

WEEKLY WEATHER AND CROP BULLETIN

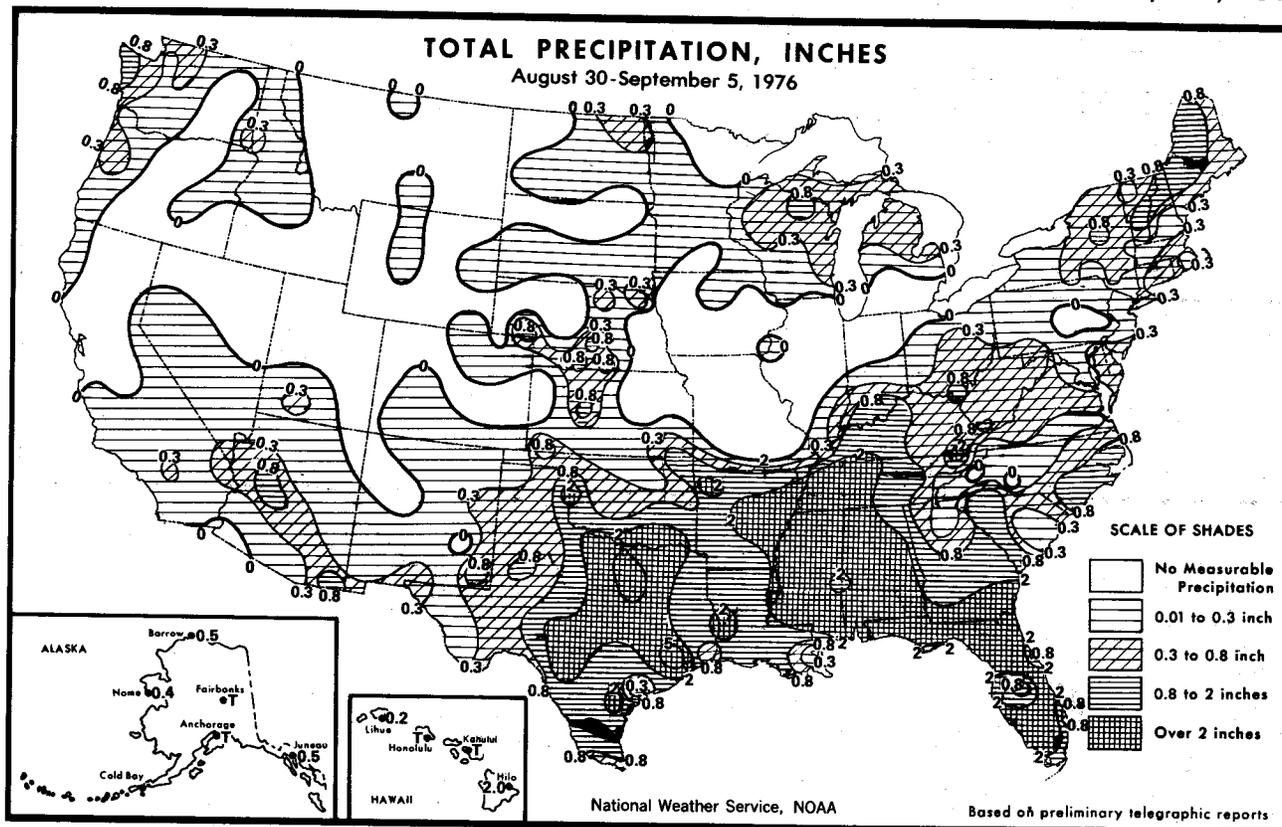
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National Weather Summary

For the Week of August 30-September 5

HIGHLIGHTS: Lower temperatures caused some frost and autumn-like coolness in the Great Lakes region, the upper Ohio Valley, the northern Atlantic Coast States and much of New England, while the Plains States received hot, dry weather and a high fire potential. Rain showers and thunderstorms moved into southern California and southwestern Arizona on Friday and caused flash flood watches and some anxiety to raisin dryers in the southern San Joaquin Valley.

A cool air mass from Canada brought autumn-like readings in the Great Lakes region, upper Ohio Valley, the northern Atlantic Coast, and much of New England. The mercury dropped to only 29° at Pellston, Mich. early Monday. Summer plagued the northern Plains States with temperatures in the mid-90's.

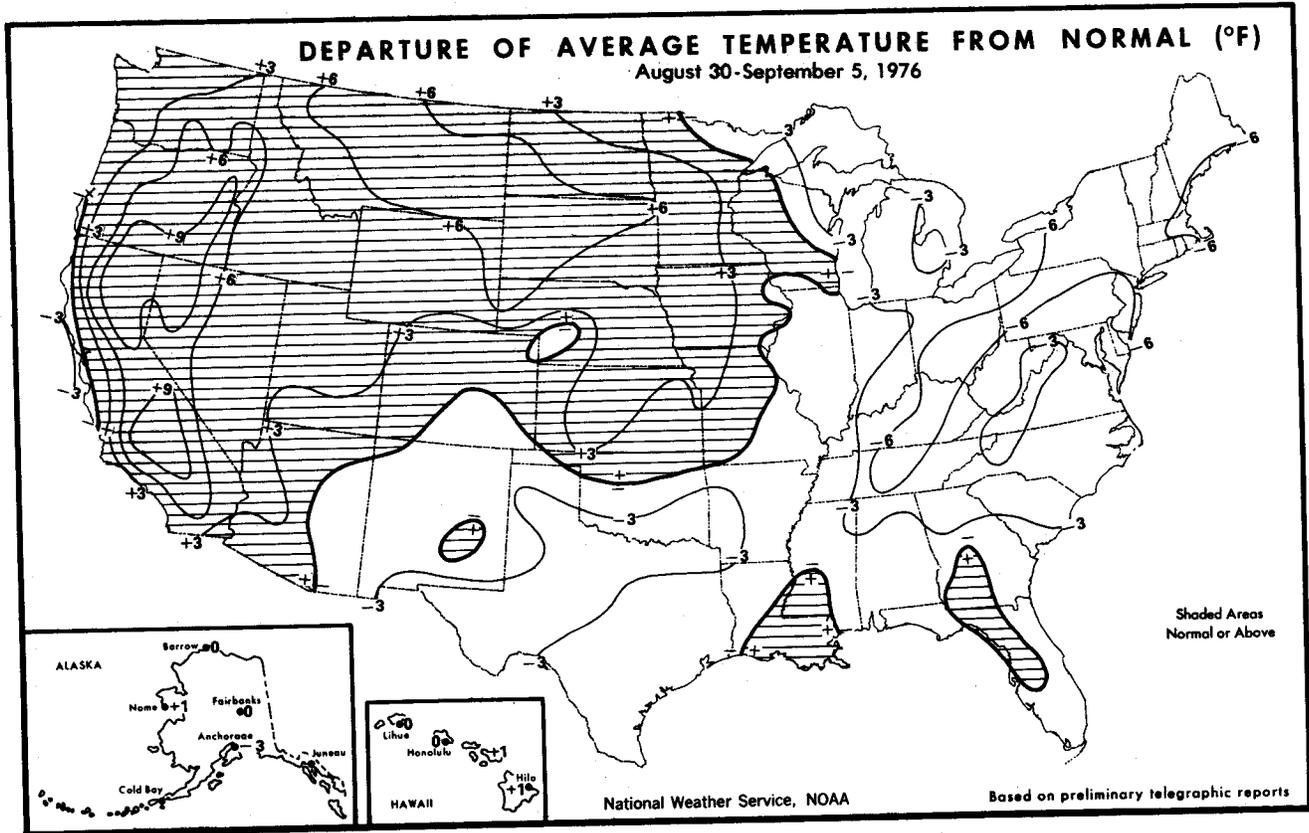
Thundershowers fell over Texas, the western half

of the Gulf Coast, southern Florida, eastern Georgia, southern South Carolina, and the northern Rockies. Nearly 2 inches of rain dropped on Wichita Falls, Texas and more than 1 inch on Jackson, Miss. in a 6-hour period.

Temperatures again plummeted to record lows early Tuesday in the northern half of the Atlantic Coast States. Philipsburg, Pa. recorded a mere 27° and Enosburg, Vt. only 31°.

A northward flow of moist air from the Gulf Coast and the approach of a frontal system in the Plains produced shower and thundershower activity through the Nation's midsection. Scattered thunderstorms dotted the area from Texas through the Plains, into the upper Mississippi Valley, the southern Rockies, and Florida.

Mostly clear skies prevailed over the western third of the Nation, as temperatures ranged from the 70's through the Pacific Northwest and the



northern Rockies into the 80's in the southern Rockies.

Severe weather reports included tornadoes near Beeville and Elgin Texas; golf-ball sized hail at Axtell, Nebr.; and high winds in the Hastings, Nebr. and Ludington, Mich. areas.

Summer thunderstorms dropped more than 8 inches of rain over the north Texas town of Ennis on Wednesday. Just 40 miles north, the Dallas-Fort Worth Airport reported more than 4 inches of rain in a 24-hour period. Later, the rains subsided in north Texas.

Other scattered afternoon showers and thunder-showers occurred in eastern and southern Texas and stretched from Louisiana and Mississippi across Tennessee and into the Ohio Valley.

Some rain also dampened the eastern Dakotas and central Minnesota.

A large high pressure system brought fair skies to the West Coast and hot weather to central and eastern Oregon and the interiors of northern California.

Cool temperatures greeted Thursday morning, as Michigan listed the Nation's low of 26° in Grayling, Marquette, and Pigeon River.

Showers and thunderstorms extended through central and eastern Texas, the lower Mississippi River, along the Gulf of Mexico Coast, and from the central Appalachians across the northern half of the Atlantic Coast. Heavy thunderstorm action caused lightning warnings in southern Alabama.

Precipitation could not be found from the West Coast across the Rockies, into the northern and central Plains, the lower Ohio Valley, the northern and middle Mississippi Valley, and the Great Lakes

region where a large high pressure system dominated. The western Dakotas set extremely high records for Sept. 2, as Bismarck, N. Dak. and Philip and Pierre, S. Dak. reached 102°.

Frost moved into the Northeast early Friday, as temperatures plummeted to 30° at Caribou, Maine and Bishopville, N. Y. and 32° at Philipsburg, Pa. In sharp contrast, hot, dry weather placed fire hazards on Utah, the Colorado Mountains, South Dakota, Nebraska, Wisconsin, and Michigan.

Rainshowers and some thunderstorms in southern California and southwest Arizona caused flash flood watches in the desert and mountain areas and some anxiety to the raisin dryers of California's southern San Joaquin Valley. In addition, a few showers and occasional thunderstorms continued from central Texas, through the lower half of the Mississippi Valley and the Gulf of Mexico States.

Widely scattered thunderstorms dotted southern and central California, western and southern Nevada, central Colorado, and Arizona on Saturday. Flash flood watches continued for the mountain and desert areas of southern California.

Relatively cool weather persisted over the Northeast as high temperatures ranged from the 60's to the mid-70's from the Great Lakes into New England on Sunday. However, the northern and central Plains States and the northern Rockies hit record highs. Bismarck, N. Dak. soared to 100° after an early morning low of 43°.

Scattered thunderstorms continued through southern California and the Plateau region and again posed the threat of flash flooding. During a 6-hour period, Douglas, Ariz. received more than 1 inch of rain.

National Agricultural Summary

For Week of August 30-September 5

HIGHLIGHTS: Rains aided crop growth across the South from Texas to Florida and as far north as Tennessee. Elsewhere, limited precipitation provided no relief to drought-stricken areas in the western North Central States, middle Atlantic States, and California. Winter wheat seeding began, but the process was slowed by rains in Texas and elsewhere by dry soils.

SMALL GRAINS: Small grain harvest advanced rapidly from Minnesota to Washington and Oregon. Some winter wheat remained to be combined only in Idaho. Spring wheat harvest exceeded 90% in all States except Montana at 85% and Idaho standing at 55%.

Farmers tried to seed next year's winter wheat crop; but dry soils discouraged some, while Texas farmers coped with too much rainfall. Ohio farmers finished 55% of their fall plowing, 5 points ahead of last year. Indiana winter wheat growers seeded 5% of the 1977 crop and prepared half of the intended wheat acreage for planting, equal to last year but behind the 55% average. Kansas growers began seeding winter grains. In Colorado, seeding reached 18% complete, compared with 22% last year and 18% average. The new plantings need rain to assure good germination. Wyoming farmers planted 28% of their crop and 7% had already emerged. In Texas winter wheat seeding advanced to 4% edging ahead of 1975's 3% but well behind the 11% average. Rains delayed planting in most of the State, but dry soils on the high plains slowed plantings there.

CORN: Most of the U. S. corn crop reached the dent stage. Among the major producing States the dent stage ranged from 55% in Michigan to 96% in Iowa. Frost damaged some corn in northern Wisconsin.

