

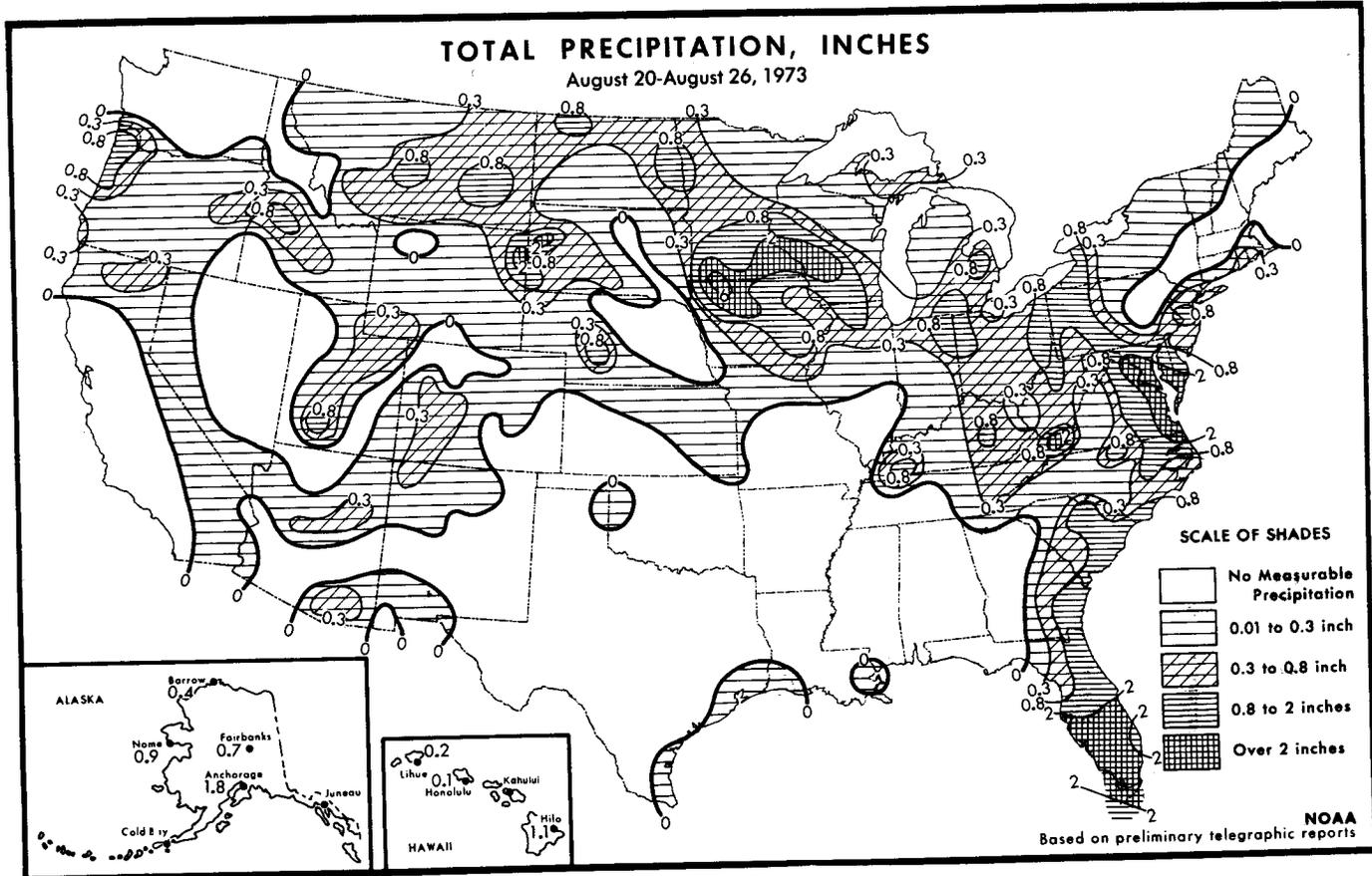
Weekly Weather & Crop Bulletin

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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: While most of the Great Plains endured a heat wave that set record highs from Texas to South Dakota, the Pacific Northwest plus large areas east of the Mississippi averaged 3° or more subnormal. Spotty rain fell. The Northwest drought area received some. Only south Florida, the Chesapeake Bay area, and sections of Iowa, Minnesota and Wisconsin got 2.00 in. or more.

PRECIPITATION: Only a few thunderstorms interrupted Monday's fair weather. Spotty storms wet the Rockies, southwest desert areas, Montana, and southern California; however, the Nation's Capital was deluged.

Monday night and Tuesday brought 3.78 in. rain to Washington, D. C., flooding sewers, covering roads with water, and stalling morning traffic. By late Tuesday, Washington's suburbs recorded heavy rains: Silver Spring, Md., 6.00 in. and

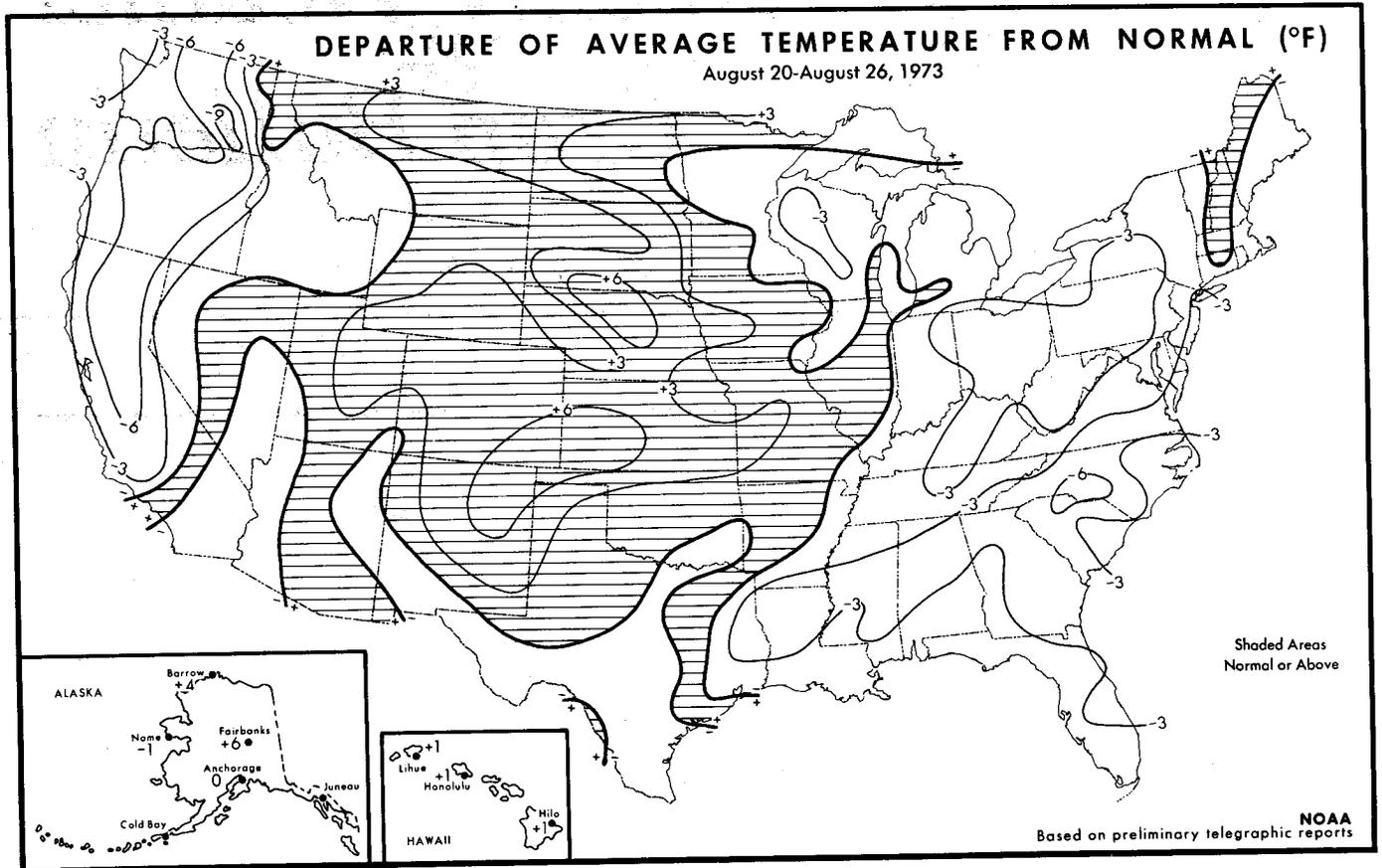
Annandale, Va., 5.00 in. This was the worst storm in the Capital area since tropical storm Agnes in June 1972.

The same storm dumped varying rains around the Chesapeake Bay area: Norfolk, Va., recorded 1.50 in. and Salisbury, Md., had 1.50 in.

Florida also received some heavy early week rains: Key West, 0.96 in. early Tuesday; Gainesville, 1.25 in. Tuesday.

On Wednesday, the wet weather ended over the East, and nationwide a fair day occurred; however, thunderstorms moved into the Nation's midsection late that day. Heavy rains fell in parts of Iowa: Peterson had 9.45 in., 8.00 in. of it in 6 hours. Sheldon measured 6.31 in. by midnight; Linn Grove recorded 6.00 in. Thunderstorms roamed the northern Plains: Miles City and Billings, Mont., welcomed 0.92 in. and 0.51 in., respectively.

