

Weekly Weather & Crop Bulletin

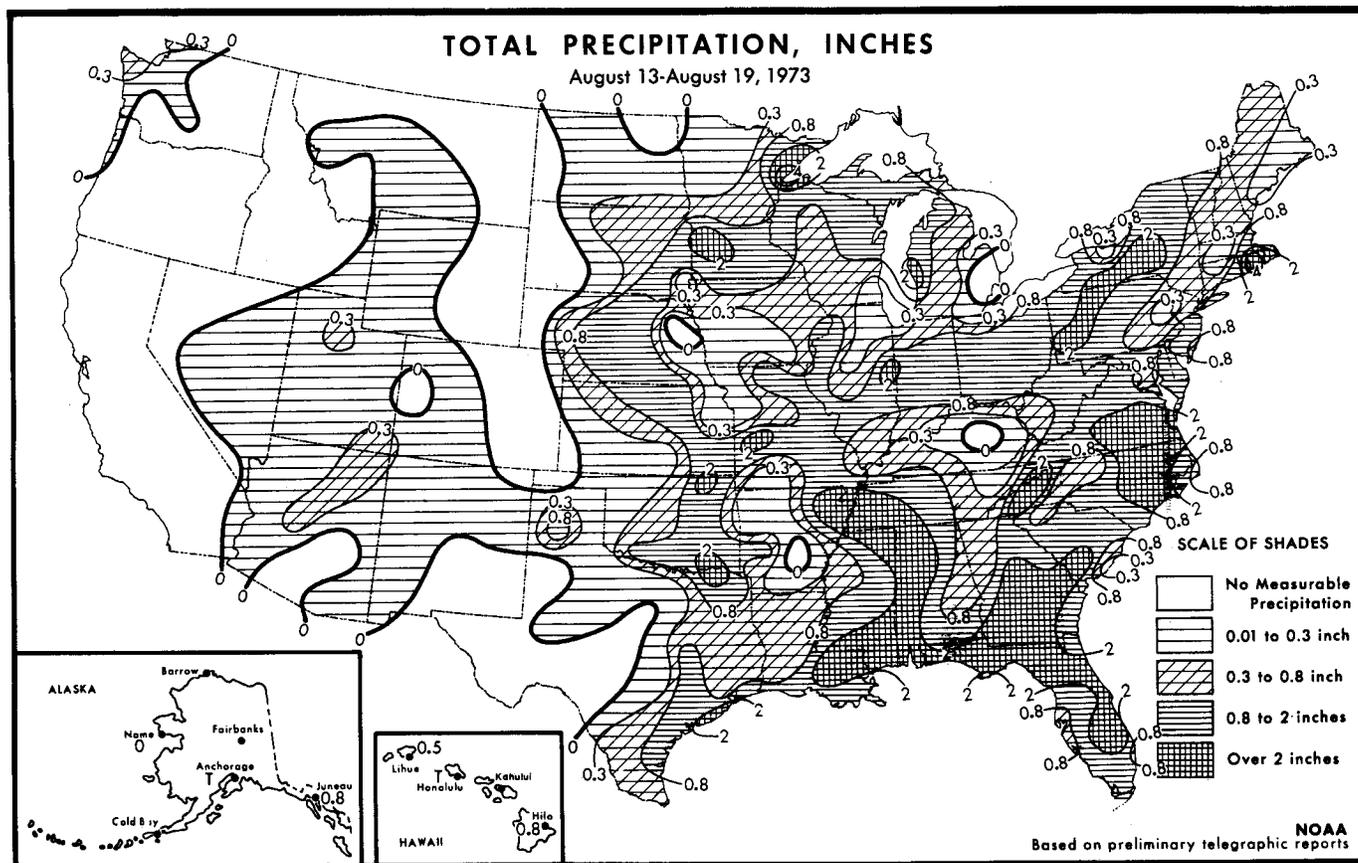
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: While thunderstorms roamed the East, the West stayed mostly dry. There were, however, some heavy thunderstorms over southwestern desert areas. Most of the East and Southwest stayed close to or somewhat below normal, while the Dakotas and Montana suffered a heat wave, which sent temperatures over 100° on 3 days.

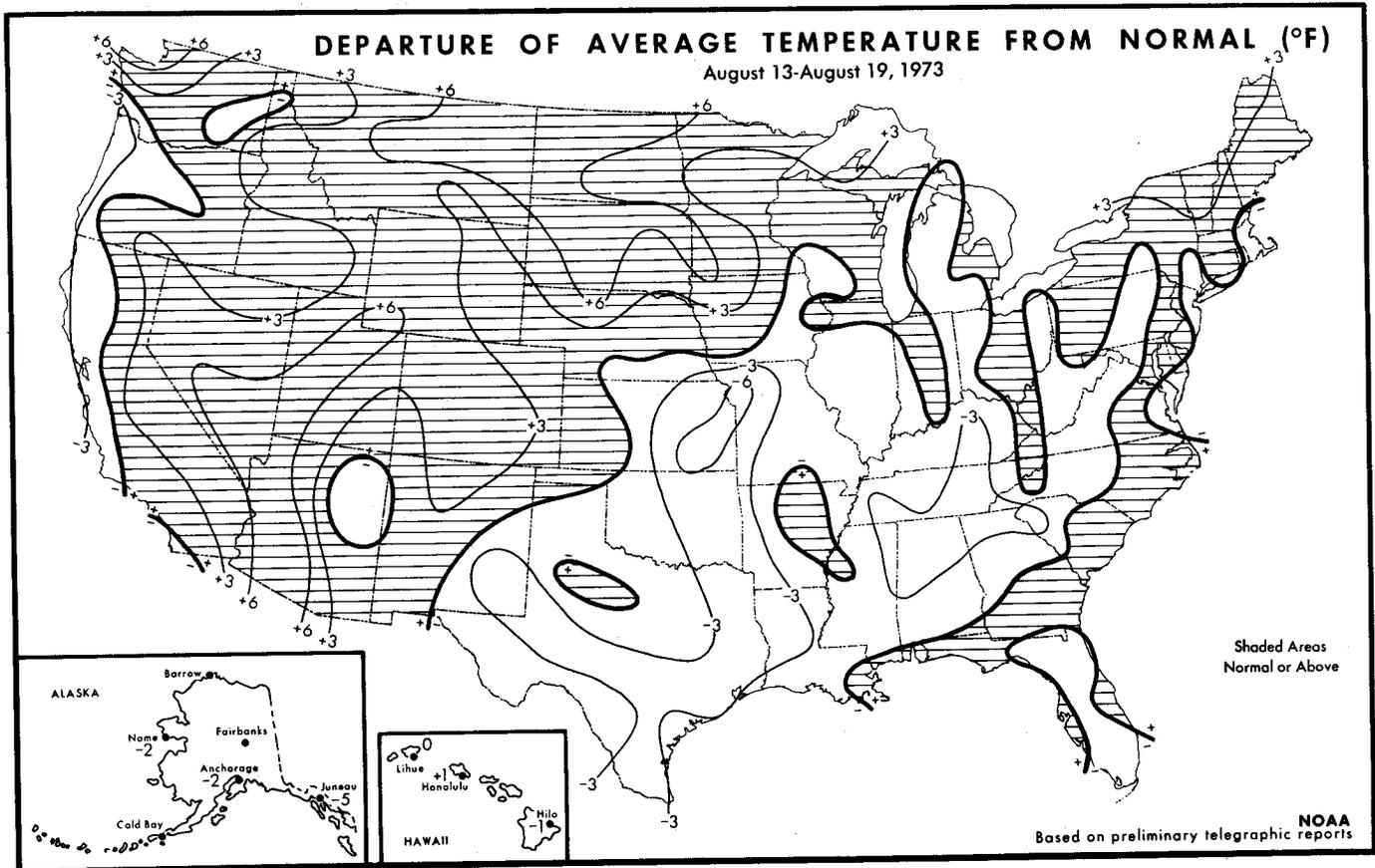
PRECIPITATION: East of the Rockies, summer storms dropped from 0.30 in. to 2.00 in. rain over most of the land. The Deep South had the largest patch of rain 2.00 in. or more. A quasi-stationary front lingered from Virginia to Texas for a few days. A strong Atlantic High circulated warm, moist air over the cooler air mass behind the front. Successive low pressure centers rippled along the front causing severe weather.

