

1872-Centennial-1972

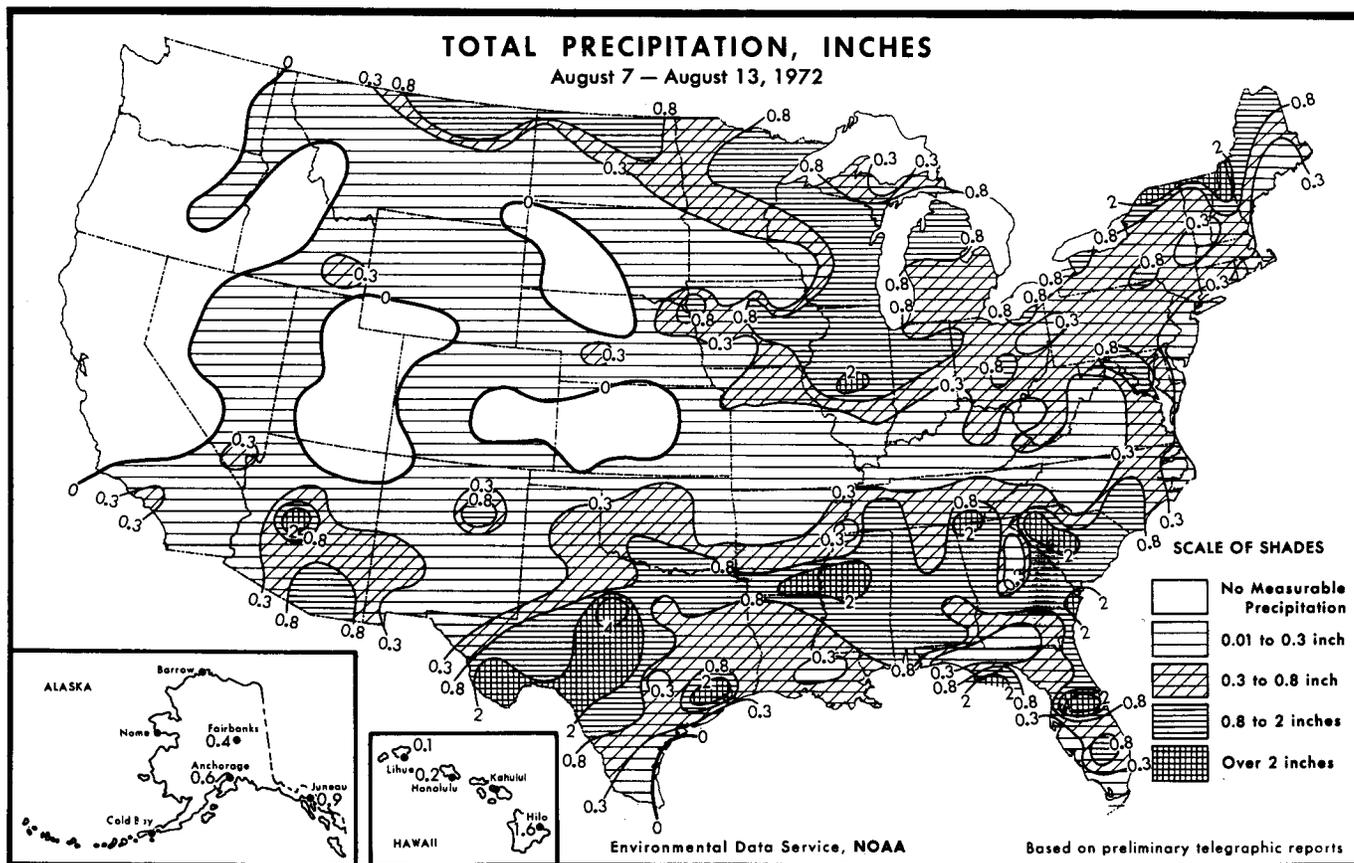
Weekly Weather & Crop Bulletin

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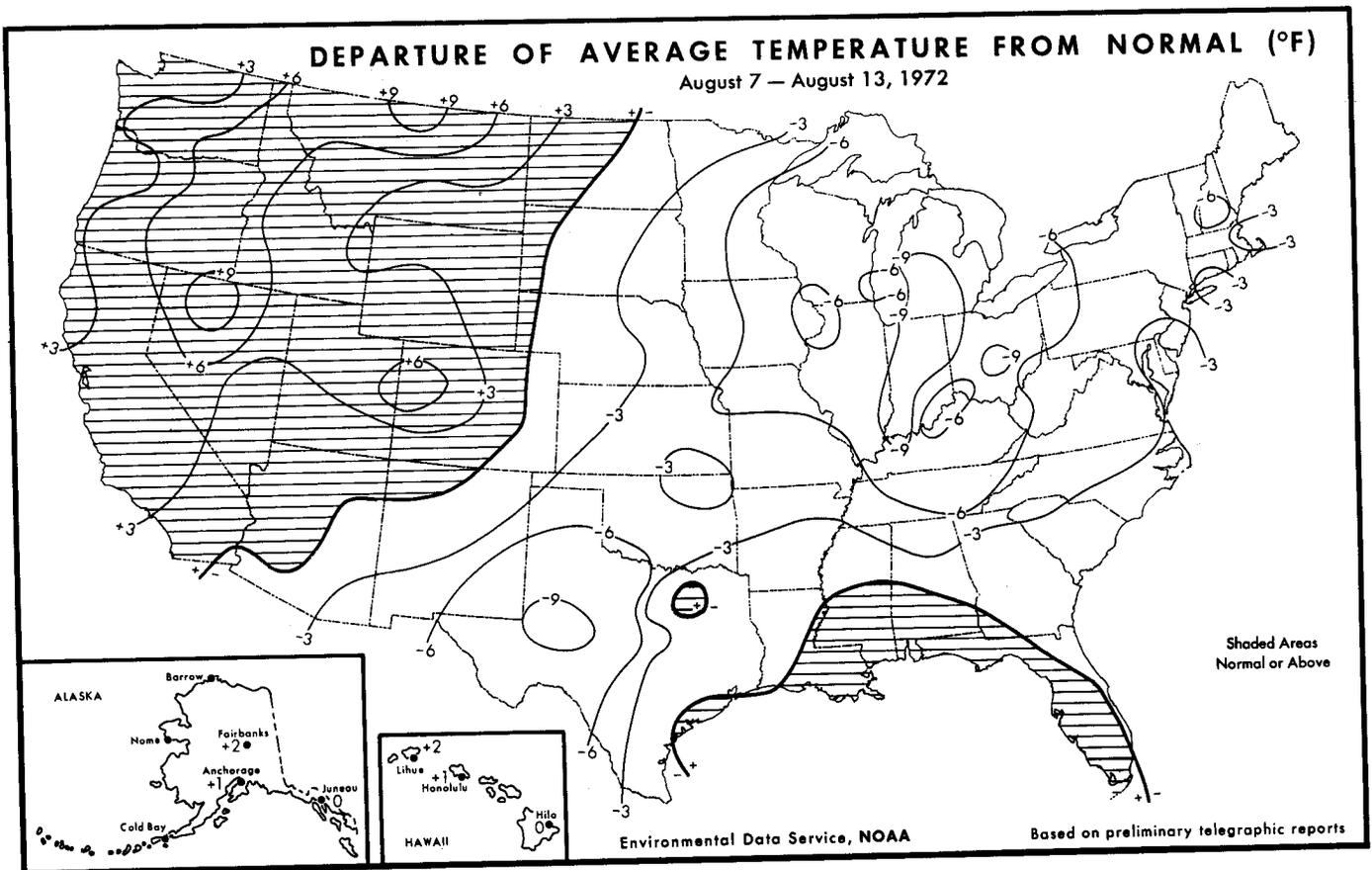
NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Showers were spotty light over the West, light to heavy over the East. Temperatures over much of the East were much like in early autumn.

PRECIPITATION: Widespread thunderstorms, some locally heavy, occurred over the eastern half of the United States in connection with the frontal systems that swept eastward from the

western Great Plains to the Atlantic Ocean. Thunderstorms also occurred from the southern Great Plains to the Atlantic seaboard in the warm humid air that lay over the Southland.

Showers occurred on several days but the amounts were uneven ranging from traces to 2.00 inches or more over the the East. Many western areas received no rain. Others received up to 0.25 inch.



TEMPERATURE: Weekly mean temperatures averaged above normal over the Far Northwest, the Great Basin, the northern and central Rocky Mountains, the western edge of the northern Great Plains and along the Gulf Coast. Elsewhere, weekly mean temperatures were cooler than normal.

Storm systems sweeping across the northern part of the Nation cooled the eastern two-thirds of the Nation. Minimum temperatures dropped to the 40's over the northern Great Plains and to the 50's over the central Great Plains early in the week. By midweek the Northeast was registering early morning temperatures in the 40's and 50's. Bradford, Pa., recorded 34° Friday morning.

The West was warm to hot most of the week. Temperatures reached 100° or higher each afternoon in the southwestern deserts. Furnace Creek, Calif., registered 121° Tuesday afternoon. The soil temperature at Furnace Creek was 194°. The Far Northwest was hot early in the week. The

Dalles, Oreg., recorded 110° Monday and Pendleton, Oreg., registered 111° Tuesday. Cooler air moved into the Northwest late in the week when afternoon temperatures in Washington and Oregon ranged from the 60's along the coast to the 70's and 80's at inland stations. The 90° heat moved eastward across the North. For instance, Wednesday afternoon, when Glasgow, Mont., recorded 98°, the maximum at Fargo, N. Dak., was 75°. By Sunday afternoon, the 90° heat had reached Fargo. Autumnlike weather prevailed over the Northeast until the weekend approached. Maximum temperatures over the Northeast were generally in the 60's and 70's until Sunday when some spots warmed to the 80's. Boston, Mass., recorded 87° Sunday afternoon. Near normal temperatures prevailed over the Southeast with little day-to-day change.

L. W. Dye

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Rain slows grain combining in North. * Hot temperatures aid California crops. * Corn Belt soil moisture adequate. * Wheat marketings increased due to price jump.

SMALL GRAINS: More cool wet weather hit the northern portion of the Nation causing grain farmers to further delay combining. Rain and high humidity have plagued harvest operations in the Northern States since mid-July. North Dakota growers were able to swath some fields, but very little combining was done. Combines remained parked in many Great Lake States as rain made combining difficult. As might be expected, combining is well behind last season's fast pace across the North. Farmers in South Dakota got a break in the weather and farmers made good headway in getting in this year's grain crops. Another week of good weather will bring the South Dakota harvest to an end.

It was also a hot dry week in the Pacific Northwest and combines were on the move. Harvest is completed in some areas, but has not started in later regions. Winter wheat harvest is virtually complete in Colorado. The jump in Kansas wheat marketings was spurred by increased prices.

The first winter wheat plantings of the season started in local areas of Texas, Oklahoma, Colorado, New Mexico, and Pennsylvania. Many wheat farmers in other States were busy readying their fields for planting of this fall's wheat acreage.

CORN: It was the 3d straight week of below-normal temperatures and good rainfall for most of the Nation's corn crop. The cool temperatures have slowed development and maturity, but growth has been favorable. With good soil moisture--a return of hot sunny weather should push the crop along to maturity. Maturity is generally 7 to 10 days behind last season's recordbreaking pace. In Iowa and Illinois, the Nation's leading corn-producing States, almost 90 percent of the crop is in good to excellent condition. The weather from Kansas to South Dakota was sunny and corn growth rapid. Irrigation resumed in Nebraska.

