

Weekly Weather & Crop Bulletin

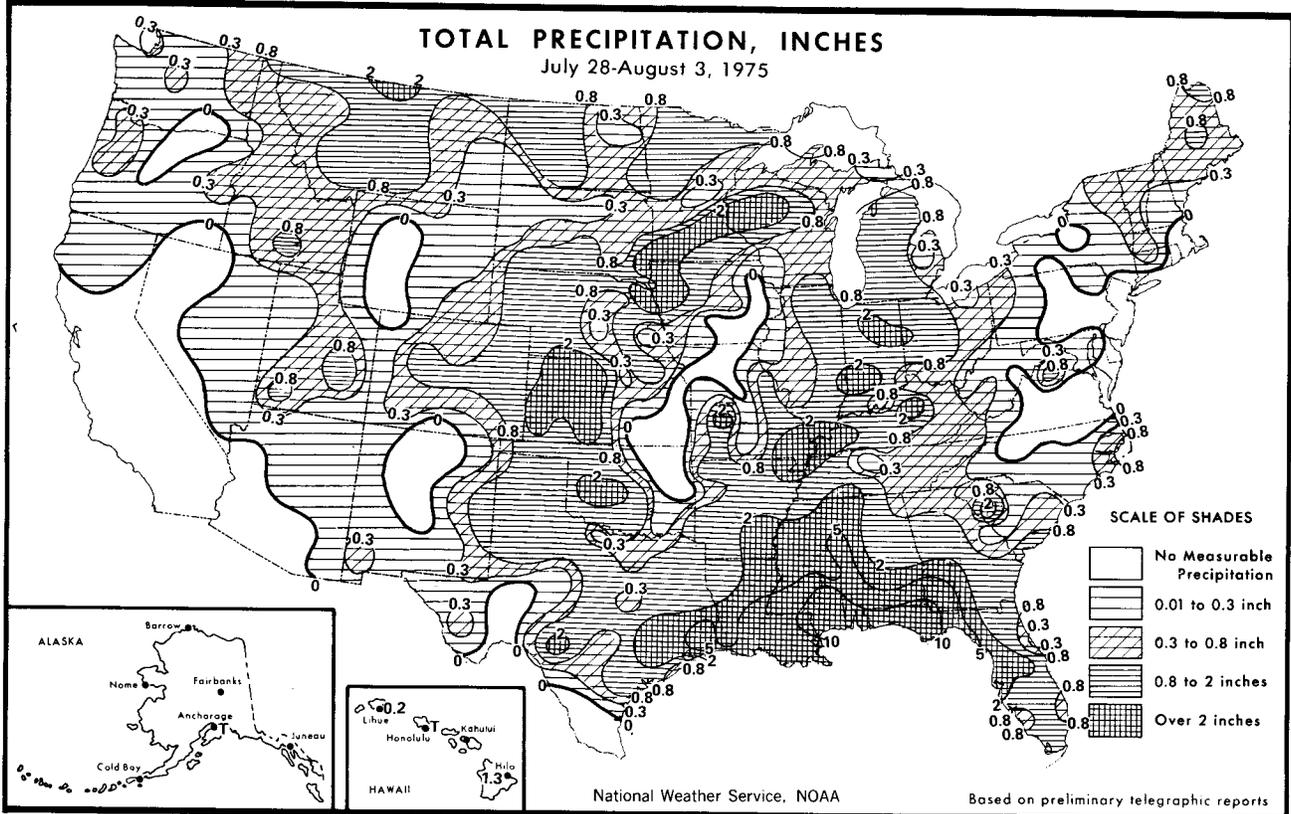
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NATIONAL WEATHER SUMMARY

For the Week of July 28-August 3

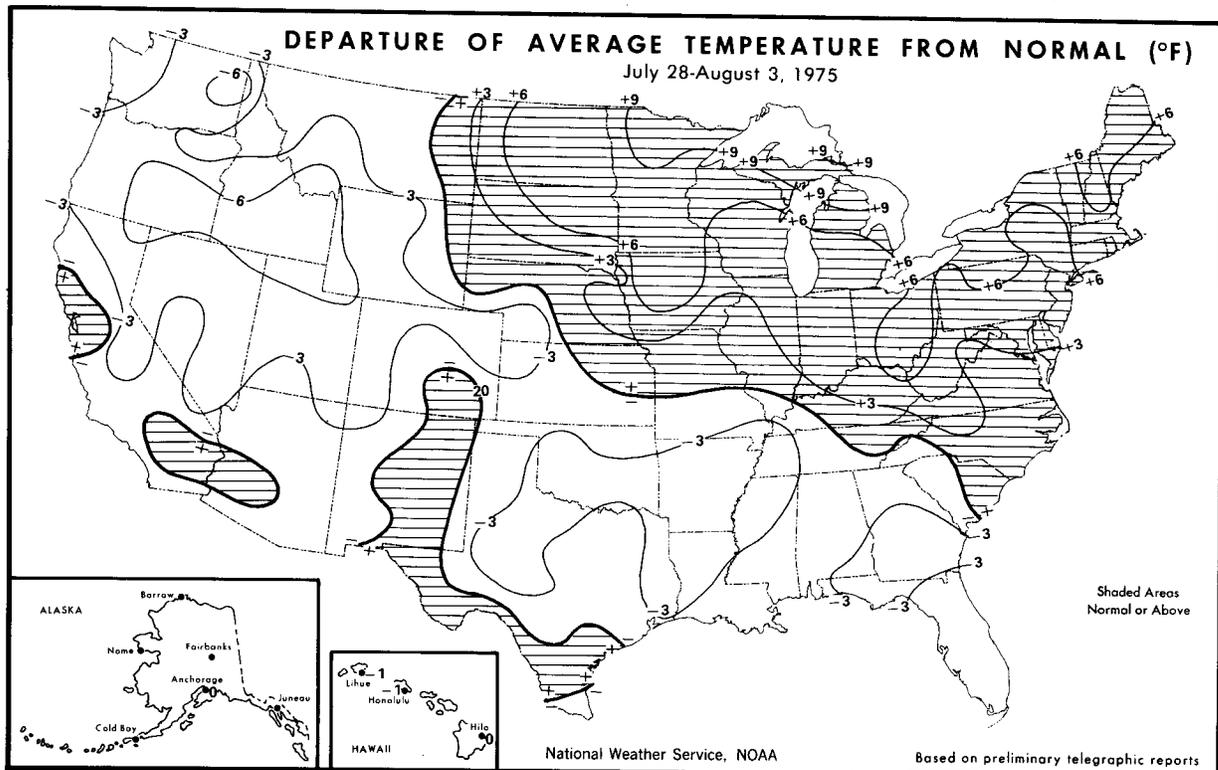
HIGHLIGHTS: Contrasts in precipitation and temperature were the key features of the week's weather picture. A tropical depression favored the already saturated Atlantic and Gulf Coast areas with the bulk of its heavy rainfall, but scarcely touched the parched Plains areas. The eastern third of the Nation, particularly the Northeast, sweltered under record breaking highs, while the western third fared under mild, and even cool, temperatures.

PRECIPITATION: After closing out the week on a stormy note, the weather on Monday and Tuesday lost much of its punch. Any action there was centered around the Ohio Valley, where a cold front triggered thunderstorms from New York to Indiana. A low pressure system hovered over the Gulf of Mexico, raising thundershowers in the south Atlantic and Gulf Coast States. Showers

also developed from western Montana into Arizona, and even spilled over into the Rockies and Intermountain regions.

South of a stationary front high humidity blanketed the southeast quarter of the Nation. Meanwhile, north of the front, more comfortable conditions prevailed, from the Great Lakes to the north Atlantic Coast regions.

Wednesday's weather, however, livened up a bit. The Gulf depression travelled into southern Mississippi, distributing thunderstorms along the Gulf and south Atlantic Coasts. Northwest Florida seemed to get more than its share; heavy rains soaked Milton with 4 1/2 inches in only 6 hours. Elsewhere, a high pressure system kept the northeast quarter of the Nation sunny, but light winds there forced parts of New York, Michigan, Maryland, Ohio, and Virginia to issue air stagnation advisories.



Moving at a slow pace, the Gulf storm center on Thursday spread into Mississippi, Alabama, and Louisiana. Meanwhile, a slow moving cold front touched off scattered showers and thundershowers across parts of the north and central Plains and in the northern Rockies.

On Friday the storm center weakened as it drifted across Mississippi into southeast Arkansas. Scattered rains persisted over already soggy portions of the Southeast, and northwest Florida battled extensive lowland flooding.

Saturday delivered unwanted rains to the saturated Gulf States, and left sections of the parched Plains begging for moisture. Diminishing rains only teased the middle Mississippi Valley and eastern Kansas as they drifted across the Corn Belt. Hazy skies in the Northeast called for more air stagnation alerts.

Showers and thunderstorms moving from the West on Sunday began to push stagnant air slowly towards Atlantic. Elsewhere fair skies dominated the western half of the Nation into the upper Mississippi Valley.

TEMPERATURE: In the week's weather review, temperature drew most of the attention, as records were broken or tied in many parts of the Nation.

Hot weather made the news in the Plains, as the mercury in some spots rested at or above the 100° mark, and stayed in the 90's elsewhere. Thunderstorms cooled some areas at the beginning of the week, but relief was only temporary. Other areas, however, couldn't even look forward to cooler evenings; Tuesday's 1 a.m. reading in Moberge, S.D., held at 89°. In contrast the Northwest registered temperatures in the 50's, as did the eastern Great Lakes and northern New England areas.

High humidity added to the problems of the already warm southeast quarter of the Nation. The Plains and the upper Midwest had the same complaint--it was hot.

At midweek early morning lows in the 70's reigned over the Plains, Mississippi Valley, and the South. Duluth, Minn., 70°, set a record for the highest minimum for the date. In northwest U.S. cloudy skies trailed a cold front, holding afternoon temperatures in the 50's. Nighttime temperatures dropped considerably in parts of the Northwest; in some spots of Nevada and Oregon the mercury even dipped into the 30's.

Friday was a day for extremes. Marquette, Mich., broke its record high of 93°, and Pocatello, Idaho, dropped to a record breaking low in the morning of 44°.

Unseasonably hot weather in the Northeast tightened its grip as the week progressed. For Alpena, Mich., Friday was the fourth consecutive day that the daily record temperature had been broken or tied. Afternoon temperatures reached into the 100's in Pennsylvania, and Maine sweltered under its most severe heat wave in over 25 years.

Fair weather and mild temperatures in the western third of the Nation made that area the envy of the eastern third, where conditions were warm to hot, humid and hazy. Boston experienced its warmest night in over 100 years with an early morning low on Saturday of 83°.

And the heat went on. More daily record highs for Saturday -- these from the New England areas: Hartford, Conn., 101°; Boston, Mass., 102°; Concord, N.H., 101°; and Portland, Maine, 103°.

Records were still being set from North Carolina to Vermont, but temperatures finally began their slow descent on Sunday. A cold front fanned Maine and parts of New Hampshire, and reached into Massachusetts, lowering temperatures to the 70's. Nearby, however, Philadelphia, 98°, hit a record high for the third day in a row. Elsewhere a summer cold front chilled Minnesota to the mid 50's. The East still simmered, but temperatures also dipped in the Central Plains.

NATIONAL AGRICULTURAL SUMMARY

For the Week of July 28-August 3

HIGHLIGHTS: Rains over the Corn Belt August 1 to 3 helped sustain the corn and soybean crops and relieve some of the stress from the hot weather. Corn is in fair to good condition and developing earlier than last year. The soybean crop maintained generally good condition and is in a more advanced stage of development than last year. Cotton is in fair to good condition.

SMALL GRAINS: Small grain harvesting continued to show progress last week and the winter wheat harvest is 85% complete compared with 86% for both last year and average. Harvest of winter wheat is in the final stages in all of the North Central States except North Dakota where it has just started. Montana and Idaho have started harvest, both later than last year. The Montana crop is 50% ripe; 60% 1974, and 65% average. The Idaho crop is 15% ripe; 55% in 1974. Harvest in Utah is slow and 10% done. Wyoming is in full swing and 40% completed. Colorado's momentum is continuing and has advanced to 89%, compared with 76% the previous week.

Spring wheat harvest in South Dakota progressed to 43%, behind last year's 82%, and average of 49%. Minnesota's harvest advanced only 2 points from last week to 9% complete. North Dakota's harvest is just starting.

Oats harvesting is lagging behind last year's pace in the two largest States, South Dakota and Minnesota, where 69% and 29% have been combined compared with 1974's 82% and 32%.

CORN: Hot, dry weather most of the week in the Corn Belt added further stress to the corn crop. However, rains during the last of the week and weekend relieved some moisture shortages and will help sustain the crop. Corn in most States is in fair to good condition. Development of the crop is generally earlier than last year, except in Kansas where it is the same and Nebraska where it is slightly behind last year.