Thursday the Midwestern outburst slowed to a



drizzle, while fair skies stretched over the rest of the Nation. Some cloudiness occurred over the South Atlantic Coast, where light rain fell. Parts of the Pacific Northwest also had clouds and rain: Olympia, Wash., had 0.50 in. rain.

Friday began with some thundershowers over the Rockies and over southern Montana, and in general an unsettled day followed. Brunswick, Ga., got 1.13 in. morning rain. Scattered showers fell from Arkansas and Missouri up the Ohio Valley.

Later Friday, Imperial, Nebr., got 1 in. hailstones in gusts of wind up to 47 mph. Severe activity also occurred in southern Florida: Miami recorded 1.27 in. rain. To the north, Charleston, S. C., got 0.70 in. spread over 6 hours.

Outside of Florida (Key West got 1.74 in. rain Saturday), Americans enjoyed a generally sunny weekend and only a few thundershowers fell around the Nation.

TEMPERATURE: While most of the Corn Belt enjoyed temperatures within 3° of normal, large sections of the central and western Plains, where temperatures averaged from 3° to 6° above normal, suffered from the heat.

Coastal areas were 3° or more subnormal. In the West, large inland tracts of California, Washington, and Oregon averaged from 3° to 9° below normal. In the East, the Ohio Valley, central Pennsylvania, and southcentral New York and eastern New Jersey averaged 3° or more below normal. Sections of 12 southern States also averaged from 3° to 6° subnormal.

Monday was a day of contrasts in the Nation's western half. The Pacific Northwest was cool with early morning temperatures in the 40's and

50's. It was also cool into North Dakota, and across to the Great Lakes, because a Canadian High brought cooler air to these areas.

However, to the south and east, the Plains baked. Many points hit 90's, Rapid City, S. Dak., hit 104°, a new record, and Hutchinson, Kans., hit 101°.

Tuesday morning cold air invaded the Ohio Valley and Great Lakes area. Marquette, Mich., began the day with 44°; Madison, Wisc., 48°. But the Plains' heat continued: Pickstown, S. Dak., had 101° and Valentine, Nebr., 102°.

Late Tuesday and Wednesday, the High pushed cool air to the Gulf, which had readings in the 60's early Wednesday. However, the temperatures continued very hot over the Plains. Most areas from north Texas to south Nebraska broke 90°, Hutchinson, Kans., hit 102°.

Thursday, the cold air kept eastern temperatures way below average. Philipsburg, Pa., recorded 34°. However, temperatures climbed into the 70's over most of the East at midday. The Pacific Northwest also recorded 30's and 40's, while the Plains stayed hot. El Paso, Tex., hit 100°, a record, while Gila Bend, Ariz., baked at 115°.

Friday the contrast continued: Marquette, Mich., fell to 39° in the morning. Temperatures from New England to the upper Mississippi Valley and from the northern Rockies to the northern Pacific Coast peaked in the 60's and 70's, while the Plains baked. El Paso, Tex., set another record 101°, while winds gusting at 35 mph blew a 113° record temperature through Gila Bend, Ariz.

Saturday the Plains continued hot; Hutchinson, Kans., hit 105°. Sunday was hot again over the Plains and the rest of the Nation experienced a generally warming trend.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Showers and damp weather slowed some small grain harvests, but progress ran ahead of normal. Although nationwide soil moisture fell because of sparse rainfall, corn, cotton and soybeans aided by rains earlier in August developed favorably.

SMALL GRAINS: Showers delayed small grain harvesting some across the northern tier of States from Michigan to Idaho but progress continued to run about 1 week ahead of normal. The winter wheat harvest is nearly complete while spring wheat harvesting is nearly three-fourths done and oats harvesting moved into the final stages.

Spring wheat is 75% harvested in Minnesota and 80% in North Dakota where durum wheat is also over 50% combined. Spring wheat is 70% harvested in Montana and 67% harvested in Idaho. Harvest of small grains is finished in Washington and Oregon except in late areas and for spring planted grains. Oat harvesting hit the home stretch: 75% done in Wisconsin, 84% done in Minnesota and 90% done in North Dakota.

Land preparation increased for fall winter wheat planting in the North Central States, but dry soil delayed this operation in the Dakotas and Colorado.

CORN: Rainfall was sparse in the Corn Belt last week; however, the corn crop remained in mostly good to excellent condition and developed favorably under near seasonal temperatures.

Good rains helped corn over much of Iowa, Minnesota and Wisconsin and boosted soil moisture supplies there. Elsewhere in the Corn Belt, soil moisture supplies declined but are generally rated as short to mostly adequate. South Dakota was the exception: some drought damaged corn is being cut for silage.

Development lags behind last year's later-than-normal crop in Indiana, Wisconsin, Iowa, Missouri, and Kansas. About 78% of the Corn Belt acreage is in or past the dough stage and about 33% is in the dent stage, ranging from 16% in Minnesota to 45% in Illinois and Nebraska. Southern corn matured rapidly and looks good. Light harvesting started in Virginia and continued from North Carolina to Texas.

COTTON: Southern and western cotton areas got almost no rain last week. The dry spell depressed southern soil moisture levels generally rated as short to adequate, but most cotton continued setting bolls in fair to mostly good condition. More rain is needed to develop the crop and to prevent shedding of fruit. Less than 5% of the bolls are open in most of the South. Insect counts are lower than normal, but spraying continues.

Drying conditions allowed Texas cotton farmers in the Lower Rio Grande Valley to resume harvesting which is 4% complete Statewide versus 12% in 1972. Western cotton progressed adequately. California cotton continued setting blooms and bolls, and some bolls opened. Boll rot is causing a problem near Yuma, Ariz.

SOYBEANS: Dryness prevailed over most Corn Belt and Southern soybeans, but moisture that fell earlier in August plus seasonally hot weather helped the crop develop rapidly, and it stood in good condition nationwide. Only parts of Iowa, Minnesota, and Wisconsin got good rains that replenished soil moisture and aided soybeans. Elsewhere, topsoils dried.

Soybean development lags behind last year's late crop in most North Central States. (Exceptions: Minnesota, South Dakota, Iowa and Indiana.) Pods set on about 80% of Corn Belt acreage and leaves yellowed on less than 10%.

South Atlantic soybeans are setting pods ahead of 1972, but progress lags in the South Central Region. The Mississippi crop has 58% pods set, and late planted Arkansas soybeans need rain badly.

OTHER CROPS: Harvest of Wisconsin short second crop hay advanced to 70% complete. Dryness greatly reduced the third crop alfalfa acreage harvested in South Dakota. Several States report shortages of baling wire.

Texas sorghum grain harvesting stood 38% complete versus 40% in 1972. Kansas sorghum is 80% headed, ahead of average. Nebraska sorghum heads are 40% turning color versus a 30% average.

Flue-cured tobacco in North Carolina is 80% housed. Farmers have almost finished tobacco harvesting in South Carolina and Georgia. Kentucky tobacco is improving.

Peanuts in Georgia look good, but digging is much behind last year and normal there and in Texas.

Potato digging is underway in southwest Idaho. Rain benefited potatoes in Aroostook County, Maine.

FRUITS AND NUTS: Fall apples sized well in New Jersey and Maryland. Early New York McIntosh apples are being picked. Some apple picking is underway in Washington and Oregon.

Peach harvesting continued actively in northern orchards.

California fresh grape harvesting continued, harvest just started for raisin and wine varieties.

Pecans in Texas show above normal drop. Georgia pecans are in good condition.

VEGETABLES: Northern vegetable harvesting provided good supplies. Seeding of fall vegetables was active in south Texas and Florida. Vegetable processors in Oregon operated at full volume. Lettuce shipments at Salinas, Calif., were moderate.

PASTURES AND LIVESTOCK: Pastures in the Central and Atlantic States held in good to excellent condition except in the Dakotas, where drought prevailed. Most western ranges dried rapidly, especially in the Northwest where several fires blazed across ranges and forests. There, cattlemen continued to cull herds closely and to bale all available hay and straw.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Aug. 26, 1973