While the West remained mostly dry, scattered

thunderstorms did drop some moisture, notably around Salt Lake City, Utah, and in a strip running from Arizona into Utah.

Early Monday two bands of thunderstorms roamed the Nation—one from central Atlantic Coast to eastern Kansas, the other from Minnesota to eastern Colorado. The central Plains had the heaviest storms: Russel, Kansas got 2.50 in. rain in 6 hours along with hailstones 1.50 in. thick. Later, Monday was mostly fair; however, severe weather struck scattered places. It hit Birmingham, Ala., worst with baseball-sized hail.

Tuesday a cool High ended most north and central Plains severe weather, but to the south and west, winds and hail struck. Winds up to 40 mph struck Texarkana, Ark., while they blew in gusts up to 85 mph at an airport near Denver, Colo. To the east, Du Bois, Pa., was drenched with a 3.17 in.



rain. Thunderstorms, however, were most numerous in the South, where Birmingham, Ala., got 1.62 in. rain.

Wednesday sunshine reigned across most of the Nation. Scattered storms did strike mainly in the South and East: Columbus, Ga., 1.58 in. rain; Cocoa Beach, Fla., 1.45 in; Ft. Dix, N.J., 1.26 in. Tulsa, Okla., measured 1.75 in. rain, while close by at Tahlequah lightning set fire to a house and felled a tree, killing a child. Late Thursday thunderstorms also hit desert areas of the southern Plateau, causing flash flooding.

Friday again was sunny with scattered showers. Palacios, Tex., and New Bern, N.C., were both soaked with 1.50 in. rains, while Daytona Beach, Fla., got 1.11 in.

Saturday a stagnant, nearly becalmed airmass, stalled east of the Mississippi Valley, reduced visibilities. But it did not inhibit thunder-shower activity, which ranged in a wide arc through the Great Lakes, Atlantic Coast, and Gulf regions.

On Sunday, thundershower activity dimished; while the sun shone most places, extensive clouds shrouded the Great Lakes and storms moved into the Appalachians.

TEMPERATURE: Most of the West and northern Plains sizzled in temperatures 3° to 6° above normal. The Dakotas and Montana, in particular, suffered a heat wave from Thursday on. Philip, S. D., hit

103° Thursday, while Galsgow, Mont., reached 102°, breaking a record for that date. Elsewhere in the three States, the mercury attained 100°, shattering numerous records.

In contrast, the West Coast, parts of southern and central Plains, and most areas east of the Mississippi stayed within 3° of normal. Parts of Kansas and Missouri fell 6° below the weekly norm, while areas in the Deep South and southern Plains were 3° or more subnormal.

Monday morning temperatures ranged between the 50's on the north and central Pacific Coast to the 70's between the northern Plains and the Atlantic. Tuesday morning they dropped into the 60's in New England and the 50's and 40's over the northern Mississippi Valley. However, Tuesday was a hot day over most of the Nation.

Wednesday morning temperatures fell to record lows in the southwest and southern Plains. Austin, Tex., reached 48°, a record low, as did Evanston, Wyo., 41°. Sunshine again rebounded temperatures to seasonal norms throughout the Plains, and afternoon highs broke 90° all the way to the Canadian Border.

Extreme temperatures prevailed throughout Montana and the Dakotas for the next few days, despite an invasion of cool air into the Pacific Northwest. While the mercury passed 100° Saturday in the Dakotas (Bismark, N.D., hit 104° for a record), frost settled into Washington and Oregon that night. Sunday was cooler in the Dakotas; Bismark reached 82°, 22° cooler than the day before.

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Small grain harvest continued its rapid advance, and stayed well ahead of normal.

Good rains throughout the Corn Belt and the South helped corn, soybeans, and cotton.

SMALL GRAINS: Dry weather helped the small grain harvest retain its more rapid than normal pace. Winter wheat is virtually all harvested in Colorado and Wyoming; harvest peaked in Idaho, and is 85% complete in Montana, and active in Oregon. North Dakota progressed moderately while Minnesota is nearly complete.

Spring wheat harvest stayed ahead of normal, 40% complete in Montana and Idaho, and 40% more stands ripe in the fields. Minnesota's and Utah's spring crops are about 50% harvested.

Oat harvest is over in Illinois, South Dakota and Ohio, 55% complete in Wisconsin, and 71% complete in Minnesota and Michigan.

CORN: Good rains blessed the Corn Belt last week except for an Iowa-Nebraska area. These rains plus near normal temperatures helped growing corn. Condition runs generally good to excellent in the Corn Belt but local areas in Illinois, Wisconsin, Iowa, Missouri, and Nebraska suffer depleted top-soil moisture. Although corn progressed well last week, development still remained behind last year.

Development equals or outpaces normal in Minnesota, South Dakota, and Nebraska. In Illinois, 75% of the crop stands in the dough stage compared to 73% in 1972 and 84% normally.

Some harvest began in North and South Carolina, Georgia, Florida, Alabama, and Louisiana.

COTTON: Rain helped cotton last week especially in parts of Tennessee and Mississippi. Much of Arkansas still needs rain. Although the crop progressed rapidly and fruited heavily, it remains only in fair to mostly good condition and its development runs later than normal.

Boll set is heavy, ranging from 70% in Oklahoma to 100% in Alabama, Louisiana, and South Texas. Farmers applied insect and pest controls, especially in North Carolina, Tennessee, Alabama, and Arkansas, as bollworm numbers increased.

Rain slowed harvest South Texas. Some bolls are opening in South Carolina, Georgia, Arizona, and California.

SOYBEANS: Soybeans grew well last week. General rains fell across much of the soybean producing area and helped them.

The Corn Belt crop is mostly good, and is generally ahead of normal. Leaves have started yellowing in Minnesota, Iowa, and Nebraska. Top-soil moisture in parts of Iowa and Nebraska are

becoming depleted but the crop remains fair to excellent. Kansas and Missouri soybeans still lag behind normal.

Illinois, the soybean leader, is rated mostly good. Pods set on 65% of its acreage, compared with 81% last year and 89% normal. In Ohio, the crop stands fair and develops well behind average.

In the South, most fields are in good condition; most have bloomed and pods have set in early fields. The crop had rapid growth but it lags behind normal.

OTHER CROPS: Rains slowed hay making last week but second cuttings are 60% harvested in Wisconsin and progressing in Minnesota. Nebraska's third cuttings were 75% in with fourth begun but baling wire was scarce.

Most Texas sorghum headed and 37% was harvested, slightly behind 1972. Nebraska's sorghum stood 15% yellowed and Kansas was 5% yellowed. Both States were behind normal.

Peanut digging got underway in Georgia and Texas.

High temperatures slowed eastern potato development, while harvest started in southwest Idaho. Maine crop developed well due to timely rains.

Rice harvest lags at 25% complete in Texas versus 80% 1972. Louisiana sweet potatoes were 25% dug with yield and quality good.

Fruits and Nuts: New England fruit crop appears good but more moisture is needed in the west New York apple area. Pennsylvania apple and peach harvest was active, but fruit lighter than expected.

Californians expect a light pecan crop. Insects, scab, and mildew severely damaged the crop. The fresh grape harvest nears climax at Fresno, California.

Vegetables: Harvest of summer vegetables was active in the North Atlantic and Great Lakes area. Farmers actively harvested summer vegetables. New York snap bean harvest peaked. Pennsylvania cabbage harvest started, but blackleg cut yields and quality. Texas watermelon and cantaloupe harvest increased in north but slackened in central and east. Californians actively harvested sweet corn and farmers planted early fall vegetables in Arizona's Salt River Valley.