The crop in Iowa, the top corn State, is approaching a critical stage. Late planted corn and corn on lighter soils are showing additional stress from the hot, dry weather. Growing conditions remained mostly fair and pollination fair to good. Iowa has 92% of the acreage in the silk or later stage this year, compared with 74% in 1974 and 85% average. Illinois, the next largest corn State, received additional moisture on the eastern side of the State maintaining the crop in good to excellent condition. Illinois corn is 60% in the dough stage, compared with 10% in 1974 and 24% average. Topsoil moisture is generally short in Nebraska and Kansas with the eastern two-thirds of Kansas becoming critically short.

COTTON: The cotton crop made good growth last week following rain over the Southern States. Virtually all of the Mississippi crop has started squaring, but only 61% has started setting bolls compared with 80% in 1974. Alabama cotton is in good condition but later than last year. Only 68% of the acreage has started setting bolls against 91% in 1974. The South Atlantic States show fair to mostly good condition. Arizona's crop is in good condition while New Mexico is only fair and later than normal. Texas cotton on the High Plains is making good growth, beginning to fruit and bloom. The Low Plains are showing good growth but insects are increasing. Cotton fields in southern Texas have been defoliated and harvest has started in dry fields.

SOYBEANS: The soybean crop made average development last week and is in fair to good condition. The moisture shortage in the North Central States had less effect on soybeans than on corn. Development of the crop is earlier than last year in all States except South Dakota and earlier than average in all States except Nebraska, South Dakota, and Mississippi. Soybeans in Illinois, the leading producer, are rated good to excellent and much earlier than last year's late crop. Seventy percent of the soybean acreage is setting pods, compared with 17% in 1974 and 35% average. An estimated 92% of the soybeans have reached the bloom stage or later; it was 54% in 1974 and 69% average. Iowa, the second largest soybean State, has 60% of the crop setting pods; 29% in 1974, and 41% average. Eighty-four percent of the soybeans are blooming or later; 71% in 1974, and 77% average. Soybean development in Kansas has been retarded by dry conditions. Late planted soybeans in Arkansas continue to show stress but weekend rains should have provided some relief. Early plantings are blooming and setting pods. Weeds and grass are becoming a problem in Alabama and Louisiana fields.

OTHER CROPS: Sorghum harvest made excellent progress in the early areas of Texas; 37% harvested, 40% 1974, and 27% average. It's just starting in the Blacklands east. High and Low Plains sorghum is developing well but greenbugs are increasing and spray programs are required in some localities. Sorghum development in Oklahoma is late; 25% dough stage, 31% 1974. Kansas and Nebraska sorghum crops are ahead of last year with 20% and 55% headed, compared with 10% and 40% respectively for last year. Potatoes are making rapid growth in Maine but there's concern about the set. Idaho's crop has 80% of the middles closed; 85% 1974. Potato harvest continues in eastern Washington and the Norgold harvest around Hermiston, Oregon.

The rice harvest in Texas is gaining momentum at 21% complete, lagging last year's 47% and average at 34%. Rice in Arkansas is making excellent progress as fields are being drained for harvest to start within two weeks.

FRUITS AND NUTS: Tart cherry harvest is nearing completion in central Michigan and is 80% complete for the State. Cherry harvest continues active in Wisconsin and Oregon. Tart cherry harvest is in the final stages in New York. Early variety apples and peaches are available in New York with sizing adequate. Apple thinning is nearing completion in Oregon and California with some harvesting. Peach harvest is starting in the Willamette Valley of Oregon and starting in southern Michigan. Mississippi's peach harvest is 87% complete.

VEGETABLES: Supplies of vegetables in the Northeastern States are generally increasing. Onion, celery, and lettuce harvests are active in New York. Harvest of snap beans for processing continues with good yields. Lettuce harvest varies from active in the San Luis Valley of Colorado to light in Salinas Valley, California. Onion harvest is nearly complete in Texas.

PASTURES AND LIVESTOCK: Pasture conditions declined with the hot weather and lack of rain. Most North Central pastures are only fair to good and generally need moisture. Idaho and Montana have good to excellent ranges. Livestock condition is good.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Aug. 3, 1975

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 . . .	78	- 2	1.4	+ .3	La. Baton Rouge . . .	80	- 2	5.7	+ 4.3	Youngstown . . .	76	+ 5	.6	- .2
Ala. Mobile . . .	79	- 3	12.3	+10.5	La. Lake Charles . . .	81	- 2	2.3	+ 1.0	OKLA. Okla. City . . .	79	- 4	2.9	+ 2.4
Ala. Montgomery . . .	80	- 1	1.9	+ .9	La. New Orleans . . .	80	- 2	7.0	+ 5.6	OKLA. Tulsa . . .	82	- 1	0	- .7
Alaska Anchorage . . .	58	0	T	- .5	La. Shreveport . . .	80	- 4	1.1	+ .5	OREG. Astoria . . .	60	- 1	.1	- .1
Alaska Fairbanks . . .	---	---	---	---	MAINE Caribou . . .	69	+ 4	1.2	+ .3	OREG. Burns . . .	62	- 7	.2	+ .1
Alaska Juneau . . .	---	---	---	---	MAINE Portland . . .	76	+ 8	T	- .6	OREG. Medford . . .	68	- 4	.2	+ .1
Alaska Kodiak . . .	---	---	---	---	MD Baltimore . . .	80	+ 3	T	- 1.0	OREG. Pendleton . . .	72	- 2	0	- .1
Alaska Nome . . .	---	---	---	---	MASS Boston . . .	81	+ 8	T	- .7	OREG. Portland . . .	65	- 3	.3	+ .2
Alaska Z. Flagstaff . . .	64	- 2	.1	- .6	MASS Chatham . . .	73	---	0	---	OREG. Salem . . .	64	- 3	.3	+ .2
Ariz. Phoenix . . .	93	+ 2	0	- .3	MICH Alpena . . .	75	+ 9	1.0	+ .4	PA Allentown . . .	78	+ 4	T	- 1.0
Ariz. Tucson . . .	85	- 1	0	- .6	MICH Detroit . . .	77	+ 5	.8	+ .1	PA Erie . . .	74	+ 5	.4	- .4
Ariz. Winslow . . .	76	- 2	.1	- .3	MICH Flint . . .	75	+ 5	.2	- .5	PA Harrisburg . . .	80	+ 4	T	- .8
Ariz. Yuma . . .	93	- 2	0	- .1	MICH Grand Rapids . . .	75	+ 3	1.3	+ .7	PA Philadelphia . . .	82	+ 5	0	- 1.0
Ark. Fort Smith . . .	79	- 4	T	- .7	MICH Houghton Lake . . .	73	+ 6	.4	- .2	PA Pittsburgh . . .	77	+ 5	.2	- .6
Ark. Little Rock . . .	79	- 3	2.0	+ 1.3	MICH Lansing . . .	75	+ 4	1.1	+ .5	PA Scranton . . .	77	+ 5	T	- .9
Ark. Bakersfield . . .	84	0	0	0	MICH Marquette . . .	78	+ 11	.4	- .2	PA R.I. Providence . . .	79	+ 7	T	- .8
Ark. Bureka . . .	55	- 2	.1	+ .1	MICH Muskegon . . .	75	+ 4	.9	+ .3	PA S.C. Charleston . . .	80	0	.8	- .9
Ark. Fresno . . .	77	- 4	0	0	MICH S. Ste. Marie . . .	73	+ 8	T	- .6	PA Columbia . . .	80	- 1	.2	- 1.1
Ark. Los Angeles . . .	72	- 2	0	0	MINN Duluth . . .	75	+ 8	.4	- .4	PA Greenville . . .	78	- 1	.4	- .5
Ark. Red Bluff . . .	81	- 1	T	0	MINN Internatl Falls . . .	75	+ 9	1.2	+ .4	PA S.D. Aberdeen . . .	81	+ 8	.2	- .3
Ark. San Diego . . .	71	0	0	0	MINN Minneapolis . . .	81	+ 8	2.2	+ 1.4	PA Huron . . .	82	+ 7	.4	- .3
Ark. San Francisco . . .	66	+ 3	T	0	MINN Rochester . . .	77	+ 6	1.6	+ .8	PA Rapid City . . .	76	+ 2	1	- .3
Ark. Stockton . . .	78	+ 1	0	0	MINN St. Cloud . . .	77	+ 6	1	- .7	PA Sioux Falls . . .	80	+ 6	4.7	+ 4.1
Ark. CO. Denver . . .	72	- 2	.6	+ .2	MISS Jackson . . .	80	- 2	4.3	+ 3.4	TENN Chattanooga . . .	78	- 1	.5	- .5
Ark. Grand Junction . . .	75	- 4	T	- .2	MISS Meridian . . .	80	- 2	2.5	+ 1.4	TENN Knoxville . . .	79	+ 1	.3	- .6
Ark. Pueblo . . .	77	0	.4	- .1	MO Columbia . . .	78	0	T	- .7	TENN Memphis . . .	79	- 3	1.3	+ .5
Ark. NN. Bridgeport . . .	80	+ 6	0	- .8	MO Kansas City . . .	81	+ 2	T	- .8	TENN Nashville . . .	79	- 1	.3	- .5
Ark. Hartford . . .	79	+ 6	.4	- .4	MO St. Louis . . .	79	0	.4	- .3	TEX Abilene . . .	83	- 2	.2	- .3
Ark. C. Washington . . .	83	+ 4	.1	- 1.0	MO Springfield . . .	78	- 1	.8	+ .1	TEX Amarillo . . .	77	- 2	1.5	+ .8
Ark. A. Apalachicola . . .	78	- 4	11.2	+ 9.4	MONT Billings . . .	71	- 2	.8	+ .7	TEX Austin . . .	84	- 1	.7	+ .3
Ark. Daytona Beach . . .	80	- 1	.1	- 1.4	MONT Glasgow . . .	71	- 1	.6	+ .3	TEX Beaumont . . .	81	- 3	5.1	+ 3.8
Ark. Ft. Myers . . .	83	0	.7	- 1.1	MONT Great Falls . . .	68	- 2	.8	+ .6	TEX Brownsville . . .	84	- 1	0	- .3
Ark. Jacksonville . . .	81	0	.9	- .8	MONT Havre . . .	69	- 2	2.0	+ 1.8	TEX Corpus Christi . . .	86	0	T	- .5
Ark. Key West . . .	83	- 2	1.2	+ .4	MONT Helena . . .	64	- 5	1.9	+ 1.7	TEX Del Rio . . .	89	+ 2	.2	+ .1
Ark. Lakeland . . .	81	- 1	1.9	+ .2	MONT Kalispell . . .	64	- 1	.7	+ .5	TEX El Paso . . .	83	+ 1	T	- .3
Ark. Miami . . .	82	- 1	1.3	- .1	MONT Miles City . . .	76	0	.3	+ .1	TEX Fort Worth . . .	85	- 1	.4	0
Ark. Orlando . . .	81	- 1	3.5	+ 1.8	MONT Missoula . . .	67	- 1	.6	+ .5	TEX Galveston . . .	84	0	.3	- .6
Ark. Tallahassee . . .	78	- 4	9.3	+ 7.5	NEBR Grand Island . . .	77	0	.1	- .5	TEX Houston . . .	83	- 1	2.2	+ 1.3
Ark. Tampa . . .	82	0	2.6	+ .7	NEBR Lincoln . . .	80	+ 2	T	- .7	TEX Lubbock . . .	78	- 2	1.5	+ 1.1
Ark. W. Palm Beach . . .	80	- 2	.7	- .6	NEBR Norfolk . . .	79	+ 3	.6	0	TEX Midland . . .	80	- 3	0	- .4
Ark. Atlanta . . .	76	- 2	1.2	+ .2	NEBR N. Platte . . .	71	- 4	1.6	+ 1.1	TEX San Angelo . . .	81	- 5	.1	- .1
Ark. Augusta . . .	80	- 1	.1	- 1.0	NEBR Omaha . . .	81	+ 5	.3	- .5	TEX San Antonio . . .	83	- 2	.6	+ .2
Ark. Macon . . .	78	- 4	1.4	+ .5	NEBR Valentine . . .	77	+ 2	.9	+ .4	TEX San Antonio . . .	83	- 2	.6	+ .2
Ark. Savannah . . .	79	- 3	1.8	+ .1	NEV Ely . . .	63	- 5	T	- .1	TEX Victoria . . .	86	+ 1	1.4	+ .8
Ark. WAII. Hilo . . .	76	0	1.3	- 1.2	NEV Las Vegas . . .	87	- 3	T	- .1	TEX Waco . . .	85	- 2	.4	+ .1
Ark. Honolulu . . .	80	- 1	T	- .2	NEV Reno . . .	66	- 4	0	0	TEX Wichita Falls . . .	83	- 4	T	- .4
Ark. Kahului . . .	---	---	---	---	NEV Winnemucca . . .	68	- 3	0	0	UTAH Blanding . . .	70	- 3	.2	- .1
Ark. Lihue . . .	78	- 1	.2	- .3	N.H. Concord . . .	74	+ 4	T	- .6	UTAH Salt Lake City . . .	73	- 5	.2	0
Ark. AHO. Boise . . .	70	- 5	.1	+ .1	N.J. Atlantic City . . .	79	+ 4	0	- 1.1	VT Burlington . . .	78	+ 8	.7	- .1
Ark. Lewiston . . .	72	- 2	.2	+ .1	N.J. Trenton . . .	81	+ 5	0	- 1.1	VA Lynchburg . . .	78	+ 2	0	- 1.0
Ark. Pocatello . . .	65	- 8	.7	+ .6	N.MEX Albuquerque . . .	78	0	T	- .4	VA Norfolk . . .	78	0	0	- 1.4
Ark. L. Cairo . . .	78	- 3	3.6	+ 2.9	N.MEX Roswell . . .	80	0	0	- .4	VA Richmond . . .	78	0	0	- 1.3
Ark. Chicago . . .	80	+ 5	.8	0	N.Y. Albany . . .	77	+ 5	.3	- .4	VA Roanoke . . .	78	+ 3	T	- .9
Ark. Moline . . .	77	+ 2	.2	- .7	N.Y. Binghamton . . .	75	+ 6	1	- .7	WASH Colville . . .	64	- 5	.6	+ .4
Ark. Peoria . . .	77	+ 2	.5	- .2	N.Y. Buffalo . . .	77	+ 7	.1	- .7	WASH Omak . . .	67	- 4	.1	0
Ark. Rockford . . .	77	+ 4	1.2	+ .3	N.Y. New York . . .	81	+ 4	T	- 1.0	WASH Quillayute . . .	59	0	.1	- .4
Ark. Springfield . . .	78	+ 2	.3	- .4	N.Y. Rochester . . .	77	+ 6	.1	- .6	WASH Seattle-Tacoma . . .	63	- 2	.1	0
Ark. D. Evansville . . .	79	+ 1	1.2	+ .4	N.Y. Syracuse . . .	76	+ 5	0	- .8	WASH Spokane . . .	64	- 7	.5	+ .4
Ark. Ft. Wayne . . .	76	+ 3	1.9	+ 1.1	N.C. Asheville . . .	73	- 1	.3	- .8	WASH Walla Walla . . .	72	- 4	T	- .1
Ark. Indianapolis . . .	78	+ 3	.8	+ .1	N.C. Charlotte . . .	79	0	.2	- .8	WASH Yakima . . .	68	- 3	.1	+ .1
Ark. South Bend . . .	76	+ 3	1.4	+ .6	N.C. Greensboro . . .	80	+ 3	T	- 1.0	W.Va Beckley . . .	74	+ 4	.1	- .8
Ark. WA. Burlington . . .	78	+ 2	.1	- .7	N.C. Hatteras . . .	79	+ 1	1.5	0	W.Va Charleston . . .	80	+ 5	.5	- .6
Ark. Des Moines . . .	81	+ 6	T	- .7	N.C. Raleigh . . .	78	0	.2	- 1.0	W.Va Huntington . . .	81	+ 6	.3	- .6
Ark. Dubuque . . .	76	+ 4	.1	- .8	N.C. Wilmington . . .	82	+ 1	.1	- 1.7	W.Va Parkersburg . . .	80	+ 5	.2	- .7
Ark. Sioux City . . .	78	+ 2	1.5	+ .9	N.DAK Bismarck . . .	78	+ 6	1.9	+ 1.5	WIS Green Bay . . .	75	+ 5	.5	- .1
Ark. NS. Concordia . . .	80	+ 1	T	- .6	N.DAK Fargo . . .	78	+ 6	1.8	+ 1.1	WIS La Crosse . . .	78	+ 4	.3	- .4
Ark. Dodge City . . .	79	- 1	1.1	+ .5	N.DAK Williston . . .	74	+ 3	.8	+ .4	WIS Madison . . .	75	+ 4	.6	- .1
Ark. Goodland . . .	73	- 4	1.5	+ .9	OHIO Akron-Canton . . .	78	+ 6	.6	- .2	WIS Milwaukee . . .	75	+ 4	.5	- .2
Ark. Topeka . . .	79	0	0	- .9	OHIO Cincinnati . . .	80	+ 4	.5	- .3	WYO Casper . . .	72	- 1	.1	0
Ark. Wichita . . .	80	- 2	T	- .8	OHIO Cleveland . . .	76	+ 5	.1	- .6	WYO Cheyenne . . .	67	- 3	.5	+ .1
Ark. Lexington . . .	80	+ 4	2.0	+ 1.0	OHIO Columbus . . .	81	+ 8	.9	+ .1	WYO Lander . . .	69	- 3	T	- .1
Ark. Louisville . . .	81	+ 4	.7	- .1	OHIO Dayton . . .	77	+ 3	1.2	+ .5	WYO Sheridan . . .	69	- 3	.4	+ .3
					OHIO Toledo . . .	75	+ 3	1.3	+ .6	P.R. San Juan . . .	83	+ 2	.5	- 1.1