In the eastern North Central States, from 55 to 85% of the crop reached dent stage. In Michigan, 5% of the crop was mature, while Illinois advanced to 50% maturity. Generally, maturity lagged last year's early crop but surpassed the normal development rate.

Corn development in the western North Central States ranged from 65% dent in Kansas to 96% in Iowa. In Missouri, harvesting reached 7% compared with 10% in 1975 and 4% average. About 41% of the South Dakota crop was judged safe from frost damage. Unseasonably warm weather pushed Minnesota's crop rapidly to 27% mature, far ahead of 1975's 12% and a normal 13%. Corn in parts of Iowa dried to maturity causing poor kernel development. Some farmers diverted additional acreage to silage to compensate for low forage yields. Nebraska's irrigated corn rated good, but dryland acreage scored poor.

In southern areas, harvest reached 41% in South Carolina, 18% in North Carolina, 32% in Georgia, 24% in Alabama, Mississippi 10%, Arkansas 25%, Louisiana 45%, and Texas 30%. Harvest rate forged ahead of recent years in most of these States. Rainy weather slowed harvest in some of the western South Central States.

COTTON: The cotton crop showed improvement in Arkansas and Louisiana. Texas harvest reached 6% complete, behind 11% last year and the 10% average. Picking began on a very limited scale in several other States. The percent of open bolls ranged from 3% in Arkansas to 19% in South Carolina. In Arkansas, recent rains should help size bolls. Rains brought some relief to Oklahoma's cotton in the southwest. Statewide, 90% of the cotton set bolls lagged the 96%

average. In Texas, rain slowed picking, but elsewhere non-irrigated fields remained drought-stressed. In New Mexico, boll setting neared completion in major producing areas. Arizona cotton progressed satisfactorily and farmers defoliated some fields.

SOYBEANS: Most of the Nation's soybean crop rated fair to good, but some areas including parts of Arkansas and Missouri listed only poor condition. Development exceeds recent years in most States. Unseasonably high temperatures rushed some of the crop in the western North Central States to an early maturity. Leaf drop became widespread ranging mostly from 5 to 38%. Shedding advanced the most in South Dakota and Minnesota and revealed the affects of the hot dry weather. In Iowa, 67% of the leaves began turning yellow compared with 43% in 1975 and 34% average; 24% of the crop shed its leaves.

OTHER CROPS: The United States sorghum crop, in mostly fair to good condition, advanced rapidly to maturity. Over half of the western North Central States crop showed color equalling last years progress but slightly ahead of normal. Harvest progressed in Texas, Mississippi, and Arkansas. In Texas, harvest completion reached 54% compared with 59% in 1975 and 52% average. Rains slowed combining progress. The Oklahoma crop needs rain to fill heads and to aid late plantings.

Rice combining was underway in all major producing States except California. The Texas harvest reached 97% complete, surpassing 90% in 1975 and 78% average. In Louisiana, 67% of the rice was combined just under 1975's 68% and 71% average. Arkansas farmers combined 1% of the crop lagging 1975's 9%.

Peanut harvest extended from Texas, across Alabama and Mississippi, to Georgia. Rains in Texas delayed harvest to only 9% complete, well behind last years 19% and the 25% average. Georgia farmers threshed 12% of the crop, last years figure was 19%. Mississippi's harvest hit 22% complete, also behind last years 38%.

FRUITS AND NUTS: Growers picked fall apple varieties throughout the United States. Summer harvest wound down in Michigan. Grape harvest was active in South Carolina, Pennsylvania, and in California where wine grape picking increased. The New York harvest should start soon. Oregon and New York growers picked peaches, as harvest neared completion in New Jersey and Michigan.

VEGETABLES: Summer vegetable harvests advanced in the Pacific Northwest, the Northeast, Michigan and Wisconsin. New Jersey harvest of fall greens increased. California vegetables recovered well from past rains. Heavy volumes of broccoli, cauliflower, and celery moved to market. In Texas, wet conditions hampered seeding operations for many vegetable crops. Growing crops made excellent progress in response to the rainfall. Harvests continued in northern Texas. Florida growers transplanted tomatoes, green peppers, eggplants, seeded beans, sweet corn, cucumbers, and squash.

PASTURES AND LIVESTOCK: Grasslands nationwide were generally short, earning only a fair condition from observers. Farmers fed hay and other forage crops to supplement the pasture deficit, particularly in the areas of severe soil moisture shortages. Culling and heavy marketings continued from the western North Central States.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., September 5, 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 . . .	75	-2	2.2	+1.3	La. Baton Rouge . . .	81	+1	1.0	+1	Youngstown . . .	61	-5	-1	-5
Mobile . . .	79	-1	3.1	+1.5	Lake Charles . . .	81	0	1.2	+2	OKLA. Okla. City . . .	77	0	.5	-3
Montgomery . . .	78	-1	2.2	+1.2	New Orleans . . .	81	0	2.0	-1.2	Tulsa . . .	77	0	T	-9
ALASKA. Anchorage . . .	50	-3	T	-6	Shreveport . . .	78	-3	1.0	+3	OREG. Astoria . . .	61	+1	-2	-2
Barrow . . .	35	0	.5	+3	MAINE. Caribou . . .	51	-7	.8	0	Burns . . .	70	+8	T	-1
Fairbanks . . .	35	0	.5	-4	Medford . . .	58	-5	.5	-2	Bendford . . .	73	+5	T	-1
Juneau . . .	52	0	.5	-9	Portland . . .	68	-4	.4	-4	Pendleton . . .	75	+7	0	-1
Kodiak . . .	-	-	-	-	MD. Baltimore . . .	68	-4	.6	-2	Portland . . .	67	+2	.2	-1
Nome . . .	47	+1	.4	-3	MASS. Boston . . .	64	-	.5	-2	Salem . . .	66	+2	.5	+3
ARIZ. Flagstaff . . .	63	+2	T	-5	Chatham . . .	61	-	.5	-	PA. Allentown . . .	63	-5	-2	-7
Phoenix . . .	90	+3	.3	+1	MICH. Alpena . . .	57	-3	.4	-4	Erie . . .	62	-3	-1	-7
Tucson . . .	82	0	.3	-1	Detroit . . .	64	-4	T	-6	Harrisburg . . .	66	-5	T	-7
Winslow . . .	71	-2	.1	-2	Flint . . .	63	-2	T	-7	Philadelphia . . .	68	-4	-1	-7
Yuma . . .	92	+2	.7	-1	Grand Rapids . . .	63	-3	0	-7	Pittsburgh . . .	61	-6	T	-6
ARK. Fort Smith . . .	74	-4	T	0	Houghton Lake . . .	61	-5	.8	+1	Scranton . . .	61	-6	-2	-5
Little Rock . . .	75	-2	.8	0	Lansing . . .	57	-4	T	-6	R.I. Providence . . .	60	-7	.3	-5
CALIF. Bakersfield . . .	90	+11	.1	+1	Marquette . . .	61	-5	.2	-5	S.C. Charleston . . .	75	-3	-1	-1.2
Eureka . . .	55	-2	T	0	Muskegon . . .	54	-5	.4	-5	Columbia . . .	73	-5	-1	-1.1
Fresno . . .	82	+6	T	-1	S. Ste. Marie . . .	59	+1	T	-8	Greenville . . .	71	-4	1.2	+3
Los Angeles . . .	77	+3	.2	-1	MINN. Duluth . . .	57	-1	0	-8	S.D. Aberdeen . . .	72	+7	T	-4
Red Bluff . . .	87	+9	T	0	Internatl Falls . . .	68	+3	.2	-5	Huron . . .	71	+5	T	-4
San Diego . . .	76	+5	0	0	Minneapolis . . .	65	+1	.2	-6	Rapid City . . .	73	+7	.2	-1
San Francisco . . .	61	-3	0	0	Rochester . . .	68	+5	.3	-5	Sioux Falls . . .	71	+5	T	-7
Stockton . . .	79	+5	0	0	St. Cloud . . .	79	0	3.2	+2.4	TENN. Chattanooga . . .	72	-4	.4	-4
COLO. Denver . . .	69	+2	0	-2	MISS. Jackson . . .	77	-2	1.9	+1.1	Knoxville . . .	70	-5	.2	-4
Grand Junction . . .	74	+3	T	-3	Meridian . . .	74	+2	T	-9	Memphis . . .	76	-1	4.7	+3.9
Pueblo . . .	70	-1	.4	-2	MO. Columbia . . .	77	+4	T	-1.0	Nashville . . .	69	-7	2.1	+1.3
CONN. Bridgeport . . .	63	-7	.4	-4	Kansas City . . .	73	-1	0	-6	Nashville . . .	76	-4	1.0	+5
Hartford . . .	61	-6	.6	-3	St. Louis . . .	74	+1	T	-8	TEX. Abilene . . .	70	-4	.4	-1
D.C. Washington . . .	71	-3	.1	-8	Springfield . . .	72	+8	T	-3	Amarillo . . .	81	-1	1.9	+1.2
FLA. Apalachicola . . .	79	-2	1.9	-3	MONT. Billings . . .	72	+5	0	-3	Austin . . .	81	-1	.5	-8
Daytona Beach . . .	79	-2	.4	-1.3	Glasgow . . .	68	+8	0	-3	Beaumont . . .	82	-1	.3	-8
Ft. Myers . . .	81	-2	4.4	+2.4	Great Falls . . .	70	+7	T	-3	Brownsville . . .	83	0	1.2	+1
Jacksonville . . .	79	-1	3.0	+1.1	Havre . . .	69	+5	T	-3	Corpus Christi . . .	83	0	--	--
Key West . . .	83	-1	.6	-9	Helena . . .	66	+6	0	-3	Dallas . . .	81	-2	.7	+1
Lakeland . . .	82	+1	.7	-9	Kalispell . . .	64	+7	T	-3	Del Rio . . .	73	-5	.7	+4
Miami . . .	80	-3	1.4	-4	Miles City . . .	73	+5	T	-3	El Paso . . .	79	-3	6.6	+5.9
Orlando . . .	81	0	2.7	+1.0	Missoula . . .	65	+4	T	-3	Fort Worth . . .	81	-1	2.0	+7
Tallahassee . . .	81	+1	3.9	+2.3	NEBR. Grand Island . . .	74	+6	T	-6	Galveston . . .	81	-1	6.9	+5.8
Tampa . . .	82	0	1.0	-7	Lincoln . . .	76	+6	T	-6	Houston . . .	74	-1	5.5	0
W. Palm Beach . . .	81	-1	.3	-1.7	Norfolk . . .	74	-1	T	-5	Lubbock . . .	75	-4	.4	0
GA. Atlanta . . .	72	-4	.3	-5	N. Platte . . .	67	+10	0	-9	Midland . . .	76	-5	1.7	+1.2
Augusta . . .	75	-2	.8	0	Omaha . . .	71	+4	T	-5	San Angelo . . .	81	-1	1.4	+6
Macon . . .	79	0	1.0	+2	Valentine . . .	65	+4	T	-1	San Antonio . . .	82	-1	.3	-7
Savannah . . .	77	-2	1.8	+4	NEV. Ely . . .	89	+5	.3	+2	Victoria . . .	81	-2	2.0	+1.3
HAWAII. Hilo . . .	77	+1	2.0	0	Las Vegas . . .	71	+7	.2	+2	Waco . . .	78	-4	2.5	+1.9
Honolulu . . .	81	0	T	-1	Reno . . .	72	+9	T	-1	Wichita Falls . . .	69	+2	0	-3
Kahului . . .	80	+1	T	-1	Winnemucca . . .	56	-8	.6	-1	UTAH. Blanding . . .	74	+4	0	-2
Lihue . . .	79	0	.2	-2	N.H. Concord . . .	63	-8	.6	-3	Salt Lake City . . .	55	-9	.3	-5
IDAHO. Boise . . .	73	+5	T	-1	N.J. Atlantic City . . .	66	-5	-1	-7	VT. Burlington . . .	66	-6	.3	-5
Lewiston . . .	76	+8	.3	+1	Trenton . . .	66	-5	-1	-2	VA. Lynchburg . . .	72	-3	.3	-9
Pocatello . . .	69	+5	T	-2	N.MEX. Albuquerque . . .	73	-1	T	-3	Norfolk . . .	69	-5	.5	-5
ILL. Cairo . . .	75	-1	.2	-6	Roswell . . .	76	+2	T	-6	Richmond . . .	69	-2	.3	-6
Chicago . . .	70	0	T	-7	N.Y. Albany . . .	59	-7	.1	-6	Roanoke . . .	67	+4	T	-2
Moline . . .	70	+1	0	-9	Binghamton . . .	57	-7	.2	-5	WASH. Colville . . .	68	+2	.1	0
Peoria . . .	69	-1	0	-8	Buffalo . . .	60	-5	-1	-7	Omaha . . .	58	0	1.0	+2
Rockford . . .	66	-2	T	-9	New York . . .	66	-6	-1	-5	Quillayute . . .	63	+1	.3	-1
Springfield . . .	71	0	0	-7	Rochester . . .	60	-6	.5	-2	Seattle-Tacoma . . .	69	+5	T	-1
IND. Evansville . . .	70	-3	1.7	+1.1	Syracuse . . .	60	-7	.5	-9	Spokane . . .	75	+5	0	-1
Ft. Wayne . . .	67	-1	T	-6	N.C. Asheville . . .	66	-4	T	-9	Walla Walla . . .	71	+6	T	-1
Indianapolis . . .	67	-3	.1	-5	Charlotte . . .	72	-3	T	-8	Yakima . . .	62	-4	.7	-1
South Bend . . .	65	-3	0	-8	Greensboro . . .	68	-5	1.1	-4	W.Va. Beckley . . .	66	-5	.7	0
IOWA. Burlington . . .	69	-1	T	-8	Hatteras . . .	72	-4	.6	-4	Charleston . . .	67	-4	.6	-1
Des Moines . . .	73	+4	0	-8	Raleigh . . .	70	-4	.6	+1	Huntington . . .	65	-6	.5	-2
Dubuque . . .	65	-1	.1	-1.0	Wilmington . . .	75	-3	1.6	+1	Parkersburg . . .	60	-3	.6	-1
Sioux City . . .	72	+4	T	-7	N.DAK. Bismarck . . .	68	+5	.1	-3	WIS. Green Bay . . .	68	+2	.3	-5
KANS. Concordia . . .	78	+6	0	-8	Fargo . . .	68	+5	0	-4	La Crosse . . .	64	0	T	-8
Dodge City . . .	70	+1	T	-3	Williston . . .	68	+6	.2	-4	Madison . . .	67	+2	.3	-4
Goodland . . .	75	+2	0	-9	OHIO. Akron-Canton . . .	61	-6	.3	-3	Milwaukee . . .	69	+5	0	-2
Topeka . . .	76	+1	T	-8	Cincinnati . . .	66	-6	T	-7	WYO. Casper . . .	65	+2	.2	-1
Wichita . . .	66	-6	.5	-2	Cleveland . . .	63	-4	.6	0	Cheyenne . . .	69	+5	T	-2
KY. Lexington . . .	66	-6	.9	+2	Columbus . . .	63	-6	.1	-5	Lander . . .	68	+5	T	-3
Louisville . . .	69	-4	.9	+2	Dayton . . .	64	-6	T	-6	Sheridan . . .	83	+1	4.5	+3.0
					Toledo . . .	64	-4	T	-6	P.R. San Juan . . .				