PASTURES AND LIVESTOCK: Rains aided growth of pastures last week and most are fair to excellent. Only northwest pastures remained dry and suffered. Wisconsin pastures improved but continues below 1972. Livestock fared well, but some ranchers in South Dakota and California fed supplements.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Aug. 19, 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 . . .	77	- 4	2.6	+1.4	La.Baton Rouge . . .	81	- 2	2.1	+1.0	Youngstown . . .	69	- 2	1.0	+ .2
Mobile	82	0	2.1	+ .7	Lake Charles . . .	80	- 2	.5	- .6	OKLA.Okla. City . . .	81	- 2	1.5	0
Montgomery	81	- 1	.4	- .6	New Orleans . . .	83	+ 1	1.4	+ .2	Tulsa	78	- 4	1.9	+1.2
ALASKA.Anchorage . .	54	- 2	T	- .6	Shreveport	79	- 5	.4	- .2	OREG.Astoria	56	- 5	T	- .3
Barrow	---	---	---	---	MAINE.Caribou . . .	66	+ 3	.5	- .3	Burns	68	0	0	- .1
Fairbanks	---	---	.8	+ .2	Portland	69	+ 1	.1	- .4	Medford	73	+ 2	0	0
Juneau	50	- 5	.8	- .3	MD.Baltimore	76	+ 1	1.4	+ .2	Pendleton	73	+ 1	T	- .1
Kodiak	53	- 2	0	---	MASS.Boston	69	- 3	1.2	+ .4	Portland	65	- 2	T	- .2
Nome	---	---	---	---	Chatham	67	---	1.5	---	Salem	63	- 3	T	- .1
ARIZ.Flagstaff	67	+ 3	.5	- .2	MICH.Alpena	66	+ 1	.6	- .1	PA.Allentown	74	+ 2	.3	- .8
Phoenix	96	+ 8	T	- .2	Detroit	72	+ 1	T	- .6	Erie	68	+ 1	1.2	+ .5
Tucson	86	+ 3	.1	- .6	Flint	69	0	0	- .7	Harrisburg	74	- 1	1.5	- .3
Winslow	76	- 2	.3	0	Grand Rapids	70	- 1	.4	- .2	Philadelphia	76	+ 2	.9	- .2
Yuma	96	+ 4	.3	+ .2	Houghton Lake	66	0	.4	- .2	Pittsburgh	72	+ 1	2.4	+1.7
ARK.Fort Smith	79	- 4	.1	- .5	Lansing	71	0	.4	- .3	Scranton	70	0	.5	- .3
Little Rock	82	+ 1	T	- .7	Marquette	69	+ 2	1.0	+ .3	R.I. Providence	71	0	4.2	+3.3
CALIF.Bakersfield . . .	83	+ 1	0	0	Muskegon	70	- 1	2.2	+1.6	S.C. Charleston	83	+ 3	.2	-1.3
Eureka	54	- 3	T	0	S. Ste. Marie	65	0	.2	- .4	Columbia	82	+ 1	.9	- .4
Fresno	83	+ 4	0	0	MINN.Duluth	65	+ 1	4.2	+3.3	Greenville	76	- 3	.5	- .6
Los Angeles	75	+ 2	0	0	Internatl Falls	69	+ 5	.1	- .7	S.D. Aberdeen	78	+ 6	.4	- .1
Red Bluff	80	- 1	0	0	Minneapolis	74	+ 3	1.2	+ .5	Huron	77	+ 4	.8	+ .3
San Diego	71	- 1	0	0	Rochester	71	+ 1	.8	0	Rapid City	77	+ 4	0	- .4
San Francisco	60	- 3	0	0	St. Cloud	70	+ 1	.3	- .5	Sioux Falls	78	+ 5	.2	- .6
Stockton	78	+ 2	0	0	MISS.Jackson	81	- 1	1.5	+ .7	TENN.Chattanooga	77	- 4	.8	0
COLO.Denver	75	+ 3	T	- .3	Meridian	80	- 2	1.9	+1.1	Knoxville	75	- 3	.2	- .6
Grand Junction	79	+ 3	T	- .3	MO.Columbia	75	- 1	.6	- .2	Memphis	79	- 2	2.9	+2.2
Pueblo	79	+ 4	0	- .4	Kansas City	75	- 6	T	- .9	Nashville	78	- 2	.9	+ .3
CONN.Bridgeport	73	0	.8	- .2	St. Louis	75	- 2	1.2	+ .5	TEX.Abilene	84	0	.2	- .1
Hartford	73	+ 2	.1	- .8	Springfield	77	- 1	.2	- .5	Amarillo	79	- 1	.9	+ .3
D.C.Washington	79	+ 2	.4	- .7	MONT.Billings	76	+ 3	T	- .2	Austin	81	- 4	T	- .4
FLA.Apalachicola	83	+ 1	2.0	+ .4	Glasgow	77	+ 9	T	- .3	Beaumont	79	- 3	1.0	- .2
Daytona Beach	81	0	2.2	---	Great Falls	75	+ 8	T	- .3	Brownsville	81	- 3	.4	- .2
Ft. Myers	83	0	.9	- .8	Havre	73	+ 5	T	- .3	Corpus Christi	82	- 3	.9	+ .2
Jacksonville	82	- 1	1.7	+ .2	Helena	71	+ 4	0	- .2	Dallas	84	- 2	0	- .3
Key West	83	- 1	1.6	+ .7	Kalispell	65	+ 1	0	- .3	Del Rio	81	0	T	- .3
Lakeland	81	- 2	1.2	- .4	Miles City	79	+ 6	T	- .3	El Paso	81	0	T	- .3
Miami	82	- 1	1.4	- .1	Missoula	69	+ 4	.1	- .1	Fort Worth	85	- 1	T	- .4
Orlando	84	+ 1	1.1	- .5	NEBR.Grand Island	77	+ 1	1.3	+ .8	Galveston	81	- 3	2.4	+1.4
Tallahassee	81	0	2.5	+1.0	Lincoln	76	- 2	.2	- .5	Houston	80	- 3	.6	- .4
Tampa	83	0	.8	-1.1	Norfolk	78	+ 2	T	- .6	Lubbock	79	0	0	- .4
W.Palm Beach	83	0	.7	---	N.Platte	76	+ 1	1.6	+1.1	Midland	79	- 4	.1	- .2
GA.Atlanta	77	- 2	.5	- .3	Omaha	76	+ 1	T	- .9	San Angelo	83	- 3	0	- .3
Augusta	79	- 1	1.0	+ .1	Valentine	79	+ 6	.2	- .4	San Antonio	82	- 3	1.1	- .4
Macon	81	0	2.7	+1.7	NEV.Ely	72	+ 5	.2	+ .1	Victoria	82	- 2	1.7	+1.0
Savannah	82	+ 1	.8	- .6	Las Vegas	93	+ 6	T	- .1	Waco	85	- 1	.3	- .1
HAWAII.Hilo	75	- 1	.8	-1.8	Reno	69	+ 3	0	- .1	Wichita Falls	84	- 2	.1	- .3
Honolulu	81	+ 1	T	- .2	Winnemucca	71	+ 3	0	0	UTAH.Blanding	73	+ 2	.4	+ .1
Kahului	---	---	---	---	N.H.Concord	69	+ 1	.4	- .3	Salt Lake City	81	+ 6	.5	+ .3
Lihue	79	0	.5	0	N.J.Atlantic City	74	0	.7	- .5	VT.Burlington	71	+ 4	1.8	+1.0
IDAHO.Boise	75	+ 2	0	0	Trenton	73	- 1	1.0	- .1	VA.Lynchburg	75	0	3.0	+1.9
Lewiston	75	+ 3	0	- .1	N.MEX.Albuquerque	79	+ 3	.1	- .2	Norfolk	78	0	2.1	+ .9
Pocatello	73	+ 2	T	- .1	Roswell	72	- 5	0	- .4	Richmond	77	0	2.0	+ .7
ILL.Cairo	78	- 2	.3	- .4	N.Y.Albany	71	0	.4	- .3	Roanoke	75	- 1	1.0	- .1
Chicago	76	+ 2	T	- .7	Binghamton	66	- 1	1.2	+ .4	WASH.Colville	66	- 1	T	- .2
Moline	74	0	1.0	+ .2	Buffalo	70	+ 1	.8	+ .1	Omak	67	- 2	0	- .1
Peoria	74	- 1	.1	- .5	New York	73	- 3	.2	-1.0	Quillayute	54	- 6	.6	+ .1
Rockford	73	0	.1	- .8	Rochester	71	+ 1	.1	- .5	Seattle-Tacoma	60	- 5	.2	0
Springfield	75	- 1	.4	- .2	Syracuse	71	0	2.4	+1.7	Spokane	68	0	T	- .1
IND.Evansville	77	- 1	.4	- .3	N.C.Asheville	74	0	3.6	+2.7	Walla Walla	74	0	0	- .1
Ft. Wayne	71	- 2	.8	+ .1	Charlotte	77	- 2	.9	- .1	Yakima	68	- 1	T	0
Indianapolis	74	0	1.3	+ .6	Greensboro	75	- 2	.5	- .6	W.Va.Beckley	69	- 1	1.2	+ .3
South Bend	74	+ 2	.4	- .4	Hatteras	80	+ 2	.4	-1.1	Charleston	74	0	.4	- .6
IOWA.Burlington	74	- 1	.3	- .5	Raleigh	77	0	2.0	+ .8	Huntington	75	+ 1	.3	- .4
Des Moines	76	+ 1	.1	- .6	Wilmingon	83	+ 3	.9	- .6	Parkersburg	73	- 2	1.4	+ .5
Dubuque	72	+ 1	.4	- .4	N.DAK.Bismarck	75	+ 5	T	- .4	WIS.Green Bay	71	+ 2	1.1	+ .5
Sioux City	78	+ 2	.5	- .1	Fargo	73	+ 3	T	- .7	La Crosse	71	- 1	.7	- .1
KANS.Concordia	77	- 3	1.7	+ .9	Williston	77	+ 8	0	- .4	Madison	69	- 1	.4	- .3
Dodge City	82	+ 2	.1	- .5	OHIO.Akron-Canton	72	0	.9	+ .2	Milwaukee	70	+ 2	.2	- .5
Goodland	77	+ 2	.3	- .3	Cincinnati	73	- 1	1.0	+ .2	WYO.Casper	73	+ 2	T	- .2
Topeka	75	- 4	.2	- .8	Cleveland	71	0	1.6	+ .9	Cheyenne	70	+ 2	T	- .3
Wichita	77	- 5	.2	- .5	Columbus	74	0	1.2	+ .5	Lander	73	+ 3	.2	+ .1
KY.Lexington	74	- 3	T	- .7	Dayton	74	0	1.4	+ .7	Sheridan	73	+ 4	T	- .2
Louisville	76	0	.2	- .5	Toledo	70	- 1	T	- .8	P.R.San Juan	82	+ 1	2.5	+1.1