Corn picking is underway in Alabama, Florida, and Texas. Warmer weather would speed maturing and aid harvest operations. Chopping corn for silage got underway on a few New Jersey, Pennsylvania and California farms.

COTTON: Cotton picking moved northward in Texas--5 percent of the crop is harvested. Hot daytime temperatures aided development of the California and Arizona crops. The crop is making good progress and the fruit set is heavy. Growers continue an active insect control program. Moving to the East, temperatures were a little below normal, but the crop is coming along fine. Most cotton bolls are set and the first bolls of the season opened in early-sown fields. Insect counts are the highest of the season and growers are spraying frequently.

SOYBEANS: Maturity of the 1972 soybean crop slipped behind last season's pace in the North-Central States. Temperatures dropped 5 to 10 degrees below normal to slow soybean development. Over half the soybean fields in the

North-Central States have set pods. Nearly 3/4 of the Iowa and Illinois fields have podded.

The Southern crop is making satisfactory progress. Showers since late July have greatly improved the Arkansas bean outlook. Moisture is needed to bring the crop along in scattered areas throughout the South. The moisture from Tropical Storm Agnes has run out and Maryland soybean fields could use a nice slow rain.

OTHER CROPS: Rains continued to slow haying operations from North Dakota to New England. Sorghum combining is 39 percent finished in Texas, ahead of last year's 33 percent. The crop is developing normally in Kansas and Nebraska, however, dry soils and heat are causing some burning in southeastern Oklahoma. Harvest of the North Carolina flue-cured tobacco crop continued at a fast pace -- growers are receiving record-high prices. South Carolina has 84 percent of its tobacco harvested. The Kentucky burley crop is half topped. The potato crop is excellent in Colorado and 30 percent of the late summer crop is dug. Digging picked up on Long Island, New York. Hot temperatures did not hurt the Idaho potato crop, but wet fields slowed spraying in Maine. Michigan dry beans are developing well. The Idaho crop is maturing rapidly. Arkansas rice growers have drained a few early fields in preparation for harvest. Minnesota flaxseed harvest is just beginning--10 days late.

FRUITS AND NUTS: Picking of peaches and summer apples continued to widen in the Northern growing areas. Most of the cherry orchards in Michigan, Wisconsin, and New York have been picked. Michigan fall and winter apples are sizing well, but Maryland apples need rain for sizing. Picking of this season's peach crop is nearing the end throughout the South. Good rains were welcomed by citrus grove operators in Central Florida. Grape harvesting increased in California. Growers will soon be laying-out Thompson's for raisins.

VEGETABLES: Rains slowed vegetable harvesting around the Great Lakes. Wisconsin sweet corn picking is in full swing. Wet fields hindered picking of the Michigan pickle crop. Vegetable harvesting is widespread from Maryland to New England. Pulling of the seed onion crop started in Orange County, New York. Quality and size of the Oswego County, New York lettuce crop improved. The weather was ideal and vegetable picking active in the Pacific Northwest. There is a pole bean picker shortage in Oregon. Land preparation and planting of fall vegetables was gaining momentum from Arizona to Florida. North Carolina growers also planted vegetables for fall harvest.

PASTURES AND LIVESTOCK: Pastures from the Great Plains to the Atlantic Ocean are providing outstanding amounts of feed. Cattle movement from pastures to market is slow as growers are in no hurry to sell as good grass is available.

Ranges showed slight improvement in Montana, Colorado, and Arizona, but declined in other Western States. Utah rangelands are in poor shape. Non-irrigated pastures are extremely dry in Oregon.

Steve J. Pscodna
Agricultural Statistician

Temperature and Precipitation Data for the Week Ending Midnight, Ls.t., AUGUST 13, 1972

