

WEEKLY WEATHER AND CROP BULLETIN

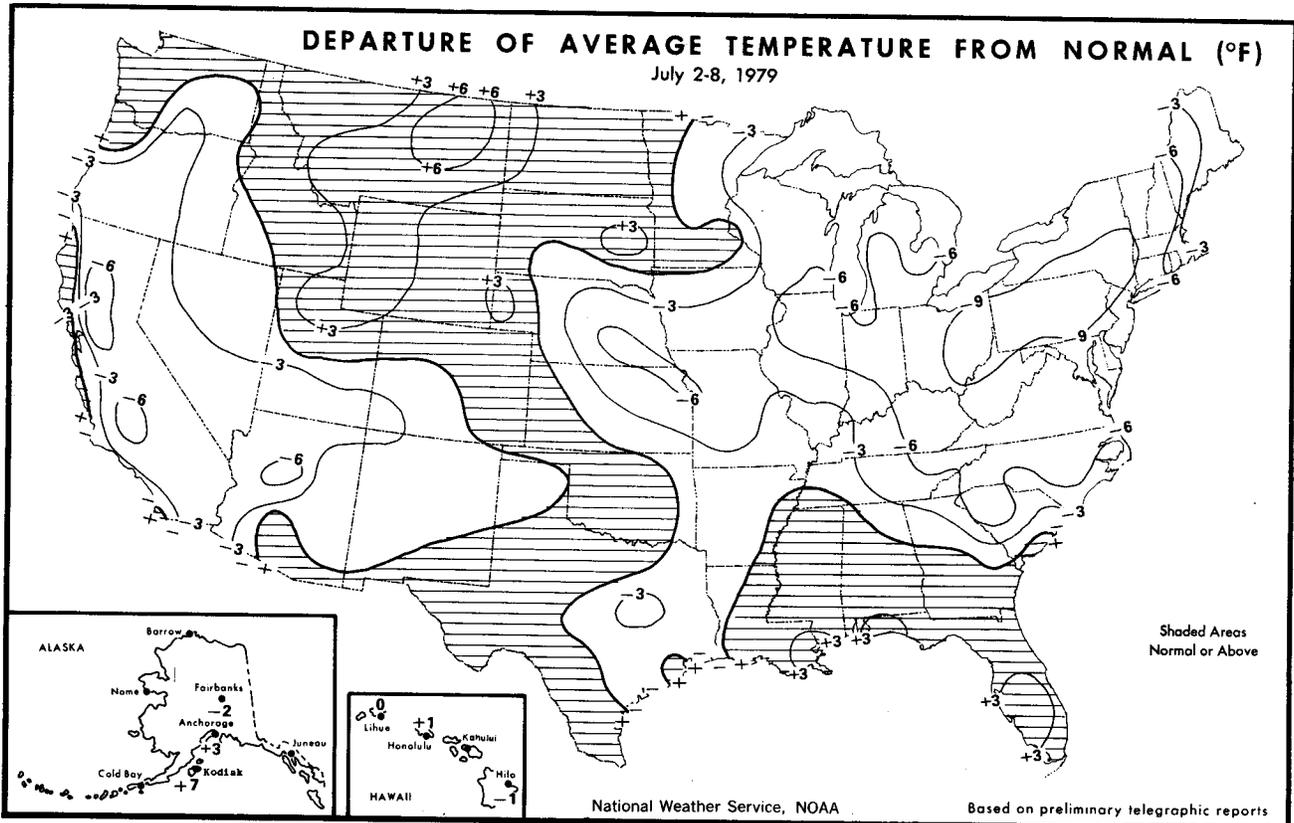
U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

Volume 66, No. 28

Washington, D.C.

July 10, 1979



National Weather Summary

July 2 - 8

HIGHLIGHTS: A cold front moved into the north central United States and became stationary over the South and southern Plains by week's end. Showers and thunderstorms, some severe, formed along the front in its trek southward. The greatest rain accumulations occurred in the South and central Plains; some stations reported more than 5 inches.

The front ushered in unseasonably cool air; many record low readings chilled the Midwest and Eastern Seaboard. Only the Rocky Mountains showed warmer than normal temperatures.

On Monday, rain extended from the northern Plains to the upper Midwest; 2 inches soaked an

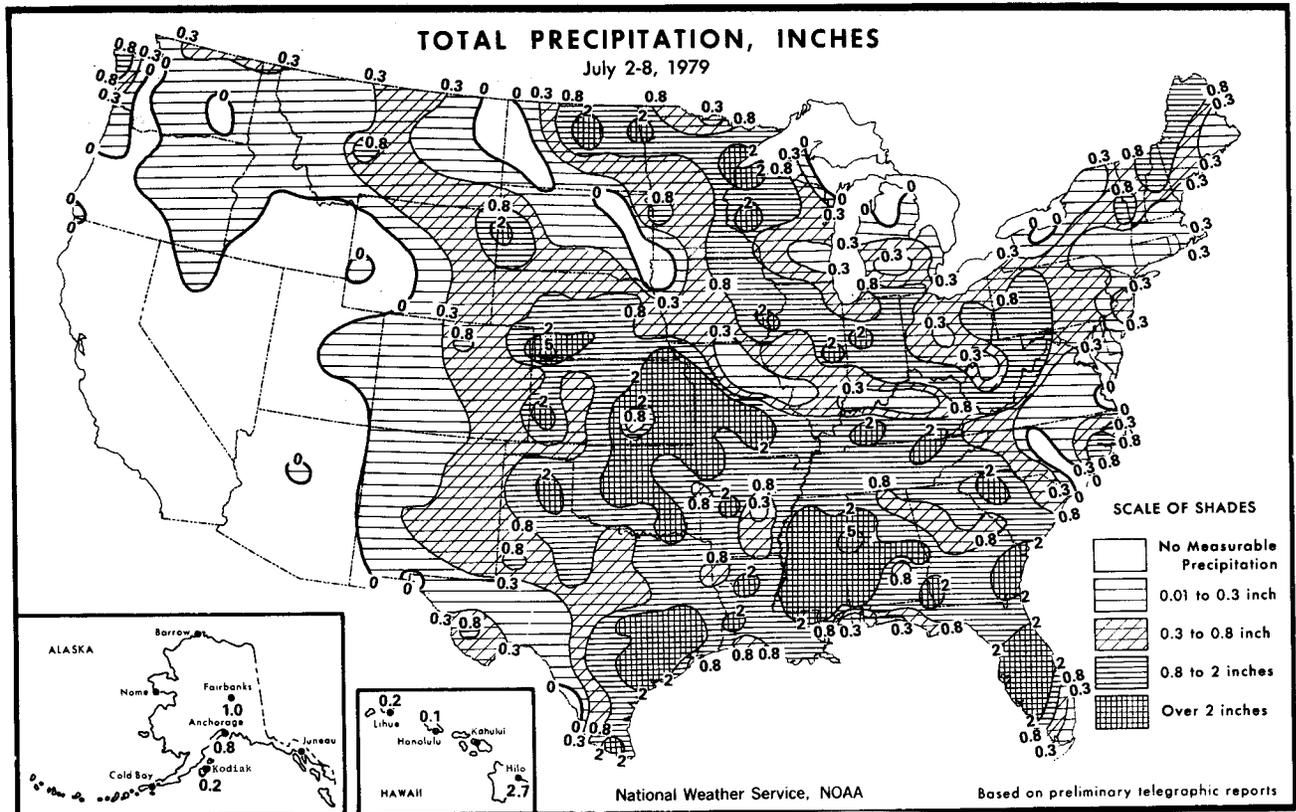
area outside Grand Forks, eastern North Dakota, and Duluth, eastern Minnesota. A warm front over Alabama triggered rain and some hail; 2 inches fell in Clay, just north of Birmingham, Ala.

Temperatures were unseasonably cool in the Pacific Northwest and the Midwest. In Washington State's mountains, Stampede Pass set a July record when 5.8 inches of snow blanketed the region. To the east, Fort Wayne, northeastern Indiana, established a record low reading of 50°.

Storms continued in the Dakotas, upper Midwest, and Deep South on Tuesday. By afternoon, storms also moved through the west central Plains to the middle Mississippi Valley.

More than 3 inches drenched parts of central North Dakota, and Duluth got another inch and some flooding. Severe weather extended from north-eastern Colorado to Illinois. Wind gusts to 92 mph and 5 to 6 inches of rain bore down on extreme northwestern Kansas. Tornadoes touched down in Minnesota, Iowa, and Illinois.

In the South, nearly 2 inches fell near Montgomery, Ala., and a tornado was sighted in Florida.



Independence Day brought rainy weather to a large segment of the Nation.

Rain, sometimes heavy, stretched from the Dakotas across the Mississippi and Ohio Valleys to the Atlantic Coast. A sampling of rainfall amounts showed one to 2 inches in the Wyoming/South Dakota border area; nearly 3.5 inches at Lafayette, western Indiana; 1.8 inches at Bluefield, southern West Virginia; and by day's end, 4.2 inches at Emporia, eastern Kansas.

Temperatures soared in Georgia where records hit 101° at Macon and tied the Columbus mark of 98°. Just before midnight, Harrisburg, Pa., notched a record low of 54°.

On Thursday, a cold front extended from the Southeast to the Plains setting off heavy thunderstorms. More than 3 inches covered Oklahoma City; nearly 2 inches soaked San Antonio, Iola, southeastern Kansas, and Brunswick, southeastern Georgia; and about 1.5 inches fell on Kansas City and Greenwood, west central Mississippi.

Storms also cropped up in the Rockies and upper Midwest; portions of the Denver area noted an inch of rain, and three tornadoes whirled through northwestern Minnesota.

Record cold temperatures chilled the East and small sections of the Midwest and West Texas. For example, new marks included Baltimore's 51°, New York's 53°, Pittsburgh's 46°, a record-equaling 48° at Fort Wayne, Ind., and El Paso's 57°. Some snow fell in the mountains of eastern New York State, and the 53° at Binghamton, southern New York, represents the lowest July maximum reading there ever; the previous record was 60°.

Heavy rains lingered over the southern Plains, while record-breaking cool weather again covered a large portion of the country's eastern half on Friday.

Oklahoma City measured 1.3 inches of rain, running its 24-hour total to 4.5 inches. Five inches

drenched Georgetown, just north of Austin, Tex. Jackson, Miss., reported more than 3 inches.

Not only were record low temperatures the order of the day at many stations, but record low readings for the month dotted the roster. Scranton/Wilkes Barre, eastern Pennsylvania, tallied a new July low of 43°, while Baltimore, at 51°, and Roanoke, southwestern Virginia, at 48°, tied their marks. Of the two dozen records, New York showed 54°; Wilmington, Del., posted 50°; and Cedar Rapids, eastern Iowa, scored 50°.

On Saturday, storms ranged over the Nation's southeastern quadrant and lower half of the Plains. Nearly 2 inches of rain soaked Crossville, eastern Tennessee, and Tampa, Fla., while about 3 inches accumulated at Dothan, southeastern Alabama, and Savannah, southeastern Georgia.

To the west, nearly 2 inches fell on Houston, and eight tornadoes and large hail struck central and north central Nebraska.

Record low readings again visited the East. Norfolk, southeastern Virginia, set a July low of 54°. Other records showed Baltimore's 55°, 44° at Albany, N.Y., and 46° at Hartford, Conn.

Early morning storms erupted over the Ohio and Tennessee Valleys Sunday and later dipped to the south. Two to 4 inches drenched the Bowling Green, southern Kentucky vicinity. By day's end, 5 inches had soaked an area near Columbus, northeastern Mississippi, and Daytona Beach, Fla., gathered 2.5 inches.

Heavy storms rumbled from the northern Rockies to the Plains; hail and high winds accompanied rain.

Low temperature records cooled a few points in the East, including 54° at Harrisburg, Pa., Roanoke's 50°, and 53° at Raleigh, N.C. Reno, western Nevada, noted a record-tying 38°.

A rare July weather occurrence showed normally steamy Atlanta, Ga., sharing the Nation's afternoon low temperature of 62° with Point Piedras, Calif.