Based on 1941-70 Normals

The Weekly Weather and Crop Bulletin is published by the National Weather Service, NOAA, and Statistical Reporting Service, USDA. Standard copy for the Bulletin is prepared by Dr. Richard E. Felch, agricultural climatologist, Lyle M. Denny, Orus W. Byrd, meteorologists, Jerry McCall, agricultural statistician, and Susan E. Atkins, editor.

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: Heavy and widespread rainfall deluged much of south Alabama during the middle of the week. Brewton, in southcentral Alabama recorded a three day total of 10.93 in. Mobile finished the week with almost 12.00 in. Four to six inch amounts were common elsewhere over the south. Heavy cloud cover held temperatures to 2° below normal for the week.

Too wet to plow sums up field activities. Soil moisture surplus entire State. Corn condition good to excellent, all tasseled, 56% dented; 1974 all tasseled, 41% dented. Cotton condition good, need less rain to combat insects, all squaring, 68% setting bolls; 1974 all squaring, 91% setting bolls. Soybeans 58% blooming, 53% 1974. Weeds becoming problem, condition good. Peanuts pegging all areas, condition down due to excessive rainfall but still good. Hay harvesting at standstill. Pasture condition improved.

ALASKA: Temperatures averaged near normal. Rainfall amounts were below normal except for 1.42 in. during the week at Big Delta. Heavy rains throughout the Railbelt caused some lodging of grain and held up completion of the first cutting of hay. Height of grain reported up to 42 in. in Matanuska Valley with a Railbelt average of about 36 in. All potato fields were in bloom except on the Kenai Peninsula, up to two weeks behind in growth. Ground moisture supply was adequate.

ARIZONA: Normal summer shower activity ended Wednesday as dry air moved over State. Rainfall amounts were well below normal for week. Temperatures averaged near or slightly below normal despite hot spell end of week.

Cotton good progress statewide. Harvest small grains virtually complete. Sorghum grain early plantings reached maturity, later plantings all stages. Safflower harvest increasing. Sugarbeet harvest nearing completion. Beets fall harvest good growth. Alfalfa hay harvest continued statewide, fourth cutting nearing completion. Spring cantaloup, watermelon harvest practically complete Yuma. Harvest mixed vegetables seasonal progress Salt River Valley. Limited harvest transplanted chili Cochise. Commercial picking grapes completed. Grapefruit, Valencia orange harvest complete. Insect counts low, new crop sizing well. Trees good growth. Ranges mostly fair. Cattle, calves good condition.

ARKANSAS: Temperatures ranged from 1 to 5° below normal. Extremes were 94 and 62°. Warm first of week, cool midweek, warming trend toward weekend. Rain showers covered State. Most totaling more than 1.00 in.

Local showers brought relief to crops. Fieldwork: 4.5 days suitable. All crops in good condition. Cotton needed rain, squaring rate fell, but fruiting continued at rapid pace. Insect populations increased. Most fields on regular spray schedule. Rice continued to make excellent progress. Draining continued with harvest two weeks away. Early soybeans blooming and setting pods. Later beans showing drought stress. Weed control measures effective. Early corn in dent stage. Sorghum maturing rapidly, later plantings boot to head stage. Hay needs additional moisture for regrowth. Harvest progressed rapidly. Local showers helped pasture regrowth.

CALIFORNIA: Average temperatures near normal except generally above normal along North Coast. After very hot weekend, colder air moved over northern half of State. Low temperatures dropped to around freezing northeast portion. Scattered thunderstorm activity over Sierra Nevada and isolated thunderstorms over southern deserts. Light showers near Oregon border.

Small grain harvest continues. Rice later than normal. Beans, corn, and cotton treated for insects. Beans and milo still being planted. Alfalfa hay continues to be harvested; seed harvest to begin soon. Safflower harvest started in Firebaugh area. Walnuts developing well, some burn, blight showing. Aphids heavy some orchards, applying controls. Almond hulls splitting, orchards being readied for harvest. Fig harvest continues. Thompson seedless grapes maturing rapidly. Some heat damage Tokay stems, berries. Applying controls for mildew, leaf hopper. Pear, peach harvests continue; quality little low. Apple thinning nearing completion; some harvesting. June avocado drop light. Valencia orange harvest continues slowly, quality declining. Summer grapefruit movement continues slow. Broccoli moderate Salinas. Cauliflower heavy, quality good. Cantaloup past peak Huron; Firebaugh-Mendota moving fast pace. Carrot digging curtailed, poor market. Celery cutting moderate. Honeydew continues Sacramento, Kern. Lettuce cutting light Salinas. Light potato digging continues Hemet. Strawberry picking continues Central Coast. Canning tomato harvest increasing westside. Watermelon active San Joaquin. High ranges good. Water problems foothill areas. Livestock good, on summer pasture. Sheep on stubble.

COLORADO: Temperatures 2 to 7° below normal mountains and Western Colorado, normal elsewhere. High's lower elevation 80's to 100's. Cool front August 1, high's 60's to 70's mountains 70's to 80's lower elevation. State high 102° at La Junta, July 29. Precipitation ranged from 0.10 in. San Luis Valley to 1.00 in. Kansas River Basin. Winter wheat 89% harvested, 98% 1974, 93% average. Winter barley 90% harvested, 96% 1974, 89% average. Corn height 64 in.; tasseled 64%, 87% 1974, 79% average, silked 32%, 63% 1974. Moderate hail damage northeast. All row crops good condition. Second cutting alfalfa 51% complete. Light insect problem with spider mites on corn northeast. Greenbugs on sorghum southeast. Summer potato digging active northeast. Lettuce harvest continuing San Luis Valley. Ranges and pastures dry southeast. Livestock good condition.

FLORIDA: Heavy rains Panhandle and the western portions Northern Peninsula. Elsewhere afternoon thundershowers prevailed. Temperatures averaged near normal; below normal Panhandle. Rainfall excessive in Panhandle, more than 12.00 in. Moderate over rest of Peninsula.

Soil moisture mostly excessive with flooding of low lands in western counties on July 29-30. Corn fair to good condition. Harvest halted because of rain. Peanuts and soybeans good condition, but open weather would be beneficial. Flue-cured tobacco harvest about completed in many areas. Sugar-cane in good condition. Hay harvest practically at a stand still. Cattle, calf condition mostly good to excellent. Tomato plantings underway in the west central and Ft. Pierce-Pompano areas. Soil moisture mostly adequate in all areas. Plan-

ting of fall crops expected to be active by mid-August. Citrus tree condition excellent, new crop fruit excellent condition, cover crops growing well

GEORGIA: Temperatures 1 to 4° below normal. Weekly average 74° northeast to 82° lower coast. Numerous showers especially southwest during week. Rain of 2.00 in. to 3.00 in. common except less than 1.00 in. east central and extreme northwest. In excess of 6.00 in. Early and McIntosh Counties. Heaviest rain July 29 and 30.

Soil moisture surplus. Field work hampered by daily showers. Fieldwork: 20 days suitable. Corn mostly good to excellent. Silage harvest underway. Peanuts mostly good, 99% blooming, 98% pegging, white mold serious problem. Cotton fair to mostly good, 92% setting bolls. Insecticide application between rains. Soybeans good. Tobacco 80% harvested, 1974 80%, average 84%. Peach harvest virtually complete. Watermelons 86% harvested. Pastures, cattle, hogs good.

HAWAII: Growing conditions favorable for crop progress. Some light scattered rains in higher elevation. Most crops required heavy irrigation. No relief for dry Hamakua Coast on Hawaii. Sugar-cane crop and pastures showing greater stress. Vegetable and melon supplies adequate. Banana supplies heavy. Papaya production downtrend. Pineapple peak harvesting about over. Sugar operation active.

IDAHO: High temperatures 90's east to upper 90's to 108° elsewhere. Low mid 30's to 40's east--mostly 40's elsewhere. Scattered showers mid to latter part week.