| States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | | States and Stations | Temperature °F | | Precipitation Inches | |
|------------------------|----------------|------------|----------------------|------------|------------------------|----------------|------------|----------------------|------------|-----------------------|----------------|------------|----------------------|------------|
| | Average | Departure* | Total | Departure* | | Average | Departure* | Total | Departure* | | Average | Departure* | Total | Departure* |
| ALA, Birmingham . . . | 79 | - 3 | .1 | -1.1 | New Orleans . . . | 82 | 0 | .7 | -.5 | OKLA, Okla. City . . | 80 | - 4 | .5 | 0 |
| Mobile . . . | 85 | + 2 | .1 | -1.3 | Shreveport . . . | 83 | - 1 | .3 | -.3 | Tulsa . . . | 81 | - 2 | .1 | -.6 |
| Montgomery . . . | 82 | - 1 | .8 | -.2 | MAINE, Caribou . . . | 60 | - 4 | .8 | 0 | OREG, Astoria . . . | 64 | + 3 | T | -.3 |
| ALASKA, Anchorage . . | 58 | + 1 | .6 | 0 | Portland . . . | 64 | - 5 | .2 | -.3 | Burns . . . | 73 | + 4 | .2 | + .1 |
| Barrow . . . | 59 | --- | --- | --- | MD, Baltimore . . . | 74 | - 2 | .5 | -.7 | Medford . . . | 77 | + 5 | 0 | 0 |
| Fairbanks . . . | 59 | + 2 | .4 | -.2 | MASS, Boston . . . | 72 | - 2 | .3 | -.5 | Pendleton . . . | 81 | + 8 | 0 | -.1 |
| Juneau . . . | 55 | 0 | .9 | -.2 | Chatham . . . | 67 | --- | T | --- | Portland . . . | 71 | + 3 | T | -.2 |
| Nome . . . | --- | --- | --- | --- | MICH, Alpena . . . | 59 | - 7 | 1.2 | + .5 | Salem . . . | 69 | + 2 | 0 | -.1 |
| ARIZ, Flagstaff . . . | 67 | + 2 | .8 | + .1 | Detroit . . . | 63 | - 9 | .6 | 0 | PA, Allentown . . . | 69 | - 5 | .3 | -.8 |
| Phoenix . . . | 89 | + 1 | .3 | + .1 | Flint . . . | 63 | - 7 | .7 | 0 | Erie . . . | 62 | - 6 | .6 | -.1 |
| Tucson . . . | 81 | - 3 | 1.5 | + .8 | Grand Rapids . . . | 63 | - 9 | .8 | + .2 | Harrisburg . . . | 72 | - 3 | T | -.1 |
| Winslow . . . | 78 | - 1 | .4 | + .1 | Houghton Lake . . . | 59 | - 8 | 1.1 | + .5 | Philadelphia . . . | 74 | - 1 | T | -1.1 |
| Yuma . . . | 91 | - 1 | T | -.1 | Lansing . . . | 61 | -11 | .4 | -.3 | Pittsburgh . . . | 66 | - 6 | .6 | -.1 |
| ARK, Fort Smith . . . | 79 | - 4 | T | -.6 | Marquette . . . | 61 | - 7 | .1 | -.6 | Scranton . . . | 68 | - 4 | .8 | 0 |
| Little Rock . . . | 80 | - 2 | .8 | + .1 | Muskegon . . . | 62 | -10 | .7 | + .1 | R.I, Providence . . . | 69 | - 4 | .1 | -.8 |
| CALIF, Bakersfield . . | 88 | + 5 | 0 | 0 | S. Ste. Marie . . . | 58 | - 7 | .3 | -.3 | S.C, Charleston . . . | 81 | + 1 | .9 | -.6 |
| Eureka . . . | 58 | + 1 | 0 | 0 | MINN, Duluth . . . | 60 | - 6 | 1.0 | + .1 | Columbia . . . | 79 | - 2 | 1.0 | -.3 |
| Fresno . . . | 84 | + 4 | 0 | 0 | Internat'l Falls . . | 64 | - 2 | .8 | 0 | Greenville . . . | 75 | - 4 | 3.1 | +2.0 |
| Los Angeles . . . | 77 | + 3 | .3 | + .3 | Minneapolis . . . | 65 | - 7 | .3 | -.4 | S.DAK, Aberdeen . . . | 70 | - 3 | .2 | -.3 |
| Red Bluff . . . | 84 | + 2 | 0 | 0 | Rochester . . . | 64 | - 8 | .1 | -.7 | Huron . . . | 69 | - 5 | T | -.5 |
| San Diego . . . | 73 | + 1 | T | 0 | St. Cloud . . . | 64 | - 7 | .7 | -.1 | Rapid City . . . | 73 | 0 | T | -.4 |
| San Francisco . . . | 64 | + 1 | 0 | 0 | MISS, Jackson . . . | 84 | + 2 | 1.2 | + .4 | Sioux Falls . . . | 69 | - 5 | .3 | -.5 |
| Stockton . . . | 81 | + 4 | 0 | 0 | Meridian . . . | 83 | + 1 | 1.7 | + .9 | TENN, Chattanooga . . | 75 | - 6 | 2.9 | +2.1 |
| COLO, Denver . . . | 76 | + 3 | T | -.3 | MO, Columbia . . . | 73 | - 4 | .3 | -.5 | Knoxville . . . | 78 | - 3 | .2 | -.5 |
| Grand Junction . . . | 83 | + 6 | T | -.3 | Kansas City . . . | 76 | - 6 | T | -.9 | Memphis . . . | 74 | - 6 | 2.3 | +1.7 |
| Pueblo . . . | 77 | + 1 | T | -.4 | St. Louis . . . | 72 | - 6 | .1 | -.6 | Nashville . . . | 77 | - 7 | 4.1 | +3.8 |
| CONN, Bridgeport . . . | 72 | - 2 | .1 | -.9 | Springfield . . . | 75 | - 4 | .1 | -.6 | TEX, Abilene . . . | 74 | - 6 | .5 | -.1 |
| Hartford . . . | 69 | - 3 | .9 | 0 | MONT, Billings . . . | 76 | + 2 | .2 | 0 | Amarillo . . . | 77 | - 7 | .5 | -.1 |
| D.C, Washington . . . | 74 | - 4 | 2.0 | + .9 | Glasgow . . . | 76 | + 6 | 1.0 | + .7 | Austin . . . | 83 | - 2 | .1 | -.3 |
| FLA, Apalachicola . . | 84 | + 2 | 2.7 | +1.1 | Great Falls . . . | 76 | + 7 | T | -.3 | Beaumont . . . | 81 | - 2 | .7 | -.5 |
| Ft. Myers . . . | 84 | + 1 | 3.3 | +1.6 | Havre . . . | 78 | + 9 | .9 | + .6 | Brownsville . . . | 83 | - 2 | T | -.6 |
| Jacksonville . . . | 81 | - 2 | 1.7 | + .2 | Helena . . . | 72 | + 4 | .1 | -.1 | Corpus Christi . . . | 85 | 0 | T | -.7 |
| Key West . . . | 85 | + 1 | T | -.9 | Kalispell . . . | 72 | + 7 | .1 | -.2 | Dallas . . . | 87 | + 1 | 1.2 | + .8 |
| Lakeland . . . | 83 | + 1 | .4 | -1.2 | Miles City . . . | 78 | + 3 | .1 | -.2 | Del Rio . . . | 79 | - 8 | 3.8 | +3.5 |
| Miami . . . | 83 | 0 | 0 | -1.5 | Missoula . . . | 71 | + 5 | T | -.2 | El Paso . . . | 76 | - 6 | .1 | -.2 |
| Orlando . . . | 84 | + 1 | 5.9 | +4.3 | NEBR, Grand Island . | 74 | - 3 | T | -.5 | Fort Worth . . . | 85 | - 1 | .7 | + .3 |
| Tallahassee . . . | 83 | + 2 | T | -1.5 | Lincoln . . . | 76 | - 4 | .6 | -.1 | Galveston . . . | 85 | + 1 | T | -1.0 |
| Tampa . . . | 84 | + 2 | .1 | -1.8 | Norfolk . . . | 73 | - 4 | .3 | -.3 | Houston . . . | 81 | - 2 | 3.4 | +2.4 |
| GA, Atlanta . . . | 78 | - 1 | .9 | + .1 | North Platte . . . | 74 | - 2 | .7 | + .2 | Lubbock . . . | 72 | - 8 | .3 | -.1 |
| Augusta . . . | 80 | - 1 | 1.7 | + .8 | Omaha . . . | 73 | - 3 | .1 | -.8 | Midland . . . | 73 | -10 | 1.4 | +1.1 |
| Macon . . . | 81 | - 1 | .2 | -.8 | Valentine . . . | 73 | - 2 | T | -.6 | San Angelo . . . | 77 | -9 | 2.9 | +2.6 |
| Savannah . . . | 82 | 0 | 3.0 | +1.6 | NEV, Ely . . . | 69 | + 2 | .1 | 0 | San Antonio . . . | 82 | - 3 | .9 | + .4 |
| HAWAII, Hilo . . . | 76 | 0 | 1.6 | -1.0 | Las Vegas . . . | 90 | + 2 | .6 | + .5 | Victoria . . . | 84 | 0 | .4 | -.3 |
| Honolulu . . . | 81 | + 1 | .2 | 0 | Reno . . . | 72 | + 5 | T | -.1 | Waco . . . | 83 | - 3 | .9 | + .5 |
| Kahului . . . | --- | --- | --- | --- | Winnemucca . . . | 79 | +10 | 0 | 0 | Wichita Falls . . . | 80 | - 7 | .8 | + .4 |
| Lihue . . . | 81 | + 2 | .1 | -.4 | N.H, Concord . . . | 63 | - 6 | .8 | + .1 | UTAH, Blanding . . . | 74 | + 2 | 0 | -.3 |
| IDAHO, Boise . . . | 80 | + 6 | T | 0 | N.J, Atlantic City . . | 72 | - 3 | T | -1.2 | Salt Lake City . . . | 81 | + 5 | --- | --- |
| Lewiston . . . | 81 | + 8 | T | -.1 | Trenton . . . | 73 | - 3 | 0 | -1.1 | VT, Burlington . . . | 64 | - 4 | .6 | -.2 |
| Pocatello . . . | 75 | + 3 | .3 | + .2 | N.MEX, Albuquerque . | 76 | - 1 | .2 | -.1 | VA, Lynchburg . . . | 72 | - 3 | .1 | -1.0 |
| ILL, Cairo . . . | 75 | - 6 | 1.7 | +1.0 | Roswell . . . | --- | --- | --- | --- | Norfolk . . . | 75 | - 3 | .5 | -.7 |
| Chicago . . . | 67 | - 8 | 1.4 | + .7 | N.Y, Albany . . . | 67 | - 5 | .2 | -.5 | Richmond . . . | 74 | - 3 | .3 | -1.0 |
| Moline . . . | 69 | - 5 | .9 | + .1 | Binghamton . . . | 63 | - 5 | .8 | 0 | Roanoke . . . | 72 | - 4 | 0 | -1.1 |
| Peoria . . . | 67 | - 9 | .8 | + .2 | Buffalo . . . | 64 | - 6 | 1.0 | + .3 | WASH, Colville . . . | 73 | + 5 | T | -.2 |
| Rockford . . . | 66 | - 8 | 1.2 | + .3 | New York . . . | 73 | - 4 | T | -1.2 | Omak . . . | 71 | + 1 | 0 | -.1 |
| Springfield . . . | 69 | - 7 | 2.0 | +1.4 | Rochester . . . | 66 | - 5 | .5 | -.1 | Quillayute . . . | 61 | 0 | T | -.5 |
| IND, Evansville . . . | 69 | - 9 | .2 | -.5 | Syracuse . . . | 68 | - 4 | .3 | -.4 | Seattle-Tacoma . . . | 68 | + 3 | 0 | -.2 |
| Fort Wayne . . . | 64 | -10 | 1.3 | + .6 | N.C, Asheville . . . | 72 | - 3 | .5 | -.4 | Spokane . . . | 76 | + 7 | T | -.1 |
| Indianapolis . . . | 67 | - 8 | 1.4 | + .7 | Charlotte . . . | 76 | - 3 | .2 | -.8 | Walla Walla . . . | 81 | + 6 | 0 | -.1 |
| South Bend . . . | 63 | -10 | .4 | -.4 | Greensboro . . . | 74 | - 3 | .1 | -1.0 | Yakima . . . | 74 | + 4 | T | 0 |
| IOWA, Burlington . . . | 69 | - 7 | .9 | + .1 | Hatteras . . . | 78 | 0 | .2 | -1.3 | W.VA, Beckley . . . | 66 | - 5 | .6 | -.3 |
| Des Moines . . . | 70 | - 6 | .2 | -.5 | Raleigh . . . | --- | --- | --- | --- | Charleston . . . | 69 | - 6 | .1 | -.9 |
| Dubuque . . . | 67 | - 5 | 1.1 | + .3 | Wilmington . . . | 79 | - 1 | .9 | -.6 | Huntington . . . | 68 | - 7 | .1 | -.6 |
| Sioux City . . . | 73 | - 4 | 1.0 | + .4 | N.DAK, Bismarck . . . | 71 | 0 | T | -.4 | Parkersburg . . . | 70 | - 5 | .6 | -.3 |
| KANS, Concordia . . . | 76 | - 4 | T | -.8 | Fargo . . . | 68 | - 3 | .7 | 0 | WIS, Green Bay . . . | 63 | - 8 | 1.1 | + .5 |
| Dodge City . . . | 77 | - 4 | T | -.6 | Williston . . . | 73 | + 3 | T | -.4 | La Crosse . . . | 67 | - 6 | .2 | -.6 |
| Goodland . . . | 75 | - 2 | 0 | -.6 | OHIO, Akron-Canton . | 66 | - 7 | .2 | -.5 | Madison . . . | 64 | - 7 | 1.0 | + .3 |
| Topeka . . . | 74 | - 6 | .1 | -.9 | Cincinnati . . . | 70 | - 5 | T | -.8 | Milwaukee . . . | 64 | - 5 | .8 | + .1 |
| Wichita . . . | 79 | - 3 | 0 | -.7 | Cleveland . . . | 64 | - 8 | 1.2 | + .5 | WYO, Casper . . . | 74 | + 2 | .1 | -.1 |
| KY, Lexington . . . | 69 | - 8 | .4 | -.3 | Columbus . . . | 65 | - 9 | 1.1 | + .4 | Cheyenne . . . | 70 | + 1 | T | -.3 |
| Louisville . . . | 72 | - 5 | .1 | -.6 | Dayton . . . | 68 | - 7 | .4 | -.3 | Lander . . . | 74 | + 4 | .1 | 0 |
| LA, Baton Rouge . . . | 84 | + 1 | .1 | -1.0 | Toledo . . . | 64 | - 8 | .6 | -.2 | Sheridan . . . | 73 | + 2 | .1 | -.1 |
| Lake Charles . . . | 82 | - 1 | .6 | -.5 | Youngstown . . . | 63 | - 8 | .1 | -.7 | P.R. San Juan . . . | 83 | + 2 | .7 | -.7 |

* Departures are from 30-year means (1931-60). Based on preliminary reports

CONDENSED STATE SUMMARIES

These summaries provide brief descriptions of condition and activities important on a national scale. Detailed reports of crop and weather conditions during the growing season are contained in State issues of Weekly Weather and Crop Bulletins published by field offices of the Statistical Reporting Service, U.S.D.A. in cooperation with NOAA Climatologists.

ALABAMA: Rather warm Monday and Tuesday but cooler thereafter especially northern half of State. Extremes ranged 99° at Mobile to 61° at Huntsville. Locally heavy rains over north-central Wednesday afternoon and again Saturday evening. Almost 3.00 inches in 80 minutes Wednesday afternoon at Reform. 2.00 to 3.00 inches various locations north and central Saturday evening. Widely scattered thundershowers remainder of State. Crop prospects favorable, but moisture needed scattered areas. Practically all cotton setting bolls. First open bolls reported central counties. Insect counts highest of season several areas. Growers pushing control programs. Nearly 3/4 corn dented, many fields south and central matured. Light harvest underway several southern counties, but only Baldwin has significant acreage harvested for grain. Rain needed to push crop to maturity. Almost 4/5 soybeans blooming, about 1/3 setting pods. Peanuts need moisture. Weekend rains Dothan area should improve conditions considerably. Leaf spot, weeds, cutworms main problem, but being controlled. First sweetpotatoes dug Cullman County. Much fair to good quality hay saved. Showers delayed cutting several localities. Pastures supplied adequate grazing. Livestock fair to good condition.

ALASKA: Cloudiness midweek kept daytime temperatures below normal and nighttime temperatures well above normal in Tanana Valley. A nearly complete lack of clouds in the Matanuska Valley reversed the procedure, producing warm days and near normal nights. Only Kodiak of the remainder of the areas of interest was cooler than normal. Precipitation was concentrated in the Upper Tanana, southern portion of Kenai Peninsula, and Kodiak. All other areas continued dry. Only Big Delta has a seasonal total near normal. All others are 1.00 to 3.00 inches below normal. Soil moisture adequate Tanana Valley and Kenai Peninsula, but short Matanuska Valley. Vegetable harvest continues with quality and yield average to above. Oats and barley for grain in dough stage with some turning color. Potato hilling complete with plants in bloom.

ARIZONA: Temperatures slightly below normal most of State and humidity above normal. Shower activity most sections with heaviest weekly totals in mountain southeastern and central parts of State. Strong winds and blowing dust in irrigated valleys in south. Cotton making good progress. Bolls maturing and opening accelerating rate. Flowering continues reduced rate Yuma County. Pink bollworm problems increased Yuma, Maricopa, Graham and Pima Counties. Cabbage loopers, leaf perforators active Yuma. Sorghum fair condition. Reports southwestern stalk borer causing some damage Maricopa County. Harvest safflower crop virtually completed. Spring-planted sugar beets making normal progress. Alfalfa hay harvest at steady rate. Alfalfa caterpillars numerous Yuma. Inclement weather caused some harvest difficulties Pima County. Land preparation active for late summer and fall vegetables, melons. New crop prospects good, fruit sizing rapidly. Ring picking early lemons expected 2 weeks. Ranges continue improvement with summer rains, but forage still short. Rain not generally sufficient to

refill stock tanks left very low by drought. Cattle and calves fair to mostly good. Sheep and lambs generally good. Screw worm fly problems continue.