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	- 5	T	-1.1	La. Baton Rouge . . .	81	- 2	T	-1.1	Youngstown . . .	65	- 5	1.1	+ .3
Mobile . . .	81	- 1	T	-1.2	Lake Charles . . .	80	- 2	T	-1.1	OKLA. Okla. City . . .	83	+ 1	0	- .6
Montgomery . . .	78	- 3	0	- .9	New Orleans . . .	80	- 2	T	-1.2	Tulsa . . .	83	+ 2	0	- .7
ALASKA Anchorage . . .	55	0	1.8	+1.2	Shreveport . . .	79	- 5	T	- .5	OREG. Astoria . . .	56	- 5	.4	0
Barrow . . .	42	+ 4	.4	+ .2	MAINE. Caribou . . .	61	- 0	.2	- .6	Burns . . .	60	- 6	.3	+ .2
Fairbanks . . .	58	+ 6	.7	+ .2	Portland . . .	65	- 1	T	- .5	Medford . . .	65	- 5	T	0
Juneau . . .	-	-	-	-	MD. Baltimore . . .	71	- 3	1.0	- .2	Pendleton . . .	66	- 5	1.1	0
Kodiak . . .	-	-	-	-	MASS. Boston . . .	69	- 1	T	- .9	Portland . . .	62	- 4	1.0	+ .8
Nome . . .	48	- 1	.9	0	Chatham . . .	65	- 1	T	-	Salem . . .	59	- 7	.7	+ .6
ARIZ. Flagstaff . . .	65	+ 2	.1	- .5	MICH. Alpena . . .	62	- 2	.1	- .6	PA. Allentown . . .	69	- 2	0	-1.0
Phoenix . . .	93	+ 6	0	- .2	Detroit . . .	68	- 2	.4	- .2	Erie . . .	64	- 2	1.2	+ .6
Tucson . . .	85	+ 2	.4	- .3	Flint . . .	66	- 1	.8	+ .1	Harrisburg . . .	70	- 4	T	- .8
Winslow . . .	75	- 2	.4	0	Grand Rapids . . .	68	- 2	T	- .6	Philadelphia . . .	72	- 1	.4	- .7
Yuma . . .	90	- 1	.1	0	Houghton Lake . . .	64	- 1	T	- .6	Pittsburgh . . .	66	- 4	.7	0
ARK. Fort Smith . . .	82	0	0	- .6	Lansing . . .	69	- 0	.4	- .3	Scranton . . .	65	- 4	T	- .8
Little Rock . . .	82	+ 1	0	- .6	Marquette . . .	63	- 2	.3	- .4	R.I. Providence . . .	68	- 1	.3	- .7
CALIF. Bakersfield . . .	76	- 5	0	0	Muskegon . . .	67	- 3	.1	- .6	S.C. Charleston . . .	78	- 2	2.0	+ .6
Eureka . . .	55	- 2	.1	+ .1	S. Ste. Marie . . .	63	0	.3	- .4	Columbia . . .	77	- 3	.7	- .5
Fresno . . .	72	- 6	0	0	MINN. Duluth . . .	60	- 2	.1	- .8	Greenville . . .	74	- 4	T	-1.0
Los Angeles . . .	74	+ 1	0	0	Internatl Falls . . .	65	+ 3	.2	- .6	S.D. Aberdeen . . .	74	+ 4	T	- .5
Red Bluff . . .	72	- 8	0	0	Minneapolis . . .	69	0	1.2	+ .5	Huron . . .	75	+ 3	.1	- .3
San Diego . . .	71	- 1	T	0	Rochester . . .	67	- 2	2.8	+1.9	Rapid City . . .	74	+ 3	.5	+ .1
San Francisco . . .	60	- 3	T	0	St. Cloud . . .	66	- 1	.7	- .1	Sioux Falls . . .	75	+ 4	.1	- .7
Stockton . . .	69	- 7	0	0	MISS. Jackson . . .	79	- 2	T	- .7	TENN. Chattanooga . . .	76	- 3	T	- .8
COLO. Denver . . .	76	+ 5	.2	- .1	Meridian . . .	77	- 4	T	- .7	Knoxville . . .	74	- 3	.7	0
Grand Junction . . .	78	+ 3	.1	- .2	MO. Columbia . . .	78	+ 3	T	- .9	Memphis . . .	79	- 1	0	- .6
Pueblo . . .	79	+ 5	T	- .4	Kansas City . . .	81	+ 2	T	-1.0	Nashville . . .	76	- 3	0	- .6
CONN. Bridgeport . . .	69	- 2	.3	- .7	St. Louis . . .	77	+ 1	0	- .8	TEX. Abilene . . .	85	+ 2	0	- .3
Hartford . . .	71	+ 1	T	- .8	Springfield . . .	80	+ 3	T	- .8	Amarillo . . .	82	+ 3	0	- .7
D.C. Washington . . .	75	- 1	3.7	+2.6	MONT. Billings . . .	71	+ 1	.6	+ .4	Austin . . .	84	- 1	0	- .4
FLA. Apalachicola . . .	80	- 1	0	-1.7	Glasgow . . .	71	+ 5	.6	+ .2	Beaumont . . .	80	- 2	.1	-1.2
Daytona Beach . . .	79	- 2	1.8	-	Great Falls . . .	70	+ 4	.2	- .1	Brownsville . . .	82	- 3	.2	- .5
Ft. Myers . . .	81	- 2	2.2	+ .5	Havre . . .	70	+ 4	.1	- .1	Corpus Christi . . .	82	- 2	.2	- .4
Jacksonville . . .	78	- 4	1.3	- .2	Helena . . .	64	- 1	.1	- .1	Dallas . . .	85	0	0	- .3
Key West . . .	82	- 2	1.8	+ .8	Kalispell . . .	63	+ 1	.2	0	Del Rio . . .	79	- 1	.1	- .2
Lakeland . . .	79	- 3	.6	-1.0	Miles City . . .	74	+ 3	1.6	+1.4	El Paso . . .	85	0	0	- .4
Miami . . .	81	- 2	5.0	+3.4	Missoula . . .	63	+ 1	.1	0	Fort Worth . . .	79	- 1	.1	- .2
Olando . . .	80	- 3	1.4	- .1	NEBR. Grand Island . . .	79	+ 5	0	- .5	Galveston . . .	84	+ 1	T	- .9
Tallahassee . . .	79	- 2	0	-1.5	Lincoln . . .	80	+ 3	0	- .8	Houston . . .	80	- 2	.1	- .8
Tampa . . .	80	- 2	2.6	+ .7	Norfolk . . .	79	+ 5	T	- .6	Lubbock . . .	80	+ 1	0	- .4
W. Palm Beach . . .	81	- 2	1.4	-	N. Platte . . .	75	+ 2	.9	+ .4	Midland . . .	81	- 1	0	- .3
GA. Atlanta . . .	75	- 3	T	- .8	Omaha . . .	77	+ 4	0	- .9	San Angelo . . .	85	0	0	- .3
Augusta . . .	76	- 4	.3	- .6	Valentine . . .	79	+ 8	T	- .5	San Antonio . . .	82	- 2	0	- .5
Macon . . .	78	- 3	0	- .9	Las Vegas . . .	64	- 1	T	- .1	San Antonio . . .	83	0	T	- .7
Savannah . . .	77	- 4	1.5	0	NEV. Ely . . .	85	- 1	T	- .1	Victoria . . .	86	+ 1	0	- .4
HAWAII. Hilo . . .	78	+ 1	1.1	-1.5	Las Vegas . . .	62	- 3	T	0	Waco . . .	86	0	0	- .4
Honolulu . . .	81	+ 1	.1	- .1	Reno . . .	66	0	T	0	Wichita Falls . . .	70	0	.2	- .1
Kahului . . .	-	-	-	-	Winnemucca . . .	66	0	T	- .7	UTAH. Blanding . . .	76	+ 3	.2	0
Lihue . . .	80	+ 1	.2	- .3	N. H. Concord . . .	66	0	T	- .7	Salt Lake City . . .	75	+ 3	.2	0
IDAHO. Boise . . .	70	- 1	T	- .1	N. J. Atlantic City . . .	69	- 4	.4	- .7	VT. Burlington . . .	65	- 1	.1	- .6
Lewiston . . .	70	0	T	- .1	Trenton . . .	71	- 2	.9	- .2	VA. Lynchburg . . .	71	- 3	.2	- .8
Pocatello . . .	68	- 1	.1	0	N. MEX. Albuquerque . . .	80	+ 5	T	- .3	Norfolk . . .	74	- 4	2.3	+1.0
ILL. Cairo . . .	78	- 2	0	- .7	Roswell . . .	79	+ 3	0	- .3	Richmond . . .	73	- 3	1.8	+ .6
Chicago . . .	74	+ 1	.5	- .2	N. Y. Albany . . .	68	- 1	T	- .7	Roanoke . . .	72	- 3	T	-1.0
Moline . . .	73	0	.4	- .4	Binghamton . . .	62	- 4	.1	- .7	WASH. Colville . . .	65	0	T	- .2
Peoria . . .	73	0	.1	- .5	Buffalo . . .	66	- 2	1.3	+ .6	Omak . . .	62	- 6	0	- .1
Rockford . . .	70	- 2	1.4	+ .5	New York . . .	72	- 3	.2	- .9	Quillayute . . .	53	0	T	- .5
Springfield . . .	75	+ 1	T	- .6	Rochester . . .	66	- 3	T	- .6	Seattle-Tacoma . . .	59	- 5	T	- .2
IND. Evansville . . .	76	- 1	T	- .7	Syracuse . . .	66	- 3	.1	- .6	Spokane . . .	65	- 2	T	- .1
Ft. Wayne . . .	68	- 4	1.2	+ .5	N. C. Asheville . . .	70	- 3	T	- .8	Walla Walla . . .	64	- 9	T	- .1
Indianapolis . . .	72	- 1	.1	- .6	Charlotte . . .	73	- 6	.2	- .7	Yakima . . .	63	- 4	T	0
South Bend . . .	69	- 2	.7	- .1	Greensboro . . .	71	- 5	.1	- .9	W. Va. Beckley . . .	65	- 4	.6	- .3
IOWA. Burlington . . .	73	- 1	.5	- .3	Hatteras . . .	76	- 1	.7	- .6	Charleston . . .	69	- 5	.6	- .2
Des Moines . . .	76	+ 3	.4	- .5	Raleigh . . .	74	- 3	.1	-1.0	Huntington . . .	71	- 3	.2	- .5
Dubuque . . .	70	+ 1	.6	- .2	Wilmington . . .	77	- 3	.8	- .7	Parkersburg . . .	70	- 4	.5	- .4
Sioux City . . .	77	+ 3	T	- .6	N. DAK. Bismarck . . .	67	+ 3	T	- .4	WIS. Green Bay . . .	67	- 1	.2	- .5
KANS. Concordia . . .	81	+ 3	.1	- .6	Fargo . . .	71	- 2	1.1	+ .4	La Crosse . . .	68	- 2	4.5	+3.7
Dodge City . . .	86	+ 8	T	- .6	Williston . . .	71	+ 4	.4	+ .1	Madison . . .	66	- 3	.9	+ .1
Goodland . . .	78	+ 5	T	- .5	OHIO. Akron-Canton . . .	66	- 5	.3	- .4	Milwaukee . . .	69	+ 2	.4	- .3
Topeka . . .	80	+ 2	.1	- .9	Cincinnati . . .	71	- 2	.4	- .4	WYO. Casper . . .	73	+ 4	.1	- .1
Wichita . . .	86	+ 5	0	- .6	Cleveland . . .	68	- 3	.6	- .1	Cheyenne . . .	70	+ 4	T	- .3
KY. Lexington . . .	71	- 4	.8	+ .1	Columbus . . .	69	- 4	.5	- .1	Lander . . .	70	+ 2	.1	0
Louisville . . .	74	- 2	.1	- .6	Dayton . . .	70	- 3	.6	0	Sheridan . . .	70	+ 2	.2	0
					Toledo . . .	66	- 4	.3	- .5	P. R. San Juan . . .	84	+ 3	.5	- .9