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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: Temperatures below normal, rainfall above normal. Frequent showers brought considerable precipitation to most areas. Lightest amounts in southeast.

Soil moisture short to adequate before weekend rains. Crops maturity rapidly. Corn and peanuts harvested as conditions permitted. Cotton fair to good. Bolls open few fields. Harvest expected to start soon. Sprayings continue. Corn good condition; 24% harvested, 17% last year. Soybeans good to fair condition; 17% mature, 8% last year. Peanut harvest underway; 15% dug and 11% combined. Pastures fair condition, some damage by armyworms.

ALASKA: Tanana Valley temperatures slightly above normal and rainfall light. Locally heavy showers 29th and 30th. Early cold weather from northwest 20th caused widespread rain and snow in the Big Delta area followed by light frost 3d. Matanuska Valley temperatures near normal and very dry. Light frost some areas 3d. Kenai Peninsula near normal temperatures and light rainfall. Light frost 3d. Kodiak temperatures near normal, rainfall above normal.

Extremely dry conditions prevailed throughout Railbelt. Grain yields expected to be average in spite of the general lack of moisture. Grain harvest underway throughout Tanana and Matanuska Valleys. Second cutting hay less than 40% completed with low production due to dry conditions. Prospects are below average for potatoes, silage and hay. Ground moisture supply very short.

ARIZONA: Widely scattered showers. Over 1.00 in. central basins, southeast, White Mountains. Temperatures near normal.

Cotton good progress. Few fields defoliated. Sorghum normal progress. Harvest underway early fields. Sugarbeets good growth. Alfalfa hay cutting full swing. Lettuce planting nearing completion; hand weeding, thinning underway. Seedbed preparation, planting cabbage, broccoli. Cantaloups satisfactory progress. Limited lemon harvest. Other citrus good condition. Spotty rainfall. Stock water supplies adequate higher elevations, short in desert. Range conditions no change, poor to fair in desert. Livestock lower elevations good condition, supplemental feeding.

ARKANSAS: Temperatures 1 to 6° below normal. Extremes: 94 and 47°. Precipitation general with heaviest amounts southern half.

Precipitation helped soybeans, but yield reductions inevitable with prolonged dry spell. Condition mostly fair to poor. Cotton condition improved. Rain will help size bolls. Open bolls 3% of acreage, 7% last year. The first bale reported ginned. Rice condition good; 1% harvested, 9% year ago. Corn good condition, about 25% harvested. Sorghum harvest 17% complete, 34% last year. Rain improved hay condition; another cutting possible. Pastures short. Marketing of beef cattle up.

CALIFORNIA: Considerably higher than normal temperatures except over extreme northwest corner where average temperatures were near normal. Central valley temperatures as much as 9° warmer than normal. Late week a few light showers along extreme south coast.

Crop development improved after cool spell. Harvesting dry beans, sugarbeets. Rice turning.

Milo and corn maturing. Alfalfa seed harvest beginning. Cotton opening, wilt concern, final irrigation. Almond, wine grape harvests increasing. Grape crushing begun Napa County, begin other areas about 10 days. Harvest begun pomegranates with good crop. Walnut hulls splitting. Vegetables recovering well from past rain. Processing tomatoes doing well, harvest near completion in south San Joaquin Valley. Some discing of fields. Melon harvest progress good. Heavy harvest of broccoli, cauliflower, celery, and summer potatoes. Increased fresh market strawberry harvest. Lower demand for cauliflower caused diversion to processors. Rangeland remains dry. Rain needed to keep grass growing. Supplemental feeding continues. Water supplies remain low.

COLORADO: Winter wheat seeding 18%, equal average, 22% 1975. Moisture needed for germination. Spring barley, oat harvest 50% San Luis Valley, complete elsewhere. Sorghum fair to good condition, 92% headed. Corn condition good, 71% dough, 81% 1975; 33% dented, 47% 1975. Cutting corn silage. Dry bean windrowing 22%, average 17%; combining 8%, average 5%. Fall potato condition good. Summer potato harvest slow. Alfalfa condition good, second cutting 83%, third cutting 36%. Soil moisture very short to short, adequate mountains. Range and pasture poor to fair east, fair to good west slope. Livestock good condition. Supplemental feeding east central. Peach harvest past peak, pears nearly complete. San Luis Valley lettuce harvest almost finished. Onion harvest continued.

FLORIDA: Warm with scattered thundershowers first half. Increasing cloudiness and thundershowers' second half. Temperatures near normal. Rainfall moderate to heavy ranging from 1.00 in. to over 4.00 in.

Soil moisture adequate west, north and most of south, short in eastern Panhandle, central and upper east coast areas. Corn harvest active, nearing completion some areas. Yields mostly excellent. Peanut harvest active, yields variable. Tobacco marketing nearing completion. Haying continues. Cutting sugarcane for seed active. Soybean and cotton fair to good condition. Pecan prospects poor. Pastures continue generally good to excellent condition; however, some Panhandle, central and upper east coast areas poor to fair, limited shower activity. Few low west central pastures exceptionally wet. Cattle, calves mostly good condition but some Panhandle areas poor to fair. Citrus grove condition excellent, very little irrigation. Rain adequate, no 1976-77 harvest to date. Caretakers removing cover crops. Transplanting tomatoes, green peppers, eggplant active most areas. Crops growing well. Thinning, spraying active. Seeding snap beans, sweet corn, cucumbers, squash underway. Early plantings up to good stands, growing. Plantings should gain momentum this week. Land preparation for fall plantings continues quite active.

GEORGIA: Temperatures 1 to 3° below normal, ranging from 69° extreme northeast to 80° in south. Rainfall quite variable. Heaviest amount 4.04 in. near Brunswick followed by 2.14 in. Whitfield County and 2.06 in. Clay County. Most areas received under 1.00 in.

Soil moisture extremely variable, east central very short, south central adequate, others mixed. Some areas had showers, more needed. Fieldwork: 5.0 days suitable. Cotton weaker, mostly fair to good, 11% open. Peanuts fair to good, harvest continues, 16% dug, 12% threshed, last year 19% and 9%, average 20% and 12%. Corn fair to mostly good, slightly improved, grain harvest active southern half, harvesting at high moisture and drying necessary, 32% harvested, last year 17%, average 7%. Soybeans slightly weaker, fair to good, more moisture needed. Tobacco marketing continued. Hay crops slightly weaker, mostly fair to good. Pastures mostly fair to good, some forced marketing continues. Armyworms troublesome most areas. Apples fair to mostly good, harvest very active. Pecans mostly fair to good, commercial growers fighting insects. Cattle fair to mostly good, hogs good condition.

HAWAII: Weather warm and humid. Showers mainly windward areas all islands.

Heavy downpour Waimanalo area Oahu 3d. No serious crop damage. Irrigation heavy most crop areas. Vegetable supplies adequate. Banana supplies increasing. Papaya supplies light. Sugar harvesting steady. Pastures adequate windward area. Leeward area dry.

IDAHO: Temperatures averaged near to 6° above normal. Maxima 84° Ashton, 102° Orofino. Minima 33° Fairfield, Tetonia, 54° Lewiston. No measurable precipitation.

Harvest crops progressed. Good moisture winter seeded crops. Harvest winter wheat 70% 1976, 55% 1975, spring wheat 55% 1976, 55% 1975, barley 65% 1976, 60% 1975. Dry beans 5% 1976, 0% 1975.

ILLINOIS: Temperatures near normal north; 1 to 2° subnormal south. Precipitation up to 1.50 in. extreme southeast, very little or none elsewhere.

Corn good to fair; 81% reached dent, 94% 1975, 82% average; 50% mature, 74% 1975, 43% average. Soybeans good to fair; 57% turning yellow, 68% 1975, 41% average; 20% shedding leaves, 36% 1975, 15% average. Winter wheat acreage 70% plowed, 75% 1975, 77% average. Third crop alfalfa hay good to fair; 75% cut, 70% 1975 and average. Pastures fair to poor. Soil moisture short. Fieldwork: 6.8 days suitable.

INDIANA: Rainless north and central. Some areas less than 0.50 in. past 30 days. Evening of 4th showers with frontal passage produced 1.50 in. southwest, 0.90 in. south central, and 0.30 in. southeast. Temperatures below normal. Morning lows on 6th in low 40's in north.

Fieldwork: 6.0 days suitable. Topsoil and subsoil moisture lower, mostly short to adequate. Corn 10% mature, same as average, 1975 20%. Corn 60% dented, 40% in dough or predough. Soybeans 5% shedding leaves, 35% turning yellow. Wheat land 50% plowed, 1975 50%, average 55%. Wheat 5% seeded, same as average. Rye 5% seeded. Tobacco 35% harvested, 1975 15%. Silos 15% filled, 1975 10%. Pastures lower, poor to fair.

IOWA: Hot, dry with temperatures from 1 to 8° above normal and a few light showers falling over some northern areas the 31st to 1st.

Hot, dry weather, very little rain, drought-like conditions in west central and northwest. Fieldwork: 7 days suitable. Corn and soybeans drying and maturing prematurely in the west central and northwest areas causing poor development of beans and corn kernels. Increasing acreages for silage in west central and northern third due to

poor yielding corn. Corn and soybeans in south-east and south central fair to good. Overall corn condition 3% excellent, 24% good, 41% fair, 32% poor. Corn in or past dent 96%, 84% 1975, 89% average. Corn in mature stage 44%, 44% 1975, 22% average. Soybeans poor to good. Soybean condition 2% excellent, 26% good, 48% fair, 24% poor. Leaves turning 67%, 43% 1975, 34% average. Leaves shedding 24%. Third cutting alfalfa 67% harvested, 55% 1975, 61% average. Topsoil moisture short. Subsoil moisture short. Pastures extremely short in west central and northwest. Supplemental feeding in many areas with livestock reported in good condition.

KANSAS: With exception of scattered showers and thunderstorms in west early and isolated rain extreme east after 1st little significant moisture reported. Temperatures ranged from 73° northwest to 78° central and northeast and from near normal southeast and southwest to from 2 to 5° above normal elsewhere.

Added heat stress to dry row crops. Corn 95% dough, same as last year and average; 65% dented, same as last year, 70% average; 30% mature, 35% last year and average. Sorghum 85% headed, 90% last year, 85% average, 45% colored, 50% last year, 40% average. Third cutting alfalfa 95% complete, 80% last year, 90% average. Fourth cutting 20% complete, 4% last year, 15% average. New alfalfa acreage 25% seeded, 50% last year, 45% average; delayed by dry weather. Some wheat seedings underway westcentral and southwest.