ARKANSAS: Scattered showers gave rainfall totals ranging from 1.00 inch to well over 2.00 inches most of southern half of State and in few localities in northern half mainly in extreme northeast corner and west-central portion. Rainfall most of northern half of State highly variable with amounts ranging from none to about 0.75 inch. Texarkana largest total with 2.74 inches followed by Hot Springs with 2.39 inches. Mean temperatures in range 1° above to 4° below normal. Near normal temperatures in southwest. Greatest negative departures in portions of north-central and northeast sections. Warming early in week followed by cooling from midweek to late in week and warming again on weekend. Several readings of 100° or higher or 8th. Lowest of 54° occurred at Calico Rock in north-central section on same date. Soil moisture further improved by showers. Precipitation amounts extremely variable and some localities remain dry. Cotton continues to fruit well. Limited early acreage beginning to cut out. Insects increasing and control measures intensified. Rice prospects remain promising. Few early fields drained in preparation for harvest. Showers since late July greatly improved soybean prospects. Bulk of acreage now under favorable growing conditions. Plants early fields blooming and setting pods. Many late fields grassy. Feed grain crops mostly good. Silage harvest underway. Hay crops short many western areas. More rain needed many counties to insure late growth meadows. Fruit and vegetable harvest remains active. This includes apples, peaches, grapes, melons, okra and peas. Volume declining for peaches and melons. Pastures improved, but still short. Livestock fair to good condition. Feeding hay reported few driest counties.

CALIFORNIA: Scattered showers extreme south and in Cascades, with amounts ranging from trace in south to 0.19 inch at Alturas. Very warm all areas with positive departures of 11° Clear Lake, Sierra; 4° in High Desert. Hot daytime temperatures aided crop development. Small grain harvest virtually complete. Combining safflower increasing. Rice continues to heat out--some weed and water grass problems reported. Cotton showing good progress with heavy fruit set. Insect control continues. Dry beans, corn and milo good growth. Some corn for silage being cut. Sugar beet prospects excellent. Grape harvest increasing. Laying Thompson's for raisins expected this week. Harvesting Thompson's for wineries. Picking freestone peaches, nectarines, plums continues; picking late clingstone peaches increasing. Almond harvest underway. Walnut sunburn reported most areas, some reporting heavy damage. Harvest prunes Sacramento Valley, Central Coast. Grapefruit harvest active. Avocados, lemons harvest light. Harvesting broccoli, cauliflower seasonably light Santa Maria, Salinas Valley. Cantaloupe harvest Firebaugh - Mendota area increased, beginning Sacramento Valley. Carrots good seasonal volume

Salinas Valley, moderate Santa Maria. Celery supplies good Salinas. Sweet corn good volume southern California. Lettuce cutting light Salinas, active Santa Maria. Clarksburg onion shipments started. Delta potato digging continues. Market tomato harvest active southern California. Processing tomatoes winding up some San Joaquin Valley areas, increasing Sacramento Valley. Drought weather persists. Livestock good condition. Milk and egg production somewhat depressed. Springs drying many areas. Supplemental water and feed being utilized. Fires plaguing forest and rangeland many areas.

COLORADO: Continued warm with thundershower activity during week, hail few areas. Slightly cooler Sunday, no precipitation over weekend. Fieldwork active. Dry most areas. Surface soil moisture short except local areas eastern plains. Subsoil moisture short to adequate statewide. Insects active corn and dry beans. Winter wheat harvest virtually complete. Seeding for 1973 crop underway limited area southeast. Winter barley and oats 81% and 88% complete, respectively. Corn condition declined due insects--still very good. Sorghum 69% headed, good to excellent. Dry beans fair to excellent. Sugar beets generally excellent condition. Potato condition excellent--harvest late summer potatoes 30% complete. Cutting 2d crop alfalfa 78% complete, 3d cutting 15%. Range and pastures showed slight improvement from previous week rains. Livestock good statewide.

FLORIDA: Temperatures average 2° above normal as hot, humid weather continued. Most daytime highs in middle and upper 90's with several 99° temperatures reported. Scattered showers and thunderstorms brought rainfall averaging 0.50 inch to Panhandle, lower east coast and Keys, with 1.50 to 2.00 inches elsewhere. Many stations reported daily totals over 1.00 inch in heavy thunderstorms. Peanuts and cotton under stress from lack of moisture. Corn harvest started. Tobacco harvest nearly complete. Moisture becoming short west, but adequate elsewhere. Pastures and livestock mostly good. Citrus trees perked up with rains. Very hot afternoon temperatures lowered by cloud cover. Some irrigation continuing. New crop fruit growth good. New foliage continues to be everywhere. Planting fall vegetables increasing seasonally. Setting celery active north-central and Everglades. Sweet corn seeding increasing Everglades. Planting eggplant, peppers, tomatoes, should accelerate south Florida during last half of month.

GEORGIA: Rainfall extremely variable in scattered showers and thundershowers. Amounts ranged from only a trace at a few places to over 4.00 inches parts of previously-dry east-central and southeast sections. Heavy rains Friday caused flash flooding in Augusta area. Rainfall generally light in south-central and southwest and these areas were becoming dry at end of period. Temperatures near seasonal most of week but cooler Friday and continued below normal through weekend. Averages for week ranged from slightly below normal north to slightly above normal southwest. Soil moisture mostly adequate northern half, extremely varied and spotty southern half ranging from very short to adequate. Main farm activities were fighting insects, haying, continued harvest tobacco, peaches, vegetables, and apples. Condition corn, cotton, peanuts, and soybeans fair to mostly good. Cotton 95% setting bolls and 1% open. Boll worms still troublesome. Spanish peanut harvest began. Spider mites bad. Cattle and pastures good.

HAWAII: Clear skies with scattered, light showers mainly nights and mornings. Heavy irrigation all areas where water available. Progress crops fair to good. Harvesting active for sugarcane and pineapple. Supplies papayas and bananas light. Vegetables adequate supply. Cattle condition fair to good. Most lowland pastures need more moisture.

IDAHO: Temperatures increased to average 5° to 10° above normal north and southwest and normal to 5° above normal elsewhere. Precipitation limited to a few widely scattered thundershowers mostly over or near the mountains. 0.18 inch at Grace, southeast, was largest total reported. Hot weather not detrimental to farm crops. Maturity potatoes, beans, and corn being rapidly hastened. Grain harvesting weather ideal. North Idaho, 20% winter wheat harvested. Southwest grain harvest nearly complete. South-central and eastern parts nearly 1/2 winter wheat combined. Barley harvest starting north, nearly 50% done southwest, and about 1/3 done other parts. Potatoes advanced enough in maturity that above-normal temperatures were not detrimental. Dry beans changing to mature color. Some fields windrowed. Early prune harvest started. Fire danger high on range lands.

ILLINOIS: Nearly all of State received rain past week with totals of over 2.00 inches common especially over northern half of Illinois. Toulon and Ottawa received over 4.00 inches. The above-normal precipitation was accompanied by below normal temperatures as a midweek cool outbreak brought minimum temperatures in 40's and 50's. Many new record-low temperatures were set. The lowest temperature in State was 44° at Peru. Corn all silked, 3/4 crop dough stage. Condition good to excellent 86%, year ago 92%. Soybeans all bloomed, 70% setting pods--slightly behind normal. Condition 91% good to excellent, 1971, 96%. Oat crop all ripe, 85% combined. Progress behind normal due continued rains. Plowing for winter wheat. Alfalfa hay 2d crop 80% cut, rains slowing progress. Pastures continue to improve. Soil moisture short 19%, adequate 62%, surplus 19%. Average 4.2 days good for fieldwork.

INDIANA: Week cool. Temperatures averaged 6° below normal and ranged from 41° on 10th to 89° on 13th. Precipitation of 11th and 12th ranged from 0.10 to 1.30 inches. Most stations reported about 0.25 inch. Humidity and cloudiness above normal. Five days suitable fieldwork, but activities were at seasonal lull most areas. Oat harvest about complete. Wheat land 35% plowed, 25% average. Corn 85% silked, 10 days behind 1971. Corn 35% dough and 5% dented. Soybeans 55% podded, 12 days later than 1971. Soybeans 5% turning yellow--mostly south. Alfalfa hay 85% cut 2d time, week behind 1971. Pastures mostly fair to good.

IOWA: Cool, cloudy, and humid becoming hot and humid at weekend. Precipitation subnormal all but east-central. Temperatures averaged 2° to 5° subnormal. Coolest 9th with minima in low 40's. Growing crops mostly excellent. Corn crop 70% excellent, 27% good, and 3% fair. Corn 55% in or past dough stage with over 10% in or past dent stage; little behind last year. Soybeans 75% setting pods, 82% last year and 68% for 5-year average. Soybean crop condition 49% excellent, 47% good, and 4% fair. Cool, damp weather and weeds major problems hindering oat harvest north-central, northeast, and east-central areas. Oat harvest 90%, second cutting clover hay 65% complete; 3d cutting alfalfa 30%

done. Pasture condition well above average with 68% excellent, 30% good, and 2% fair. Over 3 1/2 days suitable fieldwork. Topsoil moisture 64% adequate, and 36% surplus.

KANSAS: Cool and mostly dry. Few localities east and south had 0.10 to 0.50 inch. Weekly mean temperatures 2° to 7° below seasonal. Cool first 3 days warming generally 90's after 10th. High humidity accompanied warm weather eastern Kansas August 11 to 13. Minima in 50's several days east and north. Lowest 49° at Troy in northeast on 9th. Most crops growing well in response ample soil moisture. Corn maturity slowed by cool weather, 59% in dough and 17% dented, compared 1961 to 1970 average 64% and 31%. Some corn ensiled. Sorghum near normal development with 52% headed, average 49%; 5% turning color compared 10%. Green bug problems diminishing, but some problems maize dwarf mosaic and corn leaf aphids. Late soybean plants blooming and 64% soybean acreage setting pods, average 60%. Jump in farmers wheat marketings spurred by price improvement. Haying main activity with 3d cutting alfalfa 1/2 done and prairie harvest moving ahead. Cattle movement off pastures slow because good grass available. Some cattle sprayed for flies and grubs.

KENTUCKY: Temperatures below normal until seasonably hot and humid end of period, averaging 4° to 7° below normal. Rainfall totals mostly less than 0.25 inch but to a little over 1.00 inch at scattered locations. Record or near-record low temperatures, mostly in 50's, on 8th, 10th, and 11th; 49° at several northeastern locations. Mostly sunny. No rain 10th and 11th but showers other days, most widespread on 8th and 9th. Fieldwork averaged 4.5 days. Soil moisture adequate to surplus with all crops benefiting significantly. Corn making marked improvement, but continues behind last year's progress. Corn 15% dented, 45% dough, 40% milk or earlier stage. Soybeans growing fast with 40% setting pods. Topping and spraying tobacco for sucker control active. Burley 50% topped, dark 65%. Third-cutting alfalfa 60% complete, lespedeza 20% complete. Pastures excellent.

LOUISIANA: Temperatures ranged very near normal this week statewide. Scattered showers several days but weekly rain totals mostly light. Temperature extremes: 101° at Winnsboro Tuesday and 64° at Monroe Thursday. Weekly rain totals ranged from trace to locally more than 1.00 inch north to a trace to more than 1.50 inches south. Greatest 1-day total was 1.14 inches measured at Leesville Friday. Fieldwork made good progress despite some interruptions from scattered showers. Insect and weed control, haying, harvest rice and sweet-potatoes, and land preparations for fall planting were active. Crop prospects continue generally good, but moisture getting short many areas. Rice harvest 10% to 15% complete--should be at full speed next week. Yield and quality good. Sweet-potatoes 5% to 10% harvest--digging slowed because of skinning. Cotton and soybeans sprouting well--need moisture badly extreme northeast. Sugarcane making good growth--fall planting started. Pasture feed about average--moisture needed. Livestock good condition--fall calves about ready to move to feedlots.