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: Driest week in months, little or no rain-fall. Temperatures cool, averaging 2° subnormal. Extremes: 95°, Mobile; 52°, Gadsden. Statewide rain needed to boost cotton, corn, soybeans and peanuts. Virtually all cotton setting bolls, first bolls opened south and central. Corn rapidly maturing, 75% in or beyond dent stage, 40% matured. Light harvest for grain underway south and central. Soybeans 60% setting pods, compared with 75% 1972. Peanut digging underway few fields. Open weather enabled farmers to save much quality hay. Pastures provided adequate grazing except in few counties where grazing short. Moisture needed to restore pastures to full potential.

ALASKA: Over 1.00 in. rain fell over northern Kenai Peninsula northward over Anchorage Basin into Matanuska Valley. Greatest amount fell over northern Kenai Peninsula with 1.22 in. at Kenai. On northern Kenai Peninsula temperatures early week fell into mid-to lower 30's. Elsewhere, temperatures and precipitation remained near normal. Soil moisture surplus most of Tanana Valley and adequate rest railbelt. Crops maturing slowly due to minimal sunshine. Barley harvest began Clearwater area. Oat harvest underway near Fairbanks, will begin in September rest of State. Crop prospects mostly average. Wet weather delayed second cutting hay. Storage potato digging begun near Fairbanks.

ARIZONA: Temperatures near normal statewide but unseasonably high by day. Night readings tended lower except southeast. Low humidity late week. Precipitation sharply subnormal all districts; none in west, southcentral. Scattered thundershowers through Thursday eastcentral, southeast. Cotton adequate progress, wind on August 18-19 blew cotton down Yuma, Wellton areas. Boll rot problem, Yuma. Insects under control. Sorghum harvest Pima, Pinal good progress; insect problems in some areas countered by controls. Sugar beets progressed satisfactorily Graham, Cochise. Alfalfa hay normal progress, lettuce planting full swing Salt River Valley; up to good stands in Pima, Pinal Counties; thinning active Cochise County. Melons good progress Graham County. Picking, shipping old crop citrus complete. Limited amount limes to be picked, shipped next 2 weeks. Harvest lemons next week. New crop fruit sizing rapidly, groves good. Ranges declining, fair to good. High ranges supplying good summer feed, ranges drying rapidly. Prospects late fall, winter feed fair. Stockwater adequate but rapidly being depleted. Cattle, calves good. Sheep, lambs mostly fair.

ARKANSAS: Abnormally dry, only trace at Eudora. Temperature 4° above normal northwest to 3° subnormal southeast. Extremes: 102° Ozark and Gilbert; 51° Calico Rock and Gilbert. Crop prospects fair to good. Hot, dry weather caused stress, much irrigating. Cotton fair to good, setting bolls, insect numbers less than normal. Rice good to excellent, most heading. Soybeans mostly good, early beans setting pods, late beans need rain badly--some shedding blooms. Corn and sorghums maturing, silage being cut. Early sorghum grain harvest began. Apple, grape harvest

continued. Watermelons, okra being marketed. Hay harvest active. Pastures mostly adequate, a few areas short. Cattle good.

CALIFORNIA: Only scattered light thundershowers over south desert area, northern mountains and north coast. Temperatures early week above normal but cooled north and central latter part lowering averages several degrees subnormal. South coast and desert readings above normal. Small grain harvest near completion, ground preparation for fall planting underway. Milo good. Safflower harvest about over. Drainage of early rice started. Corn harvest full swing, crop looks good. Cotton continued boll and bloom set, some open bolls, pesticides applied. Alfalfa hay baled and cubed. Beans show good growth and development, harvest started some areas. Sugar beet harvest full swing, good yields and sugar content. Seed harvest full swing. Fresh grape harvest continued, raisin harvest getting underway, wine varieties beginning. Late variety peaches, nectarines, plums harvested. Valencia orange harvest active, granulation increasing problem. Broccoli, cauliflower Salinas normal. Brussels sprouts harvest started bay area. Cantaloupe harvest slow Firebaugh-Mendota, cool weather slowed maturity. Carrot digging increased, Salinas. Sweet corn picking continued south, bay area. Honeydew harvest Sacramento Valley full swing. Lettuce shipments Salinas moderate. Potato digging good progress Delta district, Shasta Valley harvest started. Sweet potato harvest underway Modesto. Fresh market tomato supplies tapered central valley. Processing tomatoes gained momentum San Joaquin, Sacramento Valleys, underway bay area. Watermelons normal San Joaquin Valley, few still moving Bakersfield. Water supplies above seasonal normal. Livestock good, movements light to heavy. Supplemental feeding general. Some livestock grazed on stubble and beet tops. Chickens and turkeys moved to processors at seasonal rate.

COLORADO: Temperatures well above normal, warmest southeast. Extremes: 102°, La Junta; 31°, Fraser. Precipitation sparse, least southeast; most Colorado River Basin, about 0.33 in. Hot, dry weather depleted soil moisture reserves but crop conditions held well. Moisture needed to plant winter wheat. Oats, spring barley harvest continued. Sorghum good to excellent, 79% headed, 95% 1972. Corn good to excellent; 88% silked, 33% in dough; 94%, 58% respectively 1972. Harvest summer potatoes 28% complete. All potatoes, dry beans and sugar beets good to excellent. Second cutting alfalfa 80% harvested, third cutting 17% complete. Grasshoppers continue local problem. Pastures, ranges maintained livestock well to excellently. Moisture needed to continue forage supply.

FLORIDA: Cool front panhandle Tuesday and mid-peninsula Wednesday and Thursday. Lowest 59° at Monticello and Smith Creek Thursday; seasonal heat, showers by weekend. Active thunderstorms midpeninsula early week. South had seasonal temperatures, showers daily. Field crops good. Soil moisture adequate. Corn harvest active,

yields good. Sugarcane good to excellent, harvest for seed continued. Soybeans grassy but generally good. Peanut harvest started. Tobacco marketing active, record prices. Showers interrupted haying. Grazing good to excellent. Cattle, calves good to excellent, movement to market increased. Citrus groves excellent, moisture adequate, large quantities new growth, excellent cover crop growth caused minor insect problems. Planting, transplanting of peppers, tomatoes active, increased. Pompano, westcentral eggplant fair to good. Everglades corn, celery planting increased. Land preparation active for leaf crops.

GEORGIA: Temperatures 2° or 3° subnormal with highs mostly 80's north to around 90° south. Lows mostly in 60's to near 70° south. Weekend rather dry, warming trend. Rain light except extreme northcentral and coast where local thunderstorms produced more than 2.00 in. Soil moisture adequate in a few scattered counties, elsewhere short to very short. Cotton mostly good, early plantings began to open. Corn good, silage harvest active, light harvest for grain. Tobacco harvest complete, preparation for market winding up. Peanuts good, white mold more prevalent than normal, digging much behind 1972 and normal. Soybeans good, need rain most areas during critical pod setting. Pecans good. Haying active. Pasture, cattle good.

HAWAII: Weather mostly dry. Isolated brief heavy showers caused some flooding on Oahu but no crop damage. Many crop and pasture areas need rain. Water supply diminishing, some crop areas under limited irrigation. Reduction in new plantings expected. Crops progressed favorably. Pineapple and sugarcane harvest full swing. Cattle fair to good, supplemental feeding.

IDAHO: Cooler temperatures beginning and end of week dropped averages 2° to 8° from previous week, but southwest, southcentral and east remained above normal. Lows in upper 20's and low 30's north and at higher elevations. Statewide thunderstorms brought much-needed but light precipitation to north. Scattered locations southcentral and east received up to 0.50 in. rain. Southwest remained dry. Harvest progress good, but slowed by rains south and east. Winter wheat nearly 90% harvested, spring wheat and barley 67%. Potato digging underway southwest, started southcentral, a few early fields harvested east. Dry bean harvest started south. Harvest active of processing sweet corn, lima beans, onions, and mint. Second cutting alfalfa hay past peak. Forage shortage northern areas forced some early cattle marketing.