National Agricultural Summary

July 2 - 8

HIGHLIGHTS: Subnormal temperatures in most row crop production areas slowed crop development. Degree-day accumulations fell below normal. Rains improved soil moisture, particularly in the southern Plains and the south central States, but many localities reported dry soils. Farmers had at least four days or more suitable for field-work. Winter wheat harvest advanced northward into Nebraska and became more widespread throughout the north central States. Combining of winter wheat advanced to 43%, falling short of 1978's 63% and the 66% average. Corn rated mostly good as the crop began tasseling in the Corn Belt. Soybean planting was almost complete on double-crop acreage. Soybean bloom just got started in all major production areas. Cotton squaring was well advanced, with boll set just beginning in the Delta and western areas. Grain sorghum planting neared completion; the crop rated good, with harvest limited to Texas. Rice rated good; heading narrowed to Texas and Louisiana. Grassland rated fair to good providing adequate forage in all areas, although western rangelands lay dry and browning. Early apple and peach harvests advanced as far north as New Jersey. Low temperatures slowed vegetable development, but summer vegetable picking increased in northern areas. Fuel supplies improved from the previous week. LP gas rated 13% tight and 84% adequate. Diesel fuel rated 40% tight and 56% adequate. Gasoline scored 36% tight and 61% adequate. Trucks were more readily available to haul farm products to market.

SMALL GRAINS: Winter wheat combining slowly advanced northward, although rains in some areas delayed progress. In the 15 major producing States, harvest reached 43% complete---an 18-point increase for the week. Last year combining stood at 63% and on the average 66%. Harvest in Oklahoma and Texas was about finished, while in Kansas and Nebraska, progress lagged last year and the average by 30 to 40 points. Winter wheat combining just began in the Pacific Northwest.

Spring grain growth in the northern Plains advanced quickly, but fell behind recent years because of the late planting season. Spring wheat heading reached 21% in North Dakota and 27% in Minnesota, 25 to 50 points below last year and average. Heading was almost on schedule in other spring wheat States.

CORN: Corn generally rated good throughout the Nation, although dry soils stressed the crop in some parts of the South; most of the southern crop reached the silk stage and moved into the dough stage. Only Florida reported some harvest activity. In the eastern Corn Belt, corn growth generally exceeded last year, although low temperatures slowed growth. A few fields began tasseling. In the western Corn Belt, plant growth fell short of last year and average; tasseling ranged from 4% in Iowa to 5% in Kansas and 21% in Missouri.

SOYBEANS: Soybean planting on double-crop acreage continued but should wind down in another week. The crop generally rated good in the north central States, and fair to good in the south central States. Soybean bloom ranged from just beginning to 15% in the Corn Belt. Growth gen-

erally exceeded last year but lagged the average. In the south central States, bloom ranged from 2% in Tennessee, Mississippi, and Arkansas to 16% in Alabama and Louisiana.

COTTON: Cotton rated fair to good across most of the South but good to excellent in Arizona and New Mexico. Development lagged recent years, however, good weather speeded growth. Squaring advanced actively in all areas except the Plains areas of Texas and Oklahoma. Boll set was underway in the West and Delta areas and well advanced in the Southeast.

OTHER CROPS: Grain sorghum seeding neared completion in the seven major producing States; the crop generally rated good. Heading advanced as far north as Oklahoma. Only Texas reported harvest, which stood at 9%, slightly behind last year's 12% and the 14% average.

Rice rated good with heading ranging from just beginning in Mississippi to 40% in Louisiana and 67% in Texas. Texas reported 10% of the rice beginning to show color change.

Potatoes made good growth, although rain damaged some of the Maine crop. In Idaho, 80% of the acreage grew to 12 inches or greater, and 25% began lapping the middle of the rows.

FRUIT & NUTS: Apple and peach picking began as far north as New Jersey. Apple size was reported good in all areas thanks to adequate soil moisture. A few local areas in the South needed additional rain to sustain apple development. Peach harvest ranged from 37% in North Carolina to 39% in South Carolina and 71% in Georgia. Movement to market improved as more trucks became available from the previous week. Sweet cherry harvest advanced throughout all northern production areas; tart cherry harvest was just getting started. Western deciduous fruit growers harvested grapes, nectarines, and plums in addition to apples, peaches, and cherries. Florida citrus groves rated excellent under the influence of high daytime temperatures and adequate soil moisture supplied by scattered thunderstorms. The Valencia harvest was about done in Florida and California.

VEGETABLES: Florida vegetable harvests were nearly finished, although light supplies of watermelons, tomatoes, sweet corn, cucumbers, eggplant, peppers, and okra were available. Florida growers prepared land for summer and fall seedings. Texas growers harvested a wide variety of melons and vegetables; crops needed additional moisture in some areas. Texas growers prepared land for fall seedings. California growers harvested melons, broccoli, celery, sweet corn, and lettuce as picking moved from southern areas into the San Joaquin Valley. Green pea harvesting moved well along across northern production areas. Summer vegetable picking increased, although low temperatures delayed development of some crops in extreme northern areas.

PASTURES & LIVESTOCK: Pastures rated fair to mostly good providing adequate amounts of forage for cattle. In the West, drying conditions browned some low elevation grasslands; precipitation would be beneficial. Fire danger became more of a problem. Grasshoppers continued to plague parts of the Plains area and the West with some encroachment into cropland in spite of spray programs. Cattle rated good with adequate stock water available in all areas. Heat and dry rangeland stressed cattle in some areas of the West.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., July 8, 1979

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	80	0	1.8	+ .6	LA. Baton Rouge	84	+ 2	1.2	- .2	Youngstown	61	- 9	.3	- .6
Mobile	83	+ 2	.2	- 1.8	Lake Charles	83	+ 1	.8	- .7	OKLA. Okla. City	83	+ 3	4.8	+ 4.1
Montgomery	81	0	.5	- .7	New Orleans	85	+ 3	1.5	0	Tulsa	83	+ 2	1.6	+ .7
ALASKA Anchorage	61	+ 3	.8	+ .4	Shreveport	82	- 1	.6	- .1	OREG. Astoria	60	+ 1	.1	- .2
Barrow	--	--	--	--	MAINE. Caribou	61	- 3	.9	0	Burns	63	- 3	T	- .1
Fairbanks	60	- 2	1.0	+ .6	Portland	64	- 3	.2	- .4	Medford	67	- 3	0	- .1
Juneau	--	--	--	--	MD. Baltimore	68	- 8	.6	- .3	Pendleton	69	- 3	T	- .1
Kodiak	60	+ 7	.2	- .6	MASS. Boston	71	- 1	.1	- .5	Portland	67	+ 1	T	- .2
Nome	--	--	--	--	Chatham	65	--	.3	--	Salem	65	0	T	- .1
ARIZ. Flagstaff	58	- 6	T	- .4	MICH. Alpena	61	- 4	.1	- .5	PA. Allentown	65	+ 9	.3	- .6
Phoenix	91	+ 1	0	- .1	Detroit	64	- 8	.2	- .5	Erie	61	- 7	.4	- .4
Tucson	86	0	0	- .4	Flint	64	- 5	.3	- .4	Harrisburg	65	- 11	.3	- .5
Winslow	75	- 2	T	- .2	Grand Rapids	65	- 6	.3	- .5	Philadelphia	68	- 8	.2	- .7
Yuma	88	- 4	0	0	Houghton Lake	60	- 6	T	- .8	Pittsburgh	62	- 10	1.1	+ .2
ARK. Fort Smith	80	- 1	.7	- .1	Lansing	63	- 8	.2	- .5	Scranton	60	- 12	.4	- .5
Little Rock	80	- 1	.2	- .6	Marquette	61	- 2	0	- .9	R. I. Providence	66	- 5	.1	- .5
CALIF. Bakersfield	75	- 8	0	0	Muskegon	64	- 5	.7	+ .1	S. C. Charleston	80	0	1.5	- .4
Eureka	59	+ 3	0	- .1	S. Ste. Marie	58	- 5	0	- .6	Columbia	75	- 6	1.5	+ .3
Fresno	74	- 5	0	0	MINN. Duluth	61	- 3	3.1	+ 2.2	Greenville	71	- 7	2.2	+ 1.2
Los Angeles	69	- 3	0	0	Internatl Falls	64	- 1	.2	- .8	S. D. Aberdeen	71	+ 1	T	- .7
Red Bluff	74	- 7	0	0	Minneapolis	71	0	.6	- .3	Huron	71	0	1.2	+ .6
San Diego	70	+ 2	0	0	Rochester	71	+ 2	1.2	+ .3	Rapid City	73	+ 1	T	- .8
San Francisco	62	0	T	0	St. Cloud	67	- 2	.4	- .4	Sioux Falls	75	- 3	1.4	+ .2
Stockton	71	- 5	0	0	MISS. Jackson	82	+ 1	3.7	+ 2.8	TENN. Chattanooga	72	- 6	1.6	+ .5
COLO. Denver	72	+ 1	.3	- .1	Meridian	83	+ 2	2.0	+ .9	Knoxville	83	+ 2	3.9	+ .1
Grand Junction	75	- 2	T	- .1	MO. Columbia	73	- 3	.2	- .8	Memphis	76	+ 3	1.5	+ .7
Pueblo	75	0	.4	- .5	Kansas City	71	- 6	2.5	+ 1.4	Nashville	76	- 3	1.5	+ .1
CONN. Bridgeport	66	- 7	.2	- .6	St. Louis	76	- 2	.1	- .8	TEX. Abilene	84	+ 1	1.0	+ .4
Hartford	65	- 7	T	- .8	Springfield	74	- 3	.8	- .1	Amarillo	76	- 2	1.0	+ .3
D. C. Washington	72	- 6	.2	- .6	MONT. Billings	75	+ 5	.4	+ .1	Austin	83	- 1	1.6	+ 1.1
FLA. Apalachicola	83	+ 2	.5	- 1.2	Glasgow	75	+ 7	.1	- .3	Beaumont	82	- 1	.9	- .4
Daytona Beach	83	+ 2	4.3	+ 2.3	Great Falls	67	0	- .1	- .3	Brownsville	85	+ 1	1.3	+ .9
Ft. Myers	85	+ 3	2.5	+ .3	Havre	70	+ 2	.5	+ .1	Corpus Christi	85	+ 1	1.4	+ 1.0
Jacksonville	82	+ 1	1.0	- .6	Helena	69	+ 3	T	- .3	Del Rio	87	+ 1	.2	- .1
Key West	86	+ 2	.1	- .9	Kalispell	65	+ 2	.2	- .1	El Paso	83	+ 1	T	- .3
Lakeland	--	--	--	--	Miles City	77	+ 5	.3	- .2	Fort Worth	85	+ 1	1.1	+ .6
Miami	84	+ 2	.2	- 1.6	Missoula	67	+ 2	.2	- .1	Galveston	83	0	.7	- .4
Orlando	84	+ 3	3.1	+ 1.1	NEBR. Grand Island	69	- 6	1.4	+ .6	Houston	83	0	2.8	+ 1.8
Tallahassee	83	+ 2	.8	- 1.2	Lincoln	71	- 5	.7	- .2	Lubbock	83	+ 4	.5	- .1
Tampa	84	+ 2	2.4	+ .5	Norfolk	71	- 4	1.4	+ .5	Midland	84	+ 2	T	- .4
W. Palm Beach	83	+ 1	T	- 1.7	N. Platte	72	- 1	.8	0	San Angelo	84	0	T	- .3
GA. Atlanta	76	- 2	.3	- .8	Omaha	71	- 3	.6	- .3	San Antonio	85	+ 1	1.9	+ 1.4
Augusta	77	- 3	.7	- .4	Valentine	71	- 2	.5	- .2	Victoria	82	- 2	2.1	+ 1.5
Macon	81	0	.6	- .4	NEV. Ely	63	- 2	0	- .1	Waco	82	- 3	.4	0
Savannah	81	0	3.7	+ 2.0	Las Vegas	86	- 2	0	- .1	Wichita Falls	87	+ 2	.6	0
HAWAII. Hilo	74	- 1	2.7	+ .8	Reno	64	- 4	T	- .1	UTAH. Blanding	69	- 3	T	- .1
Honolulu	81	+ 1	.1	0	Winnemucca	68	- 1	T	- .1	Salt Lake City	79	+ 5	0	- .2
Kahului	--	--	--	--	N. H. Concord	61	- 8	T	- .8	VT. Burlington	63	- 6	.4	- .4
Lihue	78	0	.2	- .2	N. J. Atlantic City	67	- 7	.3	- .6	VA. Lynchburg	68	- 7	.1	- .8
IDAHO. Boise	71	- 1	T	- .1	Trenton	67	- 8	.5	- .5	Norfolk	72	- 6	T	- 1.2
Lewiston	73	+ 1	T	- .2	N. MEX. Albuquerque	76	- 2	.2	- .1	Richmond	71	- 7	.2	- 1.0
Pocatello	70	+ 1	0	- .1	Roswell	80	+ 1	.6	+ .2	Roanoke	67	- 8	.2	- .6
ILL. Cairo	--	--	--	--	N. Y. Albany	63	- 9	.1	- .6	WASH. Colville	67	0	T	- .2
Chicago	68	- 6	.4	- .6	Binghamton	59	- 10	.1	- .7	Omak	69	0	.2	0
Moline	68	- 6	.9	- .2	Buffalo	63	- 7	T	- .6	Quillayute	58	0	1.3	+ .7
Peoria	69	- 6	.5	- .4	New York	70	- 6	.1	- .7	Seattle-Tacoma	65	+ 1	T	- .2
Rockford	65	- 7	.9	- .1	Rochester	64	- 7	0	- .6	Spokane	67	- 1	T	- .1
Springfield	73	- 3	.5	- .5	Syracuse	63	- 8	.3	- .4	Walla Walla	73	- 1	T	- .1
IND. Evansville	75	- 2	.3	- .6	N. C. Asheville	68	- 5	1.5	+ .4	Yakima	67	- 3	T	- .1
Ft. Wayne	65	- 8	1.3	+ .4	Charlotte	73	- 5	.5	- .5	W. VA. Beckley	62	- 8	1.3	+ .2
Indianapolis	67	- 8	1.2	+ .3	Greensboro	70	- 7	T	- 1.0	Charleston	67	- 8	.2	- .9
South Bend	67	- 5	.3	- .6	Hatteras	73	- 4	.5	- .8	Huntington	68	- 7	1.2	+ .3
IOWA. Burlington	70	- 5	1.4	+ .4	Raleigh	70	- 7	.1	- 1.0	Parkersburg	65	- 10	.2	- .8
Des Moines	71	- 3	.4	- .5	Wilmington	75	- 5	T	- 1.8	WISC. Green Bay	65	- 3	.7	- .1
Dubuque	67	- 4	1.0	- .1	N. DAK. Bismarck	71	+ 2	.1	- .5	La Crosse	68	- 4	.5	- .4
Sioux City	72	- 2	T	- .9	Fargo	70	+ 1	.5	- .3	Madison	64	- 5	.3	- .7
KANS. Concordia	73	- 4	1.2	+ .3	Williston	61	+ 3	T	- .6	Milwaukee	63	- 6	.2	- .6
Dodge City	78	0	.5	- .2	OHIO. Akron-Canton	71	- 10	.9	0	WYO. Casper	71	+ 2	.2	- .1
Goodland	75	+ 1	.2	- .4	Cincinnati	68	- 7	1.8	+ .8	Cheyenne	68	0	.6	+ .1
Topeka	73	- 4	2.6	+ 1.5	Cleveland	63	- 8	.4	- .4	Lander	71	+ 3	T	- .2
Wichita	79	- 1	.7	- .4	Columbus	66	- 7	.2	- .8	Sheridan	68	0	.7	+ .3
KY. Lexington	70	- 6	T	- 1.1	Dayton	66	- 8	.6	- .2	P. R. San Juan	84	+ 3	2.1	+ .7
Louisville	72	- 5	T	- .9	Toledo	64	- 8	.7	- .1					