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: Scattered thundershowers, heaviest Friday westcentral up to 2.50 in. Demopolis Tuscaloosa area. Little change temperature except slightly cooler nights north weekend. Prospects cotton, corn, soybeans, peanuts favorable. Rain needed few localities to maintain good potential. Nearly all cotton setting bolls. Growers continue insect control measures as counts high many fields. About 60% corn in or beyond dent with 25% matured, mainly south and central. Light grain harvest underway south. Development soybeans favorable 75% blooming, 40% setting pods. First peanut diggings several counties, will gain momentum soon. Much quality hay saved. Showers slowed cutting, recent moisture will aid late cutting.

ALASKA: Precipitation Matsu Valley, Tanana Valley and Kechikan Peninsula heavy early. Absence of rain rest of week resulted in near normal or subnormal totals. Precipitation at Kodiak quite low. Abundant sunshine middle on was good news. Light frost damage to some vegetables railbelt. Small amount second hay cutting has occurred. Silage harvest underway. Barley combining expected to begin soon. Adequate soil moisture.

ARIZONA: Moist, unstable, hot air present. Thunderstorms most days producing winds, blowing dust, some flash flooding. Temperatures 3° to 7° above normal except northeast and northcentral which was normal. Cotton fair to good, 100% setting bolls Yuma, Pima, Pinal Counties, 85% Maricopa, Cochise Counties, 60% Graham County. Open bolls Yuma, Pinal Counties. Insect controls applied. Sorghum growth, development good. Harvest continues Yuma County. Insect controls applied Pinal, Graham Counties. Sugar beets satisfactory, preplant activity Yuma area. Alfalfa hay harvest continues. Planting fall lettuce underway, Salt River Valley. Cochise County fall lettuce virtually planted. Land preparation fall lettuce active Yuma area. Early fall vegetables planted Salt River Valley. Citrus harvest completed Maricopa County. New crop fruit sizing well, condition fair to mostly good. Non-desert ranges good summer grazing, adequate stock water. Lower elevation ranges need rain for stock water, promote growth, new feed. Desert ranges limited grazing. Cattle, calves fair to mostly good. Sheep, lambs fair to good.

ARKANSAS: Mostly dry. Rainfall south and parts southwest, northwest, northeast 0.50 in. to 1.50 in. Temperatures 0 to 5° subnormal, especially northcentral. Extremes: 98° Calico Rock; 56° Fayetteville. Soil moisture short central and southwest. Irrigation continues. Cotton good, heavy fruiting and boll setting. Insect infestation increasing, but less than normal. Spraying active. Rice growing rapidly, early varieties heading and maturing. Soybeans good, early crop setting pods, midseason beans blooming. Late beans small, need rain. Corn rapidly maturing. Sorghum good. Haying active. Peach harvest near end. Apple picking continues. Grape harvest underway. Okra, watermelon, cantaloupe harvest active. Pasture mostly good, need moisture. Cattle in good condition.

CALIFORNIA: Continued mostly hot dry inland but temperatures near or slightly subnormal north and

central coasts. Southern San Joaquin Valley and desert southeast averaged several degrees above normal. Scattered thundershowers southeast desert, south coast and southern Sierra early. Continued southern Sierras midweek and over desert latter part. Harvest late small grains ending. Land preparation for fall planting started. Safflower harvest active, low yields few areas. Alfalfa hay cutting active, some army worm damage. Harvest sugar beets well underway San Joaquin Valley, good development Sacramento Valley. Corn did well, some chopping for silage. Milo in various stages maturity. Cotton favorable, good boll set. Irrigation many fields last time. Mite control underway. Rice looked very good, fields heading out and some drained. Dry beans maturing some areas. Alfalfa and Ladino clover seed maturing, cutting began. Fresh grape harvest near peak Fresno. Tonays packed Lodi, Thompson seedless to raisins, Fresno. Some starling damage. Late varieties plums, peaches, nectarines being harvested. Apple harvest Watsonville. Mites serious infestation in almonds. Broccoli and cauliflower normal Salinas. Cantaloupe light San Joaquin. Carrots decline Salinas. Celery continue Salinas. Sweet corn active south, Fremont. Honeydew active Sacramento. Lettuce light but increased Salinas; light Santa Maria. Potato active Stockton Delta, increased Santa Maria. Fresh market tomato declined central valley. Processing tomato increased San Joaquin, Sacramento Valleys. Watermelon near end Bakersfield, normal San Joaquin. California range feed adequate, but declined. Fire hazard extremely high. Supplemental feeding active. Irrigated pastures holding well. Livestock good to excellent, supplemental feeding active. Movement livestock very slow because of prices. Sheep still on stubble irrigated valleys. Stock water supplies adequate, declining rapidly. Milk, eggs fell off seasonally.

COLORADO: Hot and dry with isolated thunderstorms. Temperatures reached the 100° mark in the southeast, hottest was 104° at La Junta. Coolest was Fraser at 29°. Extreme northeast had 0.33 in. moisture. Elsewhere sparse precipitation except a heavy thundershower of over 1.00 in. at Pueblo. Harvest active spring crops, hay and vegetables with hot, dry weather. Oats 70% combined, spring barley 62% cut. Sorghum good to excellent, 58% headed, 82% 1972. Corn good to excellent, 95% tasseled, 79% silked, some dough. Summer potato harvest 20% completed. All potatoes good to excellent. Dry beans and sugar beets good to excellent. Second crop alfalfa 75% cut; third cutting 12%, some insect damage. Pastures and ranges providing good forage, but moisture needed. Livestock good to excellent.

FLORIDA: Normal temperatures, scattered showers. Rainfall very light to mostly moderate. Soil moisture adequate to excessive. Crop development good. Soybeans good but hurt by excessive moisture some areas. Corn condition good harvest well underway. Peanuts condition good, some fields grassy. Sugar-cane good condition. Tobacco marketing active. Haying continues as weather permits, pastures good to excellent. Cattle and calves good to excellent condition. Land preparation and early planting fall vegetables active. Snap beans, cucumbers,

squash planting in south light. Celery, sweet corn, eggplant, pepper, tomato planting increasing sharply. Seedlings of leaf crops and radishes start. No cabbage planting. Citrus trees excellent, moisture ample, new crop fruit sizing well. Valencia harvest near end.

GEORGIA: Temperatures near normal, warm early then slightly cooler at end. Rainfall moderate except sparse eastcentral, dry weekend. Soil moisture mostly adequate, short locally eastcentral. Corn mostly good, some counties expecting record yields. Cotton late but good, 95% setting bolls, some open. Tobacco harvest near complete. Peanuts good, digging started. Soybeans good, early crop blooming and setting pods. Peach harvest near end. Haying active. Apple harvest increasing. Pastures, cattle good condition.