MARYLAND AND DELAWARE: Quite cool on 10th and 11th, averaged 1° to 3° below normal. Extremes: 80's, mid-40's to mid-50's. Lows on 11th record or near record for date. Rainfall spotty from showers and thunderstorms of 7th, 8th, and 13th. Some

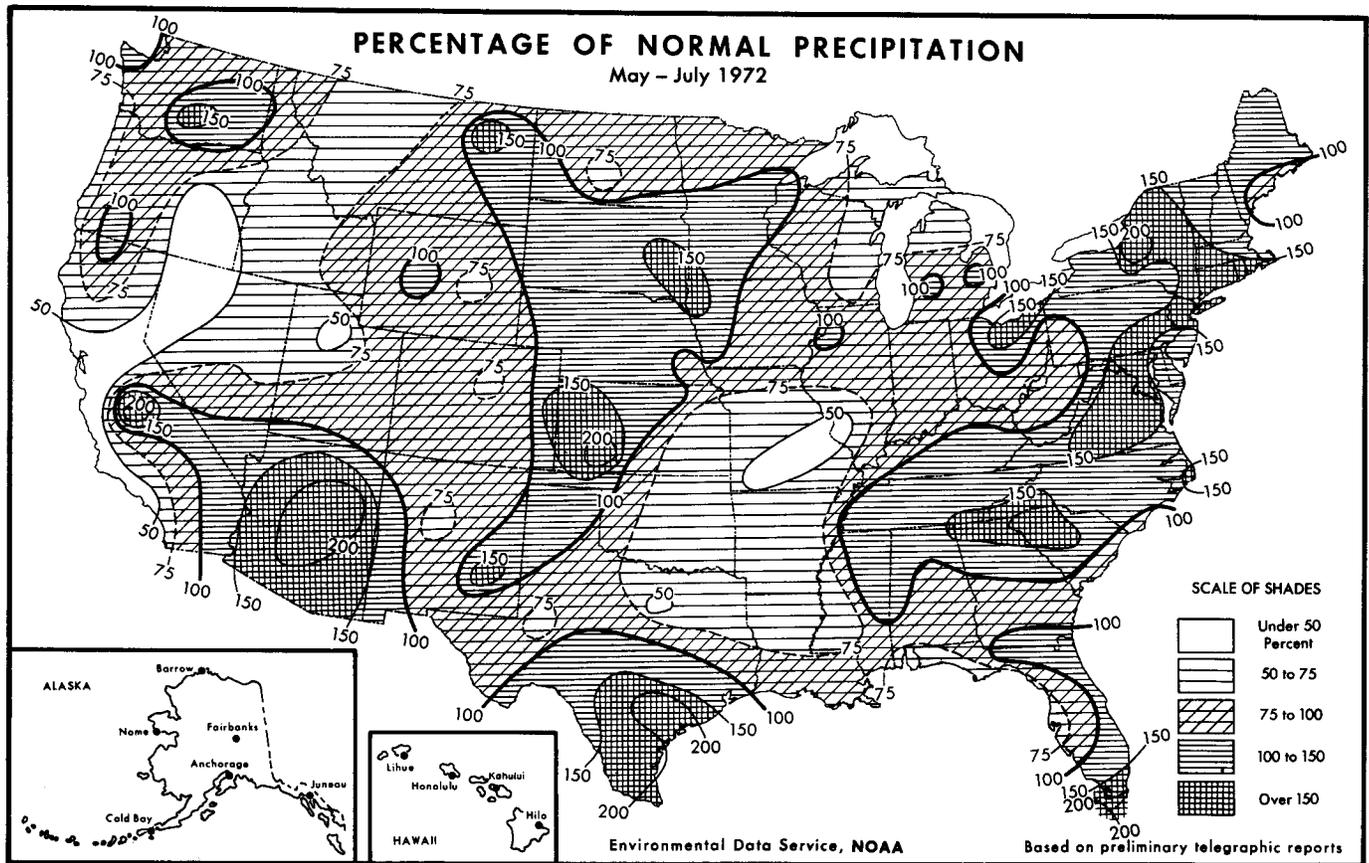
scattered totals near 1.75 inches but most totals less than 0.33 inch. Good week to work. General rain still needed all areas. Corn little changed, 45% dough stage. Soybeans, 15% setting pods, need rain. Tobacco cutting and hay harvest made good progress. Vegetable harvest full swing. Peach harvest continues and apples good condition. Need rain for proper sizing.

MICHIGAN: Cloudy, unseasonably cool, intermittent light rain most areas. Brief clearing mid-period produced pockets frost and freezing temperatures interior Upper Peninsula. Rapid warming as period ended. Temperature averages: 6° to 9° below normal Upper Peninsula; 6° to 11° below normal Lower Peninsula. Precipitation totals: 0.10 inch north to 1.00 inch south Upper Peninsula; 1.00 inch to 1.50 inches north decreasing rapidly to 0.25 inch south Lower Peninsula. Crop growth less than maximum, but fair to good. Fieldwork slow. Soil moisture adequate to surplus. State averaged only 2.7 days suitable fieldwork. Small grain harvest proceeding slowly, about 90% wheat and 25% oats harvested. Corn growing well--80% silked or more mature. About 50% soybean acreage setting pods. Dry beans developing well. Early potato harvest active. Late potatoes making excellent growth. Haymaking hindered by humid weather. Close to 40% 2d cutting hay harvested. Pasture feed supplies above average. Tart cherry harvest nearing completion northwest. Summer apple harvest active. Fall and winter apples continue to size well. Blueberry harvest continues. Pickle harvest slowed by cool wet weather. Machine harvest snap beans active.

MINNESOTA: Week started wet and very cold and ended hot and humid. Temperatures first part of week averaged 12° below normal and last part 8° above normal in west and 2° above normal in east. Extremes: 90°, 35°. Precipitation: Early part of period in north and central averaged about 0.75 inch and 0.25 inch in south. Little to no precipitation latter part of period. Northern part northwest district continues dry. Slow week for small grain harvesting because wet weather and or high humidity. Corn and soybeans good to excellent south, fair to good elsewhere. Corn 46% in milk, normal 37%; in dough 7%, normal 10%. Soybeans 67% setting pods, normal 72%. Flax 10 days behind normal; turning ripe 35%, normal 62%. Flax cutting just beginning. Topsoil moisture adequate south, adequate to surplus elsewhere, except northwest short. Small grains combined: Spring wheat 12%, normal 25%; oats 31%, normal 53%; barley 27%, normal 53%; winter wheat 72%, normal 68%; rye 58%, normal 85%.

MISSISSIPPI: Weekly rainfall totals ranged from 0 to 2.75 inches which was the greatest 1-day amount measured Friday at Poplarville. Weekly temperature averages normal to 3° above normal in Lower Delta and 4 southern divisions; elsewhere 3° below normal to near normal. Weekly extremes: 100° and 59°. Over weekend: Thunder-showers widespread, some flash flooding, no significant damage and on Saturday 1 person killed by lightning 3 miles east of Ruleville. Soil moisture mostly short to adequate, but some areas very short. Days suitable for fieldwork averaged 5 1/2. Sweetpotatoes 37%, hay 62%, watermelons 72% and peaches 94% harvested. Soybeans fair to good condition with 60% blooming and 22% setting pods. Cotton fair to good condition. Corn fair to good--60% dented. Livestock and pasture condition mostly fair to good.

(Continued on page 9)



PRECIPITATION - MAY TO JULY 1972

Above-normal rainfall occurred in Arizona and nearby portions of neighboring States in the 3-month period, May to July. The showers were not abundant but exceeded the normals because the normals are so small. Rainfall in central Arizona was more than twice the normals for the 3-month period. Most other areas west of the Rocky Mountains received less than normal rainfall. Rainfall exceeded the 3-month normals over the western Great Plains, the Appalachians, most of the Atlantic Seaboard, and southern Texas. Less-than-normal precipitation was the rule from northeastern Texas to the Great Lakes and over the Ohio River Valley. Most of the rains were produced by frontal or airmass thunderstorms.

L. W. Dye

(Continued from page 7)

MISSOURI: Week began cool, ended hot and averaged 5° to 8° below normal. Rainfall early in week averaged between 0.50 and 1.00 inch. Heaviest rains in central Missouri which has been the driest. Areas that had less than 2.00 inches of rain since June 1 received over 1.00 inch last week. Five days suitable fieldwork. Corn fair to good condition, 93% silked, 65% dough stage, about week behind last year. Soybeans fair to good, 79% blooming, 55% setting pods, about week behind last year. Cotton mostly good condition, 88% setting bolls, 78% year ago. Grain sorghum 87% headed, 86% in 1971. Third cutting alfalfa 44% complete, 62% last year. Pastures good north-west and Bootheel, mostly fair elsewhere. Soil moisture 39% short, 59% adequate and 2% surplus.

MONTANA: Temperatures averaged from 2° above normal south central to 9° above normal north-central. Warmest temperatures first of week western Montana, midweek central, and last of week eastern portion. Scattered showers north-central and central first of week and most sections over weekend. Rainfall amounts varied greatly in thundershowers. Winter wheat harvest underway, but progress slow, 25% harvested, 55% ripe, 20% turning. Spring wheat 5% harvested, 30% ripe, 45% turning, 20% headed. Some barley and most early oats being harvested for hay. Second crop alfalfa better than 1st crop although damaged by rain. Second cutting 25% complete, wild hay harvest 75% complete. Grasshopper damage light to moderate. Stockwater supplies restored, freshened by rains, mostly adequate. Irrigated crops good progress. Livestock doing well.

NEBRASKA: Dry weather statewide, with rainfall totals under 0.50 inch common. Mild to cool temperatures ushered in the first of week, with hot weather 10th and 11th. Average temperatures week ranged from a few degrees above normal in Panhandle to 4° subnormal in north-east. Hot dry weather statewide weekend. Chadron measuring 104° on 12th. Topsoils short moisture some areas, but subsoil moisture supplies mostly adequate. Irrigation operations resumed most areas. Row crop conditions good to excellent, except for few local areas. Most corn reached silking stage and advancing into roasting ears. Sorghum maturity advancing with some fields turning color. Soybeans making satisfactory development with leaves turning in few fields. About 35% 3d crop alfalfa cut. Livestock conditions were good until weekend, when high temperatures and humidity caused discomfort.

NEVADA: Temperatures averaged 2° above normal extreme south, 5° above normal in northwest, and 6° to 7° above normal in northeast and south-central. Moderate precipitation in south. Elsewhere spotty and light. Second cutting alfalfa and grain harvest remains main farm activities northern and central Nevada. Fifth cutting alfalfa underway. Harvest other hays about 3/4th complete. Alfalfa seed development satisfactory. Cattle and sheep remain fair to good condition. Ranges dry and need moisture.