Based on 1941-70 normals

Publication of the Weekly Weather and Crop Bulletin began in 1872 as the Weekly Weather Chronicle. It is issued under general authority of the Act of January 12, 1895 (44USC 213), 53d Congress, 3d Session. Contents of the Bulletin may be reprinted freely, with proper credit.

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State Summaries of Weather and Agriculture

These summaries provide brief descriptions of crop and weather conditions important on a national scale. More detailed data are available in Weather and Crop Bulletins published each Monday by ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Temperatures generally above normal thru 6th. Dropping below normal by weekend. Scattered showers with heaviest on 7th and 8th.

Fieldwork: 5.9 days suitable. Soybeans fair to good; 16% blooming, 11% 1978, 14% average. Corn fair; 60% silked, 76% 1978; 65% average. Cotton fair to good: 75% squaring, 52% 1978, 62% average. Peanuts good: 35% pegging, 40% 1978, 56% average. Pastures fair to good.

ALASKA: Tanana Valley and Matanuska Valley temperatures cooled from highs in 80's during early week to highs in upper 50's by end of week. Rain fell during 2d half of week and averaged above normal. Seasonal rainfall above normal most areas. Kenai Peninsula and Kodiak Island temperatures well above normal. Seasonal rainfall near normal on Kenai Peninsula and about 4.00 in. above normal on Kodiak Island.

Sunshine and warm temperatures early in week paved way for ideal growing conditions and making hay in Matanuska Valley. Rain and cooler temperatures from midweek onward limited farming activities. Hay harvest nearing halfway point. Oat and barley fields made good to excellent growth. Over 80% all grain fields in boot stage or beyond. Early fields headed. Potatoes and commercial vegetable excellent growth. Soil moisture ranged short some areas Matanuska Valley, surplus in Salcha and Talkeetna.

ARIZONA: Unusually dry. Temperatures near normal southeast and central areas; 7° below normal north. Rainfall central mountains 2d, less than 0.10 in.

Fieldwork uninterrupted. Major activities: Weed control, irrigation, application insecticides. Cotton making excellent progress; setting bolls southwest. Bolls earlier fields near maturity. In central, plants making growth, setting fruit. Excessive square loss some fields. Southeast hot weather stimulated growth. Insect populations spotted, insecticides applied as required. Sorghum making good progress, 67% crop in Yuma beginning to head, 25% turning color. Corn central, southwest beginning to develop ears, approaching harvest for silage. Normal cultural practices southwest where most corn for grain produced. Safflower making normal progress. Fourth cutting alfalfa hay nearly complete Yuma; making normal progress central. Harvest cantaloups nearly complete Yuma. Central area production continues supplies for local markets. Harvest grapes, plums complete. Vineyards, orchards open for pick-your-own. Normal practices in citrus groves. Northern areas supply of fuel adequate. Availability of gasoline and diesel beginning to tighten in principal farming areas of south. Range, pasture conditions good. Stock water, soil moisture adequate. Feed on ranges normal. Cattle, calves good condition. Grasshoppers problem. Extreme fire danger.

ARKANSAS: Hot through midweek. Cooler last part of week. Temperatures 4° subnormal to 2° above normal. Precipitation less than 1.00 in. Most precipitation 2.99 in.; least 0.07 in.

Soil moisture adequate to short. Fieldwork: 6.0 days suitable. Diesel 61% tight and 35% adequate; gasoline 40% tight and 57% adequate; LP gas 87% adequate. Soybean planting virtually completed; good to fair condition; 2% bloomed. Cotton fair condition; acceptable stands 92%, 62% squaring, 7% setting bolls. Rice good to fair

condition. Corn and sorghum good to fair condition. Corn development in milk stage. Sorghum heading. Harvest of wheat and oats completed. Tomato volume increasing, quality excellent. Peach size and quality good. Hay and pastures fair. Cattle good condition.

CALIFORNIA: Temperatures generally cooler than normal.

Small grains harvest continued. Barley 75%, wheat 74% harvested. Desert wheat harvest complete. Cutting, baling alfalfa, grain hay continued. Cotton squaring 90%, 70% blooming, 17% setting bolls. Cool temperatures delayed growth, sets good. Insect populations generally low. Corn tasseling 46%, silking 22%. Silage planted. Field corn making good progress. Sugarbeets thinned, irrigated. Blackeyes 95% planted, stands good. Planting baby limas complete San Joaquin Valley. Red kidney planting 90% complete in San Joaquin Valley. Rice favorable progress. Planting grain sorghum. Transportation situation easing. Apples sizing well, crop looks heavy. Cherry harvest almost completed. Grape harvest continued desert areas, excellent crop prospects other areas. Peaches, nectarines and plums continue packed good volume. Valencia orange harvest light to moderate volume. Almonds continue look good. Transportation near normal. Broccoli increasing central coast. Cantaloups at peak Blythe, increasing San Joaquin Valley. Celery nearing end south coast, increasing central coast. Sweet corn harvest active south coast, increasing central valleys. Lettuce volume normal. Potatoes increasing Kern, digging started Riverside. Watermelons decreasing Blythe, harvesting San Joaquin Valley. Rangeland feed adequate, very dry lower elevations. Livestock good condition. Stock water supplies adequate. Fuel supplies adequate, few local areas having tight supplies diesel, gasoline.

COLORADO: Cold front dropped afternoon and evening showers in mountains, severe thunderstorms on 5th and 6th. Large hail, funnel clouds east. Isolated showers, thunderstorms weekend. Temperatures near normal except 2 to 3° below normal Platte River Basin, and 2 to 3° above normal San Luis Valley.

Winter wheat turned color 83%, 94% 1978, 90% average; ripe 22%, 53% 1978, 58% average; harvested 3%, 18% 1978, 20% average. Barley turned color 40%, 90% 1978; ripe 6%, 54% 1978; harvest just beginning. Sorghum seeded 97%, 100% 1978, 100% average; emerged 100% 1978, 100% average. Corn average height 25 in., 31 in. 1978. Alfalfa first cutting 88%, 91% 1978; second cutting 19%, 11% 1978. Ranges and pastures very good condition. Livestock very good condition. Gasoline and LP gas supplies mostly adequate. Diesel fuel supply mostly tight. Fieldwork: 4.5 days suitable.

FLORIDA: High pressure dominated except weak cold fronts that dipped into northeast corner on 2d and 7th. Rainfall from showers and thunderstorms averaged generally less than 1.00 in. with local amounts up to 3.00 in., mostly in central areas. High temperatures in 90's with near 100° interior, southwest and upper 80's southeast coast. Lows in 70's.

Soil moisture variable. Extremely dry some areas while adequate in others. Corn yields reduced in dry areas; light harvest continued. Tobacco harvest active. Peanuts, sugarcane

mostly good condition. Soybean planting nearing completion. Fuel supplies mostly adequate but getting tight in areas where harvesting activities increasing. Panhandle pastures poor to fair; elsewhere, mostly good to excellent. Cattle good condition. Citrus groves excellent condition. Daytime temperatures high, scattered afternoon thunderstorms prevalent, soil moisture mostly adequate. Harvest almost complete. Harvest of spring vegetable crops nearly finished. Limited supply of watermelons moving from northern areas, Panhandle when trucks are available. Gadsden County tomato crop about 95% complete. Light supplies sweet corn, cucumbers, eggplant, peppers and okra available. Land preparation for summer and fall planting underway.

GEORGIA: Temperatures from 70° in mountains to lower 80's across central and south. Extremes: 52 and 102°. Rainfall variable.

Soil moisture short, improving after weekend showers. Fieldwork: 6 days suitable. Corn fair to good, needs rain. Tobacco fair to good, 29% harvested, last year 21%, average 39%. Soybeans fair to good, 98% planted, 97% last year. Peanuts fair to mostly good, 98% blooming, 89% pegging, last year 92% and 74% respectively. Cotton fair to good, 96% squaring, 73% setting bolls compared to 90% squaring and 61% setting bolls last year. Sorghum 89% planted, last year 91%. Wheat and oats 99% combined, last year 98% both crops. Watermelons fair to good, 47% picked, last year 49%. Peaches fair to mostly good, 71% picked, last year 65%, average 78%. Apples fair to mostly good, need rain to size. Vegetables fair to good, markets report good to excellent quality. Pastures and hay fair to good. Cattle and hogs good. LP gas 91% adequate, 6% tight; diesel 62% adequate, 35% tight; gasoline 69% adequate, 30% tight.

HAWAII: Weather variable. Generally wetter on Island Hawaii. Some leafy crops suffered spoilage losses Kamuela, Hawaii. Other areas rains beneficial. Most leeward sections dry.

Vegetable supplies adequate. Cutting active for head cabbage, quality good. Tomato supplies increasing. Wet conditions causing some spoilage chinese cabbage. Banana supplies light. Papaya supplies increasing; orchard condition fair to good, adequate moisture. Pineapple harvest heavy. Sugar harvest steady. Pastures generally fair to good; rains keeping moisture adequate. Fuel supplies adequate.