KENTUCKY: Rainfall light, averaging near 0.50 in. east and 0.81 in. west. Temperatures a few degrees below seasonal normal of 72°.

Fieldwork: 4.0 days favorable. Soil moisture adequate to short. Main work centering around tobacco and hay harvest. Burley 53% cut, 33% last year and 30% average. Darks 51% cut, also about week to 10 days ahead last year. Fall seeding alfalfa below normal. Corn maturing normally, 19% already mature and 52% dented but not mature, 6% in milk stage or earlier. Silage corn nearly 33% harvested. Soybeans still mostly green, about 25% with leaves turning yellow and 7% shedding leaves. Pastures improved by showers but many short under heavy grazing.

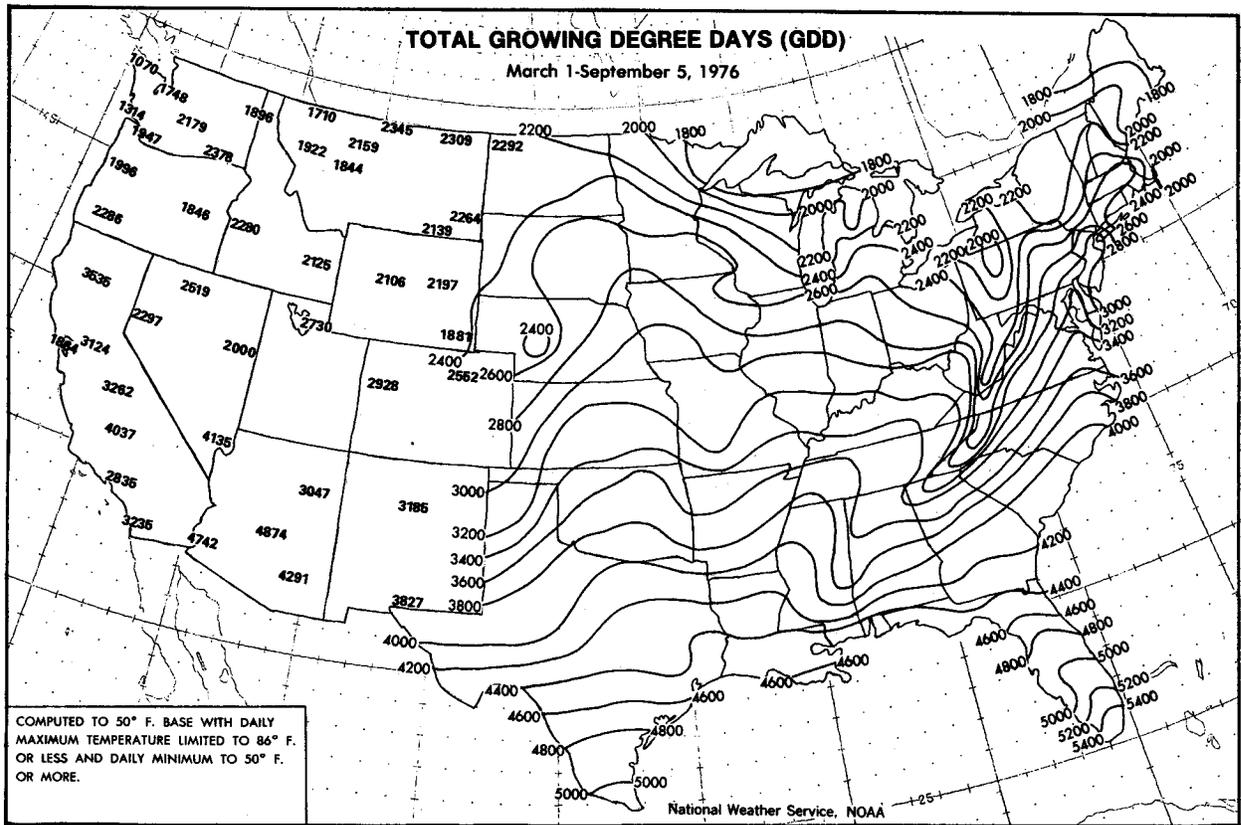
LOUISIANA: Temperatures slightly below normal. Rainfall light to moderate.

Soil moisture short to adequate. Cotton prospects improved slightly; open bolls 6%; few bales picked. Rice good; 83% ripe, 67% harvested, 68% year ago, average 71%. Soybeans fair to good; 94% setting pods; limited acreage harvested. Sugarcane fair to good; 25% planted; borer activity light. Corn good; 96% mature, 45% harvested, 48% last year. Sorghum 83% turning color, 40% ripe. Sweetpotatoes 20% harvested, 28% last year. Pastures fair condition. Livestock fair to good.

MARYLAND & DELAWARE: Temperatures 2 to 4° below normal. Extremes: Low 40's and low 90's. Western Maryland cooler. Precipitation ranged 0.06 to 2.18 in. Weekend sunny but cool.

Corn 30% mature; 35% 1975. Corn for silage 40% harvested; 30% 1975, 32% average. Corn harvested for grain 10%; 4% 1975, 2% average. Soybeans 17% yellowed; 15% 1975. Prospects remain good. Tobacco 70% harvested; 60% 1975, 58% average. Excellent cutting and curing weather. Fall apple harvest getting underway.

MICHIGAN: Temperatures ranged from 90° south to 26° extreme north. Precipitation generally light



ranging from 0.01 in. south to 0.61 in. northwest Lower.

Soil moisture very short. Killing frost northern areas ended growing season. Corn 55% dent, 5% mature. Silage 10% cut. Oat harvest complete, 85% normal, 95% 1975. Dry beans 40% leaves shedding 20% harvested. Soybeans 45% leaves turning, 10% leaves shedding. Potato digging almost 25% complete, same as normal. Third cut hay 30%, 15% normal, 15% 1975. Pasture feed supplies short, heavy supplemental feedings. Summer apples 90% picked, 60% normal, 90% 1975. Peaches 85%, pears and plum harvest started. Cabbage 45%, sweet corn 75%, tomatoes 55% harvested.

MINNESOTA: Temperatures near normal north and east to 5° above normal southwest and west central. Extremes: 102 and 36°. Precipitation continued much below normal ranging from traces north and northeast to 0.10 in. southwest and west central to 0.25 in. southeast. Growing season departures 7.00 in. below normal east to 9.00 in. below normal west.

Corn, soybean crops maturing rapidly. Cutting corn for silage full swing and few scattered fields soybeans harvested. Number pods, bean size below average. Corn ears and kernel size below normal. Small grain harvest north wrapped up but flax harvest in full swing. Potato harvest getting underway. Dry soils delaying seeding winter wheat and rye, also hindering fall plowing. Corn 93% dented or beyond, 1975 72%, average 54%; mature 27%, 1975 12%, average 13%. Corn silage 37% cut, 1975 13%, average 10%. Soybeans 38% shedding leaves and beyond, 1975 24%, average 15%; mature 10%, 1975 3%, average 2%. Spring wheat 98% combined, 1975 81%, average 83%. Flax

65% harvested, 1975 47%, average 52%. Winter wheat 20% seeded, 1975 53%, average 34%. Rye 19% seeded, 1975 44%, average 33%. Potatoes 10% harvested, 1975 9%, average 6%. Sweet corn pack 80% completed, nearly 10 days ahead average.

MISSISSIPPI: Temperatures near or below normal. Extremes: 55 and 97°.

Soil moisture short to adequate. Fieldwork: 5.4 days suitable. Cotton 12% open bolls, 11% 1975, 11% average. Soybeans 90% podding, 88% 1975; 14% turning, 20% 1975; 2% shedding, 7% 1975. Rice 93% headed, 82% 1975; 14% ripe, 29% 1975. Corn 77% mature, 35% 1975; 10% harvested, 3% 1975, 8% average. Sorghums 57% ripe, 40% 1975; 24% harvested, 18% 1975, 20% average. Hay crops 77% harvested, 71% 1975, 72% average. Peanuts 22% harvested, 38% 1975. Sweetpotatoes 18% harvested, 40% 1975, 29% average. Crops in mostly fair condition.

MISSOURI: Temperatures 2° below normal in east Ozarks and normal to 3° above normal elsewhere. Precipitation 0.10 in. in Bootheel with no measurable amounts elsewhere.

Farming activities: Soybean and corn condition drop below any figure reported in past five years. Soybean condition is poor to fair. Corn condition is poor to fair. Soybeans have 88% pods set, 87% normal; 7% soybeans mature. No harvesting at this time. Corn 84% dented, 81% 1975, 68% normal. Corn 7% harvested, 10% 1975, 4% normal. Grain sorghum 93% headed; 20% grain sorghum matured, 37% 1975, 33% normal. Cotton has 9% bolls open, normal 9%; condition poor to fair. Third cutting alfalfa 81% complete, 80% 1975 and 83% normal. Conditions of pastures rated poor. Soil moisture short.

MONTANA: Hot, dry with temperatures averaging 5 to 8° above normal. Precipitation well below normal. Only a few areas reported measurable precipitation from scattered light showers. Hot, gusty winds at times along east slopes.

Small grain harvest nearing end. About 85% spring wheat and barley, 70% oats combined. Winter wheat harvest virtually complete. About 15% corn silage chopped and 10% dry beans combined. Second cutting alfalfa 70% baled. Winter wheat seeding 5% done, ahead of last year and normal. Grazing prospects late summer ranges fair to good. Range feed supplies adequate. About 5% livestock moved from summer ranges. Contracting and marketings all classes of livestock lighter than normal.

NEBRASKA: Temperatures 1 to 6° above normal. Few scattered showers and thunderstorms over southwest and central.

Wheat seedbed preparation continues; have begun limited sowing. Topsoil moisture supplies short. Subsoil moisture short. Irrigated corn good condition. Dryland corn mostly poor condition. Corn 75% in dent stage, normal 70% and 75% 1975; 20% mature, 15% normal and 1975. Silage harvest in full swing. Some cut to salvage feed. Sorghum and soybeans fair condition. Sorghum 70% turned, 60% normal and 70% 1975; over 15% ripe, 10% normal and 15% 1975. Soybean leaves 40% turned, 35% normal and 1975; 10% shed their leaves, 10% normal and 1975. Dry beans maturing rapidly, harvest underway. Alfalfa and wild hay poor to fair condition. Third cutting alfalfa 80% complete. Pasture and range feed supplies short. Supplemental feeding continuing with some culling of cattle.

NEVADA: Hot, dry conditions prevailed especially west and extreme south. Moderating temperatures and locally heavy thundershowers by weekend. Temperatures 5 to 10° normal most areas. Extremes: 37 and 109°. Rainfall ranged from few hundredths inch north to over 0.25 in. south. Third cutting alfalfa more widespread. Ranges mostly fair condition.

NEW ENGLAND: Week began dry. Scattered showers northern areas 30th with up to 1 in. snow higher elevations. Additional showers 2d and 5th. Cool, 4 to 6° below normal. First frost for many areas 31st.

Apple harvest underway most areas. Cranberry harvest to commence this week. Fall and late summer vegetables beginning to come in. Haying continues slow. Second cutting 85% complete south, 65% north. Early week rain kept Aroostook County fields wet, but vine killing and other harvest preparations active. Early potatoes being dug.

NEW JERSEY: Cold, dry northern areas as much as 11° below normal. Extremes: 34 and 87°. Rainfall averaged 0.23 in. north, 0.14 in. central and 0.25 in. south. Soil moisture, in percent of field capacity, averaged: 59% north, 43% central and 36% south. Soil temperature averaged: 68° north, and 72° south.

Soil moisture short. Cool temperatures beneficial. Harvest of fall greens increasing. Summer vegetable volume light and declining. Irish potato harvest 50% complete. Sweetpotato harvest scheduled to start next week. Fall apple harvest increasing. Cool temperatures improving color. Peach volume declining rapidly. Corn silage making increasing. Fall grain and cover crop seeding begun. Some late hay being made.

NEW MEXICO: Mostly mild temperatures. Widely scattered showers early then mostly dry till showers again southwest on 5th.

Moisture supplies short, ranges and cattle fair to good, sheep good. Cotton fair to good, boll setting near completion in major producing areas, some rust and wilt. Alfalfa good, fourth cut well advanced southern areas. Irrigated grain sorghum good, well advanced heading. Corn good, completed tasseling and dough stage. Harvest of corn and sorghum silage continued. Winter wheat seeding proceeded slowly due to dry condition. Apple harvest continued, pecans good.

NEW YORK: Temperatures 3 to 5° below normal. Frost, northern mountain valleys most mornings, other eastern valleys 31st and 3d. Precipitation 0.50 to 1.00 in. Adirondacks and St. Lawrence Valley. Western area had very little rainfall.