NEW ENGLAND: Very low daily maxima, most in 60's and 70's. Minima nearer normal but a few in 30's at colder spots on 11th. Week averaged mostly 1° to 5° below normal. Frequent scattered showers and thunderstorms with highly variable rainfall. Totals for week mostly 0.25 to 1.00 inch but ranged from none parts of extreme southeast to over 2.00 inches locally in extreme north. A small tornado in Connecticut on August 7 and a

few on August 9 in Connecticut and Massachusetts. One fatality in Newton, Mass., by a tornado sighted by national weather service from Boston's Logan Airport. This tornado was unusual as it was not associated with a thunderstorm but with relatively low cloud tops. Thunderstorms did occur in many other New England sections, some with damaging wind and hail. Hail up to 3/4 inch size at Burlington, Vt. Harvest seasonal vegetables continues active with some shortages hot weather vegetables. Harvest Havana seed tobacco started shade tobacco harvest on schedule. Picking early apples and peaches began southern areas. Blueberry harvest active all areas. Frequent showers not conducive to haying. Pastures lush. Conditions wet Aroostook County, Maine causing some delay spraying potato crop.

NEW JERSEY: Another cool dry week. Temperatures averaged 2° to 4° below normal. Extremes 91° at Pomona on 9th and 41° at Pemberton on 11th. Rainfall sparse with only half of stations reporting measurable amounts. Heaviest was 1.69 inches on 7th at Charlottesville. Northern New Jersey received an average of 0.50 inch and rest of State averaged around 0.10 inch. Irrigation vegetable crops and late maturing potatoes widespread as topsoils dry out. Harvest processing tomatoes active, harvest summer vegetables continues active. Blueberry picking now light. White potato digging increasing rapidly. Some 3d cutting alfalfa made. Plowing for fall crops and grass seeding underway. Cutting corn for silage began southern areas.

NEW MEXICO: Scattered light showers most general early in week. Few local totals of more than 1.00 inch. Cooler. Below normal average temperatures with greatest departures in southeast. Warming to highest temperatures Saturday then cooling. Lowest temperatures midweek. Soil moisture very short northwest, adequate elsewhere. All crops good to excellent, progressing well. Cotton fruiting heavily. Grain sorghum heading. Harvest corn silage, potatoes, chili peppers underway; onions continuing. Range good except far northwest. Livestock good. Planting wheat starting.

NEW YORK: Second cool week. Maximums mostly in 70's as daytime temperatures especially below normal since August 1. Nights mild except on 10th and 11th when minimums ranged from low 50's eastern Long Island to low 40's southwest Plateau. Showers widespread 7th through 9th. Totals mostly 0.80 to 1.50 inches in west, central, and north but ranged from 0.30 to 2.20 inches. Amounts decreased to 0.40 to 0.90 inch in Hudson Valley. Little or no rain Long Island where precipitation totals last 4 weeks only 0.70 to 1.50 inches. Major farm activities included haying and harvesting wheat and oats. Cool, damp weather slowed progress wheat harvest with about 1/2 completed. Oat harvest just getting underway. Good progress made harvesting hay--mostly 2d cutting alfalfa. Other field crops developing slowly. Digging Long Island potatoes picking up. Pulling early seed onions started Orange County. Harvest sets and transplants active Canastota and Oswego areas. Oswego lettuce harvest continues, quality and size improving. Celery harvest increasing Orange County. Cauliflower harvest started Catskill area. Fruits generally in good condition.

NORTH CAROLINA: Temperatures near normal with highs near 90° and lows in 60's, dropping below normal at weekend. Some near record lows in 50's 11th. Daily showers and a few thunderstorms. Totals 0.25 inch to 3.00 inches averaging 1.00 inch coastal plain

and southern mountains and 0.50 to 0.75 inch elsewhere. Few reports of light hail. Soil moisture mostly adequate. Crop conditions holding--corn, peanuts, soybeans, hays, Irish and sweet potatoes and pastures mostly good. Cotton mostly fair. Peaches mostly fair--harvest late varieties. Apples mostly good--harvest major varieties starting. Harvest flue-cured active. Some fields completed. Selling border, eastern belts--record high prices. Crop mostly good. Planting fall vegetables beginning.

NORTH DAKOTA: Cool with scattered thunderstorms, with hail, and wind first week followed by warming trend on weekend with light precipitation some areas. Temperatures averaged normal to 7° below normal. Highest 98° in northwest and south-central and lowest 40° in northeast and south-central. Precipitation ranged from 0.01 to 1.65 inches, highest in east-central portion of State. Rains slowed progress small grain harvest, but benefited late crops and pasture. Some swathing, but little combining done. Quality swathed small grains not significantly hurt by moisture, but dry weather needed to permit resumed combining to maintain quality. Late-planted small grains and other crops developing well from mostly adequate moisture. Livestock doing well.

OHIO: Two tornadoes last Monday. One struck city of Vermillion, Lorain County, and the other struck Footville near Geneva, Astabula County. Temperatures well below normal. On 10th, Wooster's minimum temperature was 40°. From 7th to 11th, highs were mostly in 70's. On 9th, Youngstown, high only 62°. In southern Ohio, temperatures returned to upper 80's on 12th and 13th. Rainfall amounts were quite variable. On Monday the east side of Cleveland had over 2.50 inches of rain. Southern Ohio continued to have low precipitation amounts. Wet weather limited field work to 5 1/2 days. Below-normal temperatures slow development and maturity most crops while precipitation hampered small grain, hay, and vegetable harvest. Rain not enough to substantially improve soil moisture. Corn 80% silked and 35% dough stage. Last year nearly all silked and 45% dough stage. Soybeans 60% setting pods and less than 15% with pods set leaves green. Oat harvest 80% complete, 90% average progress. Potato harvest made little progress, 2d cutting alfalfa 80% complete while 2d cutting clover-timothy 60% complete. Tobacco acreage 25% topped.

OKLAHOMA: Rainfall averaged 0.10 inch in east-central, northeast, and north-central to 1.10 inch south-central. Temperatures averaged 1° to 5° below normal. Crop condition declined slightly during week as below-normal temperatures and scattered showers minimized loss. All areas report short topsoil moisture. First wheat seeding western panhandle. Sorghum mostly good to fair. Dry soils and heat causing some burning eastern and southern counties. Nearly 2/3 cotton crop now setting bolls--about average most areas--but well above 37% last year. Some sluffing squares and bolls. Peanuts and soybeans good to fair. Dry weather slowing haying operations. Range condition took largest drop since early July.

OREGON: Very hot dry week ended cooler. Temperatures averaged 1° to 5° above normal on coast, 7° to 15° above normal interior. Minima 37° to 57°. Maxima 73° to 93° coast, 94° to 111° interior where several stations had 4 to 8 days of 100° plus and new station extremes were set or equaled. Continuing dry spell now 24 to 33 days most of coast, 50 to 63 days southern 1/4 of State. Thundershow-

ers limited east-central counties, 0.10 to 0.43 inch. Harvest fall and spring grains progressing well. Some areas completed, some late areas not started. Harvest bluegrass, fescue, and rye grass nearly complete. Mint harvest full swing. Harvest broccoli, cucumbers, snap beans, and table beets for processing continues. Shortage pickers for pole beans noted many areas. Peach and summer apple picking continues, Bartlett pears starting. Second and 3d cuttings hay being made. Non-irrigated pastures and ranges extremely dry.

PENNSYLVANIA: Cool, dry week. Temperatures 3° to 6° below normal, as series of cold fronts moved across State. Record or near-record low temperatures Friday morning, with 30's in colder mountain valleys. Extremes 89°, 34°. Rainfall mostly beginning of week and over weekend totaled under 0.25 inch northwest and southeast corners, 1.00 to 1.50 inches parts of northwest interior and mostly 0.25 to 0.75 inch elsewhere. Excellent working conditions. Topsoil moisture 1/2 reported short. Pasture condition declining central and southern counties. Corn 2/3 silked--some southern ears forming in dough stage. Early potato harvest full swing. Harvesting corn for silage just beginning southern counties. Fall seeding wheat and barley underway southern counties--20% planted.

PUERTO RICO: Good showers islandwide except for some parts of western interior and southwest coast. Rainfall averaged 1.76 inches or 0.12 inch above normal. Highest weekly totals 6.97 inches southern slopes and 4.83 inches Luquillo Mountains. Heavy rains eased agricultural drought all sections except for southwest coast and parts of western interior where less than 0.50 inch was received. However, more rain is required to normalize the crop moisture conditions. Temperatures averaged 81° to 83° on coast and 76° to 77° interior with mean departure of 0.8° below normal. Highest maximum 95°, lowest minimum 58°. Sugarcane plantations report rains favorable development sprouts although not evident as yet. Coffee harvesting started some places. Rains helped ease drought. Tobacco plantations report soil being prepared to plant. Pastures favored from rains, but drought effects still evident south and southwest. Salinas cattle losing weight due scarcity pastures. Many minor crops behind planting schedule. Lajas finished harvesting pineapples and applying hormones to stimulate flowering in those already planted for 14 months. Plantains suffered wind damage Barranquitas.

SOUTH CAROLINA: Temperatures averaged slightly above normal in coastal plains and slightly below normal elsewhere. Rainfall was adequate all sections. Three widely scattered locations Union, Ridgeland, Brookgreen Gardens received 4.00 inches or more. Spraying for insects active, boll weevil, bollworm infestation heavy some areas. Soil moisture mostly adequate, tobacco good condition 84% harvested, 83% last year. Cotton fair to good condition, 98% squared, 88% set, 16% open bolls. Corn good to excellent. Essentially all silk, 78% dough stage, 55% mature. Soybeans good condition, 41% bloomed, 20% set pods. Peanuts good to excellent--30% harvested, 17% last year. Lespedeza fair to good. Pastures good. Peaches fair to good, 87% harvested, 89% last year. Grapes fair, 8% harvested. Watermelons fair to good, 87% harvested, 92% last year.

SOUTH DAKOTA: Weekly temperatures averaged from 5° below normal in parts of east to 2° above normal portions of west. Extremes 40° at Brookings on 9th to 106° at Philip on 13th.

Precipitation generally light and fell as scattered showers or thundershowers near beginning and middle of week with amounts mostly from a trace to about 0.35 inch. Widely scattered hail. Hot weather and lack of rain permitted rapid progress small grain harvest. Another week good weather should bring harvest most small grains to an end. Warm sunny weather also promoted rapid growth and development row crops, but rain will soon be needed to maintain optimum growth. Row crop development still behind normal. Topsoil moisture adequate, except shortages northwest extending into north-central and extreme southwest. Most pastures good to excellent condition with many unseasonably green. Livestock condition remains good, but under some hot weather stress. Flies and pink eye still problem.

TENNESSEE: Temperatures averaged from 3° to 6° below normal. Precipitation fell as scattered showers and thundershowers almost daily. Amounts ranged from 4.00 inches parts of northern Cumberland Plateau to less than 0.25 inch in many widely scattered places. Some damage from wind and lightning in Nashville Saturday afternoon. Crops continue to develop at normal or above-normal rates. Hay and tobacco harvests underway though hampered by occasional scattered showers. Soybeans made satisfactory progress, 85% blooming and 40% setting pods. Corn shows good prospects. Virtually all silked and 80% dough stage. Denting 40% complete and over 5% mature. Although cotton making good progress, excessive rainfall hampered insect control and boll weevil populations increasing. Harvest tobacco 10% complete dark-fired and burley, and nearly 5% complete dark air cured. Pasture conditions well above previous year's average. Lespedeza hay harvest week ahead average progress with 35% harvested. Fall plowing also week ahead normal progress with over 30% complete. Days favorable fieldwork averaged 3.2. Soil moisture 58% adequate, 39% surplus and 3% short.