IDAHO: Dry and mild south; cool and moist north. Some frost. Temperatures 30 to 97°.

Small grains and potatoes maturing rapidly. Winter wheat 20% turned; Spring wheat and barley 5% turned. Potatoes, 80% 12 in. high; 65% 1978; 25% closing middles. Cherry harvest and first cutting alfalfa nearly done. Green pea for processing begun. Irrigation demands heavy. Ranges dry. Grasshoppers problem in some localities.

ILLINOIS: Temperatures 4 to 7° below normal north, 2 to 3° below normal south. Precipitation less than 0.50 in. to near 1.00 in.

Soil moisture short to adequate. Corn condition good; average height all fields 45 in., 46 in. 1978, 50 in. average; height advanced fields 60 in., 67 in. 1978, 68 in. average. Soybeans good; 15% blooming, 7% 1978, 21% average. Wheat 65% combined, 56% 1978, 79% average. Oats good; 50% turned yellow, 36% 1978, 66% average; 10% ripe, 9% 1978, 30% average. Barley 50% combined. Second cutting alfalfa hay 45% complete, 33% 1978, 40% average; good. Pastures fair to good. Fieldwork: 5.0 days suitable.

INDIANA: Cool and sunny. Temperatures 4° below normal and ranged from 44 to 91°. Precipitation near 1.20 in. north, 1.50 central, and 0.90 south. Some areas of north and south reported none.

Fieldwork: 5 days suitable. Topsoil and subsoil moisture adequate. Wheat 20% combined, 1978 15%, average 60%; 70% ripe, 1978 45%, average 90%. Oats 0% combined, 1978 0%, average 10%. Corn good; 42 in. tall, 1978 36 in., average 44 in. Soybeans condition good; 12 in. tall, 1978 10 in., average 12 in. Diesel fuel 80% adequate. Gasoline 75% adequate. Pastures improved, mostly good.

IOWA: Cool with virtually no precipitation in northwest to moderate in east, falling mostly on 3d.

Fieldwork: 5.6 days favorable. Topsoil and subsoil moisture adequate. Corn height 42 in., last year 49 in. Corn 4% tasseled; 1978 5%. Soybeans 95% cultivated first time. Oats headed 99%, 1978 100%, normal 100%. First crop clover hay harvested 91%, 1978 89%, normal 85%. Crop conditions: Corn, beans, pasture, oats, clover hay, alfalfa hay, and wheat declined slightly. Livestock market movement improved.

KANSAS: Precipitation every day some portion of State, generally heavy rains east and over 2.00 in. west. Moisture average 0.40 in. southwest and west central to 2.50 in. east. Below normal temperatures averaged 74° northwest to 80° south central.

Wheat harvest 45% complete, 85% year ago, 80% average. Corn 5% tassel, 10% last year, 15% average. Soybeans same as last year, 5% in bloom. Second cutting alfalfa 55% complete, last year 60%, average 65%.

KENTUCKY: Temperatures 3 to 6° below normal with coldest readings last half. Precipitation spotty but averaged 1.20 in.

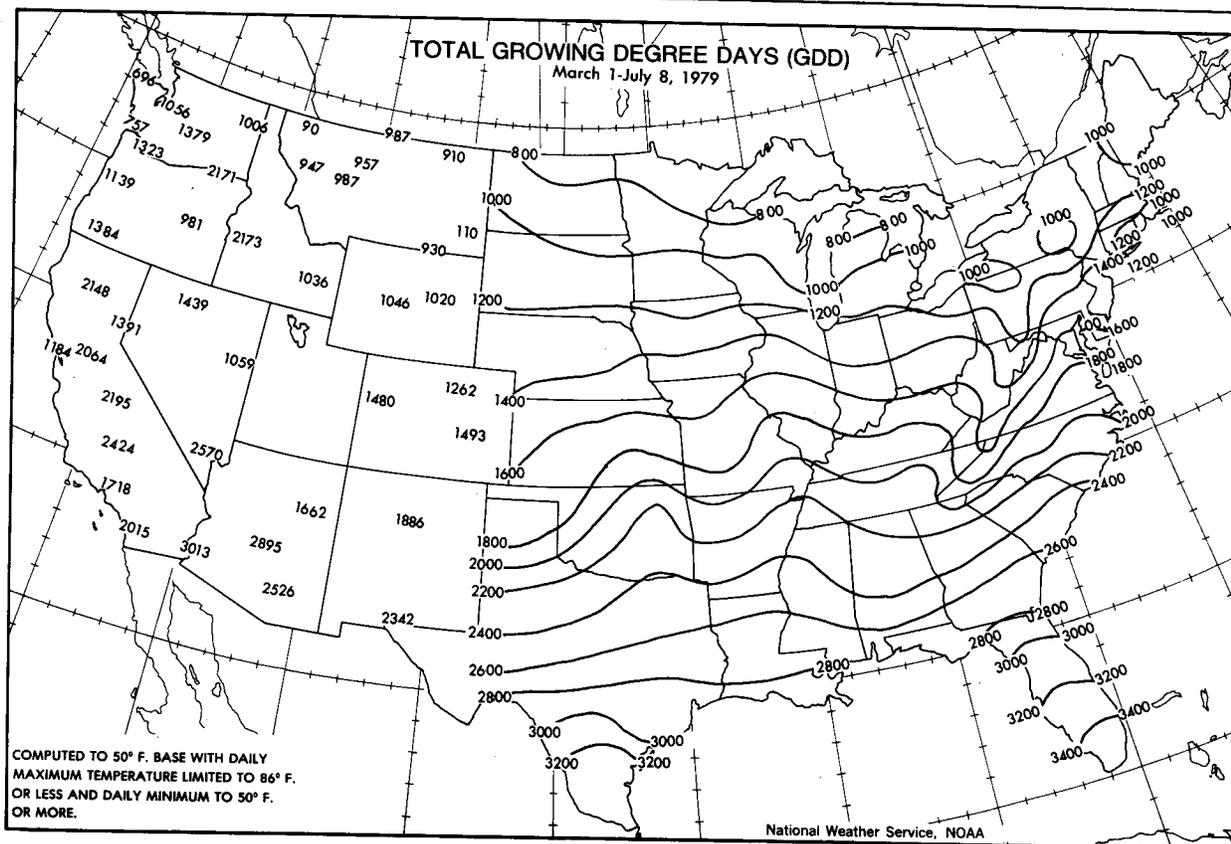
Fieldwork: 4.7 days suitable. Major activities: winter wheat harvest, hay harvest and double-crop soybean planting. Winter wheat harvest 88% complete. Soybean planting should be complete shortly after wheat harvest. Crops in generally good condition, but later than normal. Corn 10% tasseled, 20% last year, 27% average. Tobacco mostly good condition. Hay and pasture in good condition but will need rain soon in drier areas. Fruit prospects continue bright. Early apples and peaches on market.

LOUISIANA: Temperature normal to 1° above normal. Extremes: 102 and 70°. Showers statewide late week.

Fieldwork: 6.3 days suitable. Soil moisture short. Cotton 71% squaring, 79% last year; 12% setting bolls. Soybeans 99% planted; 97% emerged; 16% blooming, 16% last year; fair to good. Rice good; 40% headed, 54% last year. Sugarcane fair to good. Corn fair to good; 95% tasseled, 97% last year; 68% dough, 67% last year. Sorghum planting complete; 97% emerged; fair to good. Sweetpotatoes fair to good; 99% transplanted. Peach, vegetable harvest active. Hay, pasture fair to good. Cattle good.

MARYLAND & DELAWARE: Temperatures 7° below normal. Highs in upper 70's to low 80's and lows in upper 50's to low 60's. Precipitation moderate, between 1.00 and 1.50 in.

Fieldwork: 4.2 days suitable. Soil moisture mostly adequate. Fuel supplies adequate to tight. Corn stands and growth good. Soybeans over 90% planted, 93% last year, 96% normal. Barley harvest over 90% complete. Second cutting of alfalfa over



50% complete. Tobacco fields being cultivated. Fruit crop prospects are good.

MICHIGAN: Temperatures 4 to 8° below normal. Cool with some warming at weekend. High temperatures reached low 80's. Precipitation averaged 0.28 in. over Lower with heaviest amounts in extreme lower half. No precipitation over Upper.

Fieldwork: 4 days suitable. Soil moisture mainly adequate. Pasture feed supplies average. Corn height 25 in., 32 in. last year, 31 in. normal. Dry bean plantings complete. Wheat 80% turning yellow, 70% last year and normal. Oats 70% headed, same as last year and normal. First cut hay 90% complete, 90% last year, 85% normal. Strawberries 90% harvested. Sweet cherry harvest 55% complete in southwest. Tart cherry and blueberry harvests getting underway. Vegetable development near normal.

MINNESOTA: Temperatures 2 to 3° below normal. Extremes: 93 and 43°. Precipitation averaged up to 2.00 in. above normal in northwest, north central, northeast and much of east central; below normal elsewhere. Precipitation totals were 1.00 in. or greater over much of north, many stations in southwest and south central reported zero accumulation.

Crops made good growth but still behind normal. Moisture mostly adequate south half; adequate to surplus north half. Most corn, small grains in good condition; soybeans uneven. Haying in north at near standstill; 2d alfalfa cutting beginning in south. Height: Corn 25 in., 1978 39 in., normal 43 in.; soybeans 9 in., 1978 13 in., normal 14 in. Heading: Spring wheat 27%, 1978 81%, normal 76%; oats 48%, 1978 82%, normal 83%; barley 29%, 1978 86%, normal 78%. Turning ripe: Winter wheat 18%, 1978 62%, normal 61%; rye 30%, 1978 63%, normal 66%. Flax 18% blooming, 1978 42%, normal 54%. Alfalfa hay 83% cut, 1978 91%, normal 95%.

MISSISSIPPI: Temperatures 1 to 2° above normal except in north central and northeast where temperatures 2° below normal. Extremes: 57 and 102°. Rainfall spotty but some areas received heavy rainfall over weekend.

Soil moisture short to adequate Delta and northern third, short to very short elsewhere. Fieldwork: 6.3 days suitable. Scattered showers weekend improved growing conditions but rain missed some areas. Soybeans 98% planted, 98% 1978, 93% average; 89% up to stand, 90% 1978, 89% average; 2% blooming, 7% 1978, 6% average; condition fair to good. Cotton 81% squaring, 88% 1978, 75% average; 18% blooming, 48% 1978, 1% setting bolls, 2% 1978, 22% average; condition fair. Rice good condition; a few fields heading. Corn 68% silked, 87% 1978, 63% average; 33% dough stage, 35% 1978; condition good to fair. Sorghum 97% planted, 93% ted, 1978, 91% average; 7% headed, 3% 1978. Hay crops 47% harvested, 47% 1978, 41% average. Peaches 44% harvested, 36% 1978, 55% average. Watermelons 25% harvested, 14% 1978, 18% average. Pasture condition good to fair. Diesel supplies mostly tight; gasoline tight to adequate; LP gas adequate.

MISSOURI: Temperatures near normal Bootheel, 3 to 6° below normal elsewhere. Precipitation heavy south and west, less than 0.25 in. northeast prairie.

Fieldwork: 4.1 days suitable. Double crop soybean 38% planted, last year 42%. Corn 21% tasseled, last year 16%. Oats 13% harvested, last year 31%, normal 60%. Wheat 95% ripened, last year 93%, normal 100%. Wheat 55% harvested, last year 69%, normal 80%. Alfalfa hay second cutting 44%, last year 37%, normal 56%. Other hay 79% harvested, last year 75%. Cotton 30% squared, last year 74%, normal 62%. Condition of corn and pasture mostly fair to good. Condition of cotton

mostly fair. Soil moisture short to adequate. LP gas supplies mostly adequate. Diesel fuel and gasoline mostly tight to adequate.

MONTANA: Below normal precipitation. Precipitation restricted to scattered thunderstorms. Some hail reported, as well as strong, gusty winds latter part of week. Temperatures continued to average from near normal to 5° above, with highest temperatures in east.

Soil moisture short. Fieldwork: 6.5 days suitable. Small grains fair condition, irrigated crops mostly good. Winter wheat headed 85%, 80% 1978, 65% normal; turning 10%, 10% 1978, 35% normal. Spring wheat headed 25%, 30% 1978, 25% normal; turning 0%, 0% 1978, 5% normal. Barley headed 25%, 30% 1978, 40% normal. Oats headed 15%, 30% 1978, 40% normal. First cutting of alfalfa 60% complete, normal 50%. Wild hay cut 30%, normal 25%. Grasshopper activity mostly light except light to moderate southeast.

