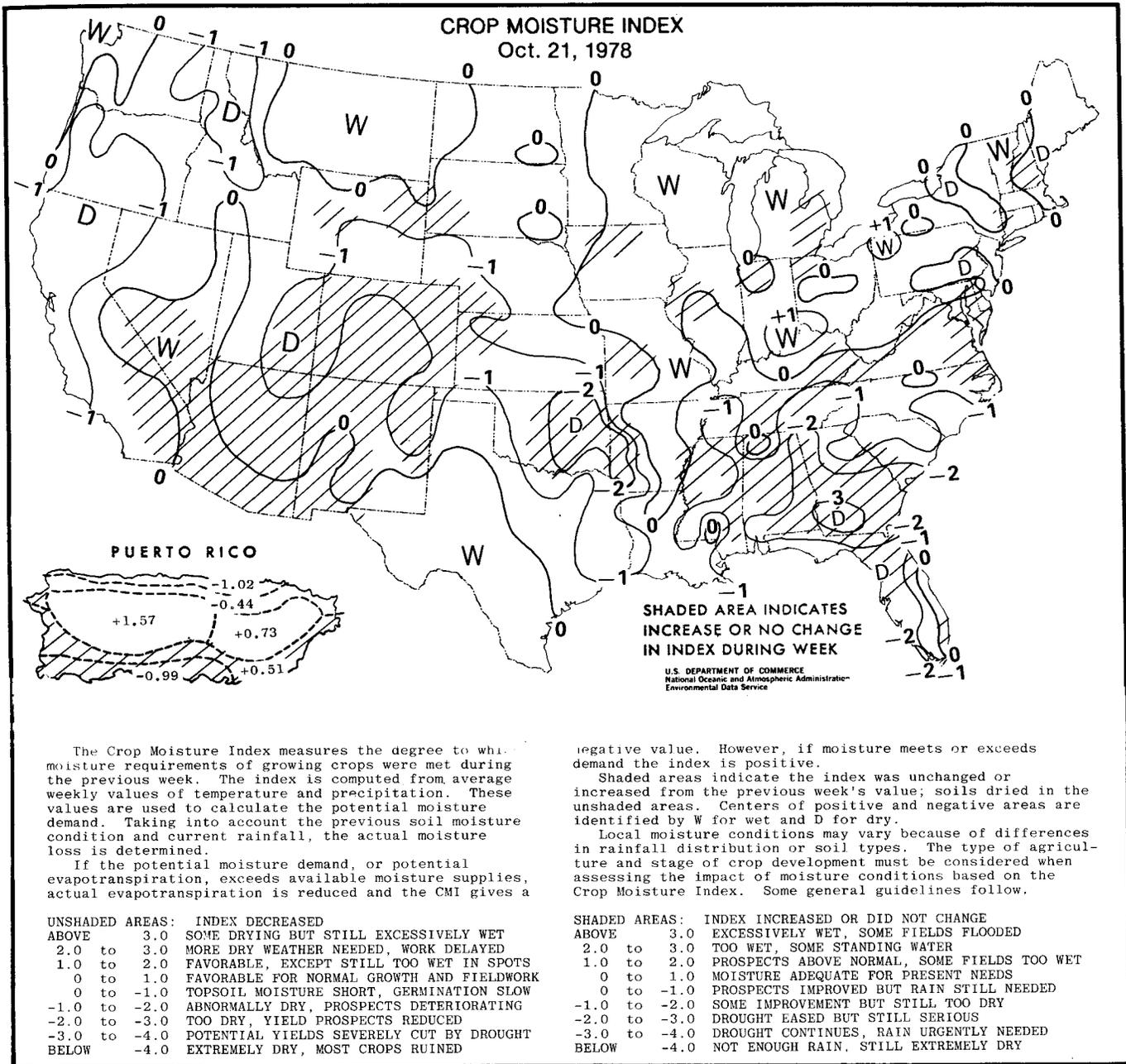
INDIA. The rainfall pattern in the south was quite variable, ranging from normal to much below. However, much above-normal rains fell along the southeast coast near Calcutta; inland areas of the North were unseasonably rainless for the second week in a row, so more rainfall is needed before the wheat crop can be successfully planted.