TEXAS: With exception of Lower Valley and Coastal Bend, scattered showers most areas of State. Very heavy amounts of 4.00 to 6.00 inches or more South and East of Lubbock and near Del Rio. 24-hour totals included 6.25 inches at Amistad Dam, 6.85 inches at Rotan Saturday, and 6.00 inches in King County Sunday. Harvest cotton, corn, sorghum, peanuts and rice moved northward. Rains central and southern regions kept harvest from making progress. On Edwards Plateau, southern Low Plains and Cross Timbers, light to moderate rains received. Range and crops prospects: Earlier acreages of wheat and oats seeded. Most farmers still preparing land for seeding. Percent of harvest of major crops: cotton 5, 5 last year; corn, 17, 16 last year; sorghum, 39, 33 last year; rice, 64, 47 last year, peanuts, 13, 2 last year. In High Plains, onion and potato harvest continues with declining supplies available. Cucumber and pepper picking underway. Watermelon harvest to begin in about 2 weeks. In Trans-Pecos, Pecos cantaloupe supplies beginning to decline. Potato digging underway. Tomato harvest to begin September 1. In North Texas, watermelon and cantaloupe harvest continues. In East and Central light supplies watermelon, cantaloupe, tomatoes, squash and cucumbers available. In Winter Garden-San Antonio, planting fall peppers, carrots and winter cabbage underway. In Lower Rio Grande Valley, land preparation and seeding of early fields and vegetables is main activity. Peach harvest near completion except late varieties.

Pecan outlook remains good. Citrus crop making good development with routine care required.

UTAH: A few scattered showers and thunderstorms several sections of State during past weekend, but moisture generally light. Average temperatures between 1° and 6° above normal in most localities. Scattered precipitation and above-normal temperatures limited value of moisture on soil moisture content, which continues very short all non-irrigated crop and range lands--except Cache Valley which is rated short. Soil temperatures at 4-inch depth range from upper 70's at Logan and Richfield, to low 80's at Salt Lake City, and mid-90's St. George. Accumulation of growing degree days since March 1, continues between 100° and 450° days ahead of normal most agricultural areas. Feed supplies on grazing lands now in use rated very poor to poor, except fair Cache County. Second crop alfalfa hay 80% cut, clover-timothy and wild hay 90% cut. Winter wheat harvest 95% completed dry lands, 80% irrigated lands, 90% for all acreage. Spring grain yield good most areas. Percent acreage cut estimated 75% for spring wheat and barley, 60% oats. Corn for grain and silage making good growth--about 65% acreage in silking stage, 30% milk stage, 5% dough stage.

VIRGINIA: Temperatures mostly below normal. Scattered showers and thundershowers mainly near beginning and over weekend. Fieldwork progressed rapidly. Topsoil moisture adequate. Crops grew well. Cultivated late soybeans and peanuts. Topping burley tobacco began. Flue-cured 18% harvested, fire-cured harvest started. Haying active. Harvested cabbages, tomatoes, peaches and early apples.

WASHINGTON: Western Washington: Hot and dry but cooling trend by midweek. Raspberry harvest virtually completed. Blueberries very active, blackberries continue to color. Some sweet corn ready for harvest. Green pea harvest continues with few fields approaching maturity. Harvest vegetable seed crops begun. Pastures dry and getting short. Logging shut down due forest fire danger. East-Central Washington: Hot and dry with excellent conditions for small grain harvest. Harvest dry peas near completion while potato, tomato and sweet corn harvests continuing. Size Bartlett pears excellent as harvest progresses. Apples sizing well. Harvest alfalfa continues. Eastern Washington: Hot and dry. Wheat harvest full swing with yields and quality good. Combining barley continues. Grass seed harvest completed. Grasshoppers south-central Spokane County present problem with new hatches.

WEST VIRGINIA: Light showers until mid-week totaled about 0.50 inch. Much cooler and drier balance of week after cold frontal passage August 9. Lows in 40's August 10 and 11 and in 30's higher elevations. Farm activity increased from previous week as break in general rains allowed farmers to return to making hay, mowing pastures, harvesting small grains and other farm activities. Moisture adequate to surplus most areas. Most barley crop harvested. About 85% wheat and 70% oats harvested. Topping tobacco started.

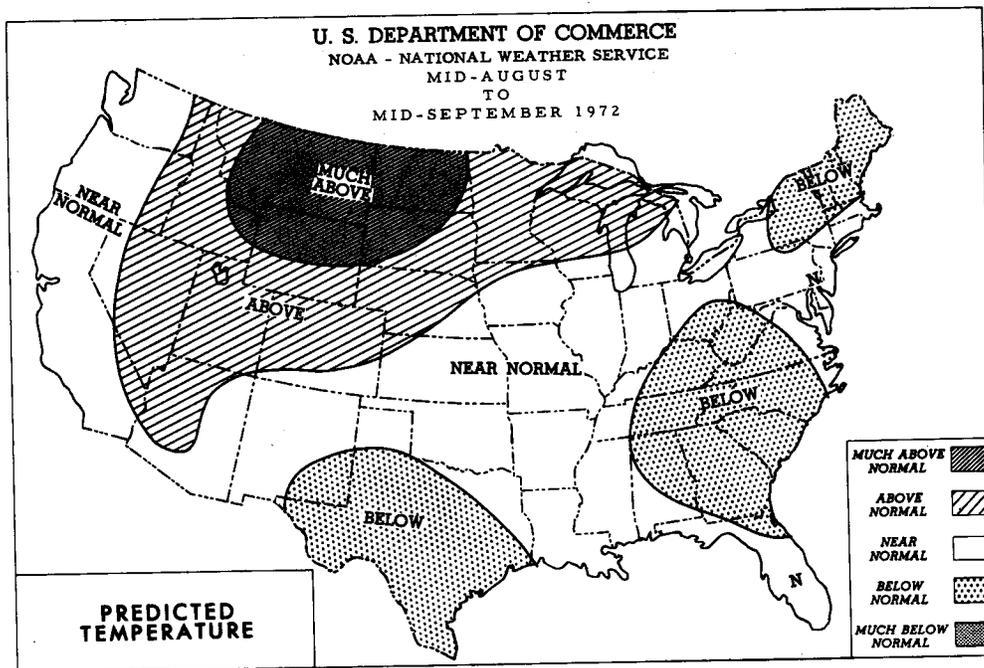
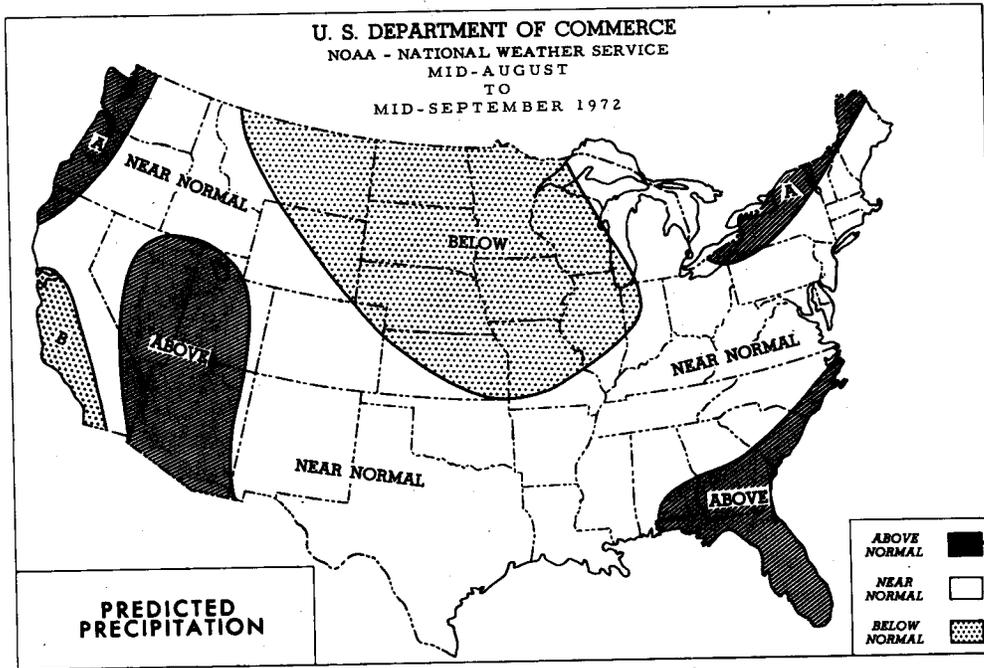
WISCONSIN: Very cool most of week. A return to summer heat over weekend. Monday, Wednesday and Thursday mornings saw near freezing temperatures various portions of State. Rainfall mostly around 1.00 inch. Cool wet weather hampered haying and harvest small grains. About 15% oats

combined, last year 55%. Oat fields often lodged and weedy. Second crop haying about 30% done. Last year 55%. Third crop growing good. Pastures green and productive. Cool weather slowed corn with good soil moisture and return of hot sunny weather, the crop should race along toward maturity. Soybeans and tobacco good. Topping tobacco and spraying against suckers going on. Sweet corn harvest full swing. Soft fields problem some areas. Potatoes, cucumbers, and beans also harvested. Cherry crop about all picked. Soil moisture 80% adequate and 20% surplus.