NEBRASKA: Temperatures up to 5° above normal west; 2 to 6° below normal elsewhere. Precipitation general averaging 0.50 to 1.00 in. Panhandle, north, northeast. Southern areas 1.00 to 2.00 in. Heaviest amounts southwest; some near 5.00 in.

Corn, sorghum, soybeans mostly good condition. Wheat turning 85%, year ago 100%, normal 100%. Wheat ripe 20%, year ago 60%, normal 65%. Wheat harvest less than 5% complete, year ago 30%, normal 40%. Diesel 30% adequate, 65% tight, 5% deficit. Gasoline 55% adequate, 40% tight, 5% deficit. LP gas generally adequate. Fieldwork: 3.5 days suitable.

NEVADA: Cooling trend; temperatures slightly below normal north, 4° below south. Extremes: 106 and 27°. Thunderstorms scattered light amounts rain north early week.

Alfalfa hay first cuttings finished except high elevations. Potatoes and other row crops behind normal development. Small grain harvesting moving northward. LP gas, diesel fuel, gasoline rated mostly adequate.

NEW ENGLAND: Showery weather occurred throughout New England and in isolated spots rest of week. Rainfall below normal. Unseasonable cool weather with some light snow falling atop Mount Washington 4th and 5th ended by weekend. Many record low temperatures recorded midweek.

Badly needed rains quenched dry fields. Heavy thunderstorms in parts of Maine damaged potato, oats and buckwheat fields. Cutworms, frost, poor weed control and lack of precipitation continued to hamper corn development. Partly cloudy days and cool nights responsible for poor growth of warm season vegetables. Fuel supplies adequate to tight. Grazing short to good. Soil moisture short to adequate.

NEW JERSEY: Temperatures 11° below normal.

Extremes: 40 and 85°. Rainfall averaged 0.28 in. north, 0.32 in. central and 0.27 in. south. Soil moisture in percent of field capacity averaged 73% north, 65% central and 55% south. Soil temperature averaged 63° north, 67° central and south.

Fieldwork: 5.4 days suitable. Warmer temperatures advancing crop development. Summer vegetable harvest increasing. White potato digging very limited for local outlets. Blueberry volume increasing. Light apple and peach harvest begun. Barley and wheat combining progressing. Second cutting hay continued as weather conditions permit. Field corn making good growth. Soybean planting continued as barley and wheat harvested.

NEW MEXICO: Widely scattered light showers; most rainfall totals less than 0.50 in.

Cotton in good condition though late. Weather favorable last couple weeks. The 2d cutting alfalfa active in most areas, and 3d underway in south. Wheat and barley harvests continued. Irrigated grain sorghum and corn good, dryland fair. Onion shipments moving as transportation shortage eased. Grano onions about through, spanish hybrid varieties should begin late this week. Potatoes fair, peanuts good but late. Range and livestock good.

NEW YORK: Temperatures 4 to 10° below normal, scattered frost in mountains. Scattered rainfall mostly light, all areas dry.

Dry, cool weather slowed crop growth. Oats headed out, wheat turning. First cutting alfalfa 90% done, clover-timothy 80% done, grass silage harvest 90% done, all same as 1978. Strawberry harvest ending. Sweet corn condition mostly fair. Onions, cabbage in good condition. Apples sizing well, June drop almost over. Pear condition good. Sweet cherry harvest in progress. Tart cherry harvest to begin soon.

NORTH CAROLINA: Temperatures 3 to 8° subnormal. Precipitation subnormal. Southern mountains and central coastal area 1.00 to 2.00 in., elsewhere 0 to 0.50 in.

Fieldwork: 5.7 days suitable. Soil moisture short to adequate. Condition of corn, peanuts, soybeans, hay crops, Irish potatoes, sweetpotatoes, apples, peaches, and pasture fair to mostly good. Vegetables and cotton fair to good. Tobacco mostly fair to good. Planted: Soybeans and sorghum complete. Harvested: Wheat 93%, 1978 90%, average 92%; oats 96%, 1978 94%, average 93%. Barley 99%, 1978 97%, average 95%; rye 95%, 1978 95%, average 92%; peaches 43%, 1978 37%, average 44%; hays 66%, 1978 74%, average 62%; Irish potatoes 67%, 1978 76%, average 77%; summer cucumbers 85%; green peppers 40%; spring snap beans complete. Phenological stages: Corn silking 51%; cotton squared 50%; cotton bloomed 17%.

NORTH DAKOTA: Warm temperatures and locally heavy rains prevailed. Rainfall amounts extremely variable. Temperatures averaged from near normal to 1 to 2° above normal. Extremes: 47 to 97°.

Warm temperatures and scattered showers improved crop outlook for eastern region, but west receiving little or no precipitation, still need general rain badly. Grasshoppers continued to be an increasing problem. Weevils and caterpillar problems in sunflower. Crop condition generally good with rapid growth but development lags normal. Maturity of wheat, barley and oats as measured by the quantity heading or beyond is considerably behind last year and normal. Hard wheat headed 21%, 47% last year, 53% average. Durum 6% headed, 35% last year, 42% normal. Barley 29% headed, 58% last year, 59% normal.

OHIO: Temperatures 6 to 10° below normal. Growing degree day totals below normal. Crop growth should accelerate as soon as temperatures warm.

Cool weather slowing growth. Excess moisture slowing wheat harvest. Haymaking continued. Corn height 42 in., 36 in. 1978, 34 in. average. Soybeans height 13 in., 11 in. 1978, 13 in. average. Wheat ripe 35%, 30% 1978, 60% average. Wheat harvested 5%, 10% 1978, 30% average. Oats ripe 10%, 5% 1978, 20% average. Alfalfa 2d cut 20%, 10% 1978, 20% average. Other hay 1st cut 90%, 95% 1978, 95% average. Fieldwork: 3.5 days favorable. Pasture condition good. Soil moisture adequate.

OKLAHOMA: Precipitation statewide ranging from 0.20 in. west central to 2.05 in. central. Temperatures near or slightly above normal.

Wheat harvest wind-up stage with 95% cut, 100% 1978, 100% average. Cotton 100% up to stand, 100% 1978, 95% average; 10% squaring, 15% 1978 and average. Sorghum 95% up to stand, 85% 1978, 90% average; 5% heading, 5% 1978, 10% average. Fieldwork: 6.2 days suitable.

OREGON: Maximum temperatures in upper 60's to upper 90's. Minimums mid-30's to mid-50's. Average temperatures about 3° below normal. Light precipitation limited primarily to coastal areas.

Soil moisture becoming short in dryland areas. Winter wheat 99% headed, 85% turning color, and less than 1% harvested. Major harvesting will be underway this week. Few fields combined during past week. Barley harvest increasing. Spring wheat plantings need rain in dryland areas. Most early hay harvest completed with second cutting alfalfa underway. Grass seed combining progressed with relatively open weather. Fruit thinning and spraying continues at Hood River and Medford. Caneberry picking progressing normally. Sweet corn and green beans developing well. Potatoes making good growth with digging to begin soon at Hermiston-Boardman. Onions and sugarbeets growing well. Livestock in good condition. Ranges drying, rain needed. Grasshopper spraying active but much damage to rangelands already, some intrusion in cropland areas.

PENNSYLVANIA: Fourth consecutive cooler than normal week. Pleasant sunny days and cool clear nights. Daytime temperatures 60's and 70's except 3d and 8th when 70's and 80's occurred while overnight lows 40's and 60's. Extremes: 33 and 86°. Light showers 2d and all day rain 4th provided 1.00 to 1.50 in. several southwest and south central areas but only 0.50 in. or less elsewhere.

Fieldwork: 4 days suitable. Soil moisture adequate. Activities: Making hay, filling silos, cultivating corn and potatoes, spraying, combining wheat and barley, picking tart cherries, raspberries, and vegetable crops. Corn height 23 in., 22 in. year ago. Barley 33% combined, last year 24%. Wheat 60% turning, 20% ripe, last year 8% ripe. Wheat 2% combined. Oats 75% headed, 13% turning; last year 82% headed and less than 5% turning. Alfalfa first cutting virtually completed. Second cutting 15% complete. Clo-tim 83% complete. Hay quality fair. Pasture average to above average. Tart cherries, raspberries and cabbage being picked.

PUERTO RICO: Island average rainfall 3.50 in. or 2.38 in. above normal. Temperatures averaged about 81° on coasts and 76° interior. Extremes: 94 and 62°.

SOUTH CAROLINA: Temperatures below normal although midweek hottest of year at most locations. General rains late week.

Soil moisture mostly short until rains. Fieldwork: 6 days suitable. Percent of reports with tight fuel supplies: LP gas 15%; diesel 39%; gasoline 40%. Corn good condition, rains relieved any dry stress; 13% mature, 1978 6%. Cotton fair to good, rains were needed; 42% setting bolls, 22% last year, 38% average; bollworm pressures manageable. Soybeans remain good condition, dry stresses ended by rain. Tobacco 93% topped, general good condition; 19% harvested, 9% last year, 23% average. Peaches good to excellent size and quality; 39% harvested this year and last, 50% average. Trucking situation improved. Coastal tomatoes harvested; 88% statewide, good condition.

Watermelons fair to good, affected by dry weather; 38% harvested, 48% last year.

SOUTH DAKOTA: Temperatures 4° subnormal to 4° above. Rainfall spotty, precipitation 0.50 to 1.00 in. south central and southwest; elsewhere 0.50 in. or less.

Topsoil moisture short north, adequate south. Farm fuel supplies improved. Grasshoppers remain a problem west. Crop conditions east good to excellent, central fair, west poor but improving. Oats 84% headed, 1978 89%, average 94%. Spring wheat 81% headed, 1978 87%, average 94%. Barley 84% headed, 1978 85%, average 92%. Winter wheat 65% turning color, 1978 81%, average 85%. Rye 56% turning color, 1978 76%, average 84%. Oats 10% turning color, 1978 14%, average 40%. Spring wheat 9% turning color, 1978 6%, average 28%. Barley 17% turning color, 1978 26%, average 44%. Flax 51% blooming, 1978 44%, average 63%. Corn height 23 in., 1978 29 in., average 29 in. Alfalfa 1st cut 88% harvest, 1978 96%, average 96%. Wild hay 21% harvested, 1978 31%, average 32%.

TENNESSEE: Rain at weekend averaged 1.50 in. statewide. Temperatures near normal west, 6 to 8° below normal east.

Soil moisture surplus west, adequate east. Fieldwork: 5.1 days suitable. Soybeans planted 98%, 1978 99%, average 92%. Soybeans blooming 2%, 1978 7%, average 12%. Corn silked 14%, 1978 39%, average 42%. Cotton squaring 48%, 1978 72%, average 71%. Cotton setting bolls 1%, 1978 6%, average 11%. Wheat harvested 94%, 1978 92%, average 88%. Oats harvested 92%, 1978 89%, average 84%. Barley harvested 93%, 1978 89%, average 91%. Pastures and cattle good condition. Diesel fuel supplies 51% adequate, 49% tight. Gasoline supplies 53% adequate, 47% tight.

TEXAS: High pressure triggered thunderstorms over West, South and Southeast Texas. Precipitation near normal over most of south, west and northern parts of State while South central and Southeast above normal rainfall. Normal precipitation ranges less than 0.50 in. West Texas to 1.00 in. Southeast Texas.