ILLINOIS: Temperatures near to slightly subnormal, highs in 90's at week's end. Precipitation light early week northwest, heavy Thursday north, dry rest of week. Corn 19% excellent, 70% good, 10% fair, 1% poor; 1972 90% either good or excellent. About 90% dough stage, 82% 1972, 1970-72 average 92%. About 45% dent stage, same as 1972, average 61%. Soybeans 13% excellent, 73% good, 13% fair, 1% poor; 1972 94% either good or excellent. About 85% pod setting stage, 95% 1972, average 97%. About 7% turning yellow, 8% 1972, average 24%. Third crop alfalfa hay 50% cut, 26% 1972, average 45%; mostly good to excellent. Plowing winter wheat land 65% complete, average 55%. Pastures 22% excellent, 50% good, 25% fair, 3% poor. Soil moisture 32% short, 64% adequate, 4% surplus. Averaged 6 days suitable fieldwork. Main activities cutting and

balancing hay, plowing for winter wheat, cutting weeds.

INDIANA: Cool, then hot and humid. Temperatures ranged from high 40's on 23rd to mid-90's on 26th. Scattered showers up to 1.00 in. on Thursday. Fieldwork averaged 5 days. Topsoil and subsoil moisture mostly adequate. Corn 70% in or past dough, 25% dented. Usually 85% in or past dough. Soybeans 80% podded, 5% turning yellow. Usually 20% turned. Wheat land 50% plowed, 55% in 1972, 45% average. Alfalfa hay 90% cut second time. Pastures off some but still mostly fair to good.

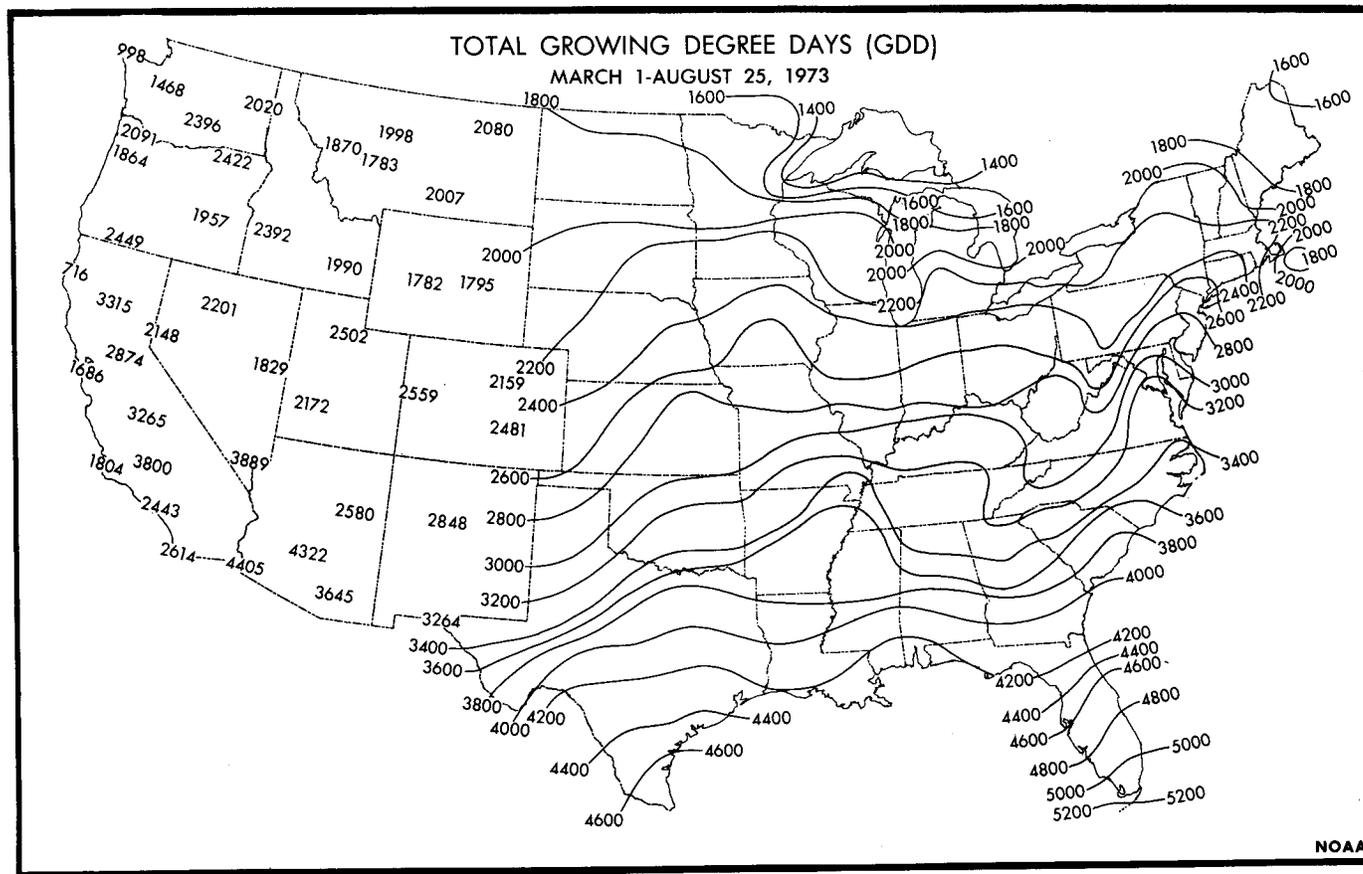
IOWA: Cloudiness, thundershowers, cool temperatures midweek followed by a sunny, hot, humid weekend. Heavy rains northwest Wednesday night left over 5.00 in. many points resulting in local flooding. Crop condition ranged from poor to excellent with over 90% either good or excellent. Fieldwork: 5 days. Corn 71% dough stage, 3-year average 80%; 31% in or past dent stage, average 43%. Soybeans 86% setting pods, average 89%; leaves starting to turn in 8% of fields, average 11%. Hail damage reported to corn and soybeans in Clay County. Third crop alfalfa 35% harvested, average 39%. Second cutting clover 68% harvested, average 79%. Condition of hay crops poor to excellent, mostly good. Pastures 4% poor, 19% fair, 45% good, 32% excellent. Topsoil moisture 12% short, 75% adequate, 13% surplus.

KANSAS: Hot and dry. Precipitation spotty, general average, only a few hundredths. Temperatures well above normal, ranging from 4° above southeast to 8° above normal west. Readings reached 100° or over southwest daily. Row crops developed favorably. Sorghum 80% headed, same as 1972, 75% average. Sorghum 10% coloring, 20% 1972, average 25%; insects under control. Corn dough stage 75%, 1972 same, average 85%. Corn 35% dented, 1972 50%, average 55%. Soybeans setting pods 75%, 1972 same, average 80%. Alfalfa hay third cutting 75% harvested, same as 1972 and average. Pastures, ranges good to excellent, some dry. Some pinkeye and fly problems in cattle. Winter wheat seedbed preparation intensified.

KENTUCKY: Showers east half Monday and across State Friday, otherwise fair. Temperatures subnormal until weekend, when it grew hot and humid. Over 5 days favorable fieldwork; much activity topping, spraying and cutting tobacco, harvesting hay and clipping pastures. Soil moisture 49% short, 51% adequate, driest in west. About 75% corn now in dough or dent, good yield prospects. Silage corn acreage about normal, some early cutting. Soybeans 64% podded, 74% 1972. Tobacco improving, about 67% burley topped, cutting getting underway, yield prospects remain under 1972. Lespedeza hay 40% cut. Pastures still excellent. Movement feeder cattle slowed. Fall plowing normal.

LOUISIANA: Temperatures 1° to 4° subnormal. Extremes: 57° and 97°. Rain less than 0.25 in. but heavier southeast. Fieldwork 6.2 days. Cotton good, insect counts low, spraying continued. Soybeans good, spraying stepped up. Rice harvest 20% complete, 1972 60%; good yields. Sugarcane excellent growth, planting increasing. Corn and sorghums harvested for silage. Corn picking for grain continued. Digging sweet potatoes continues, good yields. Haying active. Pastures average. Livestock good.

MARYLAND-DELAWARE: Cool, averaging 3° to 5° subnormal. Highs mid-80's and lows upper 40's. Pre-



precipitation above normal except Garrett County and northern areas. Heaviest amounts southern Maryland, and Delmarva getting 4.50 to 5.00 in. and around 8.00 in. extreme south Eastern Shore. Showers interrupted work especially southern areas. Corn prospects favorable, 33% denting, ahead of 1972 but behind normal. Soybeans advanced with 65% podding, 52% 1972. Tobacco harvest slowed by wet fields, 31% cut, average 45%. Central and western orchards received rain helping to size fall varieties.