HAWAII: Weather continued dry, only light showers. Irrigation in heavy use. Crop progress fair to good. Vegetable supply adequate. Bananas in heavy supply. Papaya production steady. Forage feed in leeward pastures-very low. Supplementary feeding and water hauling necessary. Sugar and pineapple harvesting continues active.

IDAHO: Above normal temperatures, maxima from 103° at Orofino to 87° Ashton; minima from 60° to 35° at Tetonia and Fairfield. Thundershowers brought light precipitation to parts of northcentral mountains and valleys, elsewhere continued dry. Harvesting of small grains and second cutting alfalfa hay at peak. Winter wheat 60% complete, spring wheat 40%, barley 50%. Irrigated crop growth satisfactory. High temperatures slowing potato development east. Potato and onion harvest starting southwest. Early prune and pear harvest underway. Dry peas and lentils harvest near end. Forage supplies short dry northern areas. Fire danger extremely high range and forest areas.

ILLINOIS: Temperatures slightly subnormal; high temperatures mostly 80's, lowest 60's. Precipitation moderate 0.50 in. to 1.00 in. early, little later. Corn 20% excellent, 64% good, 16% fair; 1972 86% good or excellent. About 75% dough, 73% 1972, average 84%. Dent stage 30%, same 1972, average 41%. Soybean 18% excellent, 63% good, 18% fair, 1% poor; last year 90% good or excellent. About 88% blooming, 95% 1972, average 98%. Pod set 65%, 81% 1972, average 89%. Third crop alfalfa hay good to excellent, 25% cut, 15% 1972, average 30%. Plowing winter wheat 55% complete, 39% 1972, average 47%. Pasture 28% excellent, 56% good, 15% fair, 1% poor. Soil moisture 21% short, 70% adequate, 9% surplus. Suitable fieldwork days 4-1/2. Activities cutting and baling hay, plowing for winter wheat, controlling weeds.

INDIANA: Temperatures near normal. Damaging rains early Huntington County, amounts to 5.00 in. Central had 2.70 in., least northwest and southeast with 0.80 in. Suitable fieldwork days 3. Topsoil and subsoil moisture adequate. Oats 95% combined, 10 days behind normal. Wheat land 35% plowed, average same. Corn 60% in or past dough, 15% dented, slightly behind normal. Soybeans 70% podded, same 1972. Alfalfa hay 80% cut twice. Pastures remain fair to good.

IOWA: Temperatures slightly above normal, precipitation light and scattered. Crops mostly good to excellent. Fieldwork suitable 6 days. Corn 67% dough, 64% average. Corn 17% in or past dent, 5-year average 26%. Soybeans 82% setting pods,

same as average. Soybeans leaves turning 5% of fields. Some cloverworm damage central and south. Third crop alfalfa 28% harvested. Second cutting clover 61% harvested. Hay crops fair to excellent, mostly good. Pastures 2% poor, 16% fair, 47% good, 35% excellent. Topsoil moisture 22% short, 67% adequate, 11% surplus.

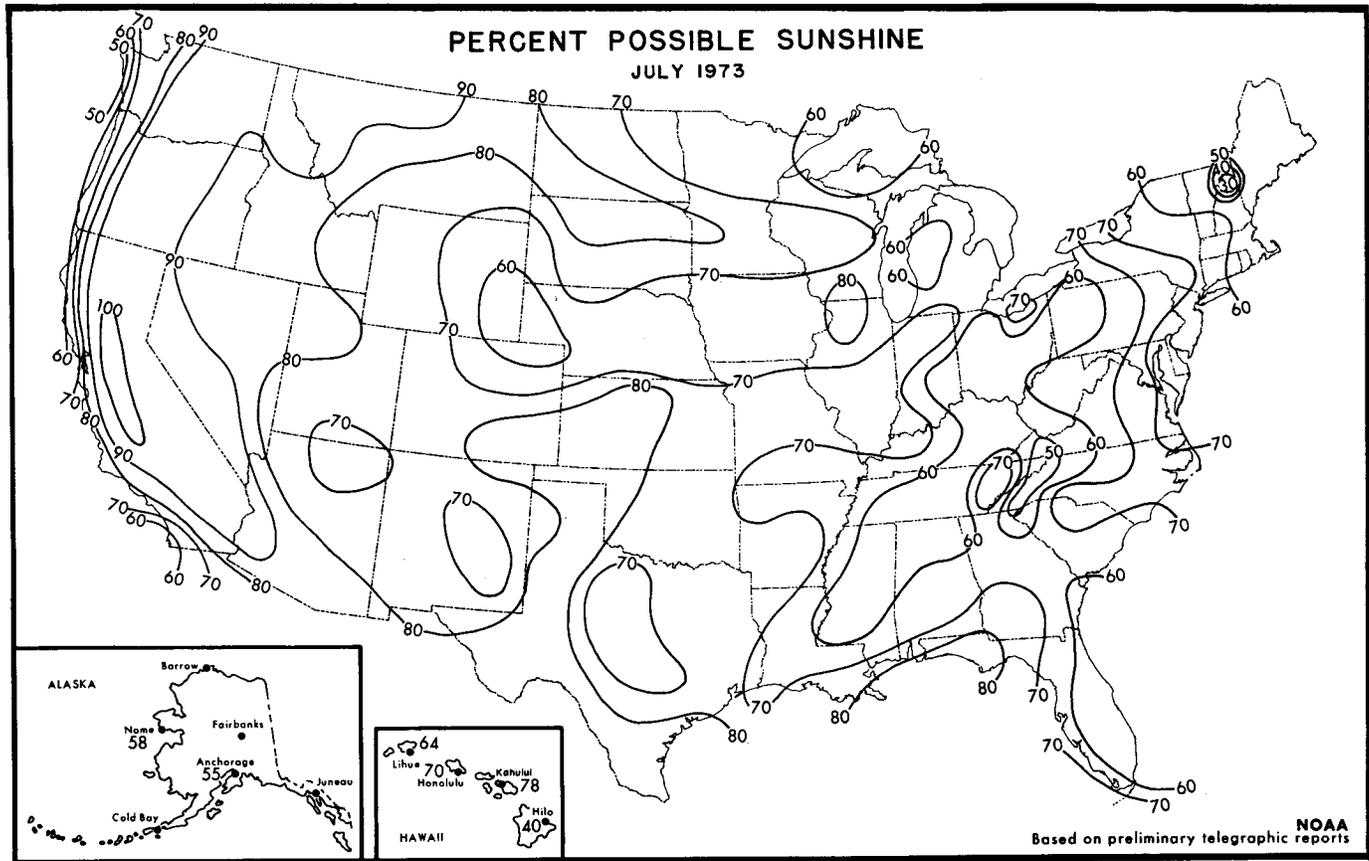
KANSAS: Scattered showers east and northcentral followed by fair, warmer weather. Rain most places but spotty southwest and southcentral, heaviest northeast and northcentral. Totals 2.00 in. to 4.40 in. at Troy and 3.67 in. at Holton. Temperatures 1° to 2° subnormal central and east to 2° to 3° above normal west. Highest over 100° southwest, 102° Garden City and Hutchinson. Row crops condition good. Sorghum 60% headed, 65% 1972 and average. Sorghum 5% turning color, 10% 1972, average 15%. Insect damage minor. Corn 65% dough, 75% 1972 and average. Corn dented 20%, 30% 1972, average 40%. Corn 5% mature. Soybeans 60% setting pods, 75% 1972 and average 70%. Third cutting alfalfa hay 65% harvested, same 1972, average 60%. Pasture and range good to excellent. Livestock marketings light. Fall wheat seedbed preparation active.

KENTUCKY: Showers statewide early and east mid-week, otherwise dry. Temperatures near normal. Fieldwork 5 days suitable. Soil moisture mostly adequate to short. Corn prospects remained excellent, 60% dough or dent, 75% 1972, almost none normal. Soybeans over 50% podded, latest since 1966, growing well. Burley 41% topped, 73% 1972. Crop improved slowly, cutting began. Darks also later than usual. Late hay harvest active, 3rd cutting alfalfa 67% complete, Lespedeza 33% done.