Generally open weather aided harvest of small grains and promoted crop development. Only 20% of High Plains wheat remains to be harvested. Producers in Lower Rio Grande Valley harvested over 75% of their sorghum crop by weekend. Sunflower plantings completed while only a few soybean and peanut fields remain to be planted. Preparations for harvesting early planted sunflowers, corn, and cotton in South Texas and Valley underway. Cotton remains two to three weeks behind schedule although crop aided by open, hot weather. Some boll weevil and bollworm buildup in South Texas and Valley; fleahoppers only insect damaging crop statewide. Trans-Pecos applying second irrigation to cotton while fields blooming throughout Edwards Plateau. Sorghum producers irrigating earlier plantings High Plains. Farmers spraying for midge control Blacklands through South Texas. Peanut planting completed Cross-Timbers region where most fields have emerged to excellent stands. Water applied Low Plains. Sunflowers noted blooming throughout Blacklands as well as High Plains. South Texas producers spraying control head moths. Preparations for earlier harvest underway South Texas. Fuel supplies for farming remain tight to adequate. New producers with no historical allocations are finding fuel hard to come by in many localities. Cotton squaring 34%; setting bolls 14%; open bolls 2%. Rice headed 67%; turning color 10%. Sorghum planted 100%, 100% 1978, 99%

average; headed 56%; turning color 38%; mature 22%; harvested 9%, 12% 1978, 14% average. Wheat harvested 93%, 93% 1978, 97% average. Barley harvested 95%, 100% 1978, 100% average. Oats harvested 99%, 99% 1978, 100% average. Peanuts planted 98%, 98% 1978, 97% average. Soybeans planted 97%, 98% 1978, 99% average. Sunflowers planted 100%, 91% 1978, 94% average.

Cantaloup, watermelon, honeydew melon, onion, cucumber, beet, bell pepper, tomato harvests active. Land preparation for fall vegetables. Additional moisture needed some areas. Grasshoppers increasing some areas. Peach harvest mid-season varieties continued. South Texas movement near completion. Pecan nutlets continued develop well with some entering water stage in South Texas. Aphid populations on increase. Droppage increased south central due heat and dry stress.

Most areas continued adequate grazing and forage production; many central and South Texas ranges and pastures browning result of drying conditions. Grasshopper populations continued increase throughout northern half and spraying active many areas. Some livestock in central Texas show heat and moisture stress, overall condition fair to good.

UTAH: Few isolated relatively dry thunderstorms, little or no precipitation. Temperatures quite variable ranging from 4° below normal to 5° above.

Soil moisture deficit critical many dryland fields and lower elevation ranges. Feed supplies fair because of good spring growth. Fieldwork: 7 days suitable. About 40% of wheat ripe and harvesting just starting. Potato, sugarbeet and corn prospects good. Sweet cherry harvest progressing rapidly; picking and movement to market progressing despite shortage of labor and trucks. Fuel supplies generally adequate with only isolated areas of tight supplies of diesel.

VIRGINIA: Rather mild weather. Highs in 70's and 80's; lows ranged from 40's to 60's. Extremes: 90 and 40°. Rainfall light occurring mainly on 4th and 5th.

Topsoil moisture mostly adequate but some areas need rain. Fieldwork: 4.9 days suitable. Fuel supplies for farm work tight. Corn 20% silked, 25% 1978, 30% usual; condition good, borer infestations heavy Shenandoah Valley and some other localities. Small grain combining: Wheat 80%, 61% 1978, 76% average; barley 90%, 86% 1978, 91% usual; oats 45%, 48% 1978, 73% average. Flue-cured tobacco 1% pulled, 1% 1978, 1% usual; irrigation active; some growers discarding bottom leaves. Soybeans, hay and pastures in good condition. Peanut condition improving. Potatoes, cucumbers harvested on Eastern Shore.

WASHINGTON: West: Temperatures below normal. Precipitation varied from 0.06 to 1.63 in. Variable weather followed heavy rains that ended 1st.

Moisture levels high. Strawberry harvest near complete. Raspberry picking in full swing. Quality good, yields down due to winter injury. Blueberry picking just starting. Lettuce, onions harvested for local markets. Hay and silage made. Insect population high along Columbia River.

East: Temperatures well below normal, as low as mid-30's. Precipitation varied from a trace to 0.78 in. Variable weather prevailed throughout week and weekend.

Cherry picking in final week in Yakima Valley, at peak in north central orchards. Quality excellent, no rain damage. Apple size very good. Hand thinning continued. Green pea harvest slowing. Walla Walla sweet onion harvest continuing, good quality crop. Wheat harvest just starting. Rains caught some grass seed in swath. Grasshoppers moving to cropland, spraying active. Wheat headed 98%, 1978 96%.

WEST VIRGINIA: Temperatures 7° below normal. Extremes 86 and 32°. Precipitation near normal.

Fieldwork: 3.6 days suitable. Soil moisture adequate to surplus. Main farm activities: Haying, cultivating corn, setting and hoeing tobacco. Barley harvested 29%, 32% 1978. Wheat harvested 3%, 12% 1978. Oats 22% pre-headed, 73% headed, 3% ripe, 2% harvested. Corn good to fair condition. Tobacco set 98%, 89% 1978. Hay and pasture good condition. Hay 1st cutting 73%, 79% 1978; 2d cutting 8%, 11% 1978. Fuel supply: LP and diesel adequate to tight, gasoline mostly tight.

WISCONSIN: Temperatures 5° below normal in mostly sunny, pleasant days and cool nights. Highs in 70's and 80's, with lows in 40's and 50's. Extremes: 88 and 42°. Rainfall early week on 2d and 3d. Amounts averaged less than 1.00 in. although some locally heavy totals exceeded 3.00 in. Hail accompanied some severe storms 3d.

Fieldwork: 5 days suitable. First crop hay 90% harvested, 1978 82%, normal 85%. Some farmers started on second crop south. Hay storage will be tight and little local market for surplus hay. Oats 55% headed, 1978 85%, normal 82%. Oats starting to head north, all headed south on short straw. Crop looks very good despite late planting north. Winter wheat ripening. Corn growth slowed by cool evening temperatures and below normal growing degree days. Corn average height 27 in., 1978 35 in., normal 32 in. Early corn doing better, nearing tasseling stage. Early soybeans starting to blossom. Pastures in good condition. Harvest continuing on later pea varieties, excellent quality. Early sweet corn tasseling. Potatoes look good as do beets and carrots. Some tobacco still being planted. Very good strawberry crop nearing end except extreme north. Apple set lighter. Early cherries being picked south. Topsoil moisture short to adequate south, adequate to surplus north.

WYOMING: Temperatures above normal. Precipitation generally below or near normal.

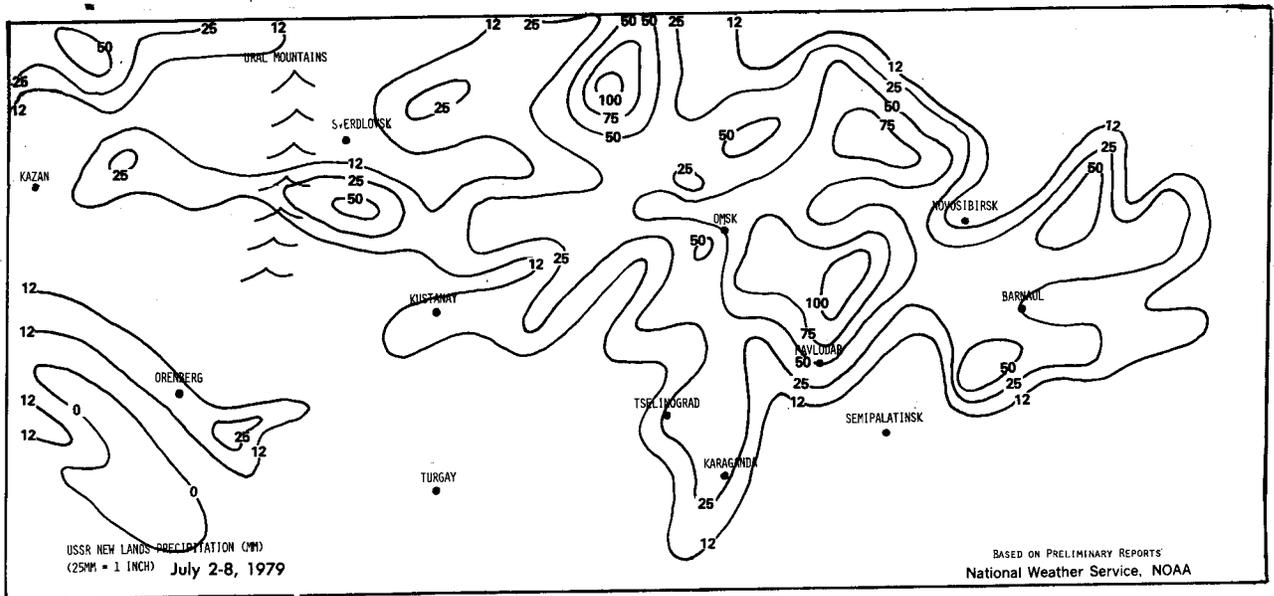
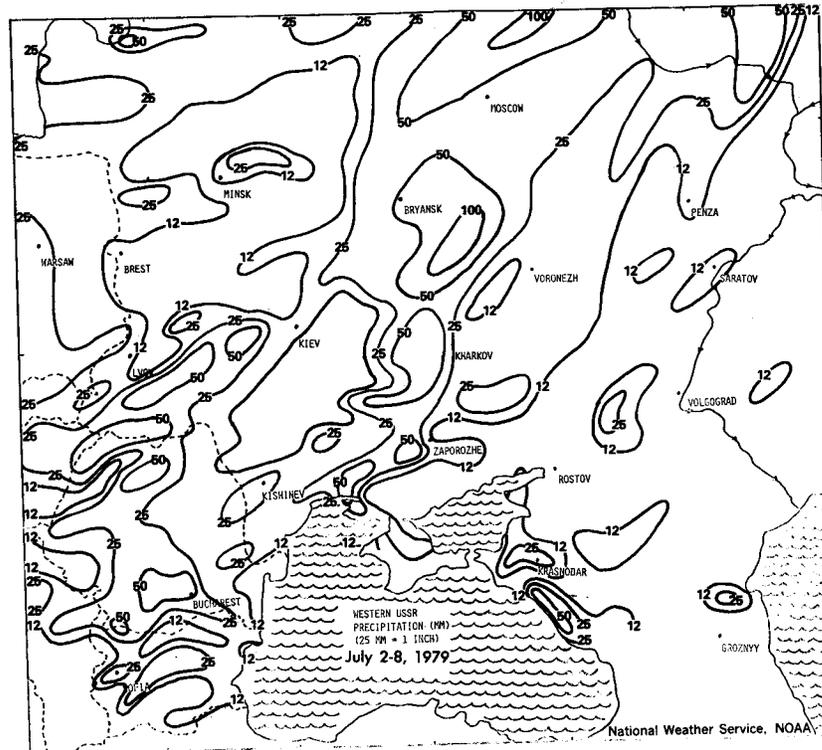
Topsoil moisture short. Winter wheat headed 91%; turning color 36%. Spring wheat 46% headed. Oats 58% headed. Barley 73% headed. Small grains fair to good condition. Row crops mostly good condition. Hay harvested: Alfalfa 60%; other 24%. Fieldwork: 6 days suitable. Some hail damage in southeast. Ranges, pastures fair to good. Stock water mostly adequate.

World Weather and Crop Update

July 2 - 8

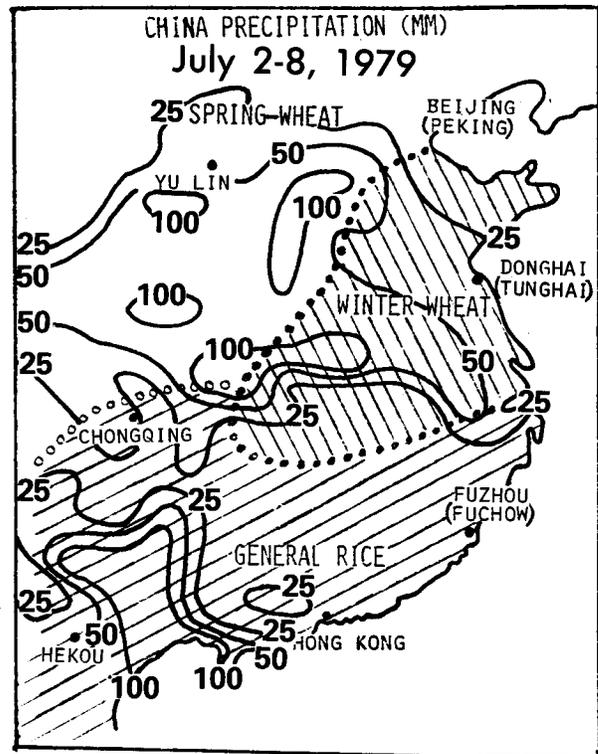
USSR. The major winter grains areas of the central and eastern Ukraine received their best moisture since April, when a major storm system moved across the Republic. However, the moisture likely interfered with harvesting in southern areas and is too late to help winter grains further north. Rainfall in the western Ukraine was above normal, as it has been most of the growing season. The moisture also reached into the extremely dry areas of the eastern Ukraine, lower Volga, and the North Caucasus mountains. Rainfall was highly variable

across the area but much less in actual amounts---generally 10 to 25 mm. The moisture may have been particularly helpful to corn, sunflowers, and sugarbeets, although all crops in the drought area have been set back considerably. The New Lands continued to accumulate excellent moisture with well-above-normal totals again this week---many areas received more than 50 mm. Rainfall across the New Lands have generally exceeded the normal precipitation for July.