MICHIGAN: Precipitation averaged 0.33 to 0.67 in. over extreme southwest lower State and southeast lower State and near 0.33 in. over eastern upper State. Elsewhere precipitation averaged less than 0.10 in. Temperatures generally normal to 2° sub-normal. Cool most of week warming over weekend. Coolest Tuesday night and Wednesday with lows mainly in 40's and highs in 60's; upper 80's to mid-90's over lower State Sunday. Cool weather slowed crop growth early week, but it picked up on warmer weekend. Rains and heavy dew hindered grain and hay harvest. Soil moisture adequate most areas, dry east-central and extreme south. Fieldwork 5.2 days. Corn, soybeans developed well. Corn mostly in dough stage, 12% dented. Soybeans 90% podded, early fields turning yellow. Dry beans pushed to early maturity by dry soils, yields down. Oats harvested except north. Second cutting hay 75% harvested, some third cutting. Pasture feed adequate to heavy. Summer potatoes more than 25% harvested, fall crop 13%. Summer apples 60% harvested, peaches 40%. Pear and plum picking started. Vegetable harvest active. Good sweet corn crop 50% harvested. Tomatoes 50% harvested, moving to processors.

MINNESOTA: Temperatures normal to 2° below until Sunday when most of State was hot. Highest 103°, Luverne and Pipestone. Precipitation near normal north and 1.00 to 2.00 in. above normal central and south except southwest district where totals were subnormal. Heaviest 24-hour rain was 4.45 in., Marion. Damp weather delayed small grain harvest, but progress remains ahead of normal. Spring wheat 75%, oats 84%, barley 92% combined. Corn, soybean development also ahead of normal. Corn 74% in dough, 16% denting. Soybeans 19% turning yellow. Flax 42% combined. Winter wheat 15%, rye 14% seeded. Moisture southwest district short, may lower yields on late corn, soybeans; adequate to surplus in eastern third, adequate elsewhere.

MISSISSIPPI: No significant rain. Temperatures a few degrees cooler than usual. Extremes: 97° to 53°. Morning temperatures several degrees cooler most places late week. No weather changes over weekend, only isolated thundershowers central and south late Sunday. Soil moisture short to adequate. Average 6.0 days suitable for fieldwork. Cotton, corn, sorghums, sweet potatoes, and pecans fair to good. Soybeans, rice, hay crops, pastures and livestock fair to good, mostly good. Cotton setting bolls 99%, less than 2% with open bolls. Soybeans 40% blooming, 58% setting pods. Corn 35% dough stage, 63% dented. Sorghums 85% headed. Rice 20% headed. Completion of harvest: Peaches 100%, watermelons 88%, sweet potatoes 20%, hay crops 80%, cucumers 98%.

MISSOURI: A hot, dry week. All zones above normal temperatures with West Ozarks 5° above normal. Greatest rain 0.20 in. in East Ozarks. Fieldwork: 6 days suitable. Soybeans 65% setting pods, 81%

1972, fair to good, Sorghum 84% headed, 90% 1972. Corn 71% dough, 100% 1972; 36% dent, 70% 1972. Cotton fair to good 1% open, 3% 1972. Soil moisture 57% short, 43% adequate. Motor fuel supply for current farm work remains adequate.

MONTANA: Temperatures 3° above normal northeast, near normal elsewhere. Scattered showers mostly in east half averaging slightly over 0.30 in. Small grain harvest made good progress, ahead of normal. Winter wheat about 90% done, spring wheat, barley nearly 70% and oats about 65% complete. Soil moisture, range feed and water short. Livestock movement from summer ranges heaviest northwest, northcentral, and central counties. Rains helped ranges in most south counties and other scattered areas. Second cutting alfalfa 70% complete, wild hay mostly done.

NEBRASKA: Above normal temperatures except subnormal midweek. Rainfall sparse, only scattered thundershowers. Corn 47% excellent, 41% good, 9% fair, 3% poor. In dough stage 90%, 80% 1972; dent 45%, 40% 1972. Cutting for silage begun. Sorghum 43% excellent, 54% good, 3% fair; heads turning 40%, 35% 1972, 30% average. Soybeans 29% excellent, 64% good, 7% fair; leaves turning 10%, 20% 1972, 15% average. Alfalfa 14% excellent, 74% good, 9% fair, 3% poor; third cutting 80% completed, fourth cutting 15%. Wild hay 19% excellent, 73% good. Sugar beets very good. Dry beans turning, cutting started. Farmers irrigated, hayed, prepared seedbeds for wheat, worked summer fallow, controlled weeds. Fieldwork: 7 days. Topsoil moisture supplies 84% short, 16% adequate. Subsoil 70% adequate, 30% short. Range and pasture 28% below average, 55% average, 17% above average. Stock suffered from heat.

NEVADA: Temperatures varied from 2° above normal northeast to 4° below northwest. High 107° at Logandale, coldest 30° McDermitt. Precipitation light varying from none to 0.15 in. at Yerington. Humidity extremely low, windy all week. Small grain harvest nearly over. Alfalfa seed harvest about to start. Ranges continued dry, moisture needed badly. Livestock holding up well.

NEW ENGLAND: Highs about 80° all areas until weekend, then high 80's south. Cooled to 60's and 70's north. Cool areawide night temperatures Wednesday night. Rainfall very light except local downpours. Good growing week, but cool nights slowed tomatoes and sweet corn. Haying active, yields, quality good. Maine blueberry harvest active, yields good. Rain welcome on Aroostook County, Maine, potatoes; digging early varieties.

NEW JERSEY: Cool, damp early week; warm, dry by weekend. Temperatures near to slightly subnormal. Extremes: 46°, Newton; 90° Newark. Rainfall light in scattered showers early week. Soil moisture adequate in some areas but very short in others. Most fall vegetable acreage planted. Good supplies of summer crops moved. Sweet potatoes good where irrigated. Good supplies of peaches continued. Fall apples sized well. Corn silage making became general. Soybeans continue setting pods. Third cutting alfalfa advanced under good drying conditions.

NEW MEXICO: Showers and thundershowers confined to west and north giving highly variable rainfall; largest amounts fell at Chama 1.70 in. Farmington

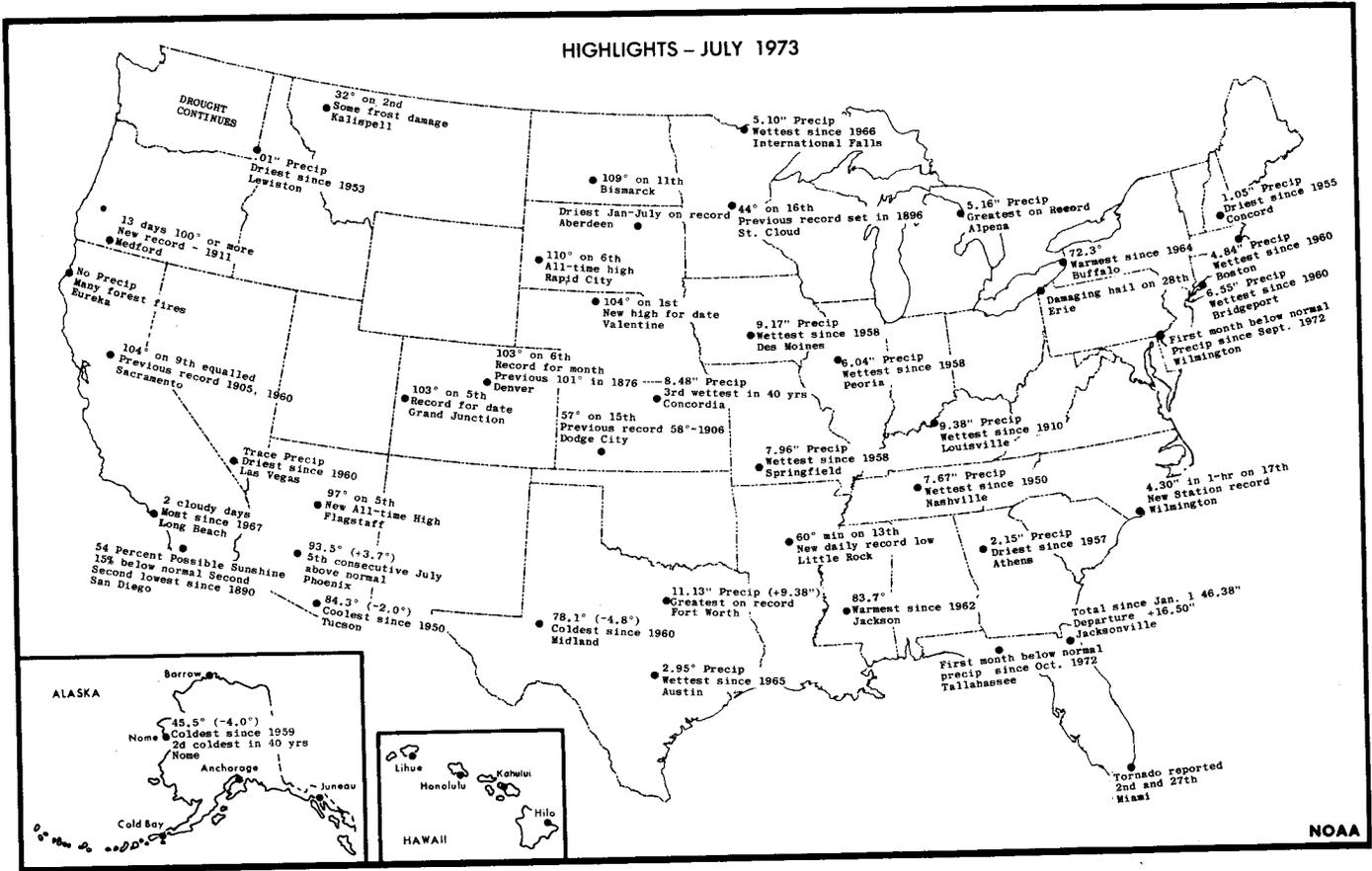
0.55 in. and Cuba 0.53 in. Temperatures a few degrees above normal northeast and eastcentral plains, the middle Rio Grande and Mesilla Valley; near normal elsewhere. Very little rain agricultural areas, most areas drying. Cotton fair to good. Alfalfa good, shortage of baling wire. Grain sorghum good, most fields heading. Corn good, well advanced, dough stage. Other crops good. Some apple harvest. Ranges fair to good, drying. Livestock good.