LOUISIANA: Temperatures normal to 5° below. Extremes: 64°, 96°. Scattered showers, heaviest southeast. Rain from 0.25 in. to 2.00 in. plus. Fieldwork work 4.2 days. Soil moisture adequate except northcentral and northeast. Cotton good, all setting bolls, spraying active. Early soybeans blooming and setting pods, fair to good. Rice harvest started but delayed by rains. Sugarcane good growth, planting started. Borer and tie vine control active. Corn harvest increased, early corn mostly mature. Sweet potatoes .25-30% dug, yield and quality good. Pecans prospects good, scattered insect and disease damage. Haying active when weather permits, rain damage in curing. Pastures above average. Land preparation for fall seeding active. Livestock good.

MARYLAND-DELAWARE: Temperatures 3° to 4° above normal. Extremes upper 90's to low 60's except upper 70's and low 50's Garrett County. Precipitation above normal except north Delaware and northeast Maryland. Corn good, dent 25%, 15% 1972, 33% average. Soybeans excellent, 50% podded, 30% 1972, 40% average. Corn silage harvest active, Tobacco harvest 25%, about average. Vegetable harvest continues. Watermelons peaking, cantaloupes nearly complete. Peach and apple harvest active.

MICHIGAN: Temperatures: Normal to 2° above upper and near normal lower. Rain: Generally 1.00 in. to 3.00 in. west lower to near 0.50 in. northeast lower and less than 0.25 in. southeast lower. Extreme southeast lower had hail over weekend. Upper rainfall totalled 1.00 in. to 2.00 in. Fieldwork progressed well. Soil moisture adequate to short Suitable fieldwork days 5.3. Corn and soybeans developed well. Corn 90% silked or past, 30% dough. Soybeans 76% setting pods. Early navy



beans ripened fast. Some pinto beans harvested. Oats 71% harvested, much lodging unharvested oats northern. About 60% 2nd cutting hay made. Pasture feed supplies near average. Summer apples over 50% harvested, peaches 25%. Summer vegetable harvest full swing. Pickle cucumbers over 70% harvested.

MINNESOTA: Temperatures normal to 4° above, highs late mostly 80's and low 90's, lows 50° to 60°. Precipitation 0.25 in. to 0.50 in. subnormal except normal northeast and southeast. Greatest 1-day rain; 2.29 in. Duluth. Dry week favored small grain harvest. Winter wheat and rye combining neared end, 1 week ahead of average. Spring wheat 50%, 73% oats, 81% barley, 28% flax combined. Fall crops remained good--in latter development stages, ahead of average. Nearly 33% corn dough stage, soybeans mostly podded, 4% of fields yellowed. Soil moisture mostly adequate except southwest, where corn and soybeans started to deteriorate. Fall haying progressed rapidly and fall plowing started.

MISSISSIPPI: Widespread thundershowers with temperatures near normal, extremes 59° to 100°. Soil moisture short to surplus, mostly adequate. Fieldwork suitable 4.7 days. Cotton, corn sorghum, sweet potatoes, pecan fair to good. Soybeans, rice, hay crops, pastures, livestock mostly good. Cotton setting bolls 98%. Soybeans blooming 60%, setting pods 35%. Corn 46% dough, 50% dented, sorghum 80% headed. Completion of harvest: peaches 98%, watermelons 80%, hay 75%, sweet potatoes 13%, and cucumbers 97%.

MISSOURI: Rain heavy southeast for second week; statewide 0.50 in. or more but central and west cen-

tral still subnormal for growing season. Temperatures near normal. Fieldwork 5 days. Corn, 58% dough, 22% dented, good condition; year ago 77% dough, 42% dented, fair to good condition. Soybeans 72% blooming, 42% setting pods, 73% setting pods 1972. Grain sorghum 74% headed, 85% 1972. Cotton 93% setting bolls. Third crop alfalfa 52% harvested, 63% cut 1972. Pastures fair to good. Soil moisture 32% short, 64% adequate, 4% surplus.

MONTANA: Continued dry and warm. Temperatures ranged 1° above normal west to 9° central and northeastern. Highest early, slight cooling later. Rain scarce, some west, central and southcentral. Winter wheat 85% harvested, 15% ready for harvest. Spring wheat 40% harvested, 45% ripe, 15% headed and turning. Barley 55% harvested, 35% ripe, 10% headed and turning. Soil moisture short, second cutting alfalfa 45% complete, wild hay 90%. Irrigation water short. Grazing prospects poor northwest, northcentral, central, poor to good elsewhere. Cattle movement from summer ranges light to moderate, heavy portions northwest, northcentral and central. Feed available for sale less than normal except normal southwest and far east.

NEBRASKA: Rainfall generally, under 1.00 in. Temperatures near normal. Farmers irrigated, made hay, controlled weeds, worked summer fallow, prepared seedbeds for wheat; corn 45% excellent, 44% good, 11% fair. Dough stage 65%, 20% dent, same 1972. Sorghum 38% excellent, 58% good, 4% fair. Heads turning 15%, same 1972, 10% average. Soybean 38% excellent, 48% good, 14% fair, leaves beginning turn color. Alfalfa 25% excellent, 67% good, 8% poor, third cutting 75% completed, fourth cutting begun. Very short supply baling wire. Wild hay 23% excellent, 68% good, 9% poor. Sugar beets

very good. Dry beans late, catching up some. Top-soil supplies 55% short, 41% adequate, 4% surplus. Subsoil supplies 26% short, 70% adequate, 4% surplus. Range and pasture 15% above average, 77% average, 8% below average.

NEVADA: Temperatures above normal greatest central thru southern Nevada. High 111° Logandale low 30° Mountain City. Humidity extremely low; strong, dry winds caused extreme fire danger. Second cutting alfalfa hay 75% complete north and central. Preparations underway alfalfa seed harvest. Small grain harvest full swing. Garlic harvest progressed. Livestock look good but ranges dry and need moisture.

NEW ENGLAND: Warm except midweek. Showers central and south, totals 2.00 in. to 3.00 in. Rhode Island and Mass. Scattered showers weekend. Crops progressed well. Much good second cutting hay made. Vegetables excellent supply. Fruits look good. Maine potato crop looked good due to timely rains. Early Rhode Island potato crop nearly dug.

NEW JERSEY: Near to slightly above normal temperatures. Extremes upper 80's early to upper 50's weekend. Rain totaled from 0.07 in. Millville to 1.70 in. New Brunswick. Heavy local showers fell, more needed. Irrigating active. Harvest summer crops advanced on schedule. White potatoes 50% harvested. Progressing tomato movement good. Peach supplies heavy. Cranberry prospects favorable. Corn and soybeans need rain. Some field corn cut for silage. Third cutting alfalfa hay general, new seedings going in.

NEW MEXICO: Scattered, highly variable rain fell on mountains and western valleys, isolated on eastern plains. Largest amount Des Moines 0.78 in. Temperatures near normal. Short moisture, except adequate southeast. Grain sorghum, corn good. Wheat, barley harvest over. Some fall wheat seeding started. Cotton, alfalfa good. Some poor cotton southwest. Shortage baling wire. Other crops good. Ranges drying, fair to good. Livestock good.

NEW YORK: Temperatures 2° to 5° above normal in the Mohawk, Hudson and Champlain Valleys, 4° to 6° above normal St. Lawrence. Along south tier and coastal, temperatures little subnormal. Watertown with 48° recorded low temperature. Locally heavy precipitation occurred midweek with Dansville 2.31 in. and Ellenburg Depot 1.40 in. The Hudson Valley and Coastal southeast had below normal rainfall, but Eastern Long Island had 0.50 in. of welcomed rain. Oat harvest 60% complete, 20% 1972. Corn good, some insect damage. Second cutting alfalfa hay 75% complete, third cutting 15%. Wheat harvest virtually complete. Dry soils slowed dry bean growth some areas. Long Island potato digging increased. Orange County celery and onion harvests increased in volume. Snap bean harvest peaked. Cauliflower harvest underway in Catskill region. Clapp's Favorite pears being harvested. Bartlett harvest expected soon. Moisture lacking West apple areas while Hudson Valley has ample supply. Peach harvest near peak for some varieties, quality good, fruit small.