High winds--scattered hail damaged crops local areas Southwest and Northern Idaho. Crop development rapid rate. Winter wheat 15% ripe, 55% 1974. Potato crop 80% closing middles, 85% 1974. Spring wheat 2 percent ripe, 15% 1974. Pasture grasses good to excellent--best for period since 1967. Livestock excellent shape--some cattle pink eye northern Idaho.

ILLINOIS: Temperatures 2 to 5° above normal for northern two-thirds, southern third 3° below normal to 1° above normal. Precipitation less than 0.25 in. for northwest section, 3.00 in. south.

Corn reached dough stage on 60%, 10% 1974, average 24%. Condition 41% excellent, 57% good, 2% fair. Soybeans blooming 92%, 54% 1974, average 69%. Setting pods 70%, 17% 1974, average 35%; crop condition 34% excellent, 64% good, 2% fair. Oat harvest 92% complete, 88% 1974, average 76%. Alfalfa hay 2d cutting 88% done, 75% 1974, average 74%. Winter wheat plowing 20% complete. Pasture condition 14% excellent, 45% good, 9% fair. Soil moisture 61% short, 39% adequate. Fieldwork: 6.5 days suitable.

INDIANA: Weekend rain 0.50 to 1.00 in. extreme northwest and southeast, 0.50 to 1.50 from southwest to northeast with heavier amounts locally. Near normal week in temperature, evaporation, and sunshine.

Fieldwork averaged 7 days. Topsoil moisture short. Subsoil moisture mostly short to adequate. Oats 95% combined, 1974 80%, average 70%. Corn 85% silked, 1974 50%, average 70%. Corn 35% in dough, 5% dented. Soybeans 55% setting pods, 1974 15%, 1973 30%. Intended wheat land 15% plowed, 1974 10% plowed, average 20%. Alfalfa hay 85% cut 2d time, 1974 70%. Pastures poor to fair. Apples 10% picked.

IOWA: Temperatures were above normal and quite uniform through the week except for a brief cooling

August 2. Significant rainfall August 1-4 was restricted to the northwest, north central, and west central districts of the State where amounts over 0.50 in. were common.

Dry week broken very little by scattered showers over weekend. Northwest received good showers but were scattered. Crops rapidly approaching critical stage. Corn silked (75% or more) 92%, 74% 1974, 85% average. Corn in milk or more advanced stage, 36%. Late planted corn hurt more than earlier planted corn. Some stunted by hot, dry weather. Corn on light soil hurt. Growing conditions mostly fair, pollination fair to good. Soybeans standing heat and drought better than corn. Development very slow. Fields blooming (75% or more) 84%, 71% 1974, 77% average. Soybeans setting pods 60%, 29% 1974, 41% average. Growing condition of soybeans fair to good. Oat harvest nearing completion at 95%, 88% 1974, 78% average. Second cutting alfalfa 85% harvested, 77% 1974, 72% average. Second cutting red clover 53% harvested, 47% 1974, 38% average. Topsoil moisture nearly 100% short. Subsoil moisture 83% short, 17% adequate, no surplus. Fieldwork averaged 6.9 days suitable.

KANSAS: Rains of 1.00 to 2.00 in. and locally heavier western third. Scattered moisture of 0.50 to 2.00 in. extreme southeast. Remainder of State critically dry. Temperatures averaged near normal west and south to about 2° above normal northeast and north central.

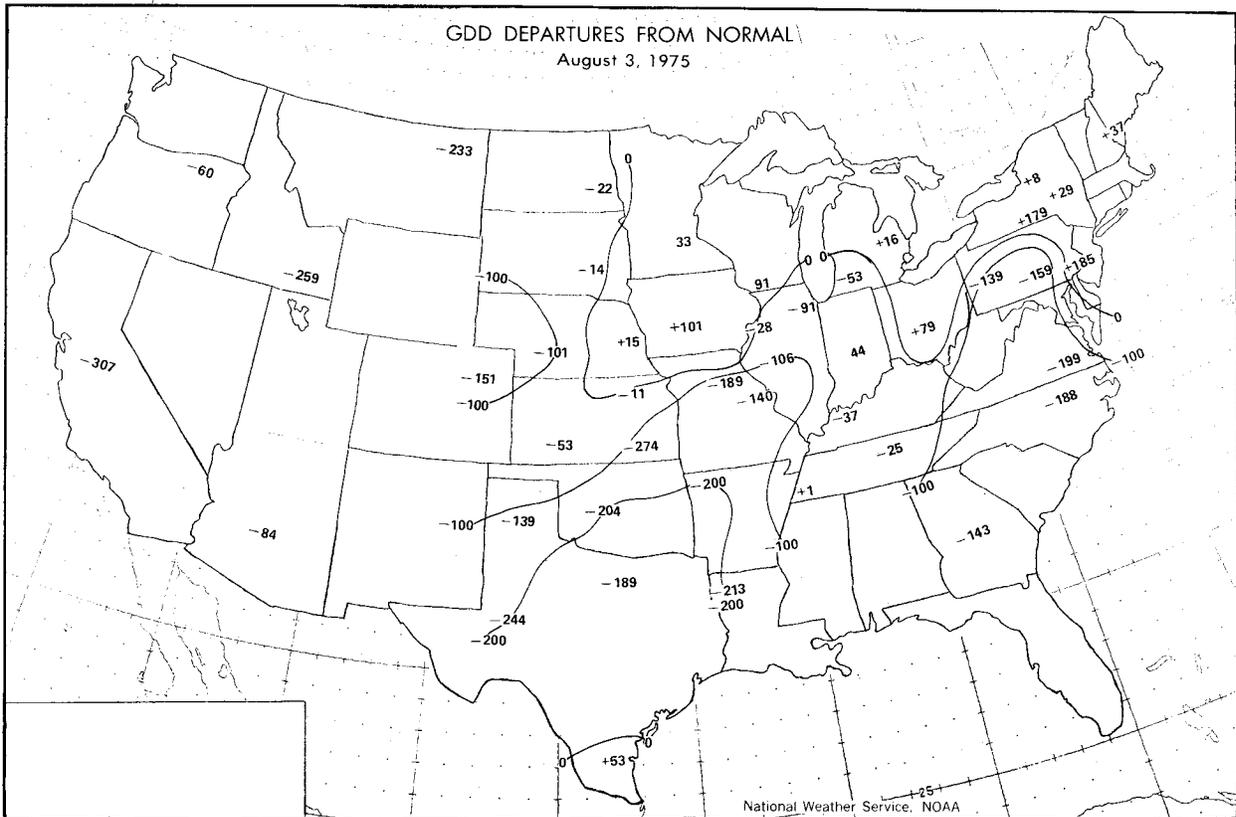
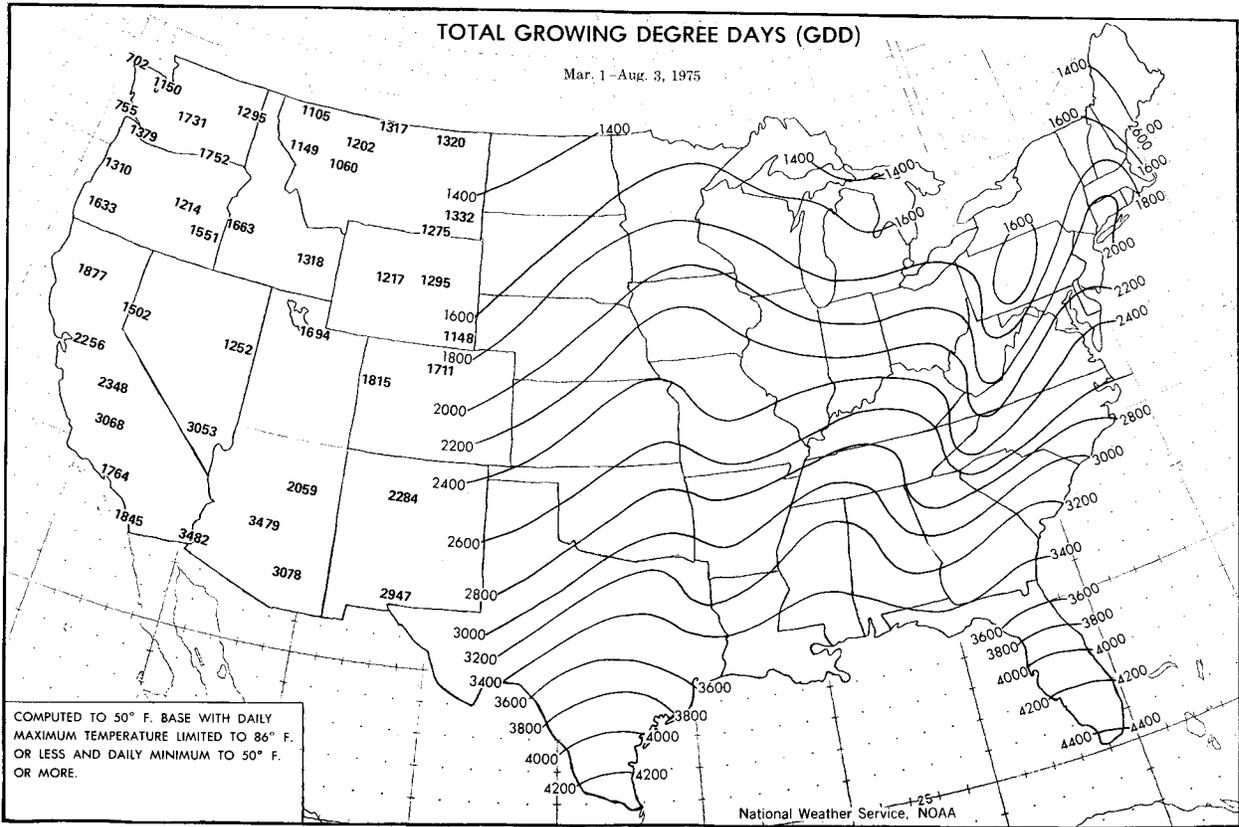
Crop prospects continued to decline eastern two-thirds. Topsoil moisture critically short eastern two-thirds. Non-irrigated corn firing, sorghum, soybean development retarded. Sorghum acreage 20% headed, 10% 1974, 25% average. Corn 35% dough stage, equal to 1974 and average. Soybeans 25% podding, 25% 1974, 40% average. Third crop alfalfa hay 25% harvested, 30% 1974, 35% average. Pastures and ranges deteriorated except in west.

KENTUCKY: Very little rainfall occurred first half of week, but Western half averaged 1.00 in. during latter half of week. Eastern areas rainfall averaged from 0.00 to 0.50 in. Temperatures averaged near normal during week.

Weekend rains temporarily relieved drought conditions. Soil moisture before rains rated at 82% short, 16% adequate, 2% surplus. Nearly all days favorable for fieldwork. Corn development similar to last year, 35% pre-milk, 42% milk, 23% in dough or later stage. Rain very beneficial to soybeans: 45% blooming or podding, 36% in 1974 and 36% average. Additional moisture favorable to tobacco; burley 24% blooming, 36% last year, 27% average--4% topped. Pastures poor condition, but should improve with the rains.

LOUISIANA: Temperatures 2 to 4° below normal. Scattered thundershowers west. Frequent showers and thunderstorms east. Rainfall totals 5.00 to 7.00 in. southeast and east central portions. Temperature extremes 94 and 67°. Greatest 24-hour rainfall, 4.32 in. New Orleans, August 2.

Soil moisture adequate to surplus. Fieldwork possible 2.5 days. Main activities cultivation, insect control, harvesting rice, and haying. Soybeans fair to good. Early planted fields blooming and setting pods. Fields grassy, cultivation active. Cotton mostly fair. Fruiting well, 75% setting bolls, insect control general. Rice good to excellent. Yields good. Some lodging in mature fields. Corn and sorghum fair to good. Crops maturing, light harvest begun. Sugarcane growth excellent. Excess moisture preventing suckering. Rains delaying fallow plowing. Sweetpotatoes



fair. Light harvest Acadia and St. Martin, Parishes. Watermelon harvest general. Haying active.

MARYLAND AND DELAWARE: Temperatures normal to 4° below normal. Precipitation ranged from 0.01 to 0.80 in. Weekend sunny and hot.

Corn 75% silked, 84% 1974; 35% in dough stage. Soybeans 36% bloomed, 18% podded. Tobacco 5% harvested. Third cutting alfalfa 45% complete. Vegetable harvest active. Apple and peach harvest continues.

MICHIGAN: Temperatures ranged 4 to 12° above normal with record temperatures. Rain-trace to 1.50 in. on weekend.

Soils dry but relieved by rain on weekend. Fieldwork heavy: 6.0 days. Corn 60% silked, 37% 1974; dough 15%. Soybeans 45% blooming; pods setting 25%, 20% 1974. Dry beans 50% blooming, 25% setting pods. Wheat harvest 95% complete, 84% 1974. Oat combining 25%, 15% 1974. Potato digging 20% in Bay Area; 10% elsewhere. Second cutting hay half made, 30% 1974. Tart cherries winding up in central, across State 80%. Summer apples harvest 15% harvested; peach and cantaloupe started south. Cabbage cutting 40%. Pickle harvest 40%, 10% 1974. Sweet corn picking 30%.