Another good week for fieldwork. Second cutting alfalfa 85% complete, third over 35%. Oat combining 80%. Plowing for winter wheat underway. Cool weather slowing corn growth. Early variety potato harvest decreasing; killing vines of later varieties. Peach, pear and early apple harvests continue. Some early variety grapes about ready for harvest.

NORTH CAROLINA: Generally light precipitation in many areas but of little help in easing drought. Temperatures below normal.

Fieldwork: 5.5 days suitable. Soil moisture very short to short. Crops generally deteriorated. Flue-cured tobacco harvest nearing completion. Burley tobacco 22% harvested, 34% 1975. Corn fair to good. Corn for grain 18% harvested, 10% 1975, 11% average; for silage 54% cut. Soybeans fair to good. Peanuts fair to good. Cotton fair. Pasture poor to fair. Sweetpotatoes fair to good; harvest lagging because of dry weather. Apples fair to good but mostly good in major producing area; 34% harvested, 27% 1975, 27% average.

NORTH DAKOTA: Temperatures above normal ranging from southwest to 3° northeast. Extremes: 102 and 37°. Precipitation below normal ranging from 0.44 in. to 0.32 in. Weekend record setting hot temperatures and dry.

Combining made good progress with hard red spring wheat 95% complete, durum 90%, barley and oats virtually complete. Potato digging to begin soon.

OHIO: Temperatures below normal. Extremes: 41 and 88°. Scattered showers and thunderstorms 1st and 4th. Northwest and west central portions remain dry. Corn 85% dented, 85% 1975 and 70% normal. Corn 25% mature, 30% 1975 and 20% normal. Soybeans 45% leaves turning yellow, 45% 1975 and 30% normal. Soybeans 10% leaves shedding, 15% 1975 and 10% normal. Harvest completion: Corn silage 25%, 25% 1975, and 20% normal; potatoes 30% dug; red clover seed 50%; apples 15%; tomatoes 40%; alfalfa hay 3d cutting 65% 40% 1975 and normal. Fall plowing 55%, 50% 1975 and normal. Soil moisture 40% short, 50% adequate, 1% surplus. Fieldwork: over 6 days suitable.

OKLAHOMA: Temperatures normal in the Panhandle to approximately 3° below normal east central. Precipitation 0.23 in. Panhandle and north central to nearly 1.35 in. in the south central.

South received helpful amounts of rain but more is needed. Wheat planting waiting on rain as near half acreage has final working. Ferti-

lizers being applied. Rains helped southeastern peanuts and soybeans and gave some relief to southwestern cotton. Over 90% cotton setting bolls, compared 96% average. Just over 70% soybeans setting pods and 90% peanuts putting down spikes, both average for date. A few peanut fields maturing in southeast. Sorghum condition only fair as rains needed to fill heads and help late planting. Pastures and range holding fair condition. Cooler weather helped cattle condition. Marketing active.

OREGON: Temperatures 5 to 10° above normal. Extremes: mid 40's, high 90's west; mid 30's, 101° east. No precipitation except for Enterprise with 0.04 in. and 0.01 in. at Astoria and Brookings. Fall grains 90% and spring grains 70 to 80% harvested in west. Except high elevations, nearly all grains have been harvested in east. Red clover harvest to begin soon. Third cutting alfalfa continues. Mint and hops being harvested. Peaches being harvested. Apples sizing well. Snap bean harvest nearly over. Sweet corn harvest increasing. Potatoes in good condition; harvest continues with good yields. Livestock in good condition. Range and pasture supplying ample forage. Water supplies good.

PENNSYLVANIA: Cool, sunny and dry. Temperatures 4 to 8° below normal. Record low readings 31st. First frost of season some central and northern areas. Extremes: 27 and 84°. Light showers accompanying cold frontal passage 3d and 4th provided less than 0.25 in. rainfall most places extending dry spell through third consecutive week.

Soil moisture short to adequate. Activities: Hay-making, fall plowing, sowing winter seed, cutting tobacco, harvest of potatoes, ensilage corn, apples and various vegetables. Tobacco 62% cut, 15 days ahead of 50% in 1975. Potatoes 29% dug, last year 27% set and tuber size good, some blight. Corn 1% pre-silk, 10% silked, 55% dough, 32% dented with 2% mature. Harvest ensilage corn 14%, equal to 1975. Corn in need of rain. Fall plowing 41% done, 31% last year. Wheat sown 33%, barley 29%. Alfalfa 2d cut 94%, third cut 64%, fourth cut 42%. Clo-tim 2d cut 81%. Hay quality mostly good. Feed from pastures average, need rain. Harvesting apples, tomatoes, sweet corn, snap beans, cabbage, cucumbers and peppers. Grapes in good condition.

PUERTO RICO: Island average rainfall 0.72 in. or 1.10 in. below normal. Temperatures averaged about 82° on coasts and 76° interior. Extremes: 94 and 56°.

Rainy weather favored development new sugarcane plantings some areas but suffering due lack of rain other areas. Coffee harvest about to start and expected to be poor some central and southern sections due effects of drought. Soil preparation for tobacco and food crops planting underway. Pastures recovering slowly from drought effects. More rains needed pasturelands. Food crops development affected by dry weather.

SOUTH CAROLINA: Temperatures near normal. Daily temperatures well above normal beginning, somewhat below at end. Extremes: 95 and 52°. Scattered rainfall beginning and middle. Largest rainfall coastal areas, very little north central, central portions.

Crops improved some areas due scattered rainfall, rain still needed. Soil moisture short to adequate. Insects remain problem in soybeans,

cotton; spraying continues. Armyworms problem in coastal bermuda fields. Corn harvest continues, tobacco harvest complete. Crop conditions: Poor to fair - pecans; fair - cotton, soybeans, sorghum, pastures, hay crops; good - corn. Cotton open bolls 19% 1976, 28% 1975, 19% average. Corn matured 89% 1976, 86% 1975, 80% average. Corn harvested 41% 1976, 26% 1975, 17% average. Soybeans setting pods 77% 1976, 78% 1975, 76% average.

SOUTH DAKOTA: Hot and dry. Temperatures up 9° above average, afternoon highs in 90's and 100's. Extremes: 40 and 105°. Scattered showers up to 0.50 in. Moisture deficits range from 4.75 to 12.25 in. east.

Topsoil moisture short. Silage cutting main activity. Corn for grain matured rapidly by hot, windy weather; 80% in or past dent stage, 1975 68%, normal 70%; 41% safe from frost, 1975 19%, normal 29%. Grain sorghum development normal. Grain sorghum 60% showing color, 1975 58%, normal 59%. Some sorghum never headed, much of acreage ensilaged or grazed. Soybeans maturity rushed by weather, 35% shedding leaves, 1975 32%, normal 29%. Fall seeding delayed as farmers waiting for additional moisture. Fall plowing behind normal, slowed by dry soil; 42% complete, 1975 53%, normal 48%. Supplemental feeding and hauling stock water common in east and central. Cattle herds sold down or moved to better pastures in west or nearby states. Remaining livestock in good condition.

TENNESSEE: Showers and thundershowers mid and latter part of period gave showers to most sections. Rainfall averaged over 1.50 in. west and midsections with locally over 4.00 in. extreme southwest. Temperatures averaged 4 to 6° above normal mid and east and near normal west.

Rains aided crops but more needed for soybeans, cotton, late corn and vegetables. Rains slowed tobacco, hay, and silage harvest operations. Soil moisture short to adequate. Fieldwork: 4.3 days suitable. Pastures short. Corn 90% dented, same as last year and average. Corn 30% mature, 35% last year, 35% average. Cotton 5% open boll stage, 15% last year, 10% average. Soybeans 70% setting pods, 75% last year and average. Burley tobacco 75% harvested, 55% last year and average. Dark-fired tobacco 70% harvested. Fall plowing 40% completed, 35% last year, 45% average.

TEXAS: Rainfall widespread. Temperatures near normal. Lower Rio Grande River Valley only area with below normal rainfall. Rainfall ranged from 5.00 in. northwest, far west to 3.50 in. north central. Normal rainfall from less than 5.00 in. west to 1.00 in. south. Temperatures west ran 2 to 4° below normal; elsewhere within 2° of normal.

Rain fell most parts aiding crops, pastures, slowing sorghum, corn, cotton harvest. Cotton harvest slowed by rain, wet fields; 6% 1976, 11% 1975 and 10% average. Cotton on southern high plains developing well. Most non-irrigated fields remain drought stressed, although rains improved conditions. Sorghum harvest slowed by rains; 54% 1976, 59% 1975, 52% average. Fields most areas fair to good. Fall sorghum South Texas making good progress. Corn harvest progressed slowly, now 30% complete, 5% ahead of 1975 crop, behind 33% average. Peanuts responded to rainfall, now average condition. Harvest virtually halted by wet in northeast. Harvest

9% complete, 19% 1975, 25% average. Rice harvest active. First cutting complete most areas. Second cutting progressing rapidly. Harvest 97% complete, 90% 1975, 78% average. Wheat planting 4% complete, 3% 1975, 11% average. Rain slowed planting many areas more rainfall needed northern High Plains. Lower Rio Grande Valley: Wet conditions hamper seeding operations, peppers, tomatoes are progressing well, some weed control problems. Eagle Pass: Cucumbers, tomatoes, peppers making excellent growth following rainfall. San Antonio-Winter Garden: Cucumbers, tomatoes, cabbage, carrots making good growth. Pecans developing well. Central Texas: Pecans continue suffer from scab and sticky shuck disease. Upper Gulf Coast: Some vegetables damaged by heavy rainfall. Scattered showers brought relief to vegetables and pecans. East Texas: Sweetpotato yields from early fields good. Harvest slowed by rainfall. Watermelon, pea harvest active. Planting mustard, turnips continue. Pecans in dough stage some shell hardening. North Texas: Harvest of cantaloup, squash, peas, tomatoes continues. Spider mite damage medium to heavy on tomatoes. High Plains: Potatoes, peppers, cucumbers, tomatoes, squash harvest continues. Few onions remain for harvest. Trans-Pecos: Tomato harvest 30% complete at El Paso. Bell peppers progressing well.

Rain aided ranges west parts. More moisture needed Plains, Blackland where stock tanks generally low. Cattle remain good condition. Ticks, screwworms continue central, south.

UTAH: Few isolated showers and thunderstorms principally south portion. Accumulated amounts generally light. Temperatures ranged from near normal to 6° above.

Grain harvest nearing completion. Peach and pear harvest underway; 15 to 20% of peaches and 40% of pears harvested. Corn silage harvest just starting some areas, prospects fair to good. Potato, dry onion, and tomato harvest underway, prospects generally good. Sugarbeets generally good, about 95% of normal. Third crop alfalfa hay 15 to 20% harvested.

VIRGINIA: Temperatures 3° below normal. Extremes: 96 and 37°. Showers early and late in period averaged about 0.75 in.

Fieldwork: 5.3 days suitable. Topsoil moisture short. Moisture situation still critical. Corn 72% of normal. Corn silage harvest continued active. Harvest for grain gained momentum. Soybean condition dropped to 69% of normal. Heavy infestations of armyworms and corn earworms. Peanut condition declined. Making preparations to begin harvest. Tobacco harvest progress: Flue-cured 61%, 1975 65%; fire-cured 48%, 1975 49%; burley 55%, 1975 39%; sun-cured 58%, 1975 54%. Flue-cured marketing active. Hay and pasture continued to decline. Apple harvest of fall varieties moved ahead. Ordering land for fall seeding of small grains.

WASHINGTON: West: Temperatures from 1 to 2° above normal. Precipitation 0.20 to 0.40 in. below normal.

Much grain harvested, some wheat for feed only. Some spring wheat and barley lodged. Green pea harvest complete. Combining spinach

and cabbage seed underway. Beet seed needs more sun, average crop. Cauliflower harvest in full swing, very good crop. Farmers putting up silage; preparing pasture seedbeds. Livestock in excellent condition.

East: Temperatures averaged 2 to 5° above normal. Precipitation averaged 0.10 below normal.

Red delicious harvest began. Bartlett pears near end, d'anjous begin. Wheat and alfalfa progress rapidly. Wheat yields better than expected, test weights down; some spout, mold and discoloration. Harvest of potatoes, sweet and silage corn, dry beans, hops, mint and fall onions active. Alfalfa seeding shows increase. Good crop of spring wheat and barley. Fall tillage and seeding active some areas.

WEST VIRGINIA: Cool temperatures 2 to 4° below normal, frost few areas. Precipitation near normal, light showers September 1 and 2. Eastern area very dry.