NORTH CAROLINA: Generally dry conditions except scattered and varying amounts rainfall. Temperatures near normal. Precipitation mostly less than 1.00 in. Piedmont and mountains, heavier central coastal plain. Flue-cured tobacco 70% primed, nearing completion east. Priming old and middle

belts over 50%. Fieldwork suitable 4.8 days. Soil moisture adequate except Piedmont. Corn and soybeans 95% good to excellent. Some corn harvest started. Insect control spraying in soybean and cotton active. Peanuts good. Pastures providing good grazing.

NORTH DAKOTA: Temperatures mostly 12° above normal, 14° above northwest to 8° above southeast. Highs from high 80's to mid-90's, lows from high 40's to mid and low 60's. Highest extremes: 103°, Breien; 44°, Lisbon, Watford City. Rain subnormal except central 0.10 in. Above normal. Heaviest rain: Cooperstown 0.79 in. Severe hail occurred Friday in strip 3-6 miles wide from Langdon southeast into Walsh County. Harvesting small grains and flax progressed moderately. Rains southeast and northeast delayed harvest somewhat. Light to severe hail latter part damaged 60-80,000 acres crops northeast. Over 75% hard wheat cut and nearly 60% durum swathed or combined. Barley and oat harvest past 90% over. Flax cutting 20% finished, corn 17% dented. Some second crop alfalfa cut.

OHIO: Showers and isolated thundershowers, heavy precipitation some areas early. Temperatures near normal, cool early part. Extremes: 86° Cincinnati; 54°, Toledo. Good rains statewide, most needed, but westcentral got too much. Weather ideal for rapid crop growth; most crops need more heat with adequate moisture. Soil moisture 73% adequate, 20% surplus. Suitable fieldwork under 4 days. Corn fair, 50% dough, 10% dented; 1972, 40% dough, 10% dent; normal 60% dough, 20% dent. Soybeans fair, 20% pods set, leaves green; 1972, 30% pods set. Average 50%. Oats combining virtually complete, ahead normal. Potato harvest progressing rapidly, 45% dug, 1972 and normal 20% dug. Fall plowing 35% finished, 25% 1972, over 30% normally.

OKLAHOMA: Temperatures averaged from 1° subnormal to 4° subnormal. Precipitation from 0.10 in. Panhandle and west central to 2.2 in. Eastcentral and southeast. Farmers cultivated row crops, prepared wheat seedbeds, applied fertilizer wheat ground. First wheat seeding in extreme western Panhandle. Most sorghums headed. Earworms troublesome many areas. Cotton 70% setting bolls, 85% 1972. Insect damage light but increasing. Peanuts holding with 67% spiking. Soybeans making good growth 33% setting pods. Alfalfa seed harvest underway. Haying continues but pace slowed. Ranges western 2/3 need rains. Grasses providing enough feed to hold livestock at high condition level.

OREGON: Weather continued warm. Departures 3° to 6° above normal except normal coast, North Willamette Valley. Maximum inland 90-100, coast near 70°. Thundershowers produced scattered measurable moisture north, east amounts less than 0.05 in. Totals light northwest except Portland 0.27 in. Fall grain harvest complete Columbia Basin, Willamette Valley Counties; 10-80% east, south border. Spring grain complete to not started. Processing sweet corn underway; snap beans, beets continued. Peach, pear harvest active. Listing onions brooks. Harvest underway Ontario. Fresh market potato harvest active, Umatilla Basin, Ontario, North Willamette Valley. Good quality, yield. Water situation becoming critical most irrigation districts. Range, forest fires denuded several thousand acres weekend. Calves no longer gain on dry ranges. Stock being turned out on stubble or aftermath. Stock water supplies short. Public grazing season being cut.

PENNSYLVANIA: Coolest and wettest week since end of June. Temperatures uniform, daily highs 70's and 80's and lows 50's and 60's. Averages 6° lower than previous week. Showers and thunderstorms produced 0.50 in. to 2.00 in. rainfall except portions of southeast where less than 0.25 in. fell. Locally west and north had 3.00 in to 4.00 in. Topsoil moisture 66% adequate, 28% short, remainder surplus. Oats harvest 75% complete. Corn growth and development good, 60% presilk or silk, 30% dough, 10% dented. Soybeans good, clover worms problem, spraying in progress. Showers improved second and third growths of hay and pasture condition. Limited potato harvest continues. Limited tobacco topping continues, minor cutting. Cabbage harvest underway, yields and quality not good--blackleg infestation. Snapbeans moderate but declining volume. Tomatoes larger volume. Sweet corn at peak. Peach and summer apple picking continues. Orchards are picking lighter than expected.

PUERTO RICO: Rainfall totaled 3.06 in., 1.70 in. above normal, second highest weekly recorded this year. Highest daily amount 5.80 in. at Pico Del Este. Part of southwest received less than 1 in. Temperatures averaged 82° coastal and 75-76° interior. Weather favored most crops. Work continued on cultivation and planting sugar cane. Growth of coffee beans good and some areas preparing for collection. Tobacco seedlings for next crop being prepared. Pastures good cultivation and fertilization proceed. Same for minor crops. Good banana crops Caguas and Lares.

SOUTH CAROLINA: Temperatures early above normal, near normal latter part. Scattered thundershowers above normal west, well below south. Moisture conditions short to adequate. Tobacco fair to good--92% harvested, 93% 1972. Cotton fair to good--98% squaring, 87% setting bolls, 2% bolls open; 95%, 87%, 3% respectively 1972. Spraying very active, insects increasing. Corn good, light harvest high moisture corn underway--91% dough stage, 41% mature. Soybeans good, some dry--70% bloomed, 44% setting pods. Peanuts good, harvest 36%, 37% 1972. Lespedeza and pastures good. Peaches fair to good, 95% harvested. Grapes fair to good, 26% harvested. Watermelons fair, harvest near complete.

SOUTH DAKOTA: Hot weather ruled, highs hit mid-90's to low 100's. Widely scattered thunderstorms, some locally heavy, but precipitation well below normal. Very dry conditions seasonal precipitation 5.00 in. to 6.00 in. Subnormal northeast, 2.00 in. to more than 5.00 in. subnormal elsewhere. Row crops suffered heat and drought. Drought damaged corn being green-chopped and cut for silage. Row crop maturity ahead normal and 1972. Corn 60% dough, normal 43%, 1972 45%. Sorghum 79% headed, 7% ahead normal, 26% ahead 1972. Soybeans 92% podded, 1972 78%, normal 85%. Flaxseed 85% ripe, 33% 1972 and 78% normal. Harvest flaxseed 49% complete, 17% ahead normal, 35% ahead 1972. Row crops and pastures need more rain. Some prairie hay being harvested. Grasshoppers in alfalfa. Range fire danger high. Feed purchased locally where supplies short. Supplemental feeding of livestock in some areas due to short pastures.

TENNESSEE: Thundershower activity early. Heaviest rainfall west, 1.00 in. to 3.00 in. statewide. Temperatures 1° to 4° subnormal cooler. General rain early and intermittent rains midweek benefited crops. Continued good growth late fall will be

necessary to insure good corn and soybean crops. Pastures continued excellent and cattle good and making good gains. Very little corn mature and only 33% dented; normally over 10% has matured and 50% dented. Soybeans made rapid growth but continue 1-2 weeks behind normal. About 33% of crop has set pods and 75% have bloomed or are blooming. Over 80% cotton acreage had set bolls, slightly behind normal. Boll Weevil activity increasing many fields and spraying started. Tobacco prospects improved, but size and condition varies. About 15% dark fired crop harvested while burley harvest just started. Hay yields good but rains continue to hamper harvest.

TEXAS: Near normal temperatures prevailed except northcentral and northeast Texas where temperatures were 3° to 5° subnormal. Rainfall general along coastal plains latter part. Rainfall spotty interior but locally heavy: heaviest Lockhart, 3.29 in. Cotton, rice and peanut harvest slow progress. Harvest corn sorghum made fair progress, moving northward. Early corn, sorghum yields good to excellent. Early wheat seeded high plains. Major crops percent harvested: cotton 2, last year 8; corn 6, last year 25; sorghum 37, last year 39; peanuts 7, last year 14; rice (1st cutting) 25, last year 80. High plains, potato harvest declined some complete. Onion, cucumber harvest slowed. Sugarbeets, carrots, green beans, blackeye, and okra developing well. Trans-pecos: onions still being harvested Culberson County. North watermelon, cantaloupe harvest continues active. Central and east: melon harvest dropped. Tomatoes still available but yield low some areas. Coastal bend: Rains delayed planting fall vegetables. San Antonio--winter garden: cabbage, carrots, peppers planted; more land being prepared. Laredo: land prepared for fall vegetables. Pecan trees statewide show damage from walnut caterpillars, pecan weevils, casebearers, webworms, shuckworms, scab, mildew. Light crop expected. Citrus crop good growth, sustained by recent rains.