MINNESOTA: A hot week that ended showery. Temperatures 6 to 8° above normal. Extremes: 103 and 46° Precipitation beginning August 1 broke July dry spell but averages major agricultural areas only 0.50 to 0.08 in. Central area dry with only 0.10 in. average.

Rainfall benefited row crops in dry western counties and aided small grains in northern counties. Dry conditions remain in central. Corn 15% milk, 10% 1974, 14% average. Soybeans 55% setting pods, 40% 1974, 47% average. Rye and winter wheat about two-thirds combined, somewhat ahead of average. Other small grains ripening in north but harvest fully underway elsewhere. Oats 29% combined, 32% 1974, 28% average. Barley 21% combined, 23% 1974, 24% average. Spring wheat 9 percent combined, 14% 1974, 10% average. Test weight of small grains somewhat light in central counties.

MISSISSIPPI: Rainfall range 0.21 to 8.27 in. Greatest 24-hour rainfall was 5.50 in. at Canton, August 1. Temperature extremes 95 and 62°.

Soil moisture adequate to excessive, mostly surplus. Fieldwork: 2.0 days suitable. Cotton 99% squaring, 99% 1974, 100% average; 84% blooming, 61% setting bolls, 80% 1974. Soybeans 41% blooming, 36% 1974, 43% average; 19% podding, 15% 1974, 15% average. Corn 86% tasseling, 79% silked, 49% in dough stage, 34% dented. Sorghum 46% and rice 8% headed. Cucumbers 93%, peaches 87%, watermelons 62% and hay crops 49% harvested. All reported crops in fair to good condition.

MISSOURI: Temperatures ranged 1° below normal Bootheel, nearly normal to 4° above remainder of State. Precipitation less 0.05 in. northwest third of State to 0.50 in. south.

Soil moisture short all areas except part east, south, and southeast: statewide 89% short, 10% adequate, 1% surplus. Six days suitable for fieldwork. Corn condition 35% poor, 55% fair, 8% good, 2% excellent; 88% silked, 74% 1974, 81% average; 48% dough stage. Soybean condition 14% poor, 56% fair, 28% good, 2% excellent; 69% blooming, 39% 1974, 56% average; 37% setting pods. Sorghum 58% heading, 38% 1974, 49% average. Cotton condition mostly fair to good, 95% setting bolls, 79% 1974, 70% average. Alfalfa hay 2d cutting and Clo-Tim hay 94% harvested, 3d cutting alfalfa 16% complete, 24% 1974, 32% average.

MONTANA: Hot Monday. Sharp cooling Tuesday and Wednesday. Temperatures averaged normal east to 5° below normal central. Freezing temperatures occurred southwest midweek. Precipitation above normal throughout.

General showers through Thursday benefited spring grains. Mostly dry over weekend. Winter wheat harvest starting, 50% ripe, last year 60%—normal 65%. Spring wheat, oats 60% turning, none ripe. Barley 50% turning. All spring grains headed. Last year, 10% spring wheat, 20% barley, 15% oats were ripe. Normal 35% spring wheat, 25% barley and oats. First cutting alfalfa 90% done, 2d cutting 10%. Irrigation water ample. Grazing prospects good to excellent. Livestock good to excellent condition. Grasshopper damage light to moderate.

NEBRASKA: Temperatures above normal 1st half, below normal 1st and 2d. Showers and thunderstorms on 30th and 31st.

Topsoil moisture supplies 63% short, 35% adequate, 2% surplus. Subsoil moisture supplies 71% short, 28% adequate, 1% surplus. Last year topsoil 93% short, subsoil 99% short. Winter wheat harvest virtually complete. Irrigated corn condition 3% fair, 71% good, 26% excellent. Corn 85% silked, 95% 1974. Dryland corn condition 9% poor, 49% fair, 41% good, 1% excellent. Corn 80% silked, 65% 1974. Sorghum condition poor 3%, fair 40%, good 52%, excellent 5%. Over 55% headed, 40% 1974, normal 50%. Soybean condition 26% fair, 59% good, 15% excellent: over 45% podded, 35% 1974, normal 50%. Alfalfa hay condition fair to good. Nearly 85% second cutting harvested, 10% third cutting. Sugarbeets and dry beans progress good. Pasture and range feed supplies 49% short, 51% adequate.

NEVADA: Temperatures below normal beginning week, slightly above later. Extremes 112° Logandale, 29° Mountain City. Precipitation light from widely scattered thundershowers, Caliente received most, 0.15 in.

Ranges fair but getting drier. Alfalfa yields disappointing on first cuttings, second crop normal or above. Small grain harvest continues. Livestock holding up well with above usual losses to coyotes.

NEW ENGLAND: Record high temperatures included 104° Brunswick, Maine and Providence, R. I. and 100° Rumford, Maine. Precipitation light, spotty except eastern Maine received some rain from hurricane Blanche. Aroostock County, Maine potato crop continues rapid growth. Some concern about poor set. Weather favored rapid growth both field and sweet corn. Blueberry harvest full swing. Picking early apples and peaches continues. Haying active, second cut quality good. Pastures short.

NEW JERSEY: Hot dry week, 4° above normal. Extremes were: 52° at Newton on July 30 and 100° at Hammonton and Toms River on the 2d. Rainfall averaged less than 0.01 in. north and central, 0.04 in. south. Heaviest 24-hour total was 0.29 in. on July 29. Estimated soil moisture in percent of field capacity averaged 64% north, 45% central and 35% south.

Soil drying rapidly. Farmers irrigating in light soils. Hot weather maturing crops rapidly. Haymaking and grain combining progressed well. Fall vegetable acreage planting underway. Summer vegetable moving to market; white potato digging light but increasing. Sweetpotato vine growth heavy. Peach and apple harvest increasing. Blueberry harvest drawing to a close. Cranberries sizing well.

NEW MEXICO: Rainfall totals 0.50 to 0.75 in. northeast portion, south central mountains, and southern desert. Elsewhere showers were very light and widely scattered. Temperatures averaged near normal to a couple of degrees cooler than normal with only slight day-to-day changes.

Rainfall many areas--moisture short to adequate north, adequate south. Cotton fair but late, most areas squaring setting boll. Alfalfa harvest hampered by rain some areas, fair to good condition. Grain sorghum good: Some heading, some greenbug populations. Corn good: Well advanced tasseling. Wheat-barley harvest near completion. Apples: Poor to fair. Onions - peanuts good. Safflower harvest begun - good condition. Sunflower good - spraying for moths. Ranges fair to good. Livestock mostly good.

NEW YORK: Major heat wave second half, many stations recording new highs. Warming occurred 30th and hot thereafter. Precipitation spotty and below normal. Heaviest northeast with little or no rain elsewhere.

Hot dry week ideal for harvest. Moisture deficiency continues. 2d cutting alfalfa 55% complete. Potato leaf hopper damage widespread in alfalfa fields, reducing yields and damaging new seedlings. Wheat harvest 70%, yields down, some sprouting. Oat harvest about 20% complete. Corn prospects good but some moisture deficiencies exist. Sweet corn harvest full swing. Orange County onions, celery and lettuce harvest continues. Hot weather promoting early maturity of onions. Snap bean harvest for processing moving along. Blossom end rot problem some tomato fields. Tart cherry harvest about complete. Early variety apples and peaches available locally. Apples sizing adequately. Pears in good condition, grapes developing normally.

NORTH CAROLINA: Precipitation was light and temperatures were near normal.

Soil moisture diminished last week, July -- mostly adequate. Days suitable fieldwork 4.5. Flue-cured and burley tobacco -- fair to mostly good. Flue-cured harvest 30% complete; 1974 33%, average 24%. Few sweetpotatoes dug. Haying operations nearly 75% complete, 1974 65%. Apples 9% picked. Peach harvest past peak. Pasture, Irish potatoes, hay, soybeans, peanuts, cotton, and corn fair to mostly good. Apples and sweetpotatoes mostly good.

NORTH DAKOTA: Temperatures averaged 8° above normal with 6° above southwest to 10° above north central. Extremes: 110° Fort Yates on 29th to 48° Beulah on 2d. Precipitation ranged 0.52 in. below normal northeast to 1.21 in. above east central. Largest precipitation Riverdale with 2.13 in. Largest 24-hour rainfall Bismarck 1.89 in. on 31st.

Weekend was cooler and dry. Harvesting of small grains starting hard red spring and durum, and 5% winter wheat. Oats and barley 3% and 12% combined respectively. Rye is 15% combined. Row crops need rain to mature properly. Livestock in generally good condition with pastures needing rain to insure fall grazing.

OHIO: Warm week with temperatures reaching 90° or above. Range; low 56°, high 96°. Scattered thunderstorms 28th and 1st with most rainfall northwest 1.62 in., least southeast 0.02 in.

Harvest completed: Oats 95%, 75% 1974, and 70% normal; potatoes 15%, 10% 1974 and normal; Clover-timothy hay second cutting 65%, 60% 1974, and 45% normal. Alfalfa hay second cutting 90%, 80% 1974, and 70% normal. Corn 25% dough stage, 10 % 1974,

and normal. Soybeans 25% pods set, 10% 1974, and normal. Fall plowing for wheat 10%, 5% 1974, and 10% normal. Moisture supplies 89% short and 11% adequate. Moisture supplies improved following rains 2d and 3d. Fieldwork: 7 days favorable.

OKLAHOMA: Temperatures below normal again. Precipitation ranged from 0.61 in. southeast to 1.81 in. central. Weekend warm and scattered rains occurred in some areas.

Seedbed preparation for fall small grains continued. Some fertilizer applied. Fall row crop condition good, except cotton only fair to good. Corn late with one-third in dough, all acreage tasseling or past. Sorghums 25% dough, 31% 1974. Cotton week later than year ago with 86% squaring and 17% setting bolls. Insects building up. Peanut development about average with 80% blooming and soybeans a week late with just over one-half blooming. Third cutting alfalfa near 50% mark. Moisture supplies improved, one-third counties short top moisture, mostly northern tier. Ranges and livestock holding good condition.

OREGON: Temperatures averaged close to normal. Maximum first part of week in 90's and low 100's. Minimum latter part of week between 43 to 51° west of Cascades, in 30's east. Precipitation west 0.75 in. or less, close to 0.50 in. some areas in east.

Severe thunderstorm, strong winds, hail, struck Ontario area July 29th causing considerable damage to crops and some buildings. Wheat 40% harvested. Grain harvest in full swing Columbia Basin Counties. Western counties cutting barley and wheat. Oats, vetch, harvest continuing. Grass seed harvest near complete. Second cutting hay continues. Mint, hops fair to good. Some early mint harvest. Tart cherry harvest underway. Peach harvest in Willamette Valley. Prune crop looks good. Filbert and walnuts sizing well. Cauliflower, broccoli, cucumbers, green beans, green peas all being harvested. Sweet corn silking. Norgold potato harvest underway at Hermiston, other potatoes look good. Ranges and pastures drying but adequate. Cattle, calves very good. Feed and water supplies adequate. Fire danger moderate.

PENNSYLVANIA: High pressure produced clear sunny skies with light breezes that culminated in a heat wave last 5 days producing hottest week in 2 years. After seasonable mildness Monday and Tuesday, temperatures climbed daily peaking Saturday near 100° southern areas and upper 80's and 90's central and north. Extremes: 48 and 99°. No rain until Sunday afternoon and night when thundershower activity provided up to 1.00 in. rainfall parts of west. Most central and eastern areas received little or no rain.

Hot, dry week helped to make good quality hay; rapid progress in combining oats. Soils continued to dry. Soil moisture short 50%, adequate 50%. Oats harvested 32%, ripe 45%, turning yellow 20%, headed 3%. Wheat harvested 68%, ripe 26%, yellow 5%, headed 1%. Barley harvested 79%, ripe 10%, turning yellow 5%, headed 6%. Corn average height 70 inches. Quality of hay made good 63%, fair 30%, poor 7%. Amount of feed being obtained from pasture below average 50%, average 48%, above average 2%.

PUERTO RICO: Island average rainfall 1.14 in. Highest weekly total 4.69 in. at Arecibo Ionospheric obs. Temperatures averaged about 80° on coasts and 75° interior divisions.

Agricultural drought continued in southern and northern divisions although conditions were eased by light showers in some areas. Some recuperation

of sugarcane, coffee, pasture, and food crops noted in various sectors, but more rains are needed, mainly in south coastal areas, for normal development. Most activities concentrated in cultivation fertilizing and new plantings.

SOUTH CAROLINA: Temperatures averaged near normal. Rainfall below average occurring as scattered thundershowers during midweek.

Spraying, harvesting activity increased. Tobacco condition fair to good, 67% harvested, 76% 1974, 68% average. Cotton fair to good condition, most in early boll development stage. Soybeans good condition. Corn good condition, 74% dough, 46% mature stage. Peach harvest of late varieties underway, 84% harvested, 87% 1974, 80% average.