NEW YORK: Temperatures averaged 2° to 4° subnormal west and coastal southeast; elsewhere, near normal. Unseasonably cool midweek with lows in 30's and 40's Thursday. Highest reading Sunday; Rochester 90°. A dry week, only significant rainfall Buffalo's 1.31 in. Oat harvest over 80% complete. Poor drying weather some areas slowed hay harvest. Second cutting alfalfa over 80% complete, third cutting 20%. Plowing for winter wheat under way few areas. Orange County onion crop about 70% harvested. Ulster County sweet corn harvest reached midpoint, quality excellent, yields high. Digging early chipping and table potatoes started Steuben-Livingston area. Harvest of most other vegetables hit volume levels. Early McIntosh picked. Harvest of early variety pears continued. Bartletts about to begin. Peach harvest continued. Grapes sized well Chautauqua-Erie, but lack of moisture in Finger Lake area held back sizing.

NORTH CAROLINA: Heavy rains drenched some northern counties Saturday. Temperatures subnormal over interior and rainfall spotty. Fieldwork 4.3 days. Flue-cured tobacco 80% housed, 90% Border and Eastern Belt complete, 70% Old and Middle Belt complete, 6% ahead of 1972. Soil moisture short southern Border counties, adequate elsewhere. Corn 95% good to excellent, picking started coast counties. Soybeans 92% good to excellent. Cotton 80% good to excellent. Aerial dusting and spraying soybeans, cotton. Sweet potatoes 5% harvested. Hay second, third cutting. Pastures good to excellent.

NORTH DAKOTA: Temperatures ranged 5° or more above normal statewide, with 9° above normal northwest and southwest. Extremes: 106° at Bismarck, 41° at Grand Forks. Rain mostly subnormal except eastcentral and northeast, where rain 0.08 to 0.55 in., respectively, above normal. Central driest. Hail and high winds eastcentral. Largest rainfall amounts 1.47 in., Minot Air Base, 0.55 in., Devils Lake. Weekend: High daytime temperatures in 90's and cool nights in high 50's and low 60's. Small grain harvest advanced moderately although local storms and showers caused some delays. Combining hard red spring wheat about 80% finished. Durum over 50% combined. Combining oats and barley 90% finished. About 25% flax swathed or combined. Small grain harvest nearly week ahead of normal. Some defoliation started on potatoes and few fields dug. Recent moisture improved pastures.

OHIO: Precipitation amounts up to 1.00 in. early week showers. Cooler, much drier weather over weekend, and temperatures as much as 5° subnormal. Cooler than normal temperatures slowed crop growth, maturity. Some areas need sunshine, others need rain. Over 5 days favorable fieldwork. Soil moisture 78% adequate, 15% short. Corn good, 35% dented, 5% mature. Soybeans fair, 45% pods set, leaves green; last year 50%, normal 70%. Corn silage 5% harvested, 1972 5%, normal 10%. Potatoes 50% harvested, normal 25%. Third cutting alfalfa 25% done, 20% 1972. Fall plowing over 40% finished, 40% 1972, normal 45%.



OKLAHOMA: Temperatures ranged from 4° subnormal southeast to 4° above normal Panhandle. Precipitation very light, only traces or a few hundredths. Weekend hot and dry. Row crops held condition after a hot week. Topsoils dry all but east counties. Farmers applied fertilizer where available, on winter wheat ground. Seeding will be active if it rains. Sorghum 50% in dough stage or past, 75% 1972, moderate insect damage some areas. Most cotton setting bolls, light shedding squares and small bolls drier areas, insects few but increasing. Peanuts 80% setting nuts, few fields nearly mature, 94% good, 56% 1972. Soybeans grew well, 50% setting pods. Haying slow because drier conditions stopped growth. Alfalfa seed harvest well along. Range grasses need rain to halt weed takeover. Cattle movement increased.

OREGON: Temperatures cool, from 3° to 6° subnormal most locations west Cascades to few degrees below east. Highest readings in 80's, 90's. Lows into 30's most places. Rain end of period ranged from 0.33 in. north coast, Willamette Valley to 0.05 in northeast. Grain harvest complete except late areas, spring grains. Harvest bentgrass, red clover, sugar beet seed, mint, hops, second and third cutting alfalfa continues. Rains stopped field burning Willamette Valley. Vegetable canners, freezers operated at volume. Picking evergreen blackberries, peaches, early apples, Bartlett pears, some prunes. Filberts loosening in husks. Norgold potatoes near completion Ontario, started Klamath Falls. Onion harvest continued Salem, Ontario. Preparations underway for fall seeding. Eastern ranges remain dry, fire danger extreme. Water supplies short. Several fires burned ranges, forests.

PENNSYLVANIA: Unsettled conditions early week followed by very cool, dry air midweek, first 32° reading since May. Rapid weekend warming, highs in 80's and low 90's statewide Sunday. Weekly averages 2° to 4° subnormal for coolest since early June. Shower activity first few days brought 0.50 to 1.50 in. rain west. Very little east, where driest since February. Topsoil moisture supplies 66% adequate, 20% surplus, remainder short. Corn 9% pre-silk stage, 47% silk, 38% dough, 9% dent. Oats 80% harvested. Fall plowing 33% completed. Hay and pasture good growth. Hay baled mostly fair to poor. Tobacco cutting underway. Cabbage hurt by severe black leg infestation. Sweet corn harvest at peak, tomato harvest picked up. Peach harvest peaked, late varieties just started.

PUERTO RICO: Rainfall averaged 0.96 in. or about 0.80 in. subnormal. Heavier showers over east and west Cordilleras and northwest coast where highest weekly total of 4.00 in. fell locally. Dry belt of little or no rain southcentral and northcentral coasts. Temperatures averaged 81° coasts, 76° interior. Extremes: 95°, 60°. New crop sugar-cane developed well, good progress cultivating and fertilizing. Coffee beans developed well. Recent rains improved pastures most zones. Some areas west were too wet but drying out and crop conditions improving. Minor crop zones active seeding, cultivating, fertilizing.

SOUTH CAROLINA: Temperatures early week near normal, but subnormal latter part. Rain subnormal except for south where well above normal. Tobacco fair to good, 97% harvested, 95% 1972. Cotton fair to good, essentially all squared, 88% set bolls, 5% bolls opening; 97%, 96%, and 5% respectively 1972.

Corn good, essentially all silked, 96% reached dough stage, 63% mature, 99%, 94%, 69% respectively 1972. Soybeans good, 72% bloom stage same as 1972; 63% set pods, 42% 1972. Peanuts, pastures, grapes, watermelons fair to good. Peanuts 40% harvested, 45% 1972. Lespedeza good. Peaches good, essentially harvested. Grapes 67% harvested. Watermelons virtually all harvested, 92% 1972.

SOUTH DAKOTA: Second straight week of well above normal temperatures, record temperatures west early week, east late week with 100° plus common statewide. Some locally heavy precipitation but generally well below normal. Very dry conditions still persist--seasonal precipitation 5.00 to 6.00 in. subnormal northeast, 2.00 to 5.00 in. subnormal elsewhere. Conditions too dry for fall plowing or seeding of winter wheat, rye. Drought-damaged corn being cut for silage, some sorghum cut for hay. Corn 78% in dough stage, normal 68%, 1972 62%. Sorghum 93% headed, normal 90%, 1972 80%. Flaxseed 93% ripe, 53% 1972; 65% harvested, normal 60%, 1972 25%. Only 7% alfalfa acreage to be cut for third hay crop, 7% has been harvested. Livestock generally good, flies numerous. Pastures ranges dry and short--supplemental feeding of hay and green chopped corn. Water supplies getting low. Winter feed supplies short to adequate.

TENNESSEE: Mild, dry week. Rainfall averaged a trace west to 0.38 in. east. Temperatures dropped 5° to 10° subnormal by midweek, recovered over the weekend, but east finished week averaging 4° subnormal. After longest period without rain in past year, soil moisture supply many areas now short. Farm work rapid. About 20% of all types of tobacco harvested, about normal; condition varied: a few fields quite good; many lowland fields poor. Most soybeans good, developed rapidly; however, large acreage late plantings will probably reduce overall yield. Soybeans: 50% of fields setting pods, only 10% have not bloomed. Corn statewide could use rain but only late planted corn suffered from dry weather. Late corn is firing and ear worms causing considerable damage. Corn 5% mature, less than 50% dented, and 75% dough stage, normally 20% mature, 70% dented, and nearly in or past dough stage. Most cotton plants have set bolls, 1 to 2 weeks behind normal. Rain needed to complete development of crop. Boll weevils and Boll worms increasing at rapid pace, controls necessary.