UTAH: Few isolated light showers and thunderstorms midpart. Moderate to heavy shower and thunderstorm latter part weekend. Average temperatures 1° to 6° above normal except locally 2° to 6° subnormal Northern Mountains. Harvests and crop development continue to lag behind usual. Harvest 90% complete second crop alfalfa hay; 80% winter wheat; 60% barley; 55% spring wheat, oats and sweet corn; 85% snap beans. Production prospects good silage corn and potatoes, fair to good grain corn and dry onions, fair sugar beet. Feed supplies on high summer range lands good mostly and stock water adequate. Outlook for fall and winter range feed good compared with poor 1972.

VIRGINIA: Rainfall early and weekend gave relief. Flash flooding central Virginia midweek with 7.14 in. at Holiday Lake State Park. Extremes: 96°, Holland; 52°, Galax. Top soil moisture 17% short, 8% surplus; last week 45% short. Fieldwork on 4.3 days. Cut corn silage east of mountains, chopping active southern Tidewater. Picking began Tidewater with artificial drying. Mexican bean beetles and clover worms heavy. Spraying brisk. Flue-cured tobacco 29% pulled, fire-cured 8% cut, both same 1972. Topped and applied sucker controls burley. Peanuts more mature than 1972, applied leafspot and insect controls. Hay and pastures grew well. Rambo, other early apples and peaches picked. Large volume canning tomatoes. Heavy cabbage cutting Carroll County.

WASHINGTON: Temperatures slightly subnormal. Pre-

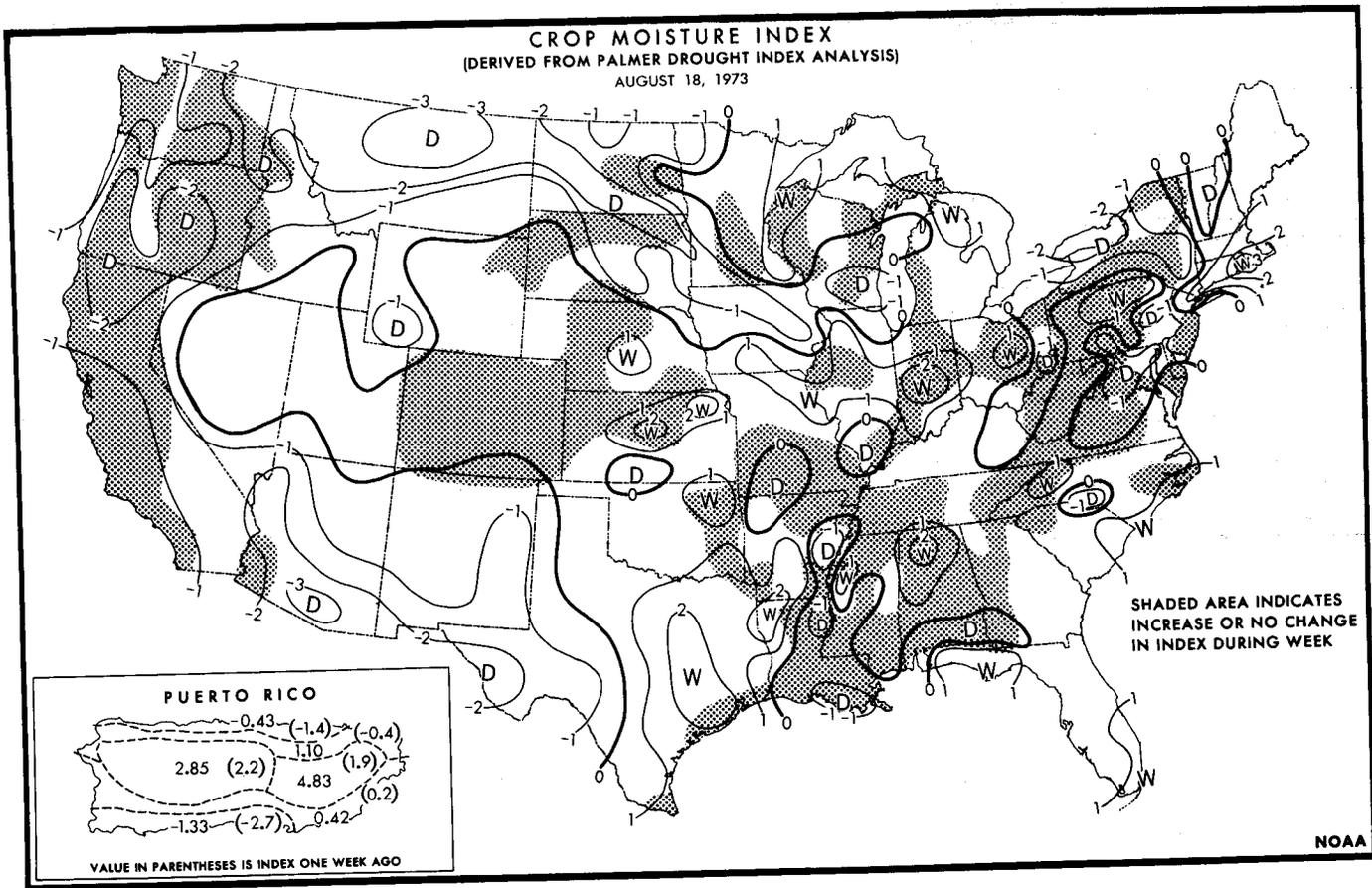
precipitation subnormal. Pea harvest near complete, above average yields. Harvest cauliflower, sweet corn, carrots underway. Fall grains, flower bulbs, seed cabbage, being planted. Small grain harvest underway. Blueberry harvest continuing. Nonirrigated pastures showing stress. East temperatures 3° above normal, precipitation subnormal, widely scattered. Potatoes, vegetables, mint harvest continues. Picking prunes, pears, peaches active. Third cutting alfalfa active. Harvest barley, wheat nearing completion, yields below normal. Preparing ground fall seeding. Soil moisture very low. Fire danger extreme.

WEST VIRGINIA: Temperatures high early week. Extremes: 95° Martinsburg; 53°, Bartow. Heavy showers midweek. Fieldwork days 2.8. Farmers most made hay, clipped pasture and cut weeds and grass. Combining barley, wheat almost complete, oats 80%. Soil moisture 9% short, 57% adequate and 34% surplus. Corn 14% presilked, 56% silked, 30% dough. Tobacco fair to good. Hay, pasture and corn good.

WISCONSIN: Temperatures 1° above normal. Cooler early, warm and humid after midweek. Several showers and thundershowers produced locally moderate to heavy rains north and west-central, lighter elsewhere. Rainfall 2.10 in. northwest to 0.20 in. southeast. Good growing conditions for crops. Corn

85% silked, 1972 98%, normal 85%. Early corn doing well, late corn shorter stalks than normal. Oats 55% harvested, 1972 30%, normal 65%. Many farmers done with oats west and south, combining of late oats just starting north and east. Yields light late oats. Second crop hay 60% harvested, 1972 45%, normal 60%. Second crop mostly short, third crop coming where rain received. New seeding growing good. Pastures improved but well below 1972. Soybeans doing well, early crop getting pods and filling. Topping tobacco underway. Harvest continues sweet corn, early potatoes and apples, cucumbers, beets, snapbeans. Apple crop down, vegetable crops fair to good. Cranberries coming nicely. Soil moisture 48% short, 50% adequate, 2% surplus. More moisture needed south and east.

WYOMING: Temperatures 1° - 2° above normal, precipitation 0.1 in. to 0.2 in. subnormal, except above normal locally east of divide. Extremes: 102°, Sheridan; 29°, Big Piney. Sundance had greatest amount--0.64 in. rain. Winter wheat harvest neared completion, 95% crop cut. Harvest other small grains in full swing, oats 20%, spring wheat 35%, and barley 40% harvested. Second cutting alfalfa 40% cut, 1 week behind 1972. Other hay 80% harvested. Prospects for dry beans, corn, sugar beets fair to good. Windrowing dry beans expected soon. Surface moisture supplies generally short with adequate subsoil levels.



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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