SOUTH DAKOTA: Temperatures averaged 1 to 8° above normal. A general rain started July 31 which provided varying amounts of moisture 0.00 in. northwest, 0.77 in. central to 4.73 east.

The rain was very welcome but it came too late to help the small grains and part of the corn crop. Spring wheat 89% ripe, 1974 100%, normal 83%. Oats 98% ripe, 1974 99%, normal 94%. Barley 100% ripe, same as 1974 and normal. Winter wheat 96% combined, 1974 100%, normal 88%. Rye 86% combined, 1974 96%, normal 85%. Spring wheat 43% combined, 1974 82%, normal 49%. Oats 69% combined, 1974 82%, normal 68%. Barley 73% combined, 1974 91%, normal 72%. Flax 34% ripe, 1974 51%, normal 31%. Flax 8% combined, 1974 21%, normal 5%. Corn 57% silked, 81% tasseled, 1974 71%, normal 69%. Soybeans 89% in or past bloom stage, 1974 89%, normal 86%. Soybeans 29% podded, 1974 51%, normal 30%. Sorghum 25% headed, 1974 29%, normal 33%. Second cutting of alfalfa 75% harvested, prairie hay 68%. Livestock generally in good condition. Pastures generally holding out except in the southeast but these should improve after the rain.

TENNESSEE: Temperatures averaged about normal. Precipitation averaged above normal in the west and at or below in the east. General rains fell over weekend.

Soybeans in good condition; blooming 60%, 1974 49%, average 57%. Setting pods 23%, 1974 12%, average 18%. Corn yields hurt by dry weather. Dough stage 48%, 1974 32%, average 47%. Dented 17%, 1974 18%, average 16%. Cotton boll weevil infestation heavy. Cotton development good; setting bolls 75%, 1974 52%, average 64%. Tobacco short and uneven, hurt by late plantings and dry weather. Topping being delayed; topped 16%, 1974 27%, average 28%.

TEXAS: Low pressure, warm moist air produced showers, thunderstorms. Rainfall totals above normal most Texas, but south little precipitation. Rainfall 2.00 to 3.00 in. above normal southeast. Temperatures within 2 to 3° normal.

Corn, sorghum harvest moving along excellent pace from Blacklands southward, while harvest cotton, peanuts still very early stages. Rice harvest along Upper Gulf Coast lagging behind 1974 schedule but rapidly gaining momentum. High Plains cotton good growth, beginning fruit, some early blooming. Low Plains through Blacklands making good growth, fruiting but insect problems increasing, control measures necessary most localities. Most fields Coastal Bend, Lower Rio Grande Valley defoliated, harvest underway where fields dry. Corn harvest making satisfactory progress South central, Coastal Bend, Lower Rio Grande Valley, High Plains satisfactory progress but insect problems increasing. Sorghum harvest excellent progress South, South central, Upper Gulf Coast; just getting started Blacklands, East. Yields disap-

pointing Southcentral, parts Blacklands. High, low plains sorghum coming along very well but greenbugs increasing, spray operations carried out most localities. Major crops percent harvested: Cotton 1975 1, 1974 3, average 2; corn 1975 5, 1974 15, average 8; sorghum 1975 37, 1974 40, average 27; rice 1975 21, 1974 47, average 34; peanuts 1975 2, 1974 1, average 4. High Plains: Onions season rapidly coming to an end. Potato harvest full swing. Cucumber, carrot, sweet corn harvest remains active. Green peppers, cantaloups, tomatoes progressing well. Trans-Pecos: Onion harvest nearing completion. Cantaloup harvest full swing Pecos, Fort Stockton areas. North: Cantaloups, tomatoes, squash, okra, cucumbers, sweet corn, watermelons being harvested. Knox-Haskell: Excessive rains damaging cantaloups, watermelons. East: Tomato supplies continue seasonal decline. Watermelon harvest active. Central: Tomato harvest final stages. Watermelon harvest continues. Upper Coast: Watermelon harvest continues. Peaches: Harvest virtually complete central, Hill Country. Picking tapering off east, north. Grazing well above average time year, maintaining livestock excellent condition into late summer. Insect problems increasing flies, mosquitoes, caused weight losses. Screwworm cases also increased source constant concern most ranchers. Hay baling excellent progress though rains created problems caused some losses.

UTAH: Stormy midweek brought measurable moisture to much of State. Locally heavy amounts with some hail damage. Temperatures ranged normal to 5° below.

Second cutting alfalfa hay progressing north central. Southern counties getting started. Winter wheat 10% harvested. Spring grains headed, turning color, 3 to 10% ripe. Good yield prospects. Snap bean harvest completed. Sweet corn, onions good condition, tomatoes fair. Livestock good condition. Range feed, water supplies good.

VIRGINIA: Scattered showers throughout except 1st and 2d. Temperatures near normal. Extremes: 98 and 52°.

Fieldwork: 5.5 days suitable. Topsoil moisture becoming short. Dry west, southwest. Need rain throughout. Corn good to excellent. Early crop about made. Soybeans favorable. Cultivating late fields. Spraying for weeds, insects increasing. Tobacco declined slightly. Premature yellowing flue-cured. Increased harvesting. Curing space tight. Sun, fire types normal. Burley satisfactory. Needs rain. Peanuts food. Soils favor pegging. Applying disease control chemicals. Small grain harvest nearing end. Harvesting peaches and summer apples. Harvest processing tomatoes, other vegetables. Potato digging continues. Summer cabbage harvest southwest. Excellent week for haying. Plowing for fall planted crops.

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

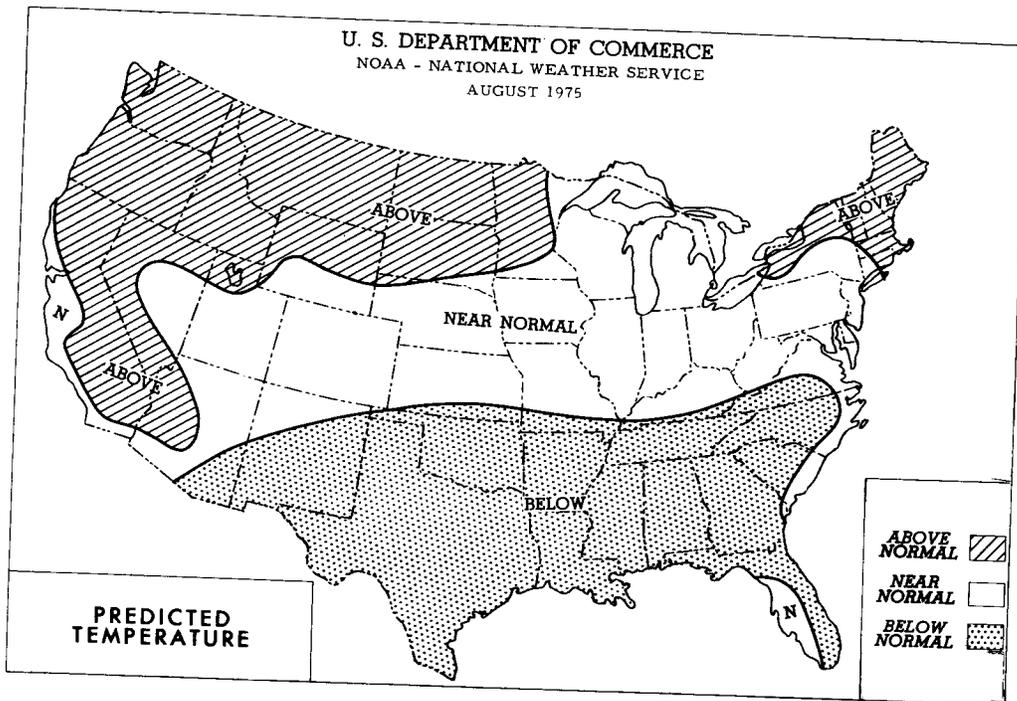
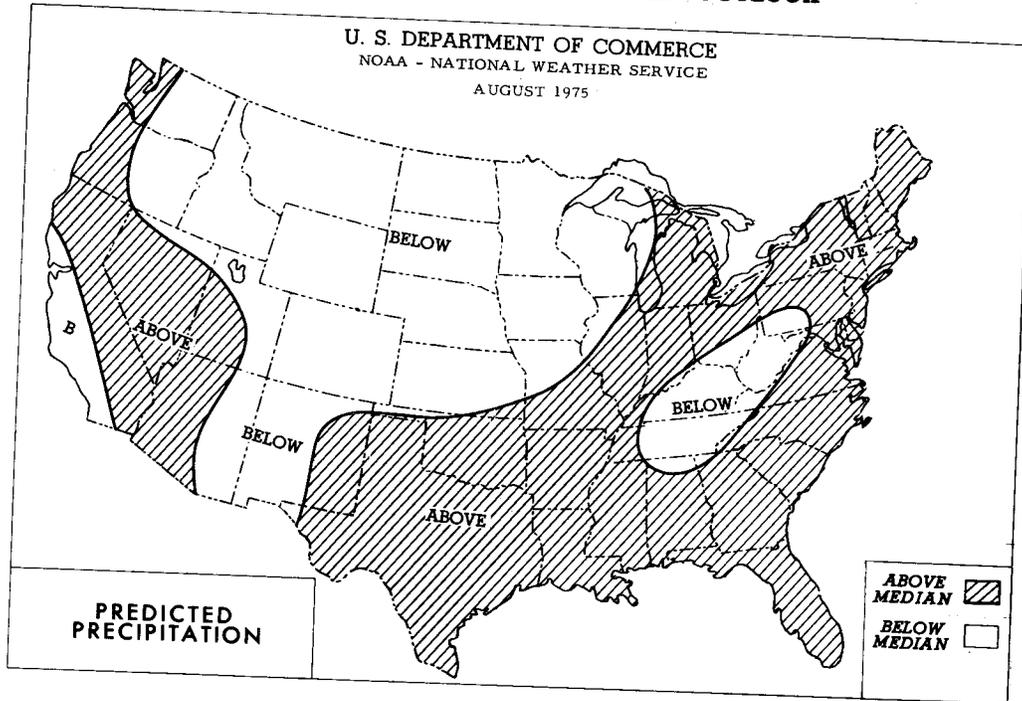
Raspberry harvest at peak. Blueberry picking underway. Green pea, cucumber, vegetable seed harvest continued. Roadside vegetable picking began. Haying active.

East: Temperatures normal to 3° below normal. Precipitation normal to 0.40 in. above normal.

Apricots, peach picking continued. Spraying for mites and codling moths in apple, pear orchards. Harvest sweet corn for processing underway. Second cutting alfalfa hay progressing. Potato harvest continued. Grain harvest continued, interrupted by rain showers. Dry pea harvest continued. Green

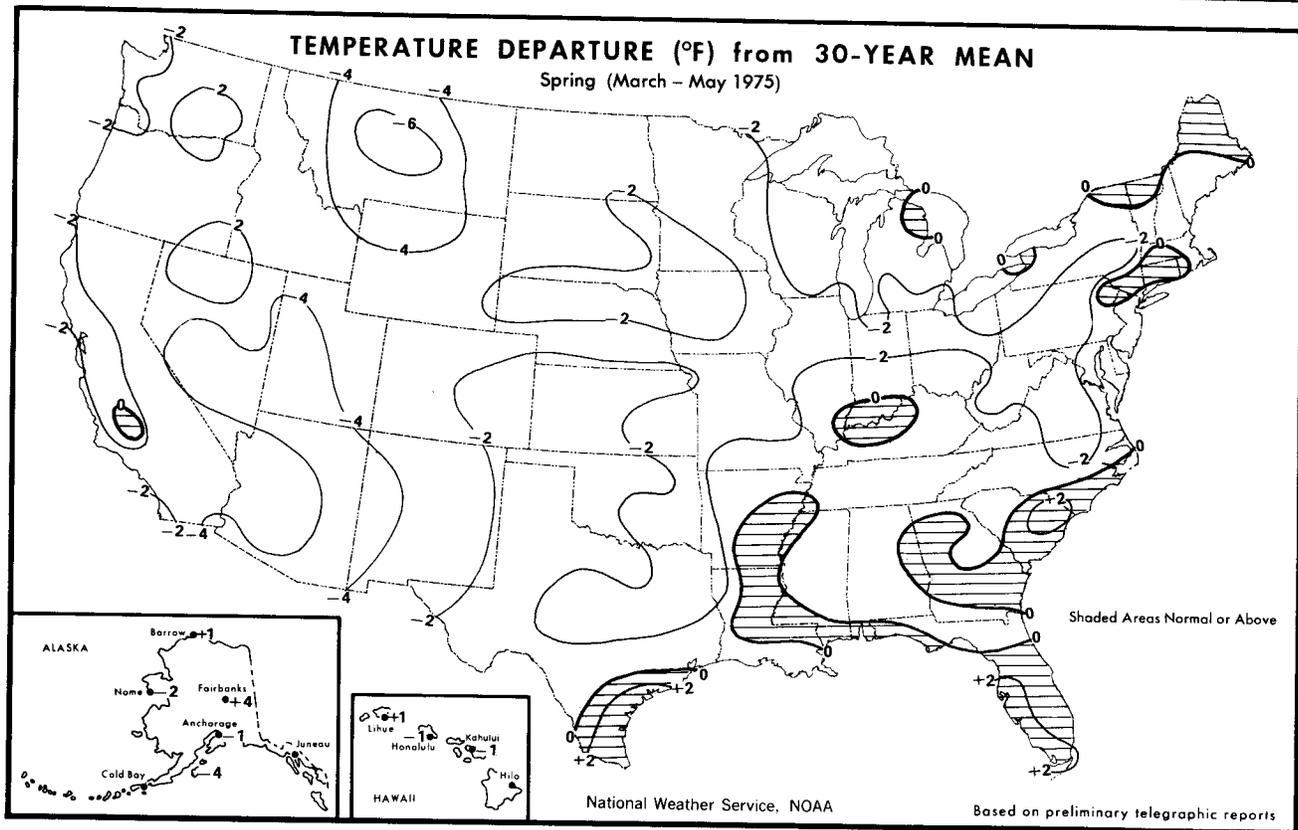
(Continued on page 14)

AVERAGE MONTHLY WEATHER OUTLOOK



AGRICULTURAL IMPLICATIONS: Above normal precipitation in the Southeast, along with below normal temperatures, would slow crop development and cause problems for late planted cotton later this fall. In general above normal moisture would be beneficial, particularly in Arkansas and Missouri. In the Corn Belt, above normal moisture in eastern

areas would aid potentially record corn and soybean crops. Row crops in the western Corn Belt will deteriorate further if the below normal rainfall of July continues. The below normal precipitation forecast for the northern and central Great Plains would benefit the active small grain harvest, but hurt row crops and pastures.