TEXAS: Cool nights, hot days. Morning lows 2° to 5° subnormal statewide; average temperatures west, north 2° to 3° above normal with afternoon highs becoming 5° to 10° above normal Thursday. Wichita Falls hottest at 107° Thursday. Readings retreated to near normal Sunday. Precipitation subnormal statewide. Harvesting behind 1972 schedule for most crops. Dry weather in Lower Rio Grande Valley allowed farmers to resume cotton harvest. Rice and peanut harvest slow. Corn and sorghum harvest beginning low plains. Early fields of wheat planted on high plains. High Plains: Onion harvest virtually complete. Most potato sheds closing Hereford area but shipments will continue other plains areas. Pepper and cucumber harvest continued. Light supplies cabbage still available. Cantaloupe, carrot harvest started. Lettuce crop about 2 weeks behind normal--first cutting expected about October. Trans-Pecos: Most onions dug but some still field sacked. North Texas: Cantaloupe, watermelon harvest continued, volume heavy. Central and East Texas: Late melons near end. Dryland sweet potatoes being dug. Coastal Bend and San Antonio-Winter Garden areas: Ground preparation

for fall vegetables continued. Lower Rio Grande Valley: Ground preparation active. Seeding of fall vegetables active as fields dry. Fall tomato, pepper crops showed good progress. Pecans show above normal drop most areas due to casebearers, scab and dry weather, particularly in central Texas. Citrus crop continued excellent. Major crops percent harvested: cotton 4, 1972 12; corn 9, 1972 33; sorghum 38, 1972 40; peanuts 9, 1972 15; rice 40, 1972 88.

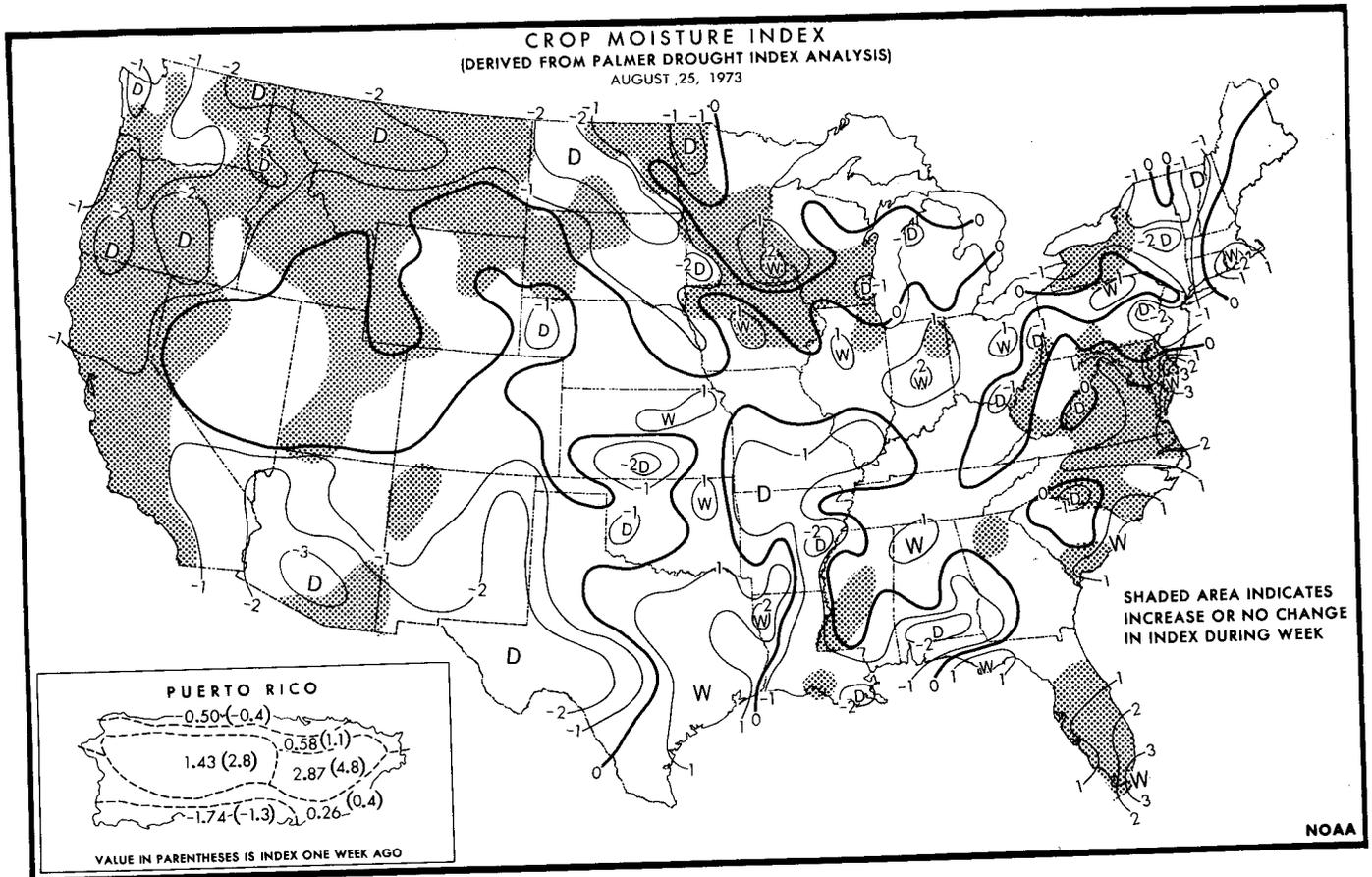
UTAH: Scattered showers and thunderstorms first half most sections with locally heavy rainfall; last half generally dry. Temperatures 1° to 6° above normal. Harvests of all crops progress well. Grain yields poorer than expected. Planting winter wheat for 1974 just started few early areas. Harvest alfalfa seed started Millard and Box Elder Counties, yield prospects only fair. Winter wheat 95% harvested, spring wheat 75%, oats 70%, barley 85%. Harvest 70% completed for sweet corn and snap beans, about 10% for tomatoes. Range feed still fair to good on summer rangelands; fall, winter range feed prospects good. Cattle and sheep thriving.

VIRGINIA: Subnormal temperatures through week. Showers and thunderstorms to midweek. Locally heavy rains over central and north Tuesday. Slow clearing during late week. Extremes: 92°, Amelia and Washington National Airport; 48°, Chilhowie and Harrisonburg. Soil moisture replenished. Corn silage cutting active east of mountains. Limited grain harvest in Tidewater 1% complete. Sprayed soybean insects. Topped and applied sucker controls to burley tobacco, 5% cut, same as 1972. Flue-cured pulling and curing in full swing with 38% harvested. Dark-fired 18% and sun-cured 10% harvested. Harvested processing tomatoes, watermelons, and cabbage. Irish potato digging limited. Started digging sweet potatoes. Peanuts sprayed. Cut hay. Pastures improved. Picked peaches and early apples.

WASHINGTON: West: Temperatures 5° subnormal. Precipitation near zero. Green pea harvest complete, good crop. Silage, cannery corn making ears. Vegetable harvest continued. Planting fall seed crops, cabbage, flower bulbs underway. Pastures poor non-irrigated areas. Hay crop short, straw being baled. Supplemental feeding cattle underway. East: Temperatures 3° subnormal. Precipitation near zero. Picking prunes, pears, peaches underway. Harvest potatoes, mint continued. Some apple picking underway, major harvest expected soon. Hop harvest getting started. Barley, wheat harvest complete, yields down. Preparing for fall seeding. Summer fallow moisture extremely poor. Roughage supplies critically low; all available hay, straw being stored. Cattle culling continued. Fire danger high.

WEST VIRGINIA: Temperatures subnormal. Extremes: 89°, Clarksburg; 33°, Thomas. Showers midweek. Soil moisture mostly adequate. Cool, damp conditions delayed harvest. Field activities limited to about 3 days. Farmers harvested hay, clipped pastures and did general chores. Second cutting hay 50% complete. Tobacco needing sun, nearly 67% topped. Prospects very favorable for corn. Pastures and hay mostly good. Potatoes nearly 25% harvested. Vegetables plentiful.

WISCONSIN: Temperatures near normal. Cooler early week; warm, humid by weekend. Temperatures in 90's Sunday southern two-thirds. Warmest weather of season southeast. Rainfall heavy many westcentral



SHADED AREAS: Index increased or did not change 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

UNSHADED AREAS: Index decreased last week

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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counties. Substantial rain, with little runoff. Beneficial rain over much of southern half. Oats 75% harvested, 1972 45%, normal 85%. Considerable acreage yet to harvest in north and east. Late oat yields poor. Second crop hay 70% harvested, 1972 52%, normal 75%. Second crop short due to lack of moisture. Pastures improved but condition well below 1972. Early corn made good progress. Later corn needs time, warm weather and in some areas additional moisture. Soybeans developed well although lack of moisture was becoming problem locally. Tobacco topping continued with some harvesting. Vegetable crops spotty depending on available moisture. Soil moisture 33% short, 61%

adequate, 6% surplus. More moisture needed parts of south.

WYOMING: Temperatures warm; averaged 3° to 8° above normal. Extremes: 41°, Kemmerer; 101°, Deaver. Scattered thundershowers amounted to less than 0.25 in. to 1.00 in. at Sundance. Harvesting small grains continued: Spring wheat 70% cut, barley 60%, and oats 55% harvested; about same as 1972. Second cutting alfalfa 55% cut. Corn mostly in milk stage or beyond. Some early windrowing of dry beans. Winter wheat 5% planted. Major activities: Harvesting hay and grain, planting winter wheat and irrigating.

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