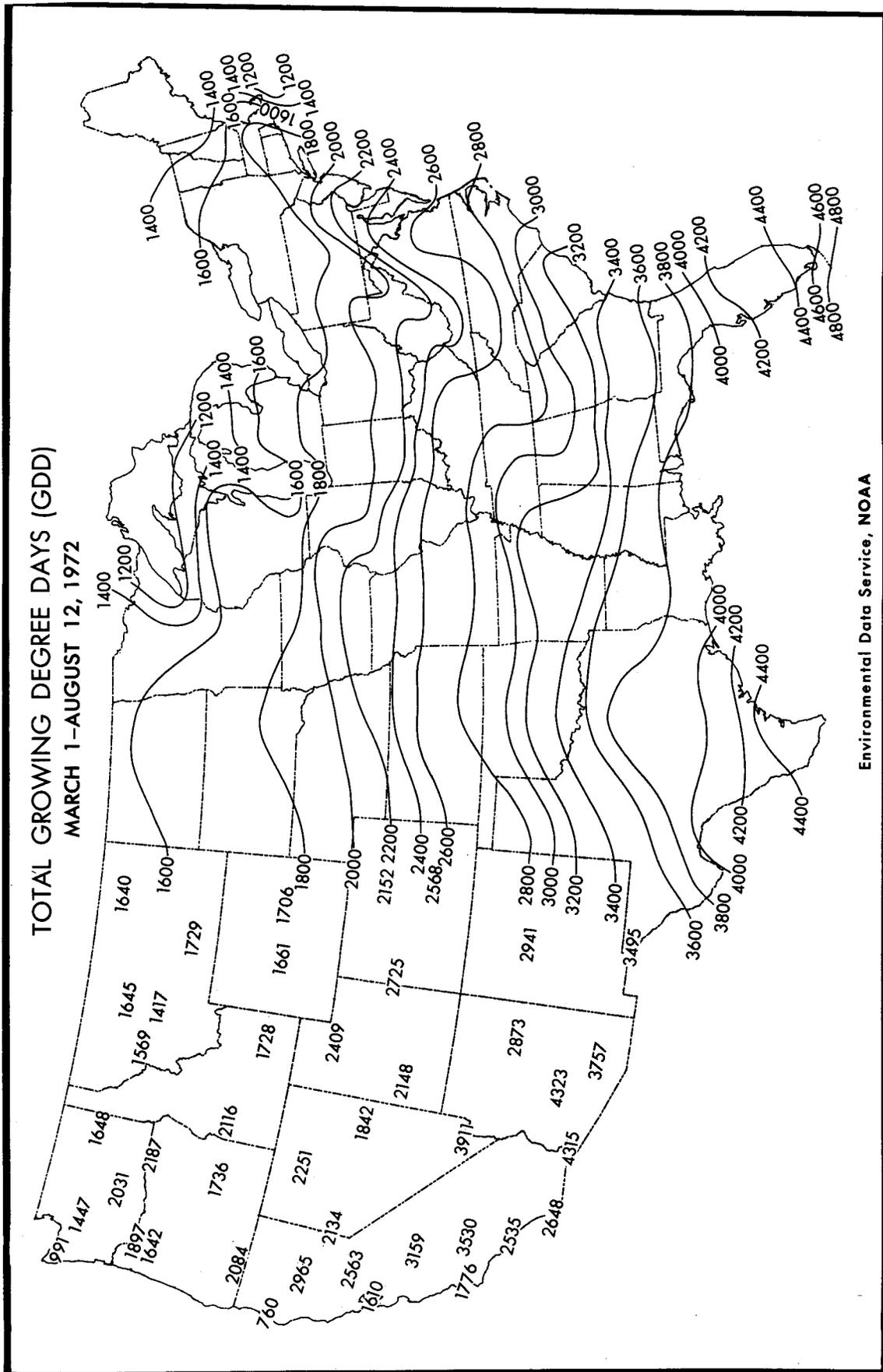
WYOMING: Widely scattered light showers state-wide, more general in Lower Platte Drainage. Chugwater reported most moisture with 0.42 inch. Some scattered hail damage. Temperatures averaged

near normal. Maxima mostly 85° to 95° west of Divide and Upper Platte Drainage, 90's elsewhere. Minima mostly 35° to 45° west of Divide, 40's to low 50's east. Temperature extremes: 101° at Thermopolis and 31° at Big Piney. Agricultural activities included harvesting small grains, haying, irrigation, and tending livestock. About 50% 2d crop alfalfa and over 2/3 other hays cut. Warmer weather increased development small grains with winter wheat harvest about 3/4 completed. Barley and oat harvest continues with about 1/2 harvested. Spring wheat harvest just underway few areas. Most corn tasselled. Fall and winter grazing prospects good; with prospects for fall and winter hay supplies average. Pasture and range conditions fair to good with soil moisture supply short to adequate.

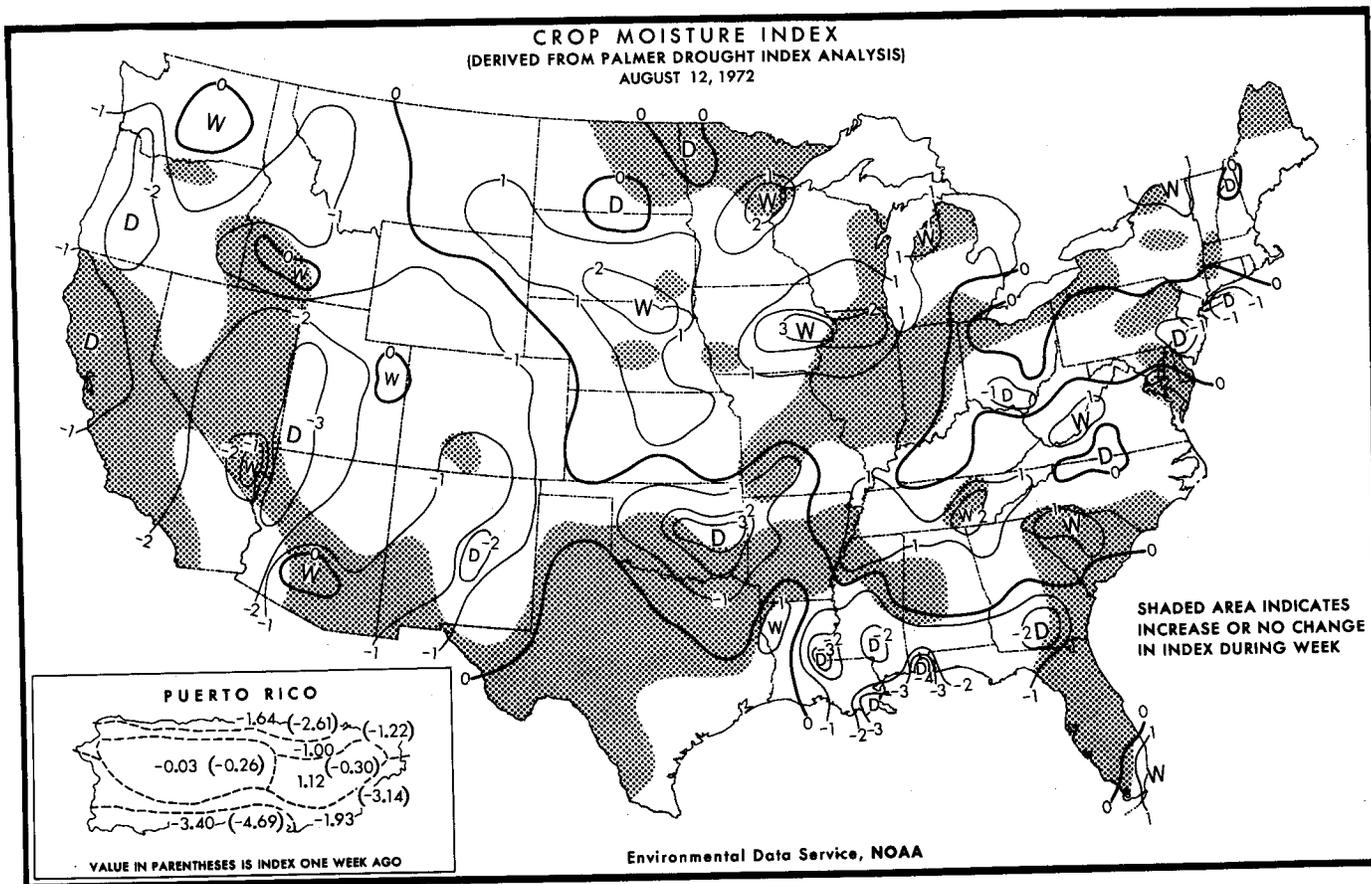
AVERAGE MONTHLY WEATHER OUTLOOK



The above prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They were extracted from the Extended Forecast Division's publication "Average Monthly Weather Outlook" which contains additional information necessary for complete interpretation.



Environmental Data Service, NOAA



INDEX DECREASED DURING WEEK
(Unshaded Areas)

INDEX INCREASED OR DID NOT CHANGE DURING WEEK
(Shaded areas)

INDEX

ABOVE 3.0 SOME DRYING, BUT STILL EXCESSIVELY WET.
 2.0 to 3.0 MORE DRY WEATHER NEEDED, WORK DELAYED.
 1.0 to 2.0 FAVORABLE, EXCEPT STILL TOO WET IN SPOTS.
 0 to 1.0 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK.
 0 to -1.0 TOPSOIL MOISTURE SHORT, GERMINATION SLOW.
 -1.0 to -2.0 ABNORMALLY DRY, PROSPECTS DETERIORATING.
 -2.0 to -3.0 TOO DRY, YIELD PROSPECTS REDUCED.
 -3.0 to -4.0 POTENTIAL YIELDS SEVERELY CUT BY DROUGHT.
 BELOW -4.0 EXCEPTIONALLY DRY, MOST CROPS ABOUT RUINED

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 ABOVE NORMAL, 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.
 -3.0 to -4.0 DROUGHT CONTINUES, RAIN URGENTLY NEEDED.
 BELOW -4.0 NOT ENOUGH RAIN, STILL EXCEPTIONALLY DRY.

The map above is based on weekly areal mean values of temperature and precipitation for 350 climatological divisions. Weather during previous weeks has been taken into account through successive weekly computations of both topsoil and subsoil moisture. The map shows recent crop moisture conditions; i.e., areas in which crops have been hindered by abnormal dryness or wetness, and areas where moisture conditions have been favorable.

This is a generalized picture; local variations caused by the occurrence or absence of heavy rain or by soil differences are not shown. Shallow rooted crops and crops in areas with poor soils are likely, on occasion, to suffer more than indicated. Conditions may be better than shown in areas having exceptionally good soils.

The legend applies primarily to growing rather than matured vegetation. Interpretation of the

effects on crops and native vegetation must, therefore, take account of the stage of growth as well as the status and trend of moisture conditions. The trend is indicated by the shading which denotes areas where the index did not decrease below its value of a week previous; i.e., conditions did not become noticeably drier during the week. A trend toward drier occurred in the unshaded regions. The lines show the crop moisture situation according to the computed index values which may be interpreted using the legends above. One legend applies to the unshaded areas, the other to the shaded. Centers of relative maximum and minimum index values are marked for easier recognition - W for wet and D for dry. In irrigated regions the index values merely reflect departures from ordinary irrigation requirements.

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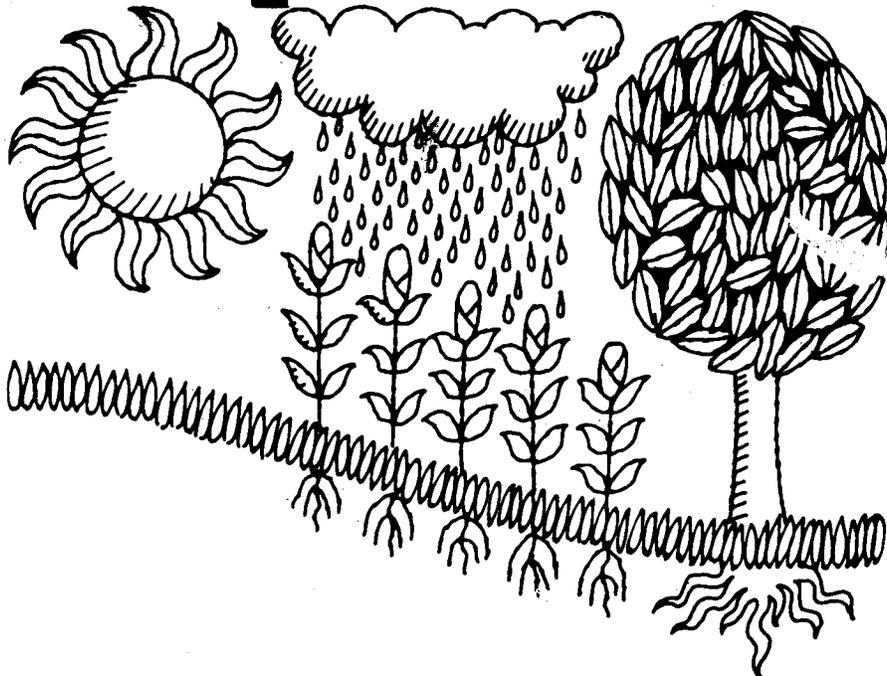
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