S.E. ASIA. Most of Thailand was dry with below-normal moisture over the entire region. Substantial amounts stayed on the coast and in the Malay Peninsula. Nonetheless, the heavy rains of September preclude the need for more moisture in the near future.

AUSTRALIA. Sharply above-normal rains fell over much of Queensland, but the wheat belt in New South Wales received only light, below-normal amounts. Though this is the third week of relatively dry weather there, crop prospects remain very optimistic as the crop nears maturity.

AFRICA. Autumn rains began in parts of North Africa with normal amounts in Algeria and Tunisia, and drier weather in most other areas. The rainband in Central Africa continued its southerly drift a bit faster than normal. Rainfall was below normal along its northerly edge. The Maize Triangle in South Africa received only light rainfall, but the hills just to the east accumulated much above-normal amounts.

AMERICAS. The rainfall pattern in southern Brazil became quite variable, ranging from much-below to much-above normal. Portions of the soybean areas in both Rio Grande do Sul and Parana received normal amounts, but other portions of these areas ranked below normal. Rio Grande do Sul has sufficient soil moisture supplies, but Parana needs more moisture to assure successful planting. Adequate rains continued in Argentina's wheat areas as the crop nears maturity. In Canada, the prairie provinces noted a second week of good weather, and essentially wrapped up the harvest.



IMMEDIATE - U. S. Weather Report

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FIRST CLASS MAIL

HARVESTING PROGRESS

PERCENT OF ACREAGE HARVESTED
 AS OF OCTOBER 22

soybeans

	1978	1977	AVG.
ALA	39	27	27
ARK	29	29	32
GA	21	12	12
ILL	86	76	89
IND	55	55	65
IOWA	76	75	79
KANS	60	40	45
KY	44	36	45
LA	53	47	45
MICH	35	30	55
MINN	91	80	89
MISS	41	41	29
MO	47	41	48
NEBR	85	65	75
NC	12	7	9
OHIO	65	70	75
SC	11	7	5
TENN	30	38	19
TEX	30	40	31
U.S.	58	52	60

THESE 19 STATES PRODUCED 96%
 OF THE 1977 U.S. SOYBEAN CROP.

corn

	1978	1977	AVG.
GA	88	88	67
ILL	62	55	53
IND	40	50	30
IOWA	60	59	44
KANS	80	80	45
KY	64	63	59
MICH	25	20	25
MINN	67	68	64
MO	53	63	52
NEBR	30	55	45
NC	90	100	82
OHIO	40	40	35
PA	NA	NA	NA
S DAK	60	39	58
TEX	95	99	92
WISC	25	45	35
U.S.	57	57	48

THESE 16 STATES PRODUCED 94%
 OF THE U.S. CORN CROP.

SEEDING PROGRESS

PERCENT OF ACREAGE PLANTED
 AS OF OCTOBER 22

winter wheat

	1978	1977	AVG.
COLO	100	100	100
ILL	80	64	80
IND	70	55	75
KANS	95	90	90
MO	62	34	NA
MONT	100	100	100
NEBR	100	100	100
OHIO	80	70	80
OKLA	90	90	86
S DAK	100	100	100
TEX	85	74	85
11 STATES	92	87	90

THESE 11 STATES PRODUCED 75%
 OF THE 1977 U.S. WINTER
 WHEAT CROP.

NA NOT AVAILABLE

cotton

	1978	1977	AVG.
ALA	60	48	27
ARK	37	72	53
GA	46	33	31
LA	70	56	33
MISS	76	70	39
MO	66	65	41
NC	32	35	27
OKLA	9	7	5
SC	70	51	38
TENN	72	65	33
TEX	28	45	29
11 STATES	40	49	31*

*W/E 10/15 SHOULD BE 25%
 THESE 11 STATES PRODUCED 72%
 OF THE U.S. COTTON CROP.

sorghum

	1978	1977	AVG.
COLO	52	52	28
KANS	60	50	35
MO	54	71	55
NEBR	70	65	65
OKLA	24	36	40
S DAK	56	49	68
TEX	84	91	89
7 STATES	68	68	62

THESE 7 STATES PRODUCED 93%
 OF THE 1977 U.S. SORGHUM CROP.