

Weekly Weather & Crop Bulletin

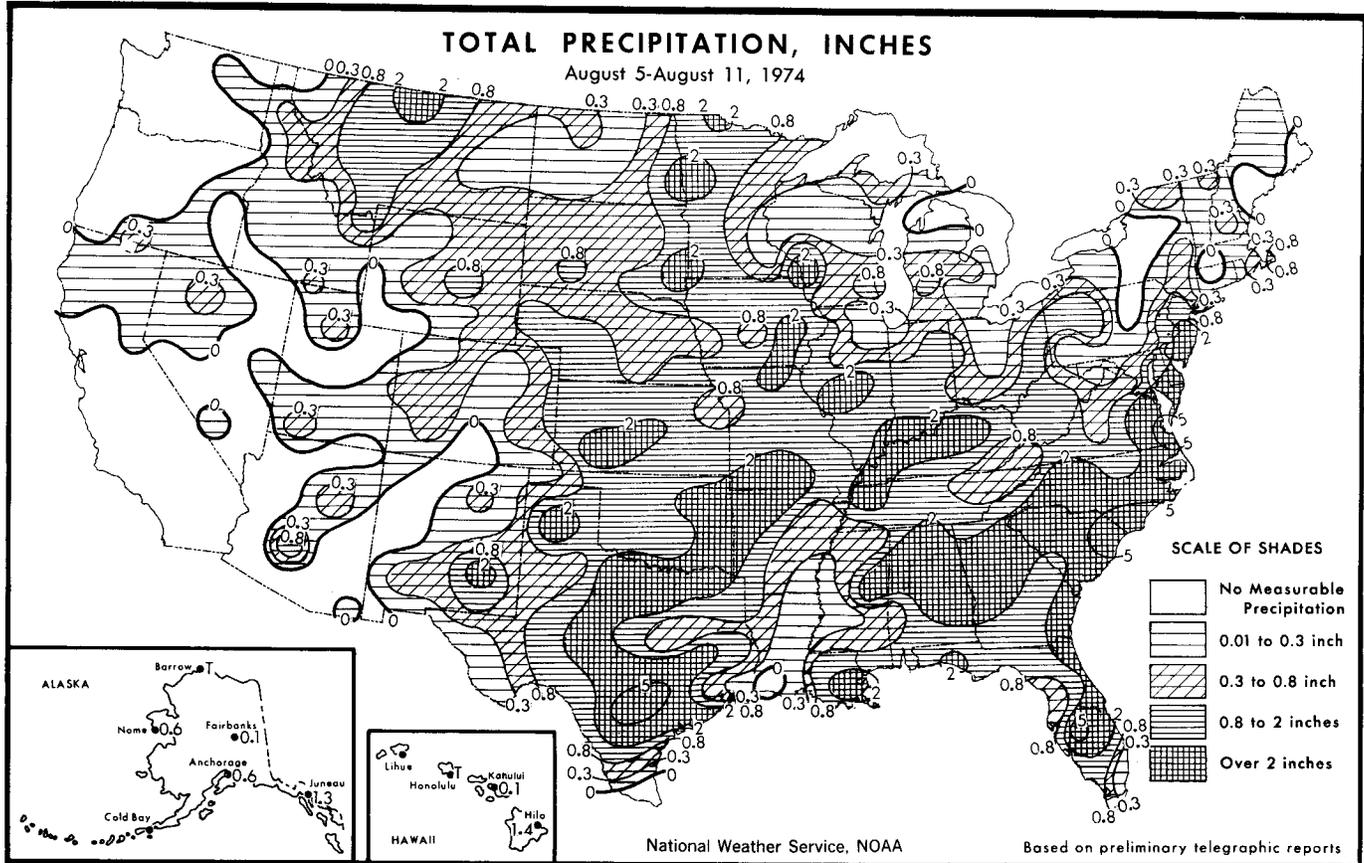
U. S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration

U. S. DEPARTMENT OF AGRICULTURE
Statistical Reporting Service

Volume 61, No. 33

Aug. 13, 1974

Washington, D. C.



NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Rains fell across most of the Nation east of the Rocky Mountains last week. Good rains over the Texas High Plains for the second week in a row, brought much needed relief to the parched area. The critically dry Corn Belt areas received 1.00 in. or more of rain; while some parts of north central and northwestern Ohio got only minimal amounts. Parts of Oklahoma and Texas received from 2.00 in. to over 7.00 in.; San Antonio, Texas reported 7.13 in.; Tulsa, Okla. got 3.12 in. for the week.

Temperatures were below normal across most of the Nation last week. Only the Great Lakes area and the interior portions of California northward through Oregon and into the Columbia River Basin in Washington State were above normal for the week.

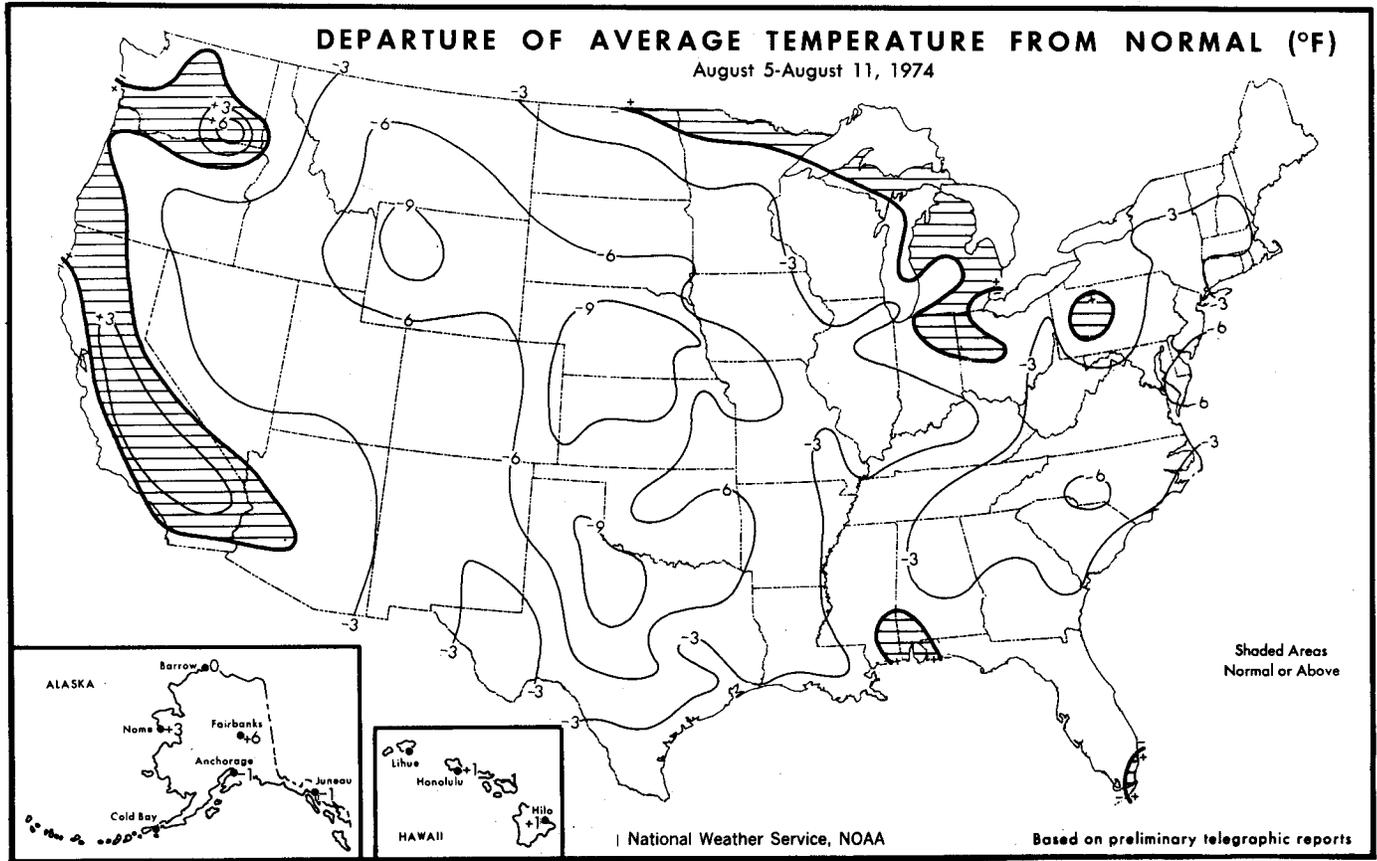
PRECIPITATION: Widespread heavy rains fell across eastern Virginia, North Carolina, South Carolina, Georgia, Alabama and along the Florida Peninsula, averaging from 2.00 in. to over 6.00 in. last week. Isolated heavy showers were reported throughout the

Midwest with amounts of 1.00 in. or more common over 3.00 in. soaked the Louisville-Lexington, Ky. area.

In the West, central Montana received 1.00 in. or more of rain, with 2.63 in. reported at Havre. Little or no rain fell in the Far West.

Monday, the 5th, rainfall was heavy near the southern Atlantic Coast in the South Central Plains and on the southern Plateau. Between 1.00 to 3.00 in. of rain fell in a swath throughout north central Texas--western Oklahoma and south central Kansas. Laverne, Okla. and Turon, Kans. received almost 3.00 in., while Abilene, Texas; Gage, Okla. and Dodge City, Kans. each received 1.00 in. or more.

Tuesday, the 6th, an area of scattered thunder-showers extended from southern Texas into northwest Missouri providing the first rain for some areas in many weeks. Most of the showers were light and of little real help to the already parched land. The heaviest activity was centered in north central Texas.



Wednesday, the 7th, a cold front caused widely scattered thundershowers in the northern Plateau and Rockies. Elsewhere heavy rains during past several days has caused destructive flooding along Lumber River in the southern portion of North Carolina.

Thursday, the 8th, scattered thunderstorms, rain and hail along with a few tornadoes were reported from the Atlantic Coast across the Rockies, while heavy rains continued in the South.

Some severe thunderstorms occurred in Texas, Colorado, western Kansas, Arkansas, Louisiana and South Carolina, along with some heavy rainfall in northern Oklahoma on Friday.

Saturday, the 10th, thunderstorms produced locally heavy rains in the South. Isolated 2.00 in. rains were also reported from southwest Missouri and western Iowa and 1.25 in. at Scottsbluff, Nebr.

Sunday, the 11th, thunderstorms were triggered by a cold front that trailed from the central Great Lakes into the middle Mississippi Valley.

Elsewhere widely scattered thunderstorms dumped locally heavy rains on parts of New Mexico and western Texas. Roswell, New Mexico measured 2.32 in. of rain in only six hours.

TEMPERATURE: Cool weather blanketed most of the Nation last week. Temperatures averaging from 9 to 10° below normal were reported in Nebraska, Kansas, Texas, and Wyoming. This was the second consecutive week below normal temperatures prevailed across the dry central U.S. Only sections of

California, Oregon, Washington, the Great Lakes, Pittsburgh, Pa. and Miami, Fla. reported temperatures near normal or above.

A cool high pressure system brought new record morning low temperatures to the Nation's midsection on Monday. Records were set from as far west as Casper, Wyo., with 47° and as far east as Cincinnati where a new record of 53° was recorded.

Tuesday, the 6th, morning temperatures dipped to record lows in Nebraska. North Platte recorded their third record low temperatures for the month with a reading of 42°, while Omaha and Grand Island recorded a record breaker for the fourth consecutive morning with a reading of 48° and 49° respectively.

Wednesday, the 7th, fair weather prevailed over most of the Nation west of the Continental Divide, in the Plains, the Great Lakes Region and the Northern Atlantic Coast States, but temperatures were only in the 70's and 80's.

Thursday, the 8th, temperatures were below normal for the season over just about all the Nation. High's were mostly in the 80's.

Temperatures reached the 80's and 90's across the Country on Friday. In the northern sections temperatures in the 60's and 70's were recorded.

Saturday, the 10th, Denver, Colo. dropped to 45° setting a new record morning low. Pleasant weather continued over the northeast as cool dry Canadian air mass settled over the area.

Most of the area west of the Rockies enjoyed fair weather with afternoon temperatures climbing into the 80's and low 90's on Sunday.

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Rain throughout much of the eastern two-thirds of the Nation will benefit row crops and pastures. Small grain harvest slowed and is now behind normal.