SPRING WEATHER SUMMARY

HIGHLIGHTS: Except for scattered areas in the East, spring 1975 was cooler than usual. Departures ranged up to -6° in central Montana. Precipitation was near normal in most areas. In most of the Great Plains and northern Rockies, rainfall was well above normal. In contrast, amounts were well below normal in parts of the Corn Belt, the desert Southwest, and Washington State.

PRECIPITATION: March was unusually wet in most areas, except in the southern and central Great Plains. Precipitation amounts ranged from 0.01 in. at Brownsville, Tex., which was only 1% of normal, to more than 12.00 in. over most of Tennessee and parts of Kentucky, Alabama, and Mississippi. Heaviest rains fell during midmonth.

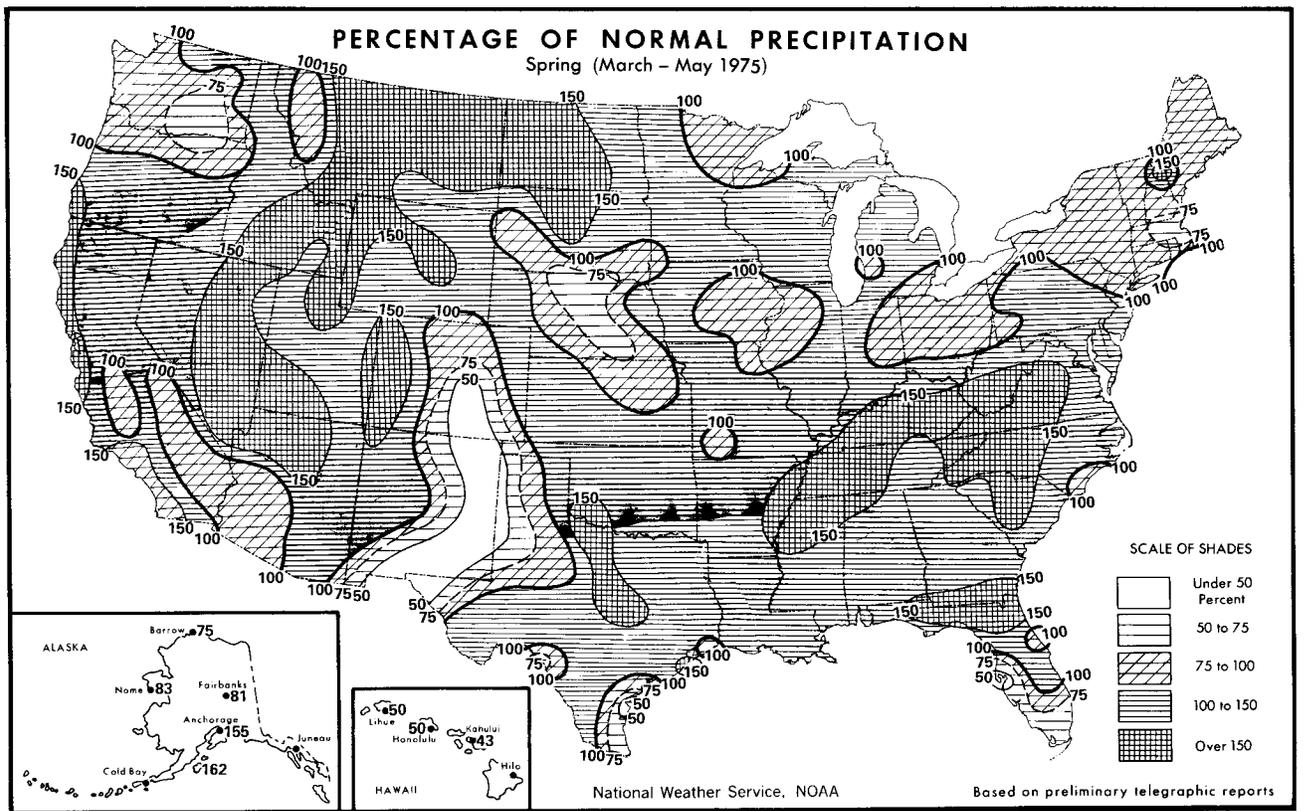
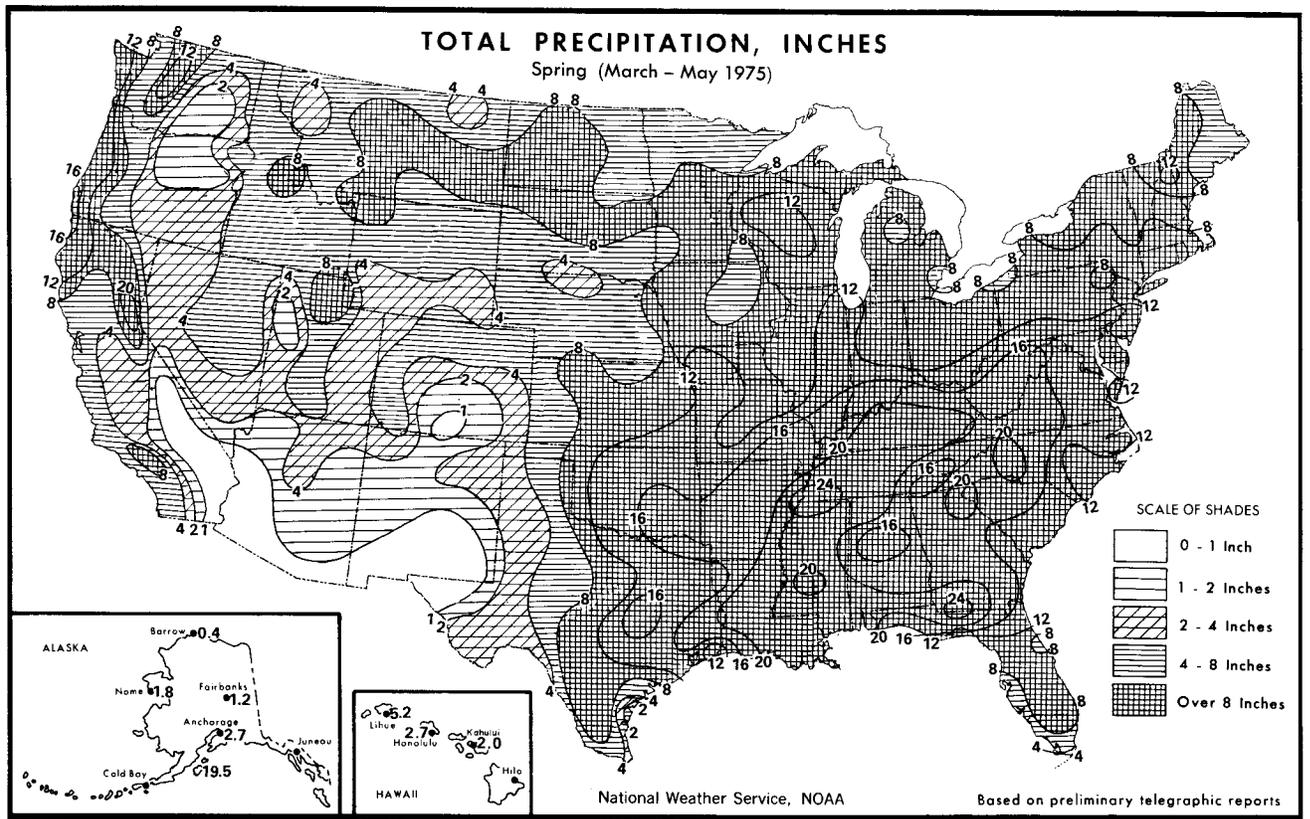
April precipitation was near normal across most of the Country. The first week of the month brought high winds and wintery conditions to many areas. Heavy snow immobilized parts of Illinois and Michigan on the 2d and 3d. Gale force winds wracked the North Central and Eastern States on the 3d through the 6th, causing extensive damage and heavy snow in New England. During the month unusually heavy rains fell in Montana and the northern Great Plains. The Gulf Coast, including southern portions of Mississippi, Louisiana, Alabama, Georgia, and northern Florida, was also very wet, mostly during the 2d and 3d weeks of the month.

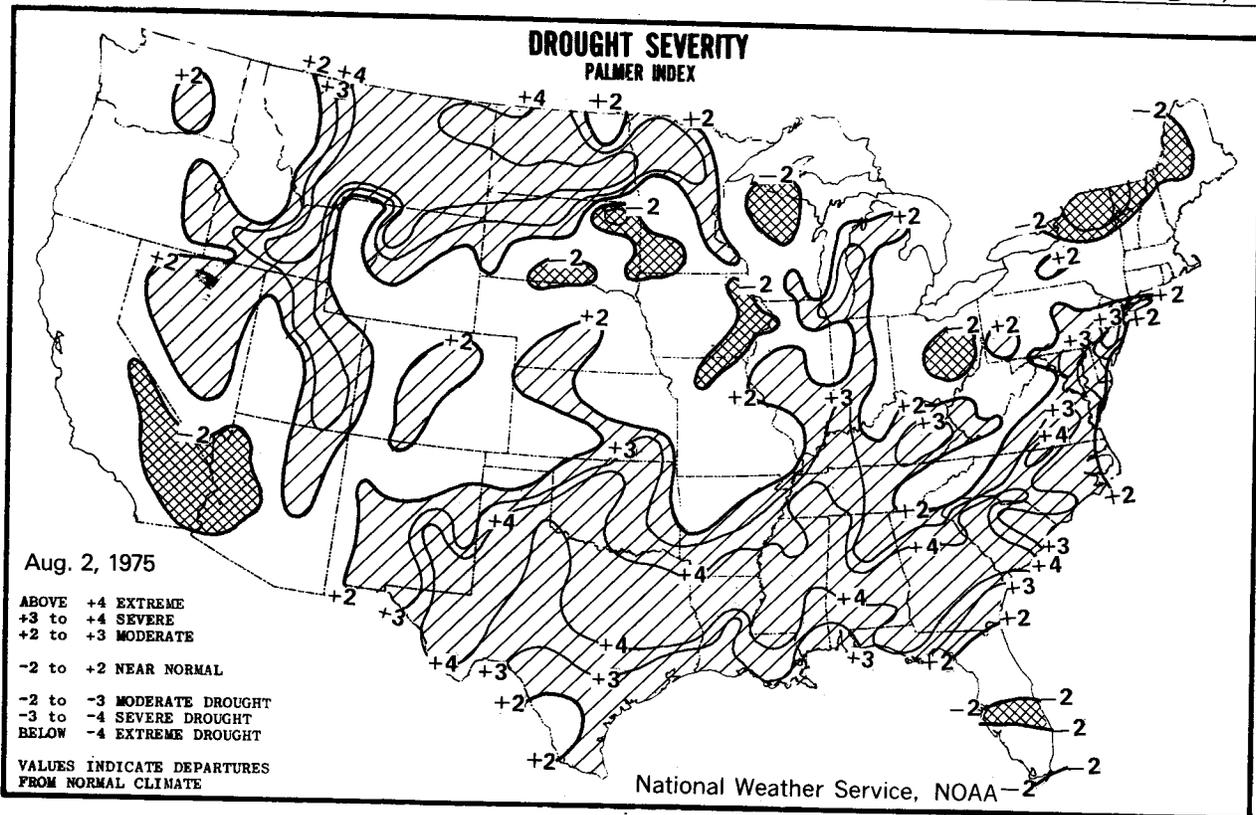
May was generally drier than usual across the North Central States, but continued wet in the Deep South, the Rocky Mountain States, and along the Appalachians. The most severe weather was associated with three twisters that struck Omaha, Nebr. simultaneously on the 6th, resulting in the worst tornado disaster there since Easter Sunday, 1913. Considerable violent weather occurred throughout the month, particularly in the Southeast. In the Corn Belt, it was the best May in 3 years for planting.