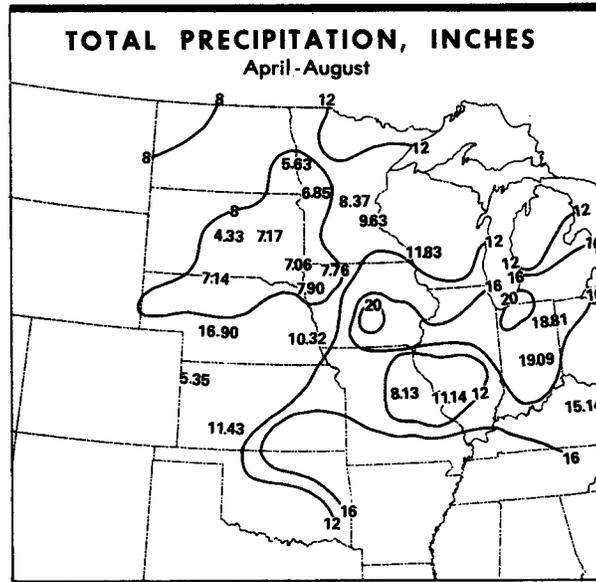
Fieldwork: 4.9 days suitable. Haying, digging potatoes, silo filling most active. Soil moisture short to adequate. Burley tobacco 18% harvested. Potatoes 60% dug, 10% ahead 1975, 15% ahead average. Second haying 74% complete, same 1975, 1% below average. Third haying 30%. Corn good to fair, development below 1975.

WISCONSIN: Temperatures averaged 2° subnormal. Highs in low 90's and upper 80's 31 and 3d, but considerably cooler 1st and 2d. Record lows Madison and Green morning of 3d. Rainfall light, less than .50 in. most areas. Heaviest rain of 0.50 to 1.00 in. north 31st. Sunny and pleasant holiday weekend.

Corn crop maturing fast. Corn 60% in dent, 1975 67%, normal 45%. Early corn safe from frost. Corn crop extremely variable in ear development, some well filled and others poor. Frosted corn in north and corn on light soils going into silos. Silo filling 10% done, 1975 8%, normal 5%. More acreage will be utilized as silage than originally intended due to poor grain potential. Shorter corn growth will require more acres to fill silos. Soybeans maturing prematurely. Soybean fields 35% turning yellow, 1975 30%, normal 15%. Pods not filling well in dry weather. Third crop hay and late second crop being harvested. Good yields and quality third crop in south and east. Little third crop north and hay movement active northwest. New seedings need moisture. Pastures in poor condition and little feed value. Tobacco harvest in full swing over Labor Day weekend. Harvesting of fall potatoes underway. Harvest continues for sweet corn and other vegetables, yields reduced but quality good. Concern about water shortage for cranberry frost control and harvest. Soil moisture short.

WYOMING: Temperatures well above normal, almost without exception. Precipitation below normal.

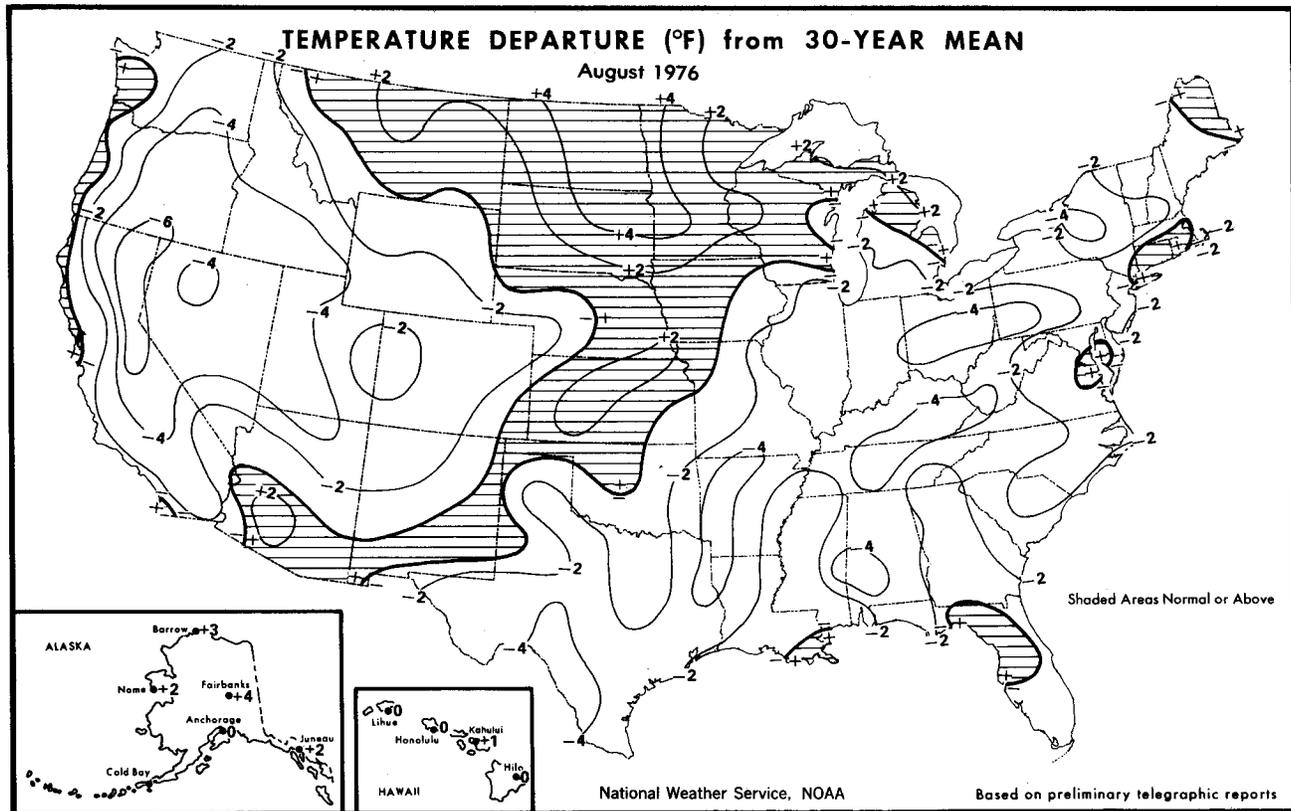
Soil moisture down. Topsoil very short to short. Frost at higher elevation. Small grains over 90% harvested. Corn for grain 7% mature, corn for silage 7% harvested. Potato harvest 10% complete. Major activity: Planting winter wheat. Next year's wheat 28% planted and 7% emerged.



Heating Degree Days (Base 65° F.)
August 1976

ALA. Birmingham	0	MAINE, Caribou	131	OKLA. Okla. City	0
Mobile	0	Portland	73	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	105
ALASKA, Anchorage	262	MASS. Boston	10	Burns U.	150
Barrow	---	Chatham	19	Medford	31
Fairbanks	---	MICH. Alpena	97	Pendleton	42
Juneau	---	Detroit	15	Portland	41
Hose	417	Flint	33	Salem	6
ARIZ. Flagstaff	71	Grand Rapids	32	PA. Allentown	9
Phoenix	0	Houghton Lake	92	Erie	42
Little Rock	0	Lansing	57	Harrisburg	5
COLO. Denver	275	Marquette U.	79	Philadelphia	2
CALIF. Bakersfield	0	S. Ste. Marie	90	Pittsburgh	59
Eureka U.	212	MINN. Duluth	114	Scranton	25
Fresno	1	Intermitt Falls	94	R.I. Providence	23
Los Angeles U.	0	Minneapolis	4	S.C. Charleston	0
Red Bluff	0	Rochester	26	Columbia	0
Stockton	0	St. Cloud	37	Greenville	0
San Diego	0	MISS. Jackson	0	S. DAK. Aberdeen	2
San Francisco	38	Meridian	0	Baton Rouge	4
COLO. Denver	7	MO. Columbia	0	Rapid City	6
Grand Junction	0	Kansas City	0	Sioux Falls	0
Pueblo	2	St. Louis	15	TENN. Chattanooga	0
CONN. Bridgeport	7	Springfield	0	Knoxville	0
Hartford	16	MONT. Billings	6	Memphis	0
D.C. Washington	0	Glasgow	10	Nashville	0
FLA. Apalachicola	0	Great Falls	20	TEX. Abilene	0
Ft. Myers	0	Harris	13	Amarillo	0
Jacksonville	0	Helena	45	Austin	0
Key West	0	Kalispell	104	Beaumont	0
Lakeland U.	0	Miles City	3	Brownsville	0
Miami	0	Missoula	89	Corpus Christi	0
Orlando	0	NEBR. Grand Island	0	Del Rio	0
Dayton Beach	0	Lincoln	0	El Paso	0
Tallahassee	0	Norfolk	1	Fort Worth	0
Tampa	0	North Platte	3	Galveston U.	0
GA. Atlanta	0	Owaha	0	Houston	0
Augusta	0	Valentine	3	Lubbock	0
Macon	0	NEV. Rly.	130	Midland	0
Savannah	0	Las Vegas	0	San Angelo	0
IDAHO, Boise	36	Reno	116	San Antonio	0
Lewiston	17	Winnemucca	71	Victoria	0
Pocatello	34	N. H. Concord	84	Waco	0
ILL. Cairo U.	0	N. Y. Atlantic City	17	Wichita Falls	0
Chicago	7	Trenton U.	5	UTAH, Blanding R.	---
Evansville	0	N. MEX. Albuquerque	0	Salt Lake City	7
Fort Wayne	11	Boswell	0	VT. Burlington	68
Rockford	17	N. Y. Albany	40	VA. Lynchburg	2
Springfield	3	Binghamton	62	Norfolk	0
IND. Evansville	0	Buffalo	35	Richmond	1
Fort Wayne	11	New York	2	Roanoke	3
Indianapolis	2	Rochester	27	WASH. Colville	85
South Bend	19	Syracuse	45	Oak	---
IOWA, Burlington	4	N. C. Asheville	3	Quillayute	207
Des Moines	1	Charlotte	0	Seattle-Tacoma	52
Dubuque	14	Greensboro	1	Spokane	71
Sioux City	0	Hatteras R.	0	Walla Walla U.	22
KANS. Concordia	0	Raleigh	0	Yakima	53
Dodge City	0	Wilmington	0	W. VA. Beckley	49
Goodland	3	N. DAK. Bismarck	6	Charleston	9
Topeka	0	Fargo	12	Huntington	1
Wichita	0	Williston U.	19	Parkersburg U.	5
W. VA. Charleston	4	OHIO, Akron-Canton	56	WIS. Green Bay	56
Louisville	0	Cincinnati U.	4	Madison	40
LA. Baton Rouge	0	Cleveland	25	Milwaukee	21
Lake Charles	0	Columbus	25	WFO. Casper	14
New Orleans	0	Dayton	25	Cheyenne	44
Shreveport	0	Toledo	33	Lander	16
		Youngstown	59	Sheridan	20

Preliminary reports from airport locations, except those marked U for urban and R for rural.
*Estimated.



August Weather Summary

HIGHLIGHTS: The Nation noted below normal readings, except in the northern and central Great Plains including Montana, Minnesota and Wisconsin. The eastern Dakotas rose, generally, 4 to 5° above normal. Ohio, Kentucky, Tennessee, western Arkansas, and parts of Oregon, Idaho, Nevada and California listed exceptionally cool temperatures.

Precipitation varied across the Nation. Exceptionally dry weather in the Great Plains, eastern Arkansas and numerous other areas intensified problems in some areas and started them in others. Unusually wet weather in the Northwest created a number of problems for the agricultural community. Northern California and Oregon received over 5 times their expected precipitation. Although totally unexpected rainfall in portions of central and northern California relieved fire dangers and aided pastures, it resulted in considerable losses to fruit and vegetable crops because of splitting and harvest delays. Hurricanes Belle and Dottie caused problems for growers along the East Coast.

August began with a series of cool high pressure systems which moved across the eastern two-thirds of the Nation and produced record low temperatures across the northern States.

Moisture was fairly general during the first week, but heavy amounts were associated with local thunderstorm activity and therefore quite scattered. Heaviest amounts fell in the Savannah, Ga. area which received about 3 1/2 inches of rain in 6 hrs. on the 3d and totaled 5.3 inches for the week. Considerable moisture also fell in New England and set the stage for problems from Hurricane Belle.