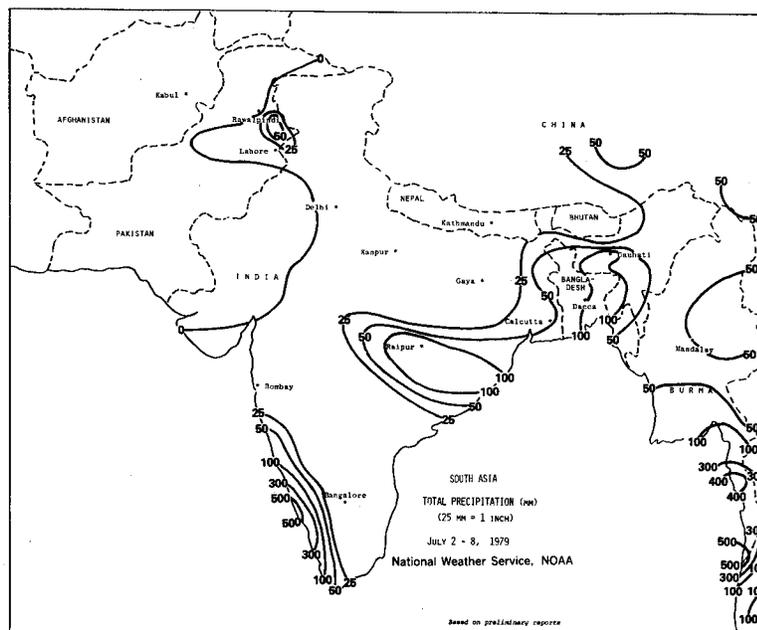
CHINA. Well-above-normal moisture fell across the winter grains region of China---totals ranged from 40 to 100 mm. The winter grain harvest is very close to completion, but the moisture will be beneficial for cotton and other crops grown in the same area. The western spring grains areas also received good rainfall (10 to 30 mm). Areas to the south and southwest received well-below-normal precipitation with the double-crop region getting only 15 to 30 mm. Planting of the second rice crop has started, and ample moisture will be needed in the coming weeks.

AUSTRALIA. The winter grains areas of Australia received very little moisture. No precipitation occurred in the southwest, and the southeast region received less than 5 mm. The winter grain crop should be dormant at this time of the year and is considered to be in generally good condition.



INDIA-SOUTHEAST ASIA. Preparations for planting the fall and winter harvested (kharif) crops picked up this week, as rainfall activity dropped off sharply over most of India. Excellent rains the week before provided much-needed moisture for field preparations. The only areas with near-normal precipitation were Orissa and Madhya Pradesh-East in east central India and Kerala in the southwest.

More general activity was beginning to develop at the end of the week. The monsoon has been generally light and erratic so far this year. Persistent rainfall the next 6 to 8 weeks will be extremely important for the kharif crop, which represents about two-thirds of India's total agricultural production. Rainfall over the remainder of Southeast Asia was also well below normal.

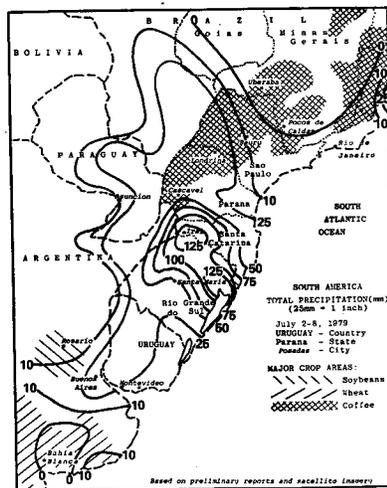
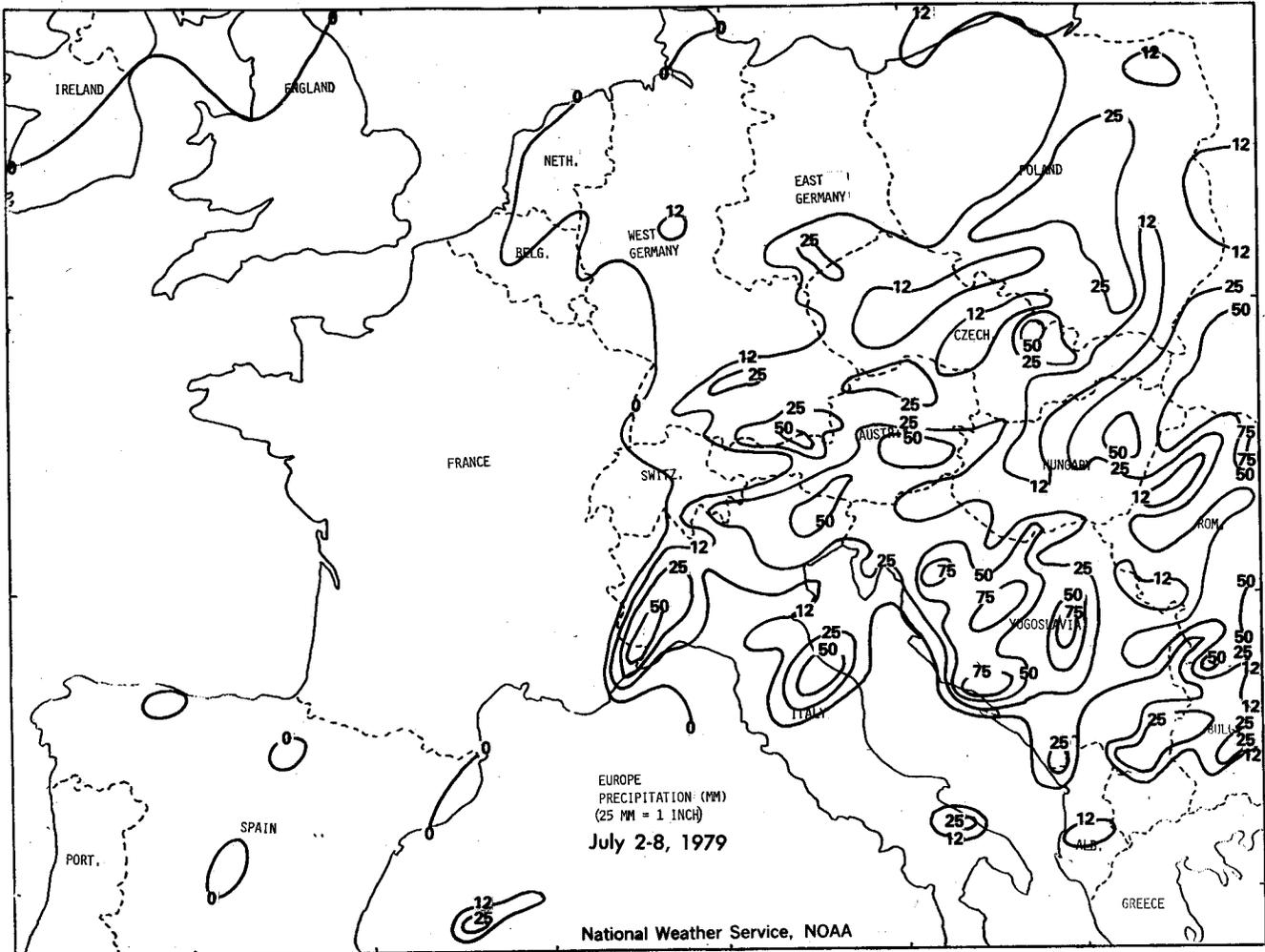


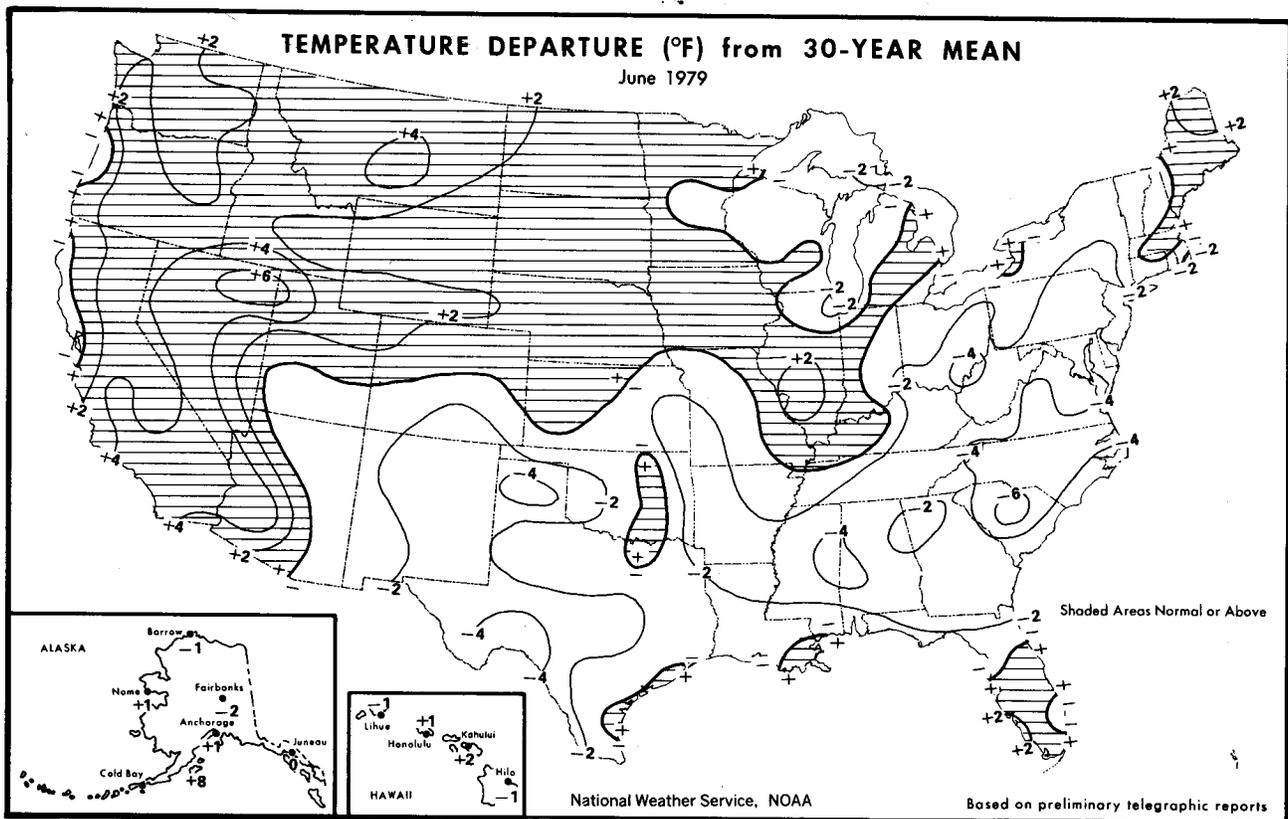
Colton P-12

CENTRAL AFRICA. Most of central Africa received well-below-normal precipitation for the second week in a row. The entire region needs a good rain, although soil moisture levels should still be reasonable because of good rains in early and mid-June.

EUROPE. Crops across eastern Europe received good rains again, generally erasing any trace of significant drought across the region. However, western

Europe was very dry, with no precipitation in France and only very light amounts in other countries. Most of western Europe has received less than 15 mm over the past two weeks---less than 30 percent of normal. In eastern Europe, 25 to 75 mm of rain fell over much of Austria and northern Yugoslavia. Soil moisture levels across the region should be above normal. The one exception may be Poland, although 15 to 30 mm fell across the dry central portion this week.





June Weather Summary

HIGHLIGHTS: A typical June provided thunderstorms east of the Rockies and relatively light rain west of that mountain range. However, the West became much drier than normal this year. East of the Rockies, the thunderstorms produced deluges of rain in some areas, but the very spotty rain left many portions of the Nation far below their normal June rainfall. An area from central Illinois to northern Arkansas had less than half the expected rainfall for the month. The southern coastal area, New England, North Dakota, and Montana were also much drier than normal. Temperatures ranged cooler than normal from New England down the Appalachians and across the South to New Mexico. Warm weather prevailed in the Southwest and the Plateau Region.