SMALL GRAINS: Harvest of small grains was slowed by showers and progress is now behind last year's pace in the Northern Plains but continues well ahead of normal. Winter wheat harvest is nearing completion in Michigan and Pennsylvania, 80% done in Montana, and is in full swing in Washington and Oregon. Idaho's harvest progress is trailing with only 30% of the crop harvested.

Spring wheat combining is nearly complete in South Dakota, 25% done in Montana and 21% in Minnesota. Cool temperatures and general rain will aid the filling of late seeded small grains in the Red River Valley of North Dakota and Minnesota.

Oat harvesting is virtually complete in Illinois, Ohio, and South Dakota, 45% harvested in Minnesota, 40% in Michigan, and 25% in Wisconsin. Preparation of fields for seeding this fall's wheat acreage has been curtailed by short topsoil moisture conditions, but recent precipitation in most areas will aid fieldwork.

CORN: Long-awaited precipitation combined with subnormal temperatures over the Corn Belt last week relieved moisture demands. The USDA Crop Report issued August 12 forecasted yields per acre to be below 1973 in 11 of the 12 Corn Belt States. Rain was beneficial to the corn crop in all States except parts of Nebraska, South Dakota, and northern Illinois, Indiana, and Ohio. However, the rains came too late in some of the drier areas and pollination never occurred. Farmers in these areas are busy chopping corn for feed and silage.

Development continues behind normal throughout most of the Corn Belt. In Iowa, the leading corn producing State, 40% of the crop is in or past dough stage versus the average of 49%. Thirty-five percent of the Illinois crop is in the dough stage, compared with 50% in 1973 and 70% normally.

Recent rain is aiding crop development and condition in the South and harvest is nearing in several of the Southern States.

COTTON: Rain throughout much of the major cotton area benefited the crop making soil moisture more plentiful. Much needed rain fell in the dry High Plains of Texas and over most of Oklahoma. Crop prospects improved in most areas but wet conditions slowed insect control which is behind schedule in several States. Bolls are starting to open in Georgia and South Carolina and fruit set is heavy in Arkansas and Louisiana. Boll setting ranged from 60% in Oklahoma, 92% in Mississippi to nearly all in Alabama.

California, New Mexico, and Arizona cotton remain in mostly good condition with the first

bale being picked in Yuma County. Harvest is 5% done in Texas.

SOYBEANS: Prospects for the year's soybean crop are more encouraging as rain fell throughout most of the major soybean States during the past week. Most acreage in the Corn Belt is in fair to good condition and podding is at or past the halfway mark in several States.

Soil moisture is still rated short over much of the Corn Belt and more rain is needed to assure continued crop developments.

The USDA Crop Report issued August 12 forecast yields per acre to be below 1973 in 11 of the 12 North Central States, while production is expected to be below 1973 in all of these States.

Development of the North Central soybean crop continues behind 1973 in all States except Michigan and Minnesota. In Illinois, the leading soybean State, 35% of the pods are set compared with 45% in 1973 and the average 67%. The South's soybean crop is much improved with most of the acreage blooming or beyond.

OTHER CROPS: Shower activity slowed hay cutting over much of eastern two-thirds of the Nation but the added moisture is expected to help later cuttings. The Texas sorghum harvest is progressing northward and progress is 43% done. Kansas sorghum is lagging with 30% headed compared with 35% in 1973 and 45% normally. The Nebraska crop is mostly good and 60% headed. Flue-cured tobacco harvesting is 45% complete in North Carolina and 86% in South Carolina. Potato digging has started on early varieties in southwestern Idaho.

FRUITS AND NUTS: Peach and summer apple picking continued to increase in northern orchards. Table grape harvest continues in California where almond growers are spraying weeds and leveling orchards as harvest approaches. Pecans in Georgia are in fair to good condition with spraying active.

VEGETABLES: Harvest of summer vegetables in New Jersey is general. Vegetables in Michigan are suffering from dry soils as are nonirrigated areas in the New England States. Brussels sprouts harvest started, and broccoli, cauliflower and celery decline in California. Carrot harvest continues active. Harvest of watermelons, tomatoes, and cantaloupes are active in several areas in Texas.

PASTURES AND LIVESTOCK: Rain during the past week gave dry pastures some relief from prolonged dryness. Range feed still short in most Western and Great Plains States. Ranges are dry and subject to fires in Nevada and Oregon. Supplemental feeding increasing as grasses continue to dry out, lose feed value, and until recent moisture improves conditions.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Aug. 11, 1974

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	76	- 4	2.1	+1.1	La. Baton Rouge . . .	79	- 3	1.4	+ .3	Youngstown . . .	67	- 3	1.0	+ .2
Mobile . . .	83	+ 1	1.4	- .2	Lake Charles . . .	80	- 3	T	-1.1	OKLA. Okla. City . . .	77	- 5	1.8	+1.3
Montgomery . . .	78	- 3	2.5	+1.7	New Orleans . . .	79	- 3	2.0	+ .8	Tulsa . . .	77	- 6	3.1	+2.5
ALASKA Anchorage . . .	56	- 1	.6	+ .1	Shreveport . . .	79	- 5	.8	+ .2	OREG. Astoria . . .	62	+ 1	0	- .3
Barrow . . .	39	0	T	- .3	MAINE. Caribou . . .	62	- 2	.1	- .8	Burns . . .	65	- 3	.1	0
Fairbanks . . .	63	+ 6	.1	- .5	Portland . . .	67	- 1	T	- .6	Medford . . .	73	+ 1	T	- .1
Juneau . . .	54	+ 1	1.3	+ .2	MD. Baltimore . . .	71	- 5	1.4	+ .4	Pendleton . . .	78	+ 5	0	- .1
Kodiak . . .	---	---	---	---	MASS. Boston . . .	70	- 3	.1	- .7	Portland . . .	68	+ 1	0	- .1
Nome . . .	53	+ 3	.6	- .2	Chatham . . .	68	---	1.2	---	Salem . . .	65	- 2	0	- .1
ARIZ. Flagstaff . . .	63	- 2	.3	- .3	MICH. Alpena . . .	66	0	T	- .6	PA. Allentown . . .	69	- 4	1.4	+ .4
Phoenix . . .	90	0	1.0	+ .7	Detroit . . .	72	0	T	- .8	Erie . . .	67	- 2	.8	+ .1
Tucson . . .	83	- 2	0	- .6	Flint . . .	71	+ 2	.6	- .2	Harrisburg . . .	73	- 2	T	- .8
Winslow . . .	74	- 3	.4	- 0	Grand Rapids . . .	69	- 2	1.2	+ .7	Philadelphia . . .	72	- 4	.4	- .6
Yuma . . .	93	- 1	0	- 1	Houghton Lake . . .	66	0	.1	- .4	Pittsburgh . . .	71	0	.1	- .7
ARK. Fort Smith . . .	76	- 7	2.4	+1.8	Lansing . . .	70	- 1	.1	- .5	Scranton . . .	66	- 5	.3	- .5
Little Rock . . .	78	- 4	.6	0	Marquette . . .	68	+ 1	.3	- .3	R.I. Providence . . .	69	- 3	.3	- .6
CALIF. Bakersfield . . .	87	+ 4	0	0	Muskegon . . .	71	+ 1	.5	0	S.C. Charleston . . .	78	- 2	4.7	+3.2
Eureka . . .	57	0	.3	+ .2	S. Ste. Marie . . .	67	+ 2	.2	- .4	Columbia . . .	77	- 4	3.7	+2.4
Fresno . . .	82	+ 3	0	0	MINN. Duluth . . .	63	- 3	.5	- .4	Greenville . . .	74	- 4	2.7	+1.8
Los Angeles . . .	74	0	0	0	Internatl Falls . . .	68	+ 3	1.4	+ .6	S.D. Aberdeen . . .	70	- 3	.6	+ .1
Red Bluff . . .	83	+ 2	T	0	Minneapolis . . .	69	- 3	.3	- .4	Huron . . .	69	- 5	.6	+ .2
San Diego . . .	71	0	0	0	Rochester . . .	68	- 2	.2	- .6	Rapid City . . .	68	- 6	.4	0
San Francisco . . .	60	- 3	0	0	St. Cloud . . .	67	- 3	.7	- .2	Sioux Falls . . .	67	- 7	2.9	+2.3
Stockton . . .	79	+ 3	0	0	MISS. Jackson . . .	80	- 2	T	- .8	TENN. Chattanooga . . .	74	- 5	1.7	+ .9
COLO. Denver . . .	68	- 5	.1	- .2	Meridian . . .	81	0	.6	- .3	Knoxville . . .	75	- 3	.5	- .3
Grand Junction . . .	73	- 4	.5	+ .3	MO. Columbia . . .	71	- 6	1.9	+1.2	Memphis . . .	78	- 3	.6	- .2
Pueblo . . .	71	- 5	.2	- .3	Kansas City . . .	72	- 7	.8	0	Nashville . . .	76	- 3	.9	+ .1
CONN. Bridgeport . . .	72	- 2	.2	- .7	St. Louis . . .	75	- 3	1.2	+ .5	TEX. Abilene . . .	76	- 9	2.3	+1.8
Hartford . . .	70	- 2	0	- .9	Springfield . . .	73	- 5	2.2	+1.6	Amarillo . . .	71	- 8	3.0	+2.3
D.C. Washington . . .	74	- 4	.7	- .4	MONT. Billings . . .	65	- 7	.4	+ .2	Austin . . .	80	- 6	4.0	+3.6
FLA. Apalachicola . . .	81	- 1	1.3	- .4	Glasgow . . .	67	- 4	.5	+ .1	Beaumont . . .	80	- 4	.2	-1.1
Daytona Beach . . .	80	- 1	2.1	+ .6	Great Falls . . .	64	- 6	1.4	+1.2	Brownsville . . .	86	+ 1	0	- .4
Ft. Myers . . .	81	- 2	1.0	- .7	Havre . . .	66	- 4	2.6	+2.4	Corpus Christi . . .	85	- 1	.3	- .3
Jacksonville . . .	80	- 1	2.9	+1.1	Helena . . .	62	- 6	1.4	+1.2	Del Rio . . .	83	- 4	.8	+ .6
Key West . . .	84	- 1	1.3	+ .4	Kalispell . . .	61	- 3	.1	- .2	El Paso . . .	78	- 4	T	- .3
Lakeland . . .	81	- 1	5.2	+3.5	Miles City . . .	69	- 6	.3	0	Fort Worth . . .	79	- 7	2.1	+1.7
Miami . . .	85	+ 2	.1	-1.3	Missoula . . .	63	- 4	.5	+ .3	Galveston . . .	82	- 2	2.5	+1.6
Orlando . . .	82	- 1	2.8	+1.3	NEBR. Grand Island . . .	67	-10	-1	- .5	Houston . . .	81	- 3	.5	- .5
Tallahassee . . .	80	- 2	.9	- .7	Lincoln . . .	69	- 8	1.1	+ .4	Lubbock . . .	74	- 6	.5	+ .1
Tampa . . .	82	0	.5	-1.3	Norfolk . . .	67	- 9	.6	0	Midland . . .	80	- 3	1.0	+ .6
W. Palm Beach . . .	83	- 1	.2	-1.2	N. Platte . . .	65	-10	.8	+ .3	San Angelo . . .	79	- 5	2.6	+2.3
GA. Atlanta . . .	75	- 3	2.8	+2.0	Omaha . . .	66	- 9	.5	- .4	San Antonio . . .	81	- 5	7.1	+6.6
Augusta . . .	76	- 4	1.9	+ .9	Valentine . . .	68	- 7	.2	- .4	Victoria . . .	82	- 3	2.7	+2.1
Macon . . .	80	- 2	2.9	+2.0	NEV. Ely . . .	62	- 5	T	- .1	Waco . . .	83	- 2	.5	+ .2
Savannah . . .	78	- 3	2.7	+1.2	Las Vegas . . .	89	0	0	- 1	Wichita Falls . . .	77	-10	2.2	+1.8
HAWAII. Hilo . . .	77	+ 1	1.4	-1.2	Reno . . .	67	- 1	T	- .1	UTAH. Blanding . . .	69	- 3	T	- .4
Honolulu . . .	81	+ 1	T	- .2	Winnemucca . . .	66	- 4	.4	+ .3	Salt Lake City . . .	72	- 5	.3	+ .1
Kahului . . .	78	- 1	.1	0	N. H. Concord . . .	64	- 5	.4	- .2	VT. Burlington . . .	67	- 2	.2	- .6
Lihue . . .	---	---	---	---	N. J. Atlantic City . . .	69	- 6	4.0	+2.8	VA. Lynchburg . . .	71	- 4	.7	- .2
IDAHO. Boise . . .	70	- 4	.1	0	Trenton . . .	71	- 4	2.3	+1.3	Norfolk . . .	73	- 5	5.3	+3.9
Lewiston . . .	74	+ 1	0	- .1	N. MEX. Albuquerque . . .	74	- 4	T	- .4	Richmond . . .	72	- 5	3.7	+2.5
Pocatello . . .	66	- 6	.1	0	Roswell . . .	76	- 3	1.8	+1.4	Roanoke . . .	71	- 4	1.0	0
ILL. Cairo . . .	75	- 5	2.0	+1.2	N. Y. Albany . . .	67	- 4	.4	- .2	WASH. Colville . . .	65	- 3	0	- .2
Chicago . . .	71	- 4	.2	- .5	Binghamton . . .	67	- 2	T	- .8	Omak . . .	69	0	T	- .1
Moline . . .	71	- 3	1.2	+ .4	Buffalo . . .	68	- 2	.2	- .6	Quillayute . . .	57	- 2	T	- .6
Peoria . . .	72	- 3	.3	- .4	New York . . .	72	- 4	.6	- .5	Seattle-Tacoma . . .	63	- 2	T	- .2
Rockford . . .	72	- 1	T	- .8	Rochester . . .	69	- 2	.1	- .6	Spokane . . .	68	- 2	T	- .1
Springfield . . .	72	- 4	3.7	+3.1	Syracuse . . .	67	- 4	T	- .8	Walla Walla . . .	82	+ 7	0	- .1
IND. Evansville . . .	72	- 5	2.4	+1.7	N. C. Asheville . . .	70	- 4	1.7	+ .6	Yakima . . .	72	+ 2	0	- .1
Ft. Wayne . . .	73	+ 1	1.6	+ .9	Charlotte . . .	73	- 6	2.1	+1.2	W. Va. Beckley . . .	66	- 4	.9	+ .1
Indianapolis . . .	71	- 3	1.6	+1.0	Greensboro . . .	72	- 5	2.5	+1.5	Charleston . . .	72	- 3	1.0	+ .1
South Bend . . .	73	+ 1	.3	- .5	Hatteras . . .	76	- 2	3.0	+1.5	Huntington . . .	72	- 3	1.3	+ .5
IOWA. Burlington . . .	71	- 4	1.3	+ .6	Raleigh . . .	72	- 5	1.9	+ .8	Parkersburg . . .	71	- 4	1.5	+ .7
Des Moines . . .	71	- 4	.6	- .1	Wilmington . . .	77	- 3	6.3	+4.7	WIS. Green Bay . . .	68	- 1	.2	- .4
Dubuque . . .	69	- 3	.8	0	N. DAK. Bismarck . . .	66	- 5	.1	- .4	La Crosse . . .	70	- 3	2.0	+1.4
Sioux City . . .	70	- 5	1.1	+ .5	Fargo . . .	68	- 3	3.8	+3.1	Madison . . .	68	- 2	.5	- .2
KANS. Concordia . . .	69	-10	1.9	+1.2	Williston . . .	68	- 3	.1	- .3	Milwaukee . . .	69	- 2	1.1	+ .5
Dodge City . . .	73	- 7	4.3	+3.7	OHIO. Akron-Canton . . .	69	- 2	1.0	+ .3	WYO. Casper . . .	64	- 8	1.0	+ .9
Goodland . . .	66	-10	1.0	+ .5	Cincinnati . . .	72	- 3	.6	0	Cheyenne . . .	64	- 5	.4	0
Topeka . . .	74	- 5	.5	- .5	Cleveland . . .	69	- 2	.5	- .2	Lander . . .	62	- 9	.5	+ .4
Wichita . . .	75	- 6	.9	+ .2	Columbus . . .	73	0	.1	- .6	Sheridan . . .	63	- 8	.4	+ .2
KY. Lexington . . .	73	- 3	3.3	+2.5	Dayton . . .	73	- 1	.8	+ .2	P. R. San Juan . . .	83	+ 2	.9	- .7
Louisville . . .	73	- 4	3.4	+2.7	Toledo . . .	71	- 1	T	- .7					

Based on 1941 - 70 Normals

CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

ALABAMA: Soaking rains with cooler temperatures; 2 to 3 in. accumulations common central Alabama.

Crop prospects improved by rains. Growth and development favorable. Nearly all cotton setting bolls, insect counts high many areas. Corn 60% dented, many fields south mature. More moisture needed several areas to push late corn to maturity. Soybeans 75% blooming and few fields setting pods. Peanuts continued good. Rains slowed hay harvest. Pastures afforded adequate grazing.

ALASKA: Temperatures averaged 5° above normal. Precipitation fell over the entire State, but all stations still below seasonal normal.

Oats and barley are turning color in the higher elevations of the Railbelt. Ground moisture supply is short to adequate throughout the region. Some second cutting of hay and silage in Tanana Valley.

ARIZONA: Thundershowers first of week, much of State. Rains varied considerably; over 3.00 in. Phoenix area, nearly 2.00 in. White Mountains. Colorado River Valley remained dry. Temperatures averaged 1 to 3° below normal.

Cotton making good progress, bolls opening Yuma area. Vegetative growth slowing, plants heavy with fruit. First bale reported picked Yuma County. Early sorghum ready for harvest, Yuma. Sugarbeets Cochise County progressing satisfactorily. Rains hindered drying hay. Much of major haying area fourth cutting. Land preparations well advanced central, western areas lettuce, other mixed vegetables. Cantaloupes fall harvest good stands on early planted fields, Yuma. Rain improving feed growth, increasing stock water supply. Livestock feeding on replenished supplies. Lower desert areas remain poor condition.

ARKANSAS: Mean temperatures were 3 to 10° below normal. Extremes: 43° at Gilbert to 94° at Brinkley. Dry first of week with all locations receiving rain remainder of week. Amounts from 0.05 in. at El Dorado to 3.57 in. at Dardanelle.

Showers brought relief, but other parts remain dry. Soil moisture short to adequate. Cotton growth below normal, fruit set continued, blooming in top of stalk. Cotton in fair to good condition. Rice fields have a full flood, blackbird damage. Condition of rice good. Soybeans varied from very poor to very good. Growth ranges from few inches to lapping middles of row. Corn in fair to good condition. Sorghum harvest began. Hay fields need rain. Pastures suffered from dry weather, conditions below normal. Cattle in good condition. Watermelon harvest continued.

CALIFORNIA: Night and morning low cloudiness continued along coast. Inland areas had fair weather except thundershowers first of period. Thundershowers over Sierra Nevada into 6th Tuesday. Temperatures near to above normal. Highs, near 100° Central Valley and over 110° southeast interior.

Small grain harvesting virtually complete. Cotton making excellent development. Milo harvest commencing Imperial. Harvesting safflower, blackeye beans, third, fourth cuttings hay. Sugarbeets making excellent progress, grape crop

continues develop well. Table grape harvest continues as later varieties reach maturity. Walnut husk flies reported spraying active. Almond growers spraying weeds, leveling orchards as harvest approaches. Pear harvest active, early prune harvesting started. Peach harvest continues full swing. Plum, nectarine harvest active seasonal levels. Valencia orange harvest active, quality varies, navel crop developing well. Grapefruit harvest full swing Riverside. Lemon harvest varies, avocado crop growing well, figs moving to market. Broccoli, cauliflower decreased slightly, brussels sprouts started. Cantaloupe slow west-side. Carrot continues Central Coast. Honeydew continues Sacramento Valley. Lettuce volume adequate Central Coast, onion digging continues Fremont-San Jose. Fresh market tomatoes moving. Canning tomato harvest continues San Joaquin Valley, Sacramento Valley. Livestock good condition. Supplemental feeding increasing as grasses continue to dry, lose strength. Feed supplies generally adequate but deteriorating rapidly.

COLORADO: Light to moderate precipitation and cool weather. Mean temperatures averaged 4 to 8° below normal, with greatest departures in central and east. Highs lower elevations mostly in 70's and 80's. Warmer west, highest 94° at Grand Junction.

Most of State received some rain, although amounts varied considerably. Heaviest rain 1.54 in. at Cheyenne Wells; other totals were .90 in. at Fort Lupton and .82 in. at Fleming. Several inches of snow hit high mountains north and central.

Most crops ahead of normal. Corn 92% tasseled, 75% silked, condition very good. Spring barley 45% harvested, very good condition. Summer potatoes 18% harvested. Fall potatoes, sugarbeets, dry beans good condition. Dry beans 61% flowered. Sorghum 47% headed, poor condition on dry land. Alfalfa second cutting 59% complete. Peach harvest active west slope. Scattered hail damage San Luis Valley. Range and pasture condition slight decline except for mountains. Livestock supplemental feeding continues southeast.

FLORIDA: Temperatures were near normal. Scattered thunderstorms brought moderate to heavy precipitation totals.

Soil moisture adequate west and central, excessive in north and south. Corn harvest continues. Tobacco harvest nearly complete. Harvest of peanuts for boiling underway. Soybeans good to excellent condition. Cotton good condition. Sugarcane fair condition. Hay making continues to be interrupted by daily showers. Pastures continue to improve in panhandle, good to excellent elsewhere. Cattle in good condition. Vegetable seeding, transplanting tomatoes, eggplant, peppers started. Celery, cabbage seedbeds growing very well. Land preparation active for snap beans, cucumbers, sweet corn. Citrus excellent condition, rainfall adequate.

GEORGIA: Rains were highly variable, but averaged 2 to 3 in. in most sections. Several localities in northeast and near the coast measured over 5 in. Temperatures averaged 3 to 5° below normal. Soil moisture mostly adequate to surplus. Over-

all crop prospects remained high. Tobacco 90% harvested. Cotton mostly good, some starting to open. Showers interrupted spray programs. Peanut condition mostly good, white mold problems increasing. Soybeans good, considerable improvement noted, stalk borers still a problem. Corn mostly good. Frequent rains made haying difficult. Pastures and cattle mostly good and improving. Peach harvest 95% complete. Apple harvest in full swing. Pecans fair to good with spraying active. Vegetables and melons continued mostly good.

HAWAII: Weather continues dry but favorable to crop progress. Irrigation in heavy use. Leafy vegetables in plentiful supply, other vegetables adequate. Banana production increasing gradually. Papaya production at lower level. Good feed in pastures, condition of cattle good. Harvesting of pineapple slackening but other operations active. Sugar operation in full swing.

IDAHO: Weather cool and showery. Maximum temperatures ranged mid-80's to 100°, minimum upper 40's down to 35° at New Meadows. Average temperatures generally below normal. Precipitation generally well distributed, with heavier amounts east. Greatest weekly rainfall 1.24 in. at Tetonia Experiment Station.

Rains slowed harvest east. Development two weeks later than normal north. Main harvest activities: Sweet corn, grains, hay, mint, lentils, and dry peas. Winter wheat 30% harvested; 20% north, 60% east. Barley harvest 15% complete. Spring wheat harvest completion 35% southwest, 10% southeast. Potato digging early varieties southwest. Second cutting alfalfa ranges from 30% to complete. Some movement of feeder cattle from dry ranges.

ILLINOIS: Temperatures 3 to 4° below normal. Heavy precipitation south half, light north. Corn about 80% silked, 100% 1973, 3-year (1971-73) average 99%; 35% dough stage, average 70%; condition mostly fair. Soybeans blooming 75%, 79% 1973, average 90%. Pods set 35%, 45% 1973, average 67%. Condition mostly fair. Second cutting alfalfa hay 90% complete. Plowing of winter wheat acreage 40% complete. Soil moisture 79% short, 21% adequate. Fieldwork: average 6 days suitable. Pastures mostly fair.

INDIANA: Showers ranged from an average of 0.2 in. north central to 2.20 in. south central, amounts intermediate other areas. Temperatures near normal. Extremes: 48° to 93°.

Fieldwork averaged 6 days. Topsoil and subsoil moisture mostly short to adequate. Moisture increases mostly confined to south. Corn 65% silked, 80% in 1973, lagging average by 10 days. Soybeans 30% setting pods, 45% in 1973. Oats 95% combined, week ahead of 1973. Alfalfa hay 80% cut second time, 75% in 1973. Pastures gain slightly, mostly poor to fair.

IOWA: Mild temperatures averaging 3° below normal. Locally heavy showers late week brought average precipitation above normal in all except southwest and south central counties where it was near normal.

Cool weather and general rains over weekend improved crop outlook. Fieldwork: 6.0 days suitable, average 5.3. Most corn silked with 40% in or past dough stage, average 49%, condition ranges from very poor to poor in southwest and south central and fair to very good over remainder. Rains too late many areas. Nearly all soybeans blooming or more advanced with 68% setting pods,

average 67%, condition fair to very good and better than corn in most areas. Rain more timely for soybeans. Third cutting alfalfa 18% complete, red clover second cutting 55% complete. Some new growth in pastures. Topsoil moisture 55% short, 45% adequate, subsoil 46% short, 54% adequate. Rains ranging from light to very heavy received over weekend.

KANSAS: Temperature averaged 6 to 9° below normal. Precipitation beneficial, Ford County 4.19 in. and some southeast counties almost 4.00 in.

Sorghum and soybean prospects improved with moisture. Dryland corn beyond help, some fields cut for silage. Surface moisture improved, more rain needed. Range and pasture condition poor. Sorghum acreage headed 30%, 35% 1973, 45% average. Corn for grain in or past dough stage 65%, 40% 1973, 50% average. Corn acreage denting 30%, mature 5%. Soybean acreage podding 35%, 45% 1973, 55% average. Third cutting of alfalfa 45% harvested. Stock cows continue to be culled, supplements being fed. Cool weather relieved pasture stress. Stock water low.

KENTUCKY: Temperatures 5 to 10° below normal. Scattered showers 7th through 11th, local amounts over 3.00 in., central.

Weekend rains again boosted crop prospects. Soil moisture before rains 36% short, 61% adequate, 3% surplus, now mostly adequate. Most days favorable for fieldwork. Tobacco prospects fair to good, burley 33% topped, 7% 1973. Dark types 55% topped, 18% 1973. Soybeans 39% podded. Corn progressing rapidly, 44% milk or earlier stage, 41% dough, 15% dent. Pastures improving.

LOUISIANA: Temperatures averaged 2 to 4° below normal. Weather quite warm early week and weekend. Extremes: 95° Monroe and Alexandria and 54° at Winnfield. Scattered thundershowers several days with precipitation highly variable. Weekly totals ranged from none over parts of southwest to well over 2.00 in. southeast. Greatest 1-day total, 1.60 in. at New Orleans.

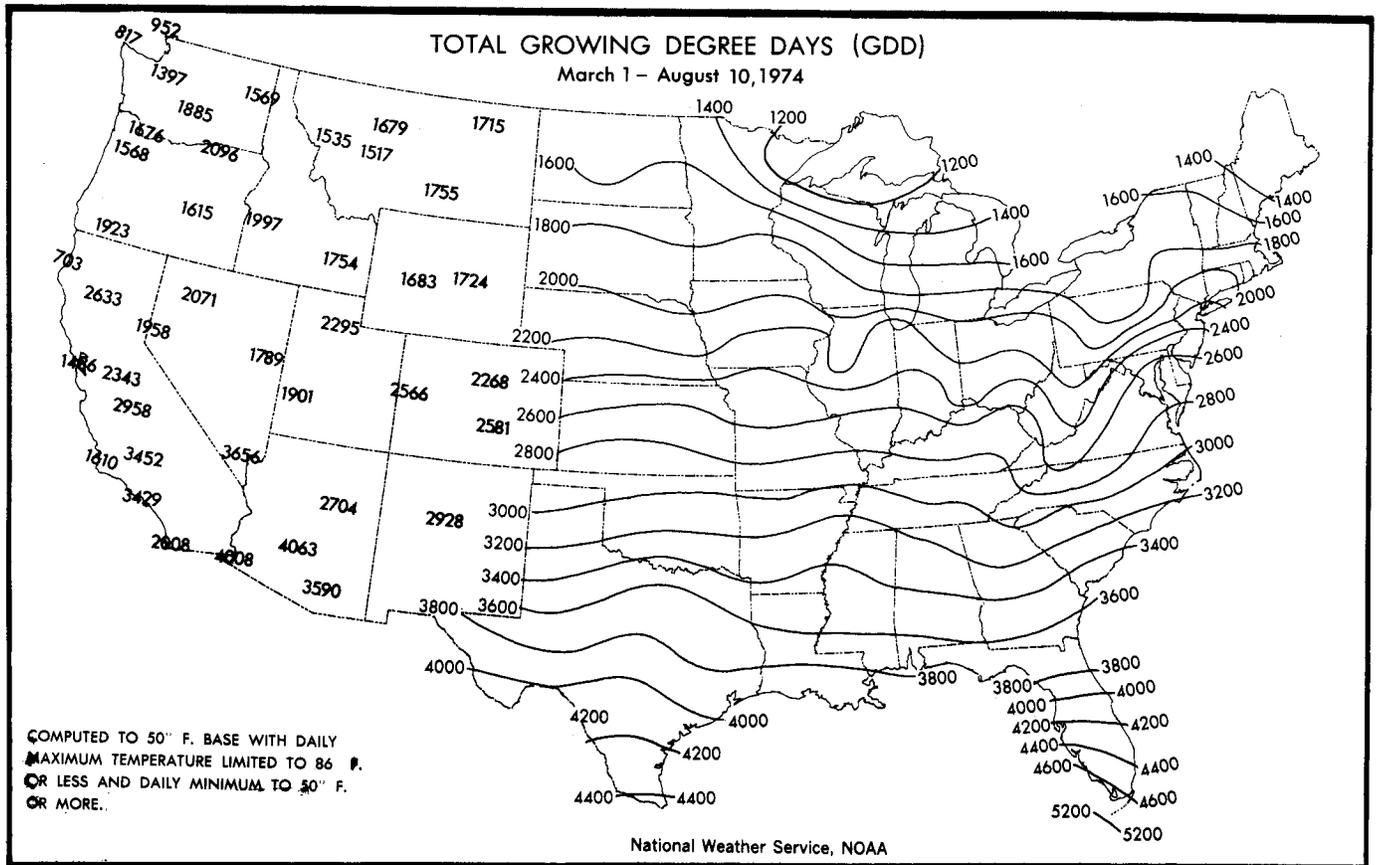
Soil moisture short to adequate north, adequate to surplus south. Fieldwork possible 4.6 days. Plowing, cultivation, hay and rice harvest main activities. Cotton good, fruiting heavy. Insect pressure increasing, especially boll worms. Corn and sorghum good. Corn being harvested south, maturing rapidly north. Soybeans good, growing well, late soybeans need moisture. Rice harvest 40% complete, 5% 1973. Sugarcane good. Hay harvest 50% complete. Pastures normal. Livestock good to fair.

MARYLAND AND DELAWARE: Temperatures ranged 2 to 5° below normal. Highs mid 80's to low 90's, western Maryland mid 70's. Lows mid 50's to mid 60's. Precipitation ranged 0.09 to over 5.50 in. Heaviest lower Delaware, lower Eastern Shore and southern Maryland.

Moisture beneficial to most crops, except for crops on sandy soil areas southern Delaware and southern Eastern Shore. Corn 60% dough, 15% dent, normal 45% and 10%. Soybeans looking better, late crop needs late fall, 60% bloomed, 10% podded. Tobacco harvest 10%, slowed by rain. Vegetable and melon harvest continues. Peach and summer apple harvest active.

MICHIGAN: Temperatures averaged near normal. Precipitation varied from around 1.00 in. west. Michigan and some upper Peninsula locations to under 0.50 in. most other areas.

Soil moisture very short south, adequate east



central, short to adequate elsewhere. Dry weather caused further decline in corn and soybean prospects south. Corn 67% silked, 77% 1973. Soybeans 50% setting pods, unchanged 1973. Dry beans developing well. Sugarbeets sizing well. Potatoes north and central helped by recent rains. Summer potato harvest active. Wheat 95% harvested. Oats 40% harvested. Pasture feed supplies below average. Tart cherry harvest well along northwest, finished elsewhere. Picking Red Haven peaches southwest. Vegetables suffering from dry soils.

MINNESOTA: Temperatures generally 2 to 3° below normal except 5 to 7° below normal southwest. Precipitation 0.75 to 3.00 in. above normal western two-thirds of State; 0.33 to 0.66 in. below normal eastern third. Greatest State-wide total 4.26 in. Minnesota.

Cool temperatures and general rains weekend beneficial to row crops. Harvest of small grain halted by rains, moisture aided late planted wheat, oats, barley in important northwest. Pastures revived by moisture, prospects improved for hay. Small grain harvest progress. Oats 45% combined, barley 36% combined, average 46%; spring wheat 21% combined or average; rye 80% combined, winter wheat 71%, about average. Corn 36% in milk, 53% 1973, 39% average. Soybeans 69% podded, 84% 1973, 68% average.

MISSISSIPPI: Temperatures well below normal north to near normal on coast. Rain averaged near 0.25 in. some northern sections to over 1.00 in. south. Reported 24-hour precipitation was 3.21 in. at Topton and Philadelphia.

Soil moisture mostly adequate north, short central, and adequate to surplus south. Fieldwork: 5.3 days suitable. Cotton 92% setting bolls, normal 97%. Soybeans 53% blooming, 30% podding, normal 58% blooming and 30% podding. Hay harvest 56% complete, 70% 1973. Corn silage 44%, sorghum silage 33% harvested. Corn 76% in dough stage and 61% dented. Sweetpotatoes 7% harvested. Watermelons 75% harvested. Conditions of crops and pasture mostly fair to good.

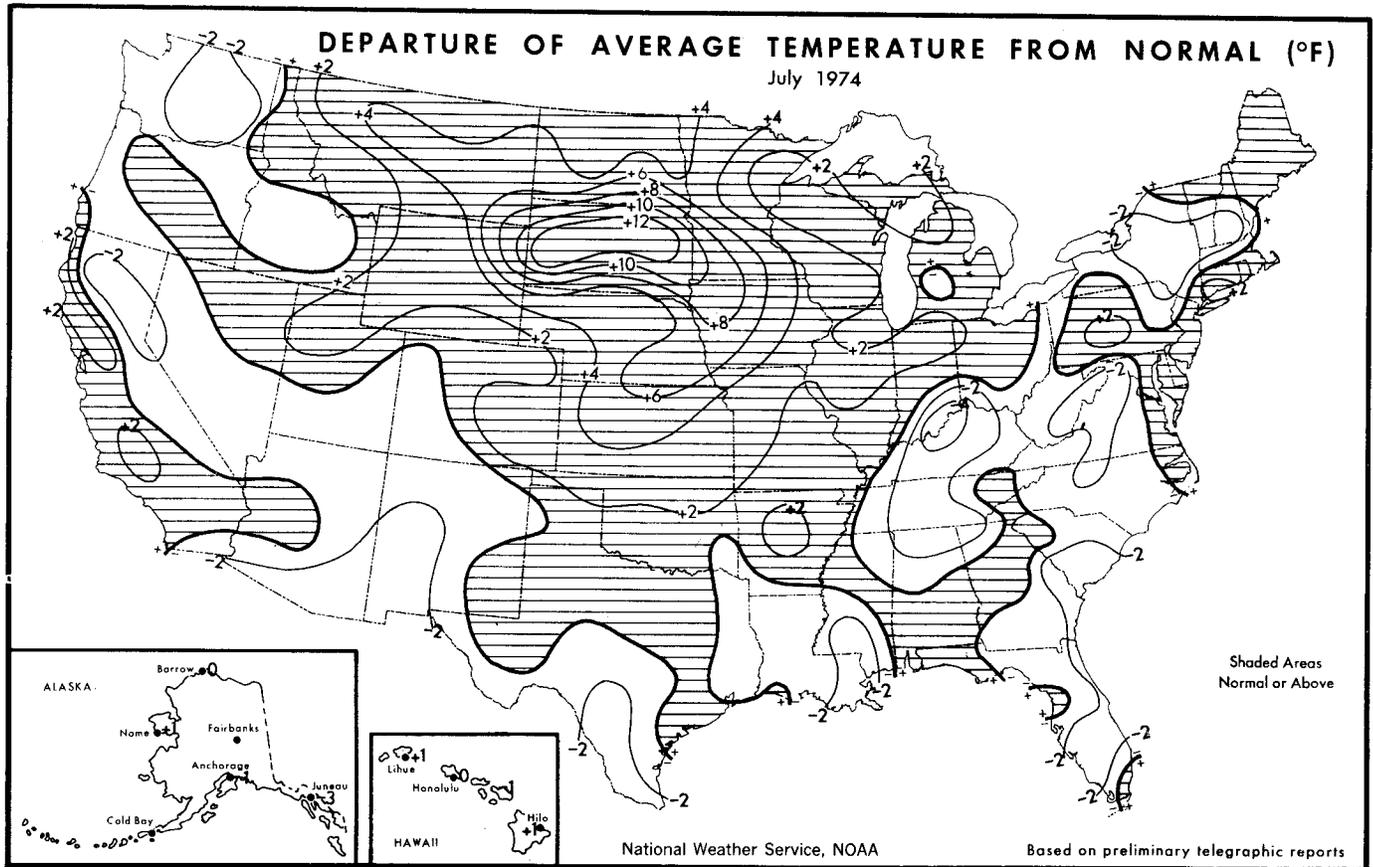
MISSOURI: Measurable general precipitation ranging up to 2.25 in. Springfield in west Ozarks, lesser amounts elsewhere. Numerous sections reported over 1 in. Temperatures averaged 5 to 7° below normal.

Fieldwork: 5 days suitable. Soil moisture short supply. Corn crop poor, 79% silked, 83% 1973, 88% normal. Corn in dough stage 50%, 66% normal. Soybeans poor to fair, 54% blooming, 27% setting pods. Normal 67% blooming, 41% setting pods. Grain sorghum 50% headed, 58% 1973, 64% normal. Cotton fair, 87% setting bolls, 81% normal. Third cutting hay 34% harvested. Pastures in poor condition.

MONTANA: Temperatures well below normal. Precipitation above normal with some amounts over 2.00 in. north central.

Late week rain and cool temperatures brought relief to dry soils and slowed harvest. Topsoil moisture improved, still short to adequate. Late seeded crops will benefit from rain, but too late for most small grain. Irrigation water adequate. Progress of harvest: Winter wheat 80%, spring wheat 25%, barley 40%, oats 35% complete. Second cutting alfalfa remained 33% complete. Wild hay over 80%. Range feed short to adequate. Stockwater adequate.

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MONTHLY WEATHER - JULY 1974

HIGHLIGHTS: The eastern half of the Nation generally received less than normal precipitation during July. The Pacific Coast States received well above normal precipitation, with record amounts at several locations: San Francisco, Calif., 0.62 in.; Sacramento, Calif., 0.90 in. Well below normal precipitation combined with extremely high temperatures over the Great Plains and western Corn Belt to produce severe stress in row crops.

Temperatures over much of the Nation were well above normal with the Great Plains averaging 2 to 12° above normal. Temperatures in eastern Nebraska, western Iowa and South Dakota were all at least 6° above normal. Temperatures climbed over the century mark at Omaha, Nebr., on 13 days during the month, and were over 90° on 28 days.

PRECIPITATION: The lack of precipitation was a big factor in the July weather picture. Rainfall was scattered through the month and generally light. No significant rain producing weather system crossed the Great Plains the entire month.

During the first week of July, heaviest amounts fell in the Deep South and the Southeast, the Florida Peninsula, and isolated pockets in the Corn Belt.

Rainfall during the middle two weeks of July was highly variable and light. Heavier amounts were associated with thunderstorm activity. Rainfall totals in the Corn Belt for the two week period

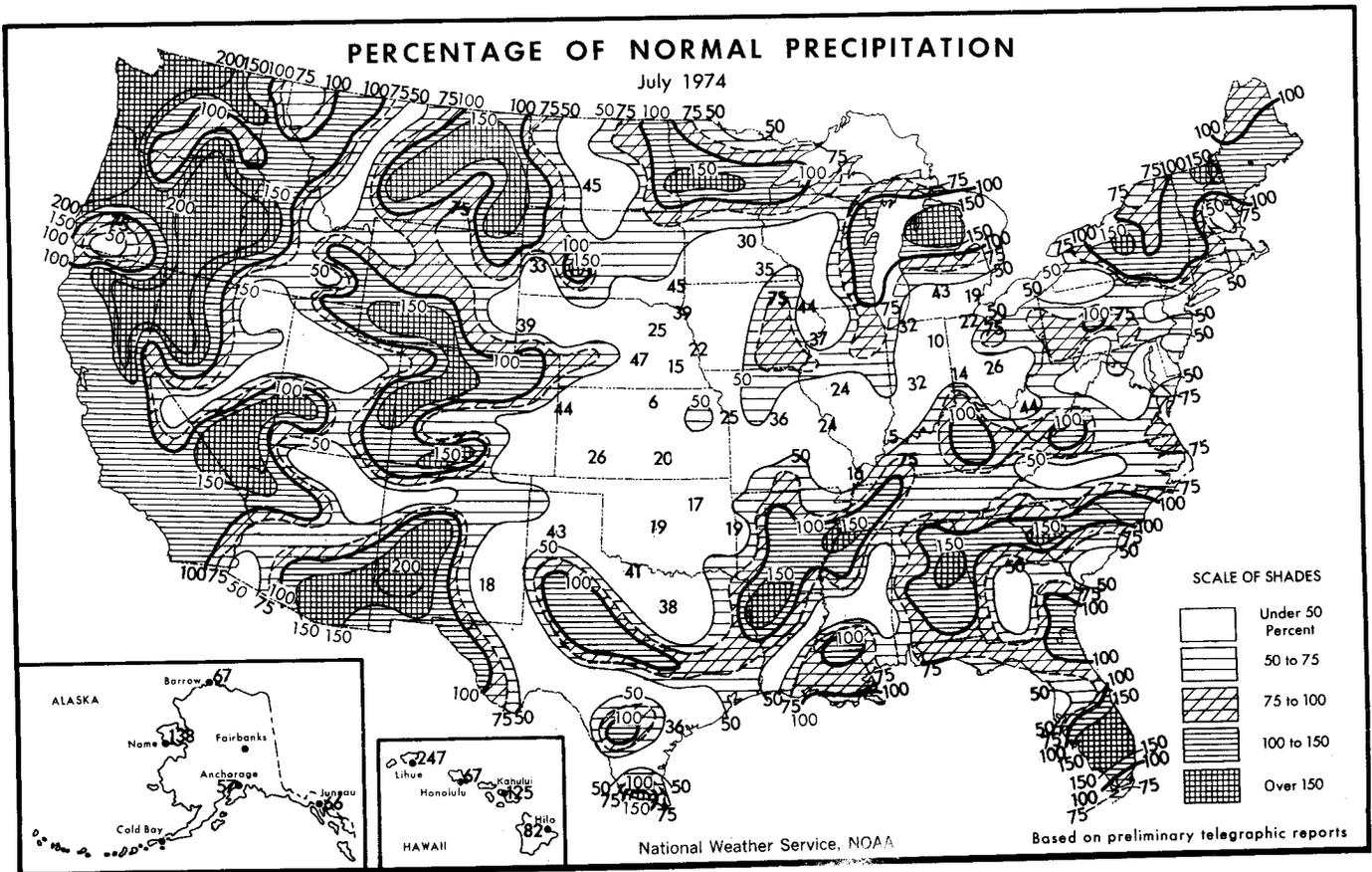
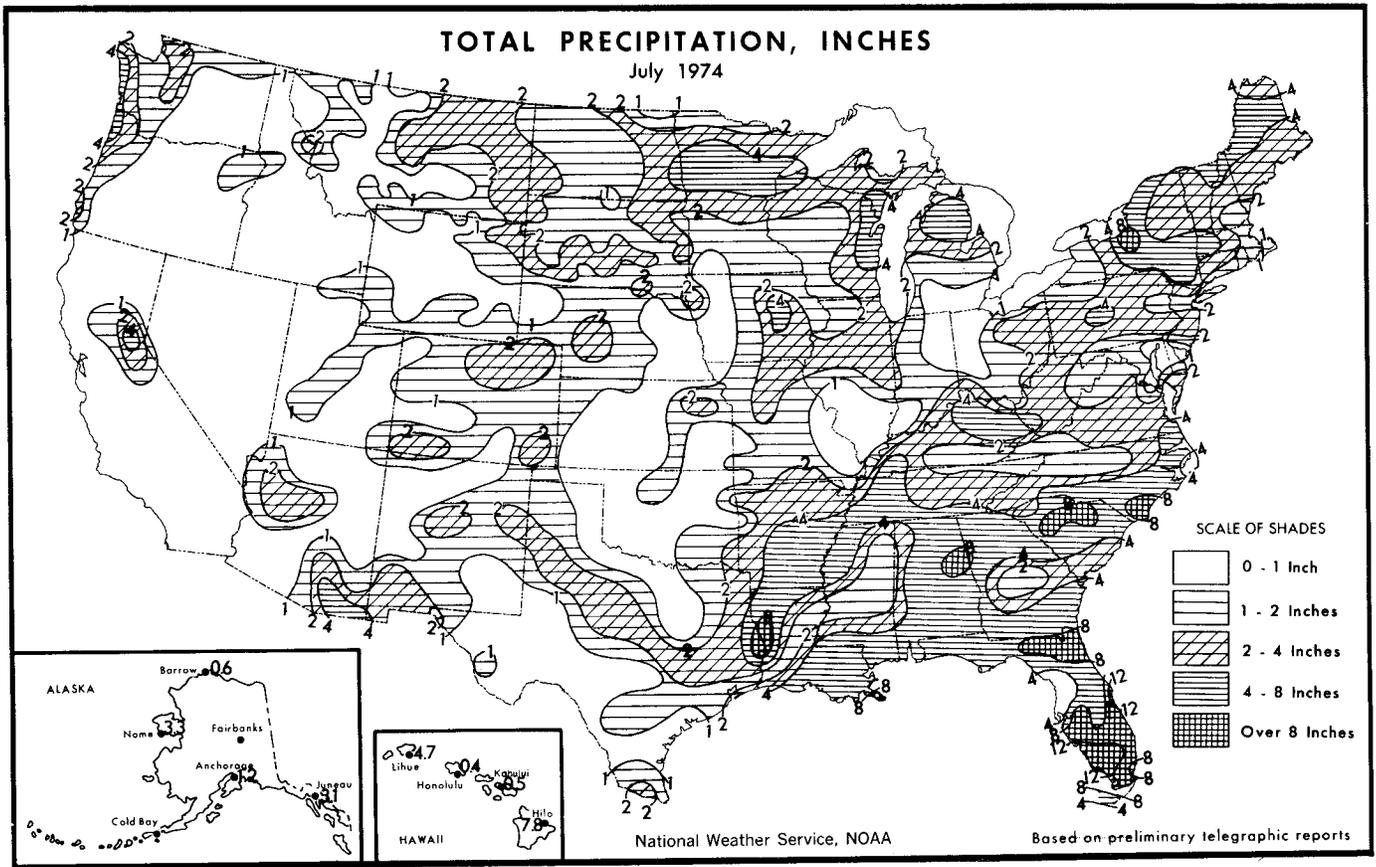
were generally less than 1.00 in. Some good rains fell during the week ending the 21st in the Desert Southwest. Generous rains also fell in the Pacific Northwest.

During the final week of July some good rains fell across the Deep South with amounts of 2.00 in. or more falling across parts of Arkansas, Mississippi, Tennessee and Florida.

TEMPERATURE: Temperatures during the month were a primary causal factor for extensive concern over crops in the Great Plains and western Corn Belt. High temperatures rapidly diminished soil moisture supplies, causing extensive stress to row crops in several midwestern States. Although subsoil moisture was often adequate, late planted crops with less developed root systems could not keep up with the diminishing soil moisture line.

In the major area of concern, the Great Plains and western Corn Belt, temperatures averaged well above normal until the last two days of the month, when the heat wave finally broke. The only part of the Country averaging well below normal during the month was the Pacific Northwest. East of the Appalachians, temperatures were below normal during the last half of the month.

The hottest temperatures occurred during the 3d week of July in the Great Plains. Sunday the 21st, was the hottest day at Topeka, Kans., in 18 years as the mercury climbed to 106°; Omaha, Nebr., reached 110°.



Temperature and Precipitation Data for July 1974

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 . . .	79	-1	4.7	- .5	La. Baton Rouge . . .	81	-1	5.9	- .6	Youngstown . . .	70	-1	3.2	- .7
Mobile . . .	82	0	6.6	-2.3	Lake Charles . . .	82	0	1.3	-5.3	OKLA. Okla. City . . .	83	+1	.5	-2.2
Montgomery . . .	81	0	5.4	+ .3	New Orleans . . .	80	-2	5.7	-1.0	Tulsa . . .	85	+3	.6	-2.9
ALASKA. Anchorage . . .	57	-1	1.2	- .9	Shreveport . . .	82	-1	7.7	+4.8	OREG. Astoria . . .	59	-1	4.2	+3.2
Barrow . . .	39	0	.6	- .3	MAINE. Caribou . . .	65	0	3.4	- .6	Burns . . .	68	0	.6	+ .3
Fairbanks . . .	39	0	.6	- .3	Portland . . .	68	0	3.7	+1.1	Medford . . .	71	-1	.1	- .2
Juneau . . .	53	-3	3.1	-1.6	MD. Baltimore . . .	77	0	.9	-3.2	Pendleton . . .	73	-1	.9	+ .6
Kodiak . . .	53	-3	3.1	-1.6	MASS. Boston . . .	73	0	1.5	-1.2	Portland . . .	67	0	2.0	+1.5
Nome . . .	51	+1	3.3	+ .9	Chatham . . .	68	1	.9	---	Salem . . .	66	-1	1.8	+1.4
ARIZ. Flagstaff . . .	66	0	3.0	+ .5	MICH. Alpena . . .	67	+1	5.2	+2.7	PA. Allentown . . .	73	-1	1.4	-3.0
Phoenix . . .	92	+1	.8	0	Detroit . . .	73	+1	.6	-2.5	Erie . . .	68	-1	1.1	-2.4
Tucson . . .	84	-2	4.4	+2.0	Flint . . .	71	+1	1.7	-1.3	Harrisburg . . .	78	+2	2.8	- .9
Winslow . . .	77	-1	.6	- .6	Grand Rapids . . .	71	-1	1.0	-2.1	Philadelphia . . .	77	0	2.1	-2.0
Yuma . . .	92	-2	.1	- .1	Houghton Lake . . .	68	+2	4.7	+1.6	Pittsburgh . . .	73	+1	3.3	- .5
ARK. Fort Smith . . .	82	0	.6	-2.6	Lansing . . .	71	0	1.2	-1.6	Scranton . . .	71	-2	2.8	-1.5
Little Rock . . .	83	+2	4.1	+ .7	Marquette . . .	69	+3	1.8	-1.3	R. I. Providence . . .	73	+1	1.6	-1.3
CALIF. Bakersfield . . .	86	+2	T	0	Muskegon . . .	70	0	1.5	-1.0	S. C. Charleston . . .	78	-2	3.1	-5.1
Eureka . . .	58	+2	.1	0	S. Ste. Marie . . .	65	+1	2.3	- .3	Columbia . . .	81	0	4.4	-1.3
Fresno . . .	81	0	T	0	MINN. Duluth . . .	67	+1	4.8	+1.1	Greenville . . .	78	0	3.2	-1.0
Los Angeles . . .	74	+1	0	0	Internatl Falls . . .	70	+4	1.1	-2.9	S. D. Aberdeen . . .	77	+12	1.7	-1.0
Red Bluff . . .	80	-2	.7	- .7	Minneapolis . . .	77	+5	1.1	-2.6	Huron . . .	79	+12	1.3	- .9
San Diego . . .	71	+1	T	0	Rochester . . .	75	+5	1.3	-2.4	Rapid City . . .	77	+13	.7	-1.4
San Francisco . . .	63	0	.2	- .2	St. Cloud . . .	73	+3	2.3	- .9	Sioux Falls . . .	79	+11	1.3	-1.6
Stockton . . .	79	+2	.6	- .8	MISS. Jackson . . .	80	-2	1.5	-2.8	TENN. Chattanooga . . .	76	-3	4.7	- .4
COLO. Denver . . .	75	+2	2.3	+ .5	Meridian . . .	82	+1	1.2	-3.9	Knoxville . . .	78	0	2.9	-1.8
Grand Junction . . .	78	-1	1.5	+1.0	MO. Columbia . . .	79	+2	1.4	-2.5	Memphis . . .	83	+1	6.3	+2.8
Pueblo . . .	79	+3	1.2	- .7	Kansas City . . .	82	+3	1.1	-3.3	Nashville . . .	78	-2	2.1	-1.7
CONN. Bridgeport . . .	76	+2	1.4	-2.0	St. Louis . . .	80	+1	.9	-2.8	TEX. Abilene . . .	84	0	2.3	0
Hartford . . .	74	+1	2.4	-1.0	Springfield . . .	79	+1	1.9	-1.7	Amarillo . . .	79	0	1.3	-1.7
D. C. Washington . . .	79	0	1.2	-2.9	MONT. Billings . . .	75	+3	.9	0	Austin . . .	84	-1	.6	-1.3
FLA. Apalachicola . . .	81	0	5.0	-3.0	Glasgow . . .	73	+2	2.3	+ .9	Beaumont . . .	82	-1	3.8	-2.1
Daytona Beach . . .	79	-2	6.3	- .4	Great Falls . . .	73	+4	.5	- .8	Brownsville . . .	82	-2	1.0	- .2
Ft. Myers . . .	81	-2	14.5	+5.6	Havre . . .	73	+3	.7	- .7	Corpus Christi . . .	84	-1	.2	-1.7
Jacksonville . . .	79	-2	8.3	+ .9	Helena . . .	70	+2	.5	- .5	Del Rio . . .	86	-1	.1	- .9
Key West . . .	84	-1	2.4	-1.7	Kalispell . . .	66	+2	.6	- .4	El Paso . . .	80	-2	2.2	+ .7
Lakeland . . .	80	-2	8.6	+ .5	Miles City . . .	78	+4	1.4	- .2	Fort Worth . . .	86	+1	.7	-1.1
Miami . . .	83	+1	6.1	- .8	Missoula . . .	68	+1	1.0	+ .1	Galveston . . .	83	0	2.2	-2.2
Orlando . . .	81	0	6.0	-2.3	NEBR. Grand Island . . .	82	+6	1.4	-1.6	Houston . . .	83	0	1.8	-2.3
Tallahassee . . .	80	-1	7.8	-1.1	Lincoln . . .	84	+7	.5	-2.8	Lubbock . . .	81	+1	2.2	0
Tampa . . .	81	-1	3.4	-5.0	Norfolk . . .	81	+5	.8	-2.4	Midland . . .	83	+1	.3	-1.5
W. Palm Beach . . .	82	0	11.0	+4.5	N. Platte . . .	78	+4	2.3	- .7	San Angelo . . .	84	-1	1.5	+ .3
GA. Atlanta . . .	78	0	4.6	- .3	Omaha . . .	82	+7	.8	-2.9	San Antonio . . .	83	-2	1.3	- .4
Augusta . . .	78	-2	4.1	-1.0	Valentine . . .	79	+5	1.3	-1.2	Victoria . . .	85	+1	1.0	-1.8
Macon . . .	81	0	1.4	-3.1	NEV. Ely . . .	68	+1	.3	- .3	Waco . . .	87	+1	.7	- .8
Savannah . . .	79	-2	6.5	-1.4	Las Vegas . . .	89	-1	.6	+ .2	Wichita Falls . . .	87	+1	.9	-1.3
HAWAII. Hilo . . .	76	+1	7.8	-1.7	Reno . . .	67	-2	.3	0	UTAH. Blanding . . .	72	+1	1.1	+ .1
Honolulu . . .	80	0	.4	- .2	Winnemucca . . .	71	0	.3	+ .1	Salt Lake City . . .	79	+2	.2	- .5
Kahului . . .	77	-1	.5	+ .1	N. H. Concord . . .	67	-3	1.4	-1.7	VT. Burlington . . .	70	0	3.7	+ .2
Lihue . . .	79	+1	4.7	+2.8	N. J. Atlantic City . . .	75	0	2.0	-2.4	VA. Lynchburg . . .	74	-2	2.8	-1.3
IDAHO. Boise . . .	74	-1	.5	+ .3	Trenton . . .	76	0	3.2	-1.5	Norfolk . . .	78	0	5.5	- .2
Lewiston . . .	74	+1	.4	- .1	N. MEX. Albuquerque . . .	77	-2	2.4	+1.0	Richmond . . .	77	-1	2.3	-3.3
Pocatello . . .	71	-1	.1	- .3	Roswell . . .	80	+1	.3	-1.4	Roanoke . . .	75	0	3.7	0
ILL. Cairo . . .	81	0	.5	-2.7	N. Y. Albany . . .	69	-3	4.8	+1.7	WASH. Colville . . .	67	-1	1.0	+ .3
Chicago . . .	75	0	4.0	- .1	Binghamton . . .	70	+1	4.2	+ .4	Omak . . .	68	-2	1.4	+ .9
Moline . . .	77	+2	1.7	-2.9	Buffalo . . .	70	0	1.8	-1.1	Quillayute . . .	58	-1	5.4	+3.0
Peoria . . .	77	+2	2.6	-1.2	New York . . .	77	0	1.4	-2.5	Seattle-Tacoma . . .	64	-1	1.5	+ .8
Rockford . . .	75	+2	1.5	-2.8	Rochester . . .	71	0	2.8	- .1	Spokane . . .	68	-2	.7	+ .3
Springfield . . .	79	+3	.9	-2.9	Syracuse . . .	69	-3	9.5	+6.4	Walla Walla . . .	74	-2	.9	+ .6
IND. Evansville . . .	79	+1	.2	-3.6	N. C. Asheville . . .	73	-1	3.9	-1.0	Yakima . . .	68	-3	2.2	0
Ft. Wayne . . .	75	+2	.4	-3.5	Charlotte . . .	77	-1	4.2	-1.7	W. Va. Beckley . . .	68	-2	3.9	- .5
Indianapolis . . .	76	+1	1.2	-2.5	Greensboro . . .	77	-2	1.7	-2.9	Charleston . . .	74	-1	2.2	-2.8
South Bend . . .	75	+3	1.2	-2.5	Hatteras . . .	77	0	2.5	-1.9	Huntington . . .	75	0	1.4	-2.8
IOWA. Burlington . . .	77	+2	3.5	- .3	Raleigh . . .	77	-1	1.6	-3.5	Parkersburg . . .	74	-1	2.5	-1.8
Des Moines . . .	81	+6	1.3	-2.0	Wilmington . . .	79	-1	8.4	+ .1	WIS. Green Bay . . .	70	+1	4.3	+1.2
Dubuque . . .	74	+2	1.9	-2.4	N. DAK. Bismarck . . .	74	+3	1.0	-1.2	La Crosse . . .	76	+3	1.8	-1.7
Sioux City . . .	81	+6	1.3	-2.0	Fargo . . .	74	+3	4.8	-1.6	Madison . . .	72	+2	2.7	-1.1
KANS. Concordia . . .	84	+6	.2	-3.1	Williston . . .	74	+4	1.3	- .7	Milwaukee . . .	72	+2	3.5	+ .1
Dodge City . . .	83	+4	.8	-2.3	OHIO. Akron-Canton . . .	72	0	2.4	-1.4	WYO. Casper . . .	73	+2	.8	- .2
Goodland . . .	78	+2	1.2	-1.5	Cincinnati . . .	72	-4	3.8	- .3	Cheyenne . . .	70	+1	1.4	- .4
Topeka . . .	81	+3	2.9	-1.3	Cleveland . . .	72	+1	1.9	-1.6	Lander . . .	73	+2	.5	- .1
Wichita . . .	84	+3	.9	-3.5	Columbus . . .	74	0	1.1	-3.1	Sheridan . . .	73	+3	.7	- .4
KY. Lexington . . .	74	-2	4.8	0	Dayton . . .	76	+1	.5	-3.0	P. R. San Juan . . .	84	+3	1.1	-5.3
Louisville . . .	72	-5	2.0	-1.8	Toledo . . .	73	+1	.7	-2.5					

continued from page 7

NEBRASKA: Precipitation received most State. Many areas 2.00 to 2.50 in. Temperatures 5 to 10° below normal.

Fieldwork: 6 days suitable. Topsoil moisture supplies 74% short, subsoil supplies 93% short. Irrigated corn condition improved, mostly good to fair, 100% silked. Dryland corn condition mostly poor, 80% silked. Normally both are 100% silked. Most severe damage is poor pollination. Sorghum condition improved, 74% good, 60% headed, normal 85%. Soybean condition mostly poor, 70% podded, normal 85%. Alfalfa condition mostly poor, 50% third cutting will make crop and be harvested. Range and pasture feed supplies improved slightly. Supplemental feeding is continuing. Livestock mostly good to fair. Cattlemen culling old cows.

NEVADA: Above normal temperatures and thunder-showers continue through midweek. Temperatures returned near normal end of period, thunder-showers diminished. Hottest reporting station Las Vegas 106°, coldest Mountain City 28°. Majority stations received measurable precipitation, Yerington most, 0.47 in.

Small grain harvest starting north. Ranges dry and subject to fires. Grass only fair. Livestock grains below normal.

NEW ENGLAND: Cool dry weather. Temperatures generally near to well below normal. Precipitation continued sparse and spotty.

Showers south gave some relief, still dry. Irrigated fruits and vegetables doing well, others showing effects of dry weather. Much hay made all areas. Aroostook County, Maine potato growers busy spraying for insects and late blight, crop prospects good. Corn making progress.

NEW JERSEY: Cool wet week averaging 0.64 in. northern, 1.61 in. central, and 2.38 in. southern counties. Temperatures averaged 67.4° north, 68.9° central, and 68.6° in southern counties. Extremes: 86° Cape May, 45° Newton.

Soil moisture average 80% field capacity north 78% central and 87% south. Soil moisture is adequate to excessive. Cool temperatures and rainfall have been beneficial for the development of crops. Harvest of snap beans, cabbage, and tomatoes is general from summer acreage. Pepper, eggplant, potato and apple harvest increasing. Harvest of peaches is general. Field corn and soybeans responding well to recent rains. Growth of pastures and forage crops started again with added soil moisture.

NEW MEXICO: More than 1.00 in. of rain north central and south central and southern Gila Mountains. Also some very substantial rains in dry northeast and southeast plains, more than two inches at Roswell with some hail damage. Temperature changes minor, about 4° cooler than normal.

Isolated rains, moisture short. Cotton good, 70% boll setting. Alfalfa, 2nd cut complete north, 3rd cut nearing completion elsewhere. Irrigated sorghum good, 80% headed. Corn good, most tasseled. Onions, apples, peanuts good. Ranges poor to fair. Livestock fair.

NEW YORK: Temperatures and rainfall averaged below normal. Temperature extremes: 44° Saranac Lake, 85° several locations. Rain spotty but highest amounts southeast where greatest long-term deficiency reported.

Second cutting alfalfa 60% complete, third cutting 10%. Corn in good condition. Wheat harvest

60% done, oat harvest 20% in. Dry beans growing well. Celery and iceberg lettuce being harvested. Long Island irrigation continues, Superior variety potato harvest beginning. Cabbage condition improving. Hudson Valley peach and early apple harvest continues, hail damage evident some western apple orchards.

NORTH CAROLINA: Numerous showers and thunderstorms ended a long dry spell. Rain much above normal. Locally heavy rains about every day. Heavy rains caused flooding of rivers in various Piedmont locations, especially rural lowlands. Temperatures variable, average 70's to 80's.

Tobacco harvest 45% complete, 60% 1973. Leaf quality, good. Soil moisture 82% surplus, 18% adequate. Late planted corn doing better, mostly good. Piedmont damage, lack of soil moisture. Cotton mostly good. Aerial application spraying halted, unfavorable flying conditions. Peanuts good. Soybeans improved, especially late planted, good pod development, mostly good condition. Pastures improving. Sweet potatoes 6% harvested, apples 15% harvest completed.

NORTH DAKOTA: Temperatures ranged from 1° above normal northwest to 5° below normal south central. Extremes: 95° Watford City, 37° Breien. Precipitation generally below normal. Range from 0.07 in. above normal west central to 0.70 in. below normal northeast. Weekend brought 3.84 in. rainfall at Fargo and showers elsewhere.

Weekend rains in eastern third halted small grain harvest and helped row crops and pastures. Elsewhere needs rain to improve fall pastures. Crops continues to advance to maturity, full scale harvest expected in week to 10 days. Livestock in generally good condition.

OHIO: Northwest continued dry. Rainfall: Trace to 1.37 in. Extremes: 88° and 48°.

Corn 25% dough stage or beyond. Soybeans 70% setting pods, 20% advanced to pods set. Oats harvest virtually complete. Timothy seed harvest 50% done. Potato digging 15% complete, about normal. Tobacco 10% topped, average 25%. Alfalfa hay harvest 85% done, Clover-timothy, 65%. Fall plowing 10% complete, due to dry conditions, normal 25%.

OKLAHOMA: Temperatures averaged 4 to 9° below normal. Precipitation averaged 0.10 in. south central to 1.70 in. Panhandle. Weekend warm, with moderate to very heavy rain.

Scattered showers and weekend rains have eased drought conditions. Corn 20% dough stage panhandle, harvest started east and north. Sorghums fair condition, 41% dough stage. Cotton setting bolls 60% acreage, poor to fair condition. Soybeans 89% blooming, 34% setting beans, mostly fair condition. Peanuts 65% spiking, fair to good condition, 10 days ahead 1973. Ranges and pastures in poor shape west half. Cattle mostly good condition.

OREGON: Typical midsummer weather. Average temperatures 2 to 5° above normal most locations. South central and northeast received few midweek showers, amounts ranging up to 0.32 in. Klamath Falls under 0.10 in. most other areas.

Grain harvest major farm activity. Seed crop harvest completed, field burning underway. Hop conditions good. Potato harvest continues, processing starting. Summer vegetable harvest at peak. Early peaches, apples, pears, prunes, apricots being picked. Fall apple and pear condition very good. Filberts sizing well. Ranges, hot and dry, fire conditions

dangerous. Feed supplies and quality good. Live-stock condition good, some market activity.

PENNSYLVANIA: Cool and mostly dry with temperatures 1 to 6° below normal, highs most days in 70's, lows in 50's and 60's. Extremes: 83 and 41°. Showers and thunderstorms 9th.

Small grain harvest finished. Oats harvest 50% complete. Early corn, tomatoes, and potatoes being harvested. Corn is 60% silked and is in good condition. Fall plowing started, 2d cuttings of alfalfa and timothy 50%, and 15% 3d cuttings done. Pastures average to below average.

PUERTO RICO: Average rainfall 0.20 in. below normal. Highest weekly total 3.98 in. Levittown. Temperatures averaged about 80 to 81° coasts, 75 to 76° interior. Extremes: 95° Guayama, 58° Cerro Maravilla.

Water rationing continues in San Juan area and other localities. Water storage levels still low although some improvement due to rainshowers. Cloud seeding taking place over eastern interior. Development of sugarcane ratoons and new plantings retarded due drought situation mostly in south coastal areas. Coffee zones improving due to rainshowers. Some areas working soil for tobacco seedbeds. Pastures still suffering due prolonged drought. Farmers planting minor crops in western interior.

SOUTH CAROLINA: Week wetter, cooler than usual. Rain heaviest northeast. Substantial flooding Little Pee Dee River, some streams. Precipitation over State throughout week with lightest in west.

Rains during week eliminated soil moisture shortages; but caused excessive soil moisture problems. Field activities at standstill for most producers. Tobacco harvested 86%, 85% 1973, condition good. Cotton condition fair to good; rains intensified insect problems, spraying well behind, rank growth and boll-rot, practically all setting bolls, 1% open bolls. Condition corn improved fair to good, 97% dough stage, 87% 1973, 45% mature, 31% 1973. Soybean condition good. Peach harvest 95% complete, 82% 1973. Apple maturity slowed, grape condition fair to good. Land preparation for fall vegetables stopped wet weather. Pasture condition greatly improved by rains.

SOUTH DAKOTA: Temperatures averaged 2 to 7° below normal. Extremes: 99° Plainview; 42° Faulkton. Eastern third received rain in varying amounts: Wentworth most fortunate with 4.45 in. Widely scattered rains central and northwestern portions.

Small grain harvest nearly complete, most grain left to be combined in north. Corn varies throughout, short and setting few ears most locations. Rain east will help improve row crops. Sorghum and soybean prospects better than corn. Grasshopper numbers increasing, central and north central. Pastures dry and short, supplemental feeding of hay or green chopped corn many areas. Livestock generally good condition. Feed supplies are variable.

TENNESSEE: Scattered showers almost daily. Rain averaged 1.00 in. with some locally heavier amounts. Temperatures cooler than normal.

Rains too late for early corn. Corn 10% dented, 50% in or past dough stage, 80% silked. Corn silage harvest started. Cotton 70% set bolls, same as 1973. Soybeans 60% bloomed and 15% set pods, last year 55%, average 70%. Soybean prospects near normal. Tobacco crop mostly poor. Rains started plant growth again some areas, elsewhere short. Crop is 40% topped. Burley harvest started.

TEXAS: Generally mild, humid weather, accompanied by soaking rains. Heaviest rain south central Texas with 11 in. recorded in 24-hour period, resulting in flooding several creeks and rivers. Rainfall totals reached 14.20 in. at Cotulla, average between 1 and 4 in. east of Pecos and north of Lower Rio Grande Valley. Hot, dry weather confined far south Texas. Rainfall light, temperatures near normal. Several rains elsewhere held temperatures below normal.

Cotton, corn, sorghum harvest making rapid progress south half. Recent rain delayed harvest some areas. Crop prospects generally improved. Land preparation underway High and Low Plains for fall wheat crop. Major crops percent harvested: Cotton 5, 1973 1; corn 22, 1973 4; sorghum 43, 1973 25; peanuts 3, 1973 4; rice 49, 1973 21.

High Plains: Harvest of potatoes, onions and pickling cucumbers near completion. Watermelon harvest started, carrots, bell peppers, tomatoes doing well. Trans-Pecos: Chili pepper and cantaloupe harvest in progress. North: Harvest of watermelons, tomatoes, cantaloupes, okra and peas in progress. Irrigated vegetables doing well. East: Vegetables progressing moderately, early sweet potato harvest expected to begin soon, late pea crop looks good. Some areas, dryland vegetables burned out. Watermelon harvest progressing well. Central: Farmers begun preparing for fall vegetables. Rainfall expected to spur fieldwork. San Antonio-Winter Garden: Preparation fall crop slowed by rainfall. Laredo and Coastal Bend: Preparation for fall crops full swing. Eagle Pass: Cucumbers planted, planting of other crops delayed by rain. Lower Rio Grande Valley: Citrus progressing well. Pecan above average north.

Rains relieved drought many areas, grazing expected improve shortly. Water still short some areas. Hay baling active central and south. Rain relieved pressure on ranches to reduce herds.

UTAH: Moderate precipitation. Average temperatures 1 to 4° below normal. Accumulated growing degree day base 50, range from 60 to nearly 600 degree days above normal.

Second crop alfalfa 90% and clover-timothy 95% harvested. Winter wheat harvest 78% completed on dryland plantings and 70% on irrigated land. Spring grain harvest progressing 60% spring wheat, 40% oats, and 65% barley harvested. Field corn development progressing, 65% in silk stage and 30% milk stage. Early peaches being picked.

VIRGINIA: Showers and thunderstorms with rain averaging near 2.00 in. Temperatures 3° below normal. Extremes: 91° and 52°.

Rains ended the drought. Topsoil moisture, 17% short, 47% adequate, 36% surplus. Fieldwork: 2.5 days suitable. Condition all crops but peanuts improved. Early corn and hay had most damage from drought. Corn silage harvest started. Soybeans blooming, vigorous growth. Flue-cured tobacco 14% harvested, 1973, 14%, less than 5% fire-cured tobacco harvested. Burley tobacco needs rain. Hay and pastures show rapid improvement. Tomatoes, snap beans and sweet corn being harvested. Field preparation for seeding fall grains started.

WASHINGTON: West: Cooler, average temperatures near normal and no precipitation.

Raspberry harvest ending, blueberry harvest in full swing. Harvesting early vegetables including sweet corn, beans, lettuce, cauliflower, cucumbers, broccoli, green peas, beets and seed crops. Hay harvest continues active. East: Average

temperatures near normal, with a few scattered thunderstorms. Peach harvest active. Harvest of Tydeman's Red apples and prunes started. Harvesting continues on potatoes, tomatoes, sweet corn, mint, dry peas, lentils and other vegetables. Wheat and barley harvest in full swing. Finishing bluegrass seed harvest. Third cutting alfalfa hay started.

WEST VIRGINIA: Temperatures below normal: Mostly in 80's. Precipitation below normal, however, some areas had showers each day.

Soil moisture short eastern panhandle, adequate remainder. Major field activities: Harvesting hay, clipping pasture and gardening. Small grain harvest: Wheat 95%, oats 69%. Growing crops in fair to good condition. Second cutting of hay 33% complete. Tobacco 25% topped. Corn 43% pre-silked, 46% silked and 11% dough. Main peach harvest underway. Cattle experiencing more pink-eye than normal, cattle in good condition.

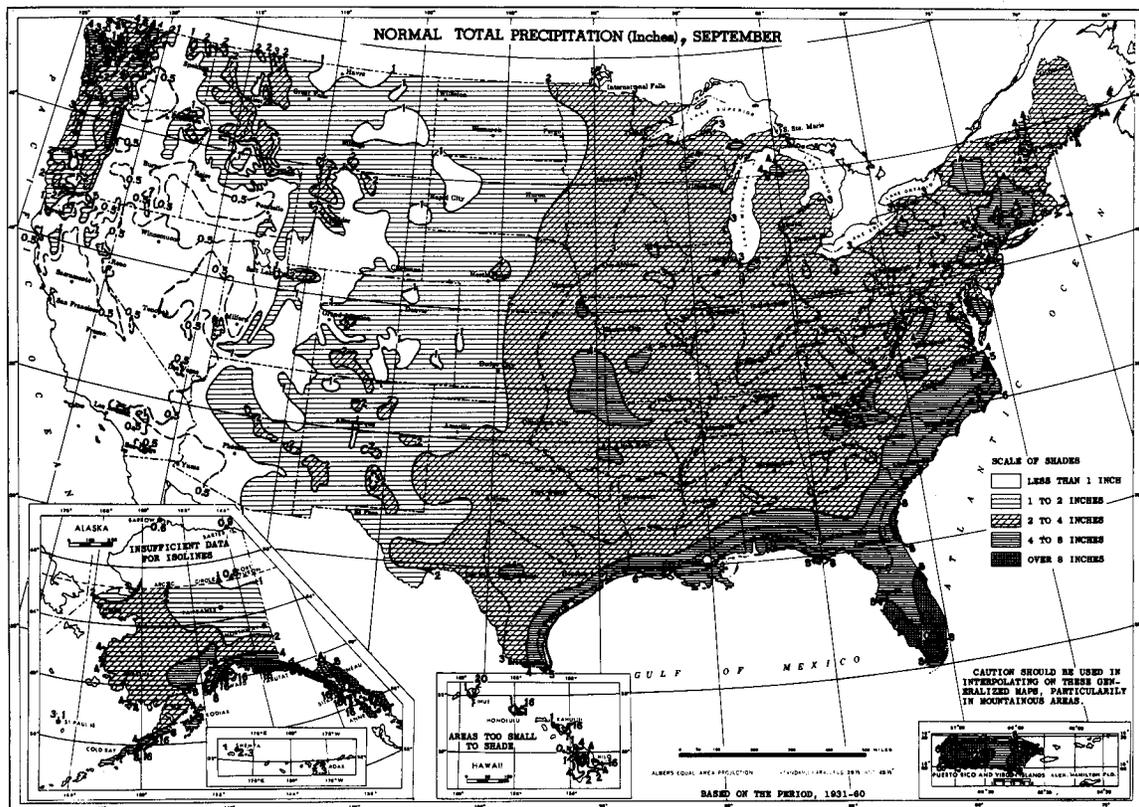
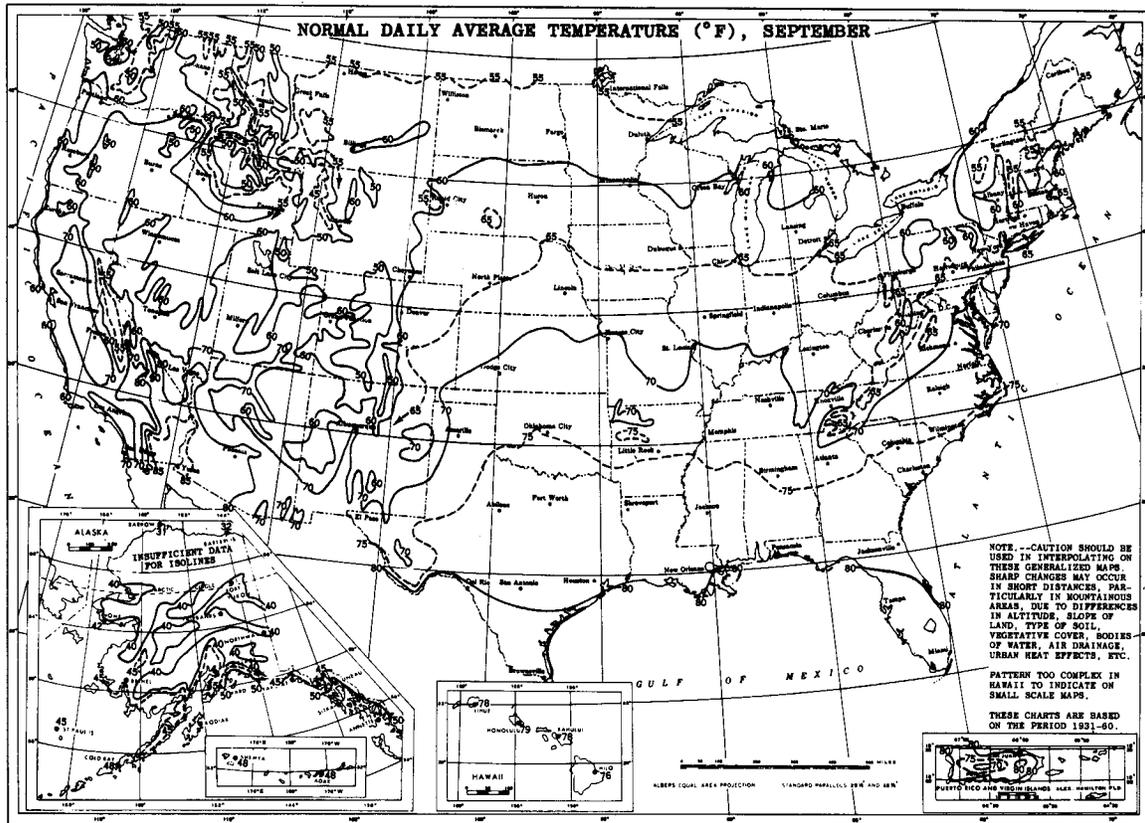
WISCONSIN: Temperatures slightly below normal; in upper 70's or mid-80's. Lows mid-40's to 50's early in week, 60's later. Widely scattered showers and thunderstorms during week. Amounts over 1.00 in. west and north to less than 0.50 in. east. Highest weekly total was 2.00 in. at Lacrosse.

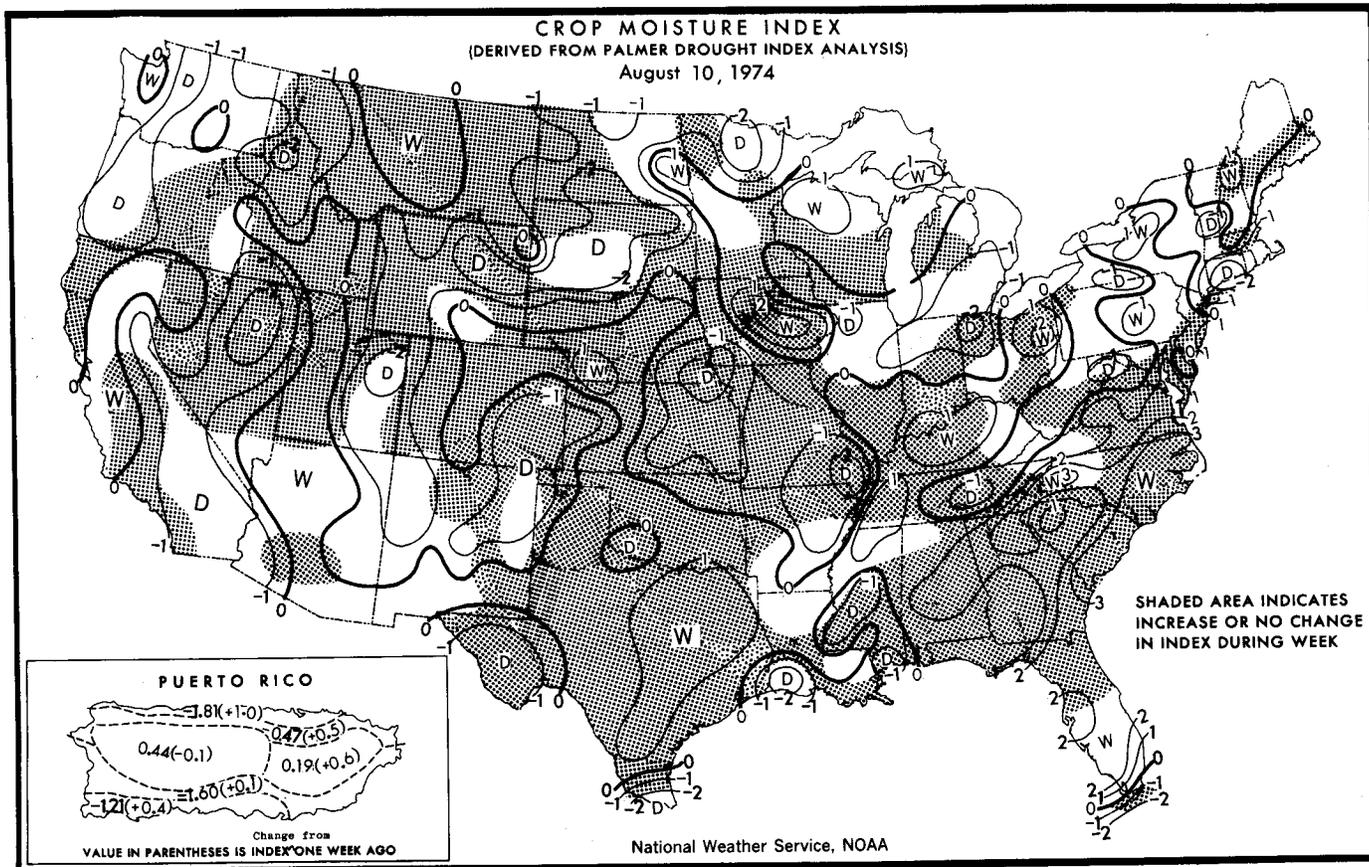
Rainfall helpful to crops after hot, dry July. Some crops west and northwest damaged too far from heat and dryness to recover. Corn very good south and east. Corn 65% in silk, 1973 65%, normal 80%. Oats 25% combined, 1973 30%, normal 45%. Oats crop in west and northwest hurt by dry weather. Wheat, barley, and rye have yielded very good. Straw more abundant than last two years. Second crop hay 50% harvested. Pastures below normal, recent rains will help. Soybeans developing well south and east. Tobacco growing good. Non-irrigated vegetable yields down, irrigated crops fair to good. Early potato harvest in full swing. Soil moisture 65% short and 35% adequate prior to weekend rains.

WYOMING: Most stations received light to moderate showers and reported above average precipitation for week. Temperatures were below normal: 2 to 5° below west of Divide and 4 to 9° below normal east.

Winter wheat 90% harvested. Spring wheat 95% turning color, 75% matured, 40% harvested. Barley 70% matured, 30% harvested. Oats 45% matured, 20% harvested. Corn 80% tasseled, 55% silked. Dry beans 75% bloomed, alfalfa second cutting 45% complete, other hay 65% cut. Topsoil moisture supplies remain short. Fall and winter grazing prospects fair. Livestock conditions good. Pasture and range conditions fair.

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SHADED AREAS: Index increased or did not change last week

UNSHADED AREAS: Index decreased last week

Index

Above	3.0 Excessively wet, some fields flooded
2.0 to	3.0 Too wet, some standing water
1.0 to	2.0 Prospects good, some fields too wet
0 to	1.0 Moisture adequate for present normal needs
0 to	-1.0 Prospects improved, but rain still needed
-1.0 to	-2.0 Some improvement, but still too dry
-2.0 to	-3.0 Drought eased, but still serious
Below	-4.0 Not enough rain, still extremely dry

Index

Above	3.0 Some drying, but still excessively wet
2.0 to	3.0 More drying weather needed, work delayed
1.0 to	2.0 Favorable, except still too wet in spots
0 to	1.0 Normal growth and fieldwork
0 to	-1.0 Topsoil moisture short, germination slow
-1.0 to	-2.0 Abnormally dry, prospects deteriorating
-2.0 to	-3.0 Too dry, yield prospects reduced
-3.0 to	-4.0 Potential yields severely cut by drought
Below	-4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

Shaded areas are those where precipitation increased the index last week or where soils did not dry. Unshaded areas dried last week.

The centers of wet or dry areas are marked: W=wet; D=dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.



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