Hurricane Belle was the chief weather topic during the second week of August. Belle traveled

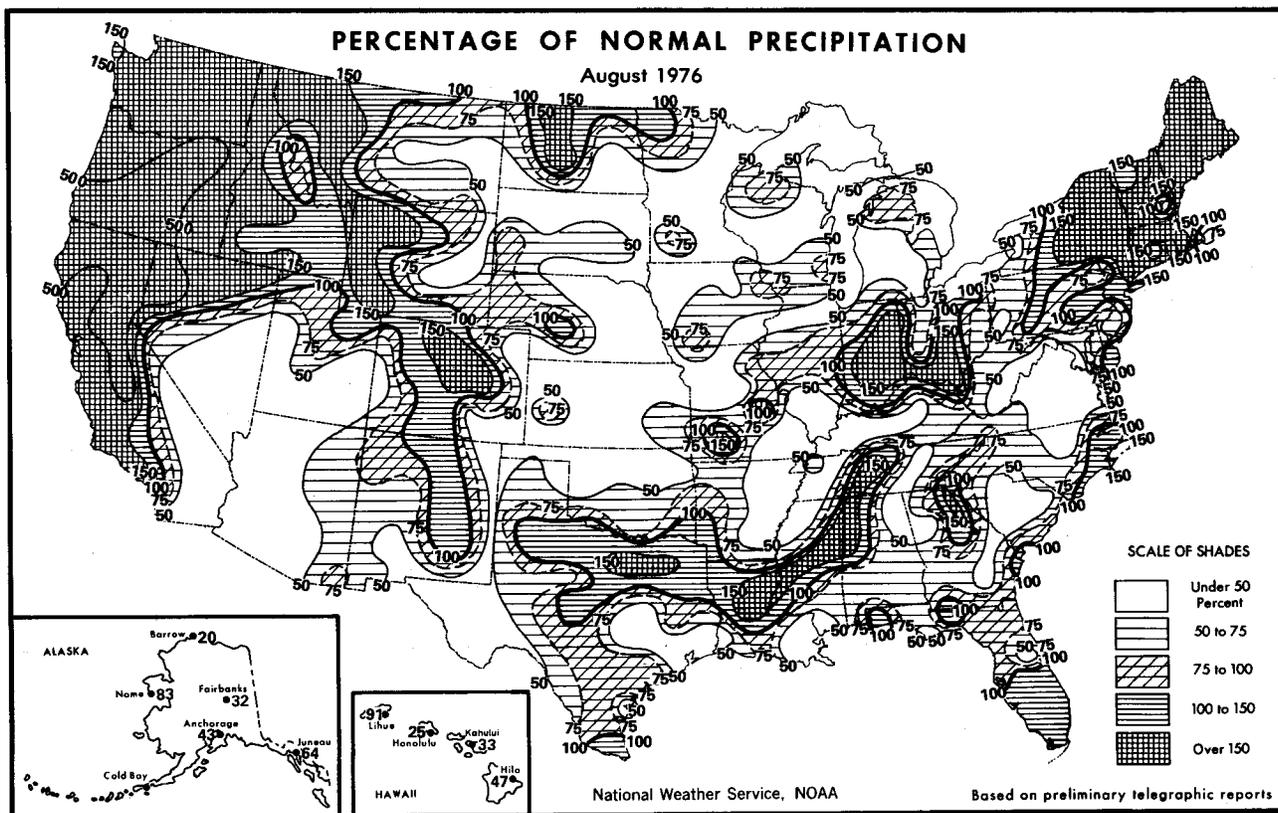
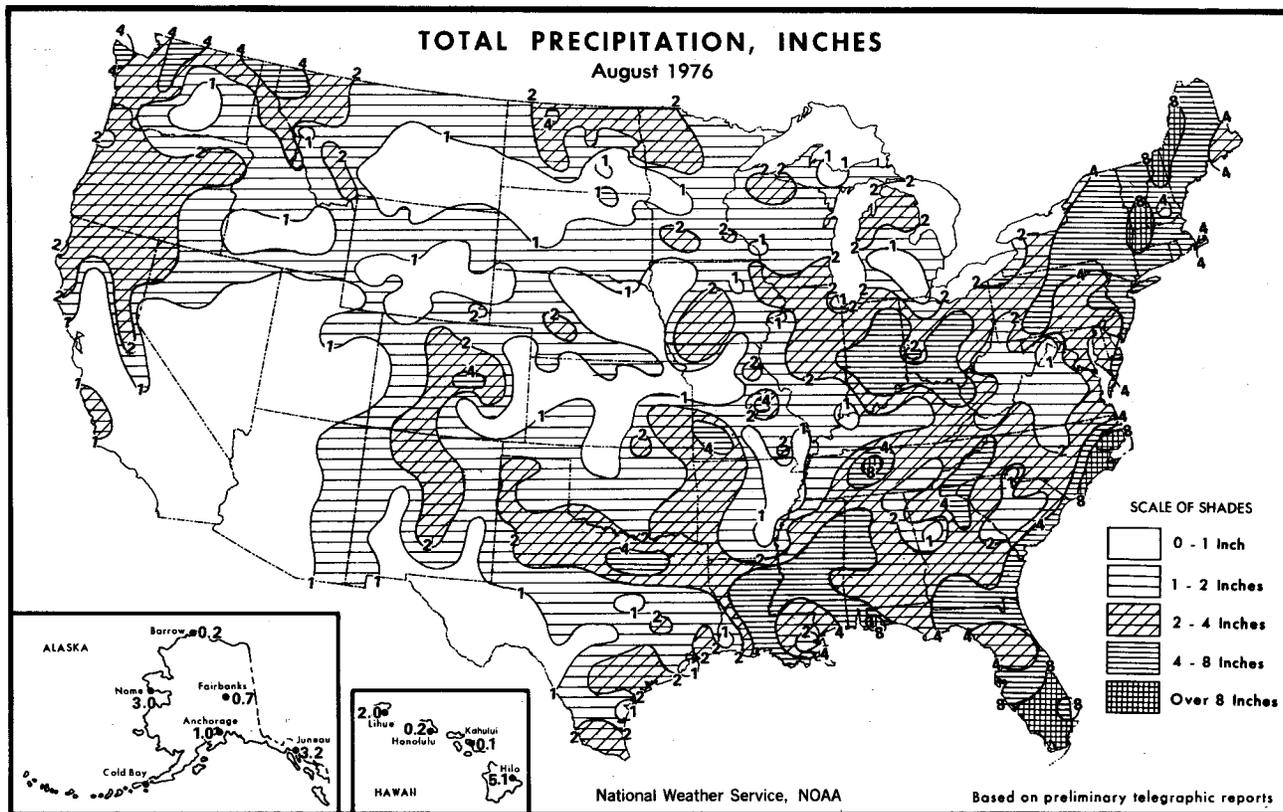
along the Atlantic Coast on the 8th and 9th and finally moved inland over Long Island. Torrential rains fell across southern New York and most of New England. Brunswick, Maine received over 5 inches, while New York City's Central Park reported almost 4 inches. Since soils were already close to saturation in many areas, local flooding reached the serious stage. High winds battered coastal resort areas.

Violent weather was common in the Great Plains area during the week. Severe thunderstorms struck northwestern Missouri and eastern Kansas on the 11th. St. Joseph, Mo. and Emporia, Kans. clocked winds of more than 50 mph, and golf-ball sized hail pummeled Takio, Mo. The line of thunderstorms stretched across Oklahoma to Iowa, Minnesota, and Wisconsin. Light frost covered northern sections of Minnesota, Wisconsin and Michigan.

Almost winter-like circulation pattern dropped considerable moisture into northern and central California from the 14th to the 22d.

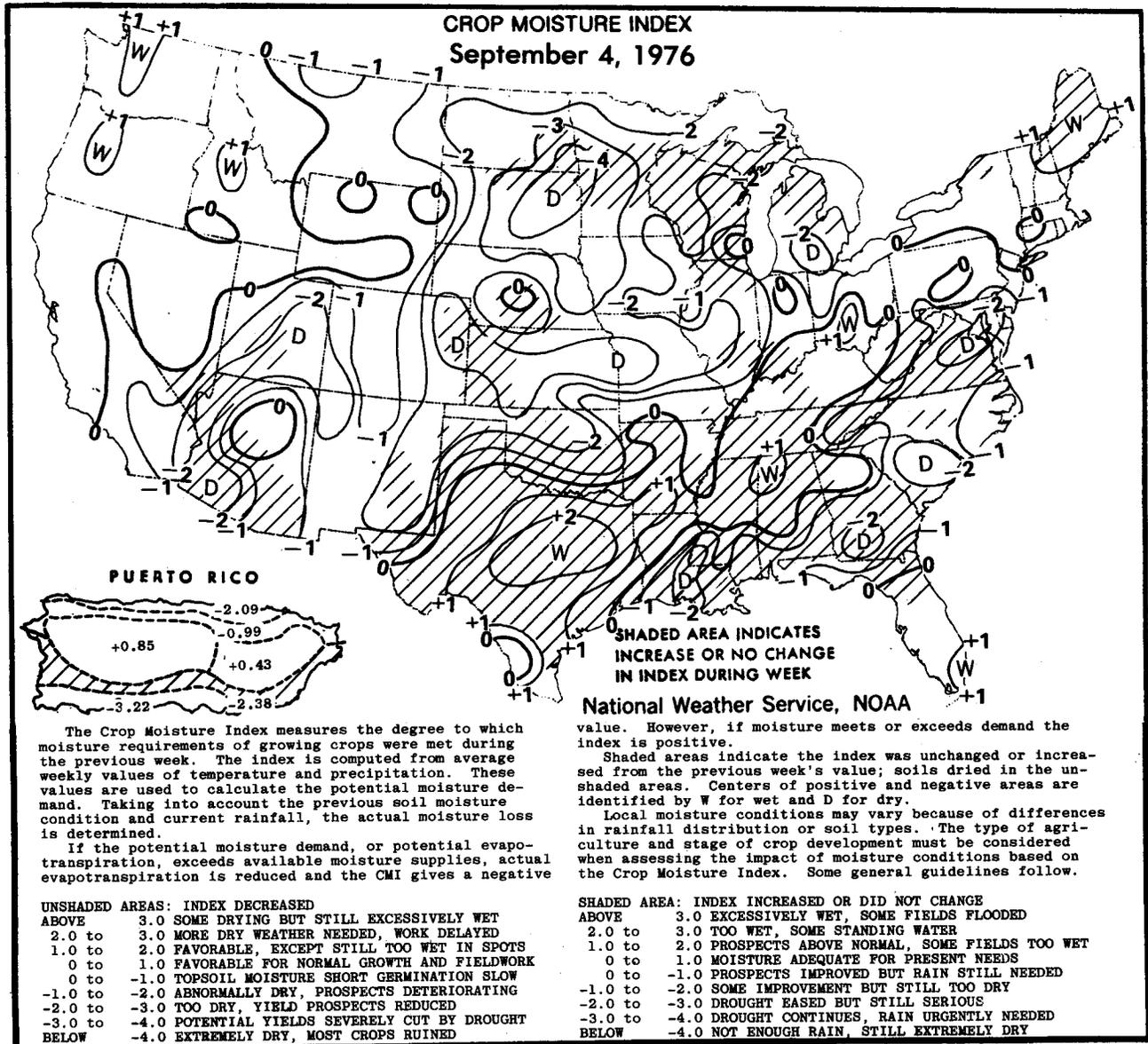
Otherwise, the 3d week of August was generally dry and cool except in the northern Great Plains where temperatures continued well above normal. The Dakotas averaged 6 to 12° above normal. Tropical storm Dottie moved ashore at Charleston, S. C. on the 20th and deposited more than 7 inches of rain at Wilmington, N. C.

The hottest weather of the month in many areas occurred during the final week when the entire Nation, except the Rocky Mountain States, was above normal. A large high pressure system settled in over the eastern half of the Nation. Very light winds and high humidities combined to produce thundershowers in the south-central States and air pollution alerts for a number of eastern States.



Temperature and Precipitation Data for August 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 . . .	77	-2	3.3	-1.0	La. Baton Rouge . . .	81	-1	2.3	-1.4	Youngstown . . .	66	-3	2.4	-0.8
Mobile . . .	81	-1	4.8	-2.1	Lake Charles . . .	81	-1	.8	-4.0	OKLA. Okla. City . . .	81	0	1.5	-1.1
Montgomery . . .	79	-2	2.2	-1.3	New Orleans . . .	82	0	1.7	-3.6	Tulsa . . .	80	-1	1.2	-1.8
ALASKA. Anchorage . . .	56	0	1.0	-1.3	Shreveport . . .	79	-4	3.0	+3	OREG. Astoria . . .	62	+2	2.6	+1.1
Barrow . . .	59	+4	.7	-1.5	MAINE. Caribou . . .	63	+1	6.2	+2.4	Burns . . .	61	-5	2.0	+1.6
Fairbanks . . .	59	+4	.7	-1.5	Portland . . .	65	-1	4.9	+2.3	Medford . . .	67	-3	2.8	+2.5
Juneau . . .	56	+2	3.2	-1.8	MD. Baltimore . . .	74	-1	3.0	-1.2	Pendleton . . .	68	-4	1.8	+1.5
Kodiak . . .	51	+2	3.0	-0.6	MASS. Boston . . .	72	+1	8.0	+4.5	Portland . . .	66	-1	3.3	+2.5
Nome . . .	63	-1	.6	-2.1	Chatham . . .	67	-	2.4	-	Salem . . .	64	-2	1.9	+1.3
ARIZ. Flagstaff . . .	91	+2	.1	-1.1	MICH. Alpena . . .	66	+2	2.5	-.2	PA. Allentown . . .	71	-1	5.1	+9
Phoenix . . .	85	+1	.2	-2.1	Detroit . . .	70	-1	1.7	-1.6	Erie . . .	67	-1	1.4	-2.0
Tucson . . .	74	-2	.9	-0.6	Flint . . .	68	0	.8	-2.5	Harrisburg . . .	72	-2	3.3	+1
Winslow . . .	91	+2	.1	-1.1	Grand Rapids . . .	69	-1	1.0	-1.5	Philadelphia . . .	75	0	2.2	-1.9
Yuma . . .	77	-2	2.8	-1.1	Houghton Lake . . .	65	0	1.1	-1.3	Pittsburgh . . .	65	-5	1.3	-1.9
ARK. Fort Smith . . .	77	-4	1.6	-1.4	Lansing . . .	67	-3	.6	-2.2	Scranton . . .	69	-1	2.6	-1.2
Little Rock . . .	79	-2	1.6	-1.4	Marquette . . .	68	+2	.5	-2.5	R. I. Providence . . .	70	0	7.0	+3.1
CALIF. Bakersfield . . .	79	-3	.1	0	Muskegon . . .	67	-2	1.0	-1.6	S. C. Charleston . . .	77	-3	5.2	-1.2
Eureka . . .	58	+1	1.7	+1.4	S. Ste. Marie . . .	65	+2	1.4	-1.7	Columbia . . .	79	-1	1.0	-4.6
Fresno . . .	73	-5	.2	-2	MINN. Duluth . . .	65	+1	1.8	-2.0	Greenville . . .	75	-3	2.1	-2.0
Los Angeles . . .	72	-2	.1	-1	Internat Falls . . .	65	+2	1.9	-1.5	S. D. Aberdeen . . .	76	+5	.7	-1.4
Red Bluff . . .	77	-3	.5	+3	Minneapolis . . .	73	+4	1.4	-1.7	Huron . . .	75	+3	1.4	-6
San Diego . . .	72	+1	.1	-1	Rochester . . .	70	+1	1.7	-1.9	Rapid City . . .	73	+1	1.3	-2
San Francisco . . .	64	+1	.7	+7	St. Cloud . . .	70	+2	.6	-3.3	Sioux Falls . . .	75	+3	1.3	-1.5
Stockton . . .	74	-1	.5	+5	MISS. Jackson . . .	80	-1	5.3	+1.7	TENN. Chattanooga . . .	77	-1	1.4	-1.8
COLO. Denver . . .	70	-2	2.5	+1.2	Meridian . . .	77	-4	2.4	-1.5	Knoxville . . .	75	-2	2.0	-1.2
Grand Junction . . .	75	0	.3	-8	MO. Columbia . . .	75	-1	.2	-3.6	Memphis . . .	79	-1	.9	-2.4
Pueblo . . .	73	-2	.9	-1.1	Kansas City . . .	78	+1	.8	-3.0	Nashville . . .	74	-5	8.1	+4.9
CONN. Bridgeport . . .	73	0	6.2	+2.4	St. Louis . . .	74	-3	1.3	-1.6	TEX. Abilene . . .	82	-2	1.5	-6
Hartford . . .	71	+1	5.8	+1.9	Springfield . . .	75	-2	4.6	+1.7	Amarillo . . .	75	-3	1.8	-1.1
D. C. Washington . . .	77	0	2.1	-2.6	MONT. Billings . . .	71	+1	.6	-4	Austin . . .	83	-2	.8	-1.4
FLA. Apalachicola . . .	80	-2	3.8	-4.3	Glasgow . . .	70	+1	1.2	-3	Beaumont . . .	81	-2	2.6	-3.1
Daytona Beach . . .	80	-1	3.8	-3.0	Great Falls . . .	68	+1	1.9	+8	Brownsville . . .	82	-2	3.4	+7
Ft. Myers . . .	82	-1	9.0	+1.3	Havre . . .	71	+3	1.1	0	Corpus Christi . . .	83	-2	.9	-2.3
Jacksonville . . .	80	-1	6.4	-1.5	Helena . . .	65	-1	1.6	+6	Dallas . . .	82	-4	.4	-8
Key West . . .	84	0	8.0	+8	Kalispell . . .	63	0	3.8	+2.5	Del Rio . . .	79	-2	.2	-9
Lakeland . . .	82	-1	9.5	+2.8	Miles City . . .	74	+1	.8	-4	El Paso . . .	84	-1	4.8	+2.5
Miami . . .	82	0	3.3	-3.4	Missoula . . .	63	-2	.9	0	Fort Worth . . .	83	0	.7	-3.7
Orlando . . .	82	0	7.4	+5	NEBR. Grand Island . . .	76	+1	.8	-1.7	Galveston . . .	81	-2	1.6	-2.8
Tallahassee . . .	82	0	7.0	-1.0	Lincoln . . .	76	0	.1	-3.2	Houston . . .	78	0	2.0	+1
Tampa . . .	81	-1	7.3	+4	Norfolk . . .	75	+1	.7	-2.0	Lubbock . . .	79	-3	.8	-7
W. Palm Beach . . .	76	-2	.5	-3.0	N. Platte . . .	71	-2	2.9	+8	Midland . . .	81	-4	1.4	0
GA. Atlanta . . .	78	-2	1.8	-2.4	Omaha . . .	76	+2	.6	-3.4	San Angelo . . .	82	-3	2.1	-3
Augusta . . .	80	-1	3.7	0	Valentine . . .	74	+1	1.0	-1.4	San Antonio . . .	83	-2	2.8	-4
Macon . . .	78	-3	7.3	+8	NEV. Ely . . .	61	-5	.2	-4	Victoria . . .	86	0	.2	-1.6
Savannah . . .	76	0	5.1	-5.8	Las Vegas . . .	62	-5	.6	+4	Waco . . .	84	-2	2.4	+6
HAWAII. Hilo . . .	81	0	.2	-6	Reno . . .	66	-2	1.3	+1.0	Wichita Falls . . .	69	-2	.5	-1.1
Honolulu . . .	80	+1	.1	-2	Winnemucca . . .	65	-2	2.7	-2	UTAH. Blanding . . .	72	-3	.8	-1
Kahului . . .	79	0	2.0	-2	N. H. Concord . . .	71	-2	4.7	-2	Salt Lake City . . .	66	-1	4.7	+1.0
Lihue . . .	79	0	1.0	+7	N. J. Atlantic City . . .	74	0	2.5	-1.7	VT. Burlington . . .	73	-1	1.1	-3.0
IDAHO. Boise . . .	68	-4	1.0	+7	Trenton . . .	75	-2	.7	-6	VA. Lynchburg . . .	76	-1	2.6	-3.3
Lewiston . . .	70	-2	1.8	+1.2	N. MEX. Albuquerque . . .	80	+2	2.0	+5	Norfolk . . .	76	0	1.4	-3.7
Pocatello . . .	66	-4	.7	-2.8	Roswell . . .	67	-3	5.0	+2.1	Richmond . . .	72	-2	2.2	-2.0
ILL. Cairo . . .	72	-2	.8	-2.3	N. Y. Albany . . .	65	-2	6.8	+3.2	Roanoke . . .	64	-3	3.5	+2.6
Chicago . . .	72	-1	.6	-2.8	Binghamton . . .	68	0	1.7	-1.8	WASH. Colville . . .	66	-2	2.1	+1.5
Moline . . .	70	-4	2.3	-8	Buffalo . . .	75	0	6.0	+1.5	Omak . . .	58	-1	4.1	+1.3
Peoria . . .	69	-3	2.0	-1.7	New York . . .	68	-1	3.0	0	Quillayute . . .	64	0	2.7	+1.6
Rockford . . .	72	-2	2.3	-4	Rochester . . .	66	-4	6.7	+3.2	Seattle-Tacoma . . .	65	-3	1.8	+1.3
Springfield . . .	74	-2	.2	-2.8	Syracuse . . .	70	-3	4.2	-3	Spokane . . .	70	-4	1.5	+1.0
IND. Evansville . . .	69	-2	7.5	+4.6	N. C. Asheville . . .	76	-2	.9	-3.1	Walla Walla . . .	66	-3	.5	+2
Ft. Wayne . . .	71	-2	8.0	+5.2	Charlotte . . .	73	-3	2.6	-1.7	Yakima . . .	66	-3	1.7	-2.1
Indianapolis . . .	69	-2	2.4	-9	Greensboro . . .	76	-2	11.7	+4.9	W. Va. Beckley . . .	70	-4	2.2	-1.5
South Bend . . .	71	-3	1.7	-1.7	Hatteras . . .	75	-2	1.5	-3.4	Charleston . . .	72	-2	5.7	+2.4
IOWA. Burlington . . .	74	+1	2.3	-1.0	Raleigh . . .	78	-2	9.5	+2.7	Huntington . . .	67	-3	1.9	-1.4
Des Moines . . .	69	-1	3.7	-3	Wilmington . . .	73	+4	3.2	+1.2	Parkersburg . . .	71	-1	1.2	-1.4
Dubuque . . .	74	0	.3	-2.7	Fargo . . .	74	+5	.4	-2.5	WIS. Green Bay . . .	72	+1	.5	-2.5
Sioux City . . .	79	+2	.8	-2.4	N. DAK. Bismarck . . .	71	+2	1.1	-5	La Crosse . . .	69	0	2.0	-1.1
KANS. Concordia . . .	80	+2	1.2	-1.4	Williston . . .	66	-4	2.0	-8	Madison . . .	70	+1	2.1	-6
Dodge City . . .	74	0	.6	-1.5	OHIO. Akron-Canton . . .	71	-3	4.4	+1.8	Milwaukee . . .	68	-2	.3	-3
Goodland . . .	77	0	.9	-3.3	Cincinnati . . .	68	-2	3.5	+5	WYO. Casper . . .	65	-3	1.4	-1
Topeka . . .	80	0	.3	-2.8	Cleveland . . .	68	-4	5.1	+2.2	Cheyenne . . .	67	-2	.4	0
Wichita . . .	71	-4	1.3	-2.1	Columbus . . .	69	-4	1.9	-7	Lander . . .	68	-1	.8	-2
KY. Lexington . . .	74	-2	3.2	+2	Dayton . . .	68	-3	.4	-2.7	Sheridan . . .	68	-1	.8	-2
Louisville . . .					Toledo . . .					P. R. San Juan . . .				





FIRST CLASS MAIL

World Weather and Crop Update

USSR. The last week of August and first week of September provided the USSR abundant dry weather desperately needed to advance harvesting and accelerate fall planting. Showers bothered portions of the Baltic Republics, Belorussia, Moldavia, and western Ukraine. Rain in the Crimea and vicinity benefitted fall-seeded crops. Harvest of potatoes and flax began in major producing areas.

Although weather warmed up a little in September, low temperatures in late August delayed maturity of many row crops such as sugarbeets, potatoes, sunflowers, and corn for grain. Officials pressed farmers to harvest ensilage corn before optimum development to permit timely planting of winter grains on the same land. Farmers acted to reduce the usual time between harvesting and planting. In northern latitudes, early planted rye germinated and some reached the third leaf stage.

Subnormal temperatures during the growing season dropped the line farther south than usual where corn would reach maturity for grain. Corn harvesting began in Central Asia and the North Caucasus.

The Soviet Central Statistical Administration (SCSA) reported many farms intend to considerably exceed original fall planting intentions because of exceptionally good soil moisture.

Potato blight and various tuber rots intensified because of frequent rains and waterlogged soils. Soviet experts expected intensive disease spread but recent dry weather offered some deterrent.

EUROPE. Beer consumption increased in concert with the warm summer in Europe. But drought

ironically raised the protein content of much malting barley and made it unfit for brewing. Late August and early September rainfall slowed the decline of forage and row crops in the north and west. Many areas, particularly in central and east Europe, received substantial rains. The generous rains hampered harvesting but benefitted late-maturing crops and improved soil moisture for fall sowing.

AMERICAS. In the Canadian Prairies, patches of frost occurred in some mature spring wheat areas. Northern Alberta, with unripened grain, escaped frosts and benefitted from rain. Rain elsewhere caused a minor nuisance to harvesting but welcome change for perennial and late maturing crops.

Cold weather slowed green up in the Pampas of Argentina and slowed development in the north and adjacent Uruguay and southern Brazil. Dry weather continued in Brazil's northeast interior.

ASIA. Extended drought stressed people, livestock, and crops (especially rice) and delayed planting in Java. The dry season, roughly June-September, ordinarily receives some rain, but little or none fell this year.

Rain spread over the North China Plain and enhanced prospects for quick germination of winter wheat. Even distressed Australia received widespread but variable rains, the first in many months, across important grain, livestock and fruit areas of the south. Rains were no panacea, yet they will certainly help stimulate some plant growth and provide moisture for spring sowing.