TEMPERATURE: March temperatures were well below normal across the Country except for the Gulf Coast and parts of the Rocky Mountains. Spring's first really warm weather came during the third week of March but was short-lived, as temperatures again dropped at the end of the month.

Temperatures during April averaged well below normal again as winter refused to release its grip. Montana averaged 10 to 12° below normal while the northern Great Plains averaged 6 to 8° below normal. The last week of April grew considerably warmer. Temperatures throughout much of the Great Plains ran at least 6° above normal, making conditions more favorable for planting.

May was above normal over the eastern half of the Nation, but remained colder than usual to the West.





(Continued from page 10)

pea harvest nearing completion. Grass seed harvest continued, with highly variable yields reported.

WEST VIRGINIA: Hot, dry weather prevailed. Highest temperature 100° Franklin, lowest 40° Canaan Valley. Very little precipitation with 23 of 29 stations reporting none.

Favorable work days 5.7. Soil moisture 82% short, 18% adequate. Main activities: Haying, combining small grain, and clipping pasture. Second cutting of hay 31% complete. Barley 97% harvested, wheat 85%, and oats 52%. Corn, oats and hay in good condition. Potatoes and tobacco mostly fair condition.

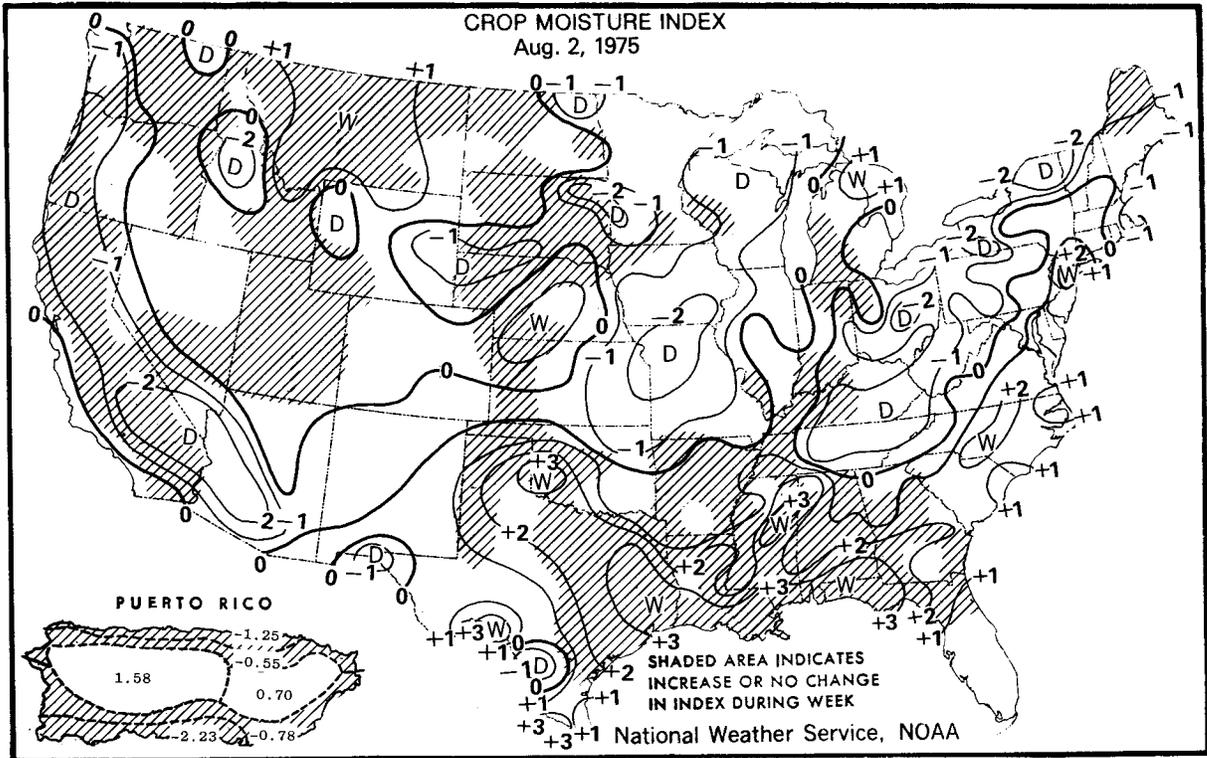
WISCONSIN: Sunny, hot week. Temperatures averaged 5° above normal. High's were in the 90's until weekend. Scattered thunderstorms occurred late on August 1, with heavier totals in south. Showers continued August 2, mainly in east, and thunderstorms on August 3 in extreme west and west central.

Crops under severe moisture stress on light soils. Early corn still good on heavier soils. Corn firing on sand, probably beyond recovery. Moisture needed for remainder of corn crop. Corn 70% in silk, 1974 33%, normal 50%. Soybeans also hurting for moisture on light soils. Oats 10% combined, 1974

10%, normal 20%. Harvest continues for winter wheat, rye, barley. Wheat yields reported down from 1974 but other small grains yielding good. Second crop hay 45% harvested, 1974 55%, normal 35%. Pastures deteriorated sharply during July and supplemental feeding necessary. Early tobacco looks good and will be topped soon. Potatoes and vegetables receiving extensive irrigation, unirrigated potatoes and vegetables suffering from lack of moisture, pea pack near end, sweet corn harvest started. Cherry harvest continues Door County. Soil moisture 95% short, 5% adequate.

WYOMING: Temperatures above seasonal normals. Exceptions are the Green and Bear and Upper Platte drainages where both averaged below seasonal normals. Very dry with most reporting stations below seasonal averages.

Winter wheat harvest at peak with 82% mature, 48% harvested. Progress now 1 to 2 weeks behind 1974. Other crops showed rapid development as high temperatures prevailed. Percent mature: Spring wheat 13%, barley 14%, oats 6%. First cutting alfalfa 90% completed; second cutting 27% completed. Row crops in good condition. Corn 31% tasseled. Percent in bloom stage: Dry beans 58%, potatoes 59%. Soil moisture supplies short to adequate. Winter feed supply outlook appears adequate.



The map above gives a general picture of how wet or dry the nation was last week. The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas. Previous weekly computations of soil moisture account for the effect of prior weather.

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

UNSHADED AREAS: INDEX DECREASED

ABOVE	3.0	SOME DRYING BUT STILL EXCESSIVELY WET
2.0 to	3.0	MORE DRY WEATHER NEEDED, WORK DELAYED
1.0 to	2.0	FAVORABLE, EXCEPT STILL TOO WET IN SPOTS
0 to	1.0	FAVORABLE FOR 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 RUINED

areas dried last week. The centers of wet or dry areas are marked: W for wet; D for dry. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. Any interpretation must consider the type of agriculture and the stage of crop development.

SHADED AREA: INDEX INCREASED OR DID NOT CHANGE

ABOVE	3.0	EXCESSIVELY WET SOME FIELDS FLOODED
2.0 to	3.0	TOO WET, SOME STANDING WATER
1.0 to	2.0	PROSPECTS ABOVE NORMAL, SOME FIELDS TOO WET
0 to	1.0	MOISTURE ADEQUATE FOR PRESENT 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
-3.0 to	-4.0	DROUGHT CONTINUES RAIN URGENTLY NEEDED
BELOW	-4.0	NOT ENOUGH RAIN STILL EXTREMELY DRY

1975 HARVESTING PROGRESS

Percent of Acreage Harvested
(As of August 3)

WINTER WHEAT			
	Average	1974	1975
Colo.	93	98	89
Ill.	100	100	100
Ind.	1/	1/	100
Kans.	100	100	100
Mo.	100	100	100
Nebr.	95	100	96
Ohio	90	100	95
Okla.	100	100	100
Oreg.	1/	1/	40
S. Dak.	95	100	96
Tex.	100	100	100
U. S.	86	86	85

1/Not available



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Heating Degree Days (Base 65° F.)

July 1975

ALA. Birmingham	0	MAINE, Caribou	19	OKLA. Okla. City	0
Mobile	0	Portland	13	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	133
ALASKA, Anchorage	192	MASS. Boston	0	Burns U.	40
Barrow	848	Chatham	5	Medford	18
Fairbanks	---	MICH. Alpena	43	Pendleton	0
Juneau	281	Detroit	4	Portland	24
Nome	411	Flint	8	Salem	35
ARIZ. Flagstaff	23	Grand Rapids	16	PA. Allentown	0
Phoenix	0	Houghton Lake	44	Erie	3
Tucson	0	Lansing	11	Harrisburg	0
Winslow	0	Marquette U.	49	Philadelphia	0
Yuma	0	S. Ste. Marie	64	Pittsburgh	0
ARK. Fort Smith	0	MINN. Duluth	46	Scranton	0
Little Rock	0	Internatl Falls	41	R. I. Providence	0
CALIF. Bakersfield	0	Minneapolis	15	S. C. Charleston	0
Eureka U.	244	Rochester	19	Columbia	0
Fresno	0	St. Cloud	17	Greenville	0
Los Angeles U.	0	MISS. Jackson	0	S. DAK. Aberdeen	2
Red Bluff	0	Meridian	0	Huron	4
Stockton	0	Vicksburg U.	---	Rapid City	3
San Diego	0	MO. Columbia	2	Sioux Falls	3
San Francisco	109	Kansas City	0	TENN. Chattanooga	0
COLO. Denver	0	St. Louis	2	Knoxville	0
Grand Junction	0	Springfield	0	Memphis	0
Pueblo	0	MONT. Billings	1	Nashville	0
CONN. Bridgeport	0	Glasgow	5	TEX. Abilene	0
Hartford	0	Great Falls	12	Amarillo	0
D. C. Washington	0	Havre	7	Austin	0
FLA. Apalachicola	0	Helena	14	Beaumont	0
Ft. Myers	0	Kalispell	15	Brownsville	0
Jacksonville	0	Miles City	0	Corpus Christi	0
Key West	0	Missoula	9	Dallas	---
Lakeland U.	0	NEBR. Grand Island	0	El Paso	0
Miami	0	Lincoln	0	Fort Worth	0
Orlando	0	Norfolk	2	Galveston U.	0
Daytona Beach	0	North Platte	6	Houston	0
Tallahassee	0	Omaha	0	Lubbock	0
Tampa	0	Valentine	5	Midland	0
GA. Atlanta	0	NEW. Ely	19	San Angelo	0
Augusta	0	Las Vegas	0	San Antonio	0
Macon	0	Reno	26	Victoria	0
Savannah	0	Winnemucca	13	Waco	0
IDAHO, Boise	6	N. H. Concord	10	Wichita Falls	0
Lewiston	2	N. J. Atlantic City	0	UTAH, Blanding R	---
Pocatello	11	Trenton U.	0	Salt Lake City	0
ILL. Cairo U.	0	N. MEX. Albuquerque	0	VT. Burlington	0
Chicago	2	Roswell	0	VA. Lynchburg	0
Moline	9	N. Y. Albany	0	Norfolk	0
Peoria	13	Binghamton	0	Richmond	0
Rockford	12	Buffalo	3	Roanoke	0
Springfield	10	New York	0	WASH. Colville	9
IND. Evansville	0	Rochester	4	Omak	23
Fort Wayne	8	Syracuse	3	Quillayute	178
Indianapolis	8	N. C. Asheville	0	Seattle-Tacoma	23
South Bend	13	Charlotte	0	Spokane	22
IOWA, Burlington	---	Greensboro	0	Walla Walla U.	3
Des Moines	8	Hatteras R.	0	Yakima	0
Dubuque	24	Raleigh	0	W. VA. Beckley	0
Sioux City	1	Wilmington	0	Charleston	0
KANS. Concordia	0	N. DAK. Bismarck	9	Huntington	0
Dodge City	0	Fargo	1	Parkersburg U.	0
Goodland	0	Walliston U.	1	WIS. Green Bay	29
Topeka	2	OHIO. Akron-Canton	2	Madison	18
Wichita	0	Cincinnati U.	5	Milwaukee	17
KY. Lexington	0	Cleveland	5	WYO. Casper	1
Louisville	0	Columbus	0	Cheyenne	11
LA. Baton Rouge	0	Dayton	2	Lander	7
Lake Charles	0	Toledo	7	Sheridan	1
New Orleans	0	Youngstown	8		
Shreveport	0				

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