A low pressure system in Ohio, with a cold front extending southward, moved rapidly eastward during the first three days of June. Some heavy rain fell in the mid-Atlantic States and in the Southeast.

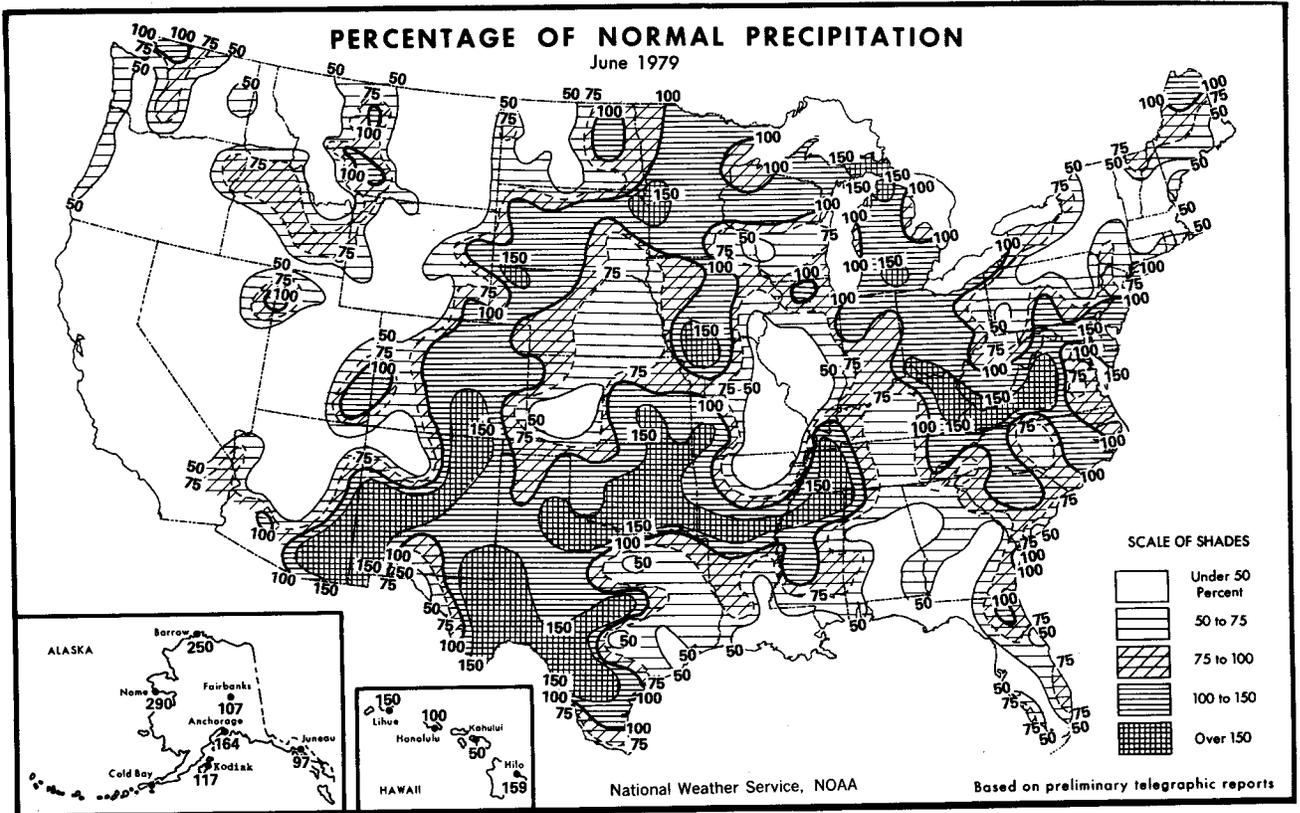
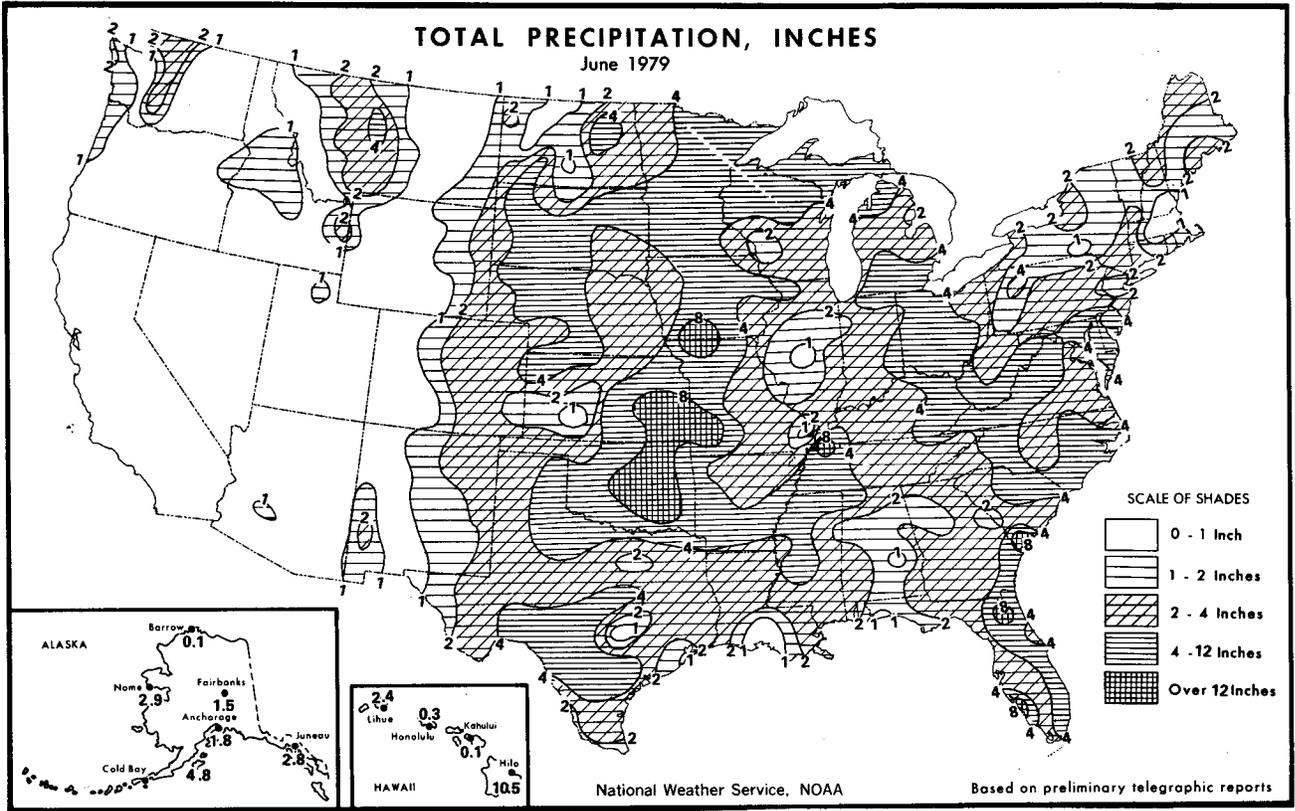
In the period of June 4-10, another upper air disturbance began moving out of the Southwest, and low-level winds carried moisture northward from the Gulf of Mexico. Thunderstorms and rain, heavy in places, fell from the middle Rio Grande Valley in Texas through the Great Lakes area. Severe weather, including tornadoes, covered this area. Rain totals for the week exceeded 5 inches in some places. Cool weather prevailed in the Rockies and western Plains, but warm temperatures were noted elsewhere.

The second week in June brought relief from severe weather and rain in most of the South. The exception took the form of a low pressure system that moved northward along the East Coast and spread rain from Florida to New England. Elsewhere, a series of storms moved across southern Canada and caused rain in that area and the northern half

of the United States. The weather was warm through most of the West, the Rockies, central and northern Plains, and through the Great Lakes. Maximum temperatures exceeded 100° in parts of the northern Plains.

Rain dampened nearly all of the Nation east of the Rockies during the week of June 18-24th. The exception was central Texas and southward, where no rain fell. A storm system formed in the central Rockies trailing a cold front southwestward. The center of the storm moved to the central Plains and then northeastward through the western Great Lakes. The most rain occurred in the northern Plains, as the storm center pushed through and into the central Plains, where a wave formed on the front. Later in the week, thunderstorms with heavy rain headed through the Ohio Valley, northern Mississippi, and central Alabama. Cooler than normal readings blanketed most of the Rockies and Plateau, the northern Plains, Great Lakes, and eastern portion of the country. Other areas averaged up to 3 degrees warmer than normal.

The last week in June saw precipitation in all but the southwestern quadrant of the Nation. As the week began, a high pressure center over the Great Lakes kept the weather cool and dry over the Midwest. When the high pressure moved eastward, warm, moist air rushed northward behind it and rekindled the showers and thunderstorms from Texas to the Great Lakes. A low pressure center trekked out of the northern Plains to the eastern Great Lakes by the end of June. The heaviest rain fell in central Texas and the central Mississippi Valley. However, as the month ended, heavy showers soaked southern Michigan, northern Indiana, and Ohio. Average temperatures for the week ranged warmer than normal west of a line from central Texas to central Wisconsin and cooler than normal in the East.



Temperature and Precipitation Data for June 1979

States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches		States and Stations	Temperature OF		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	75	- 2	1.2	- 2.8	LA. Baton Rouge . . .	79	- 1	.1	- 3.7	Youngstown . . .	65	- 2	2.2	- 1.4
Moblie . . .	80	0	3.7	- 2.4	Lake Charles . . .	80	- 1	2.6	- 2.4	OKLA. Okla. City . . .	75	- 2	10.0	+ 5.8
Montgomery . . .	76	- 3	.3	- 3.7	New Orleans . . .	82	+ 2	2.2	- 2.5	Tulsa . . .	78	+ 1	8.9	+ 4.2
ALASKA Anchorage . . .	56	+ 1	1.8	+ .7	Shreveport . . .	78	- 2	3.0	.3	OREG. Astoria . . .	57	0	1.8	- .7
Barrow . . .	32	- 1	1.0	+ .6	MAINE. Caribou . . .	63	+ 3	3.4	0	Burns . . .	61	+ 2	.2	- .8
Fairbanks . . .	57	- 2	1.5	+ .1	Portland . . .	63	+ 1	2.0	- 1.1	Medford . . .	66	+ 2	.6	- .3
Juneau . . .	53	0	2.8	+ .1	MD. Baltimore . . .	71	- 1	5.7	+ 1.9	Pendleton . . .	67	+ 1	.2	- .8
Kodiak . . .	58	+ 8	4.8	+ .7	MASS. Boston . . .	68	0	.9	- 2.3	Portland . . .	65	+ 3	.6	- 1.0
Nome . . .	47	+ 1	2.9	+ 1.9	Chatham . . .	60	-	1.4	-	Salem . . .	62	+ 1	.7	- .7
ARIZ. Flagstaff . . .	58	0	.2	- .4	MICH. Alpena . . .	61	0	2.7	- .2	PA. Allentown . . .	68	- 2	1.2	- 2.3
Phoenix . . .	90	+ 5	T	- .1	Detroit . . .	67	- 1	4.0	+ .6	Erie . . .	64	- 1	3.6	+ .1
Tucson . . .	83	- 0	.5	+ .3	Flint . . .	67	+ 1	4.0	+ .6	Harrisburg . . .	69	- 3	2.6	- .5
Winslow . . .	71	- 1	T	- .3	Grand Rapids . . .	68	+ 1	4.2	+ .8	Philadelphia . . .	69	- 3	4.3	+ .6
Yuma . . .	89	+ 3	0	0	Houghton Lake . . .	62	- 1	4.5	+ 1.2	Pittsburgh . . .	68	- 1	1.7	- 1.8
ARK. Fort Smith . . .	75	- 3	4.5	+ .6	Lansing . . .	67	0	5.5	+ 2.0	Scranton . . .	65	- 3	2.5	+ .9
Little Rock . . .	76	- 2	3.4	- .1	Marquette . . .	58	- 1	6.1	+ 1.9	R. I. Providence . . .	65	- 1	1.4	- 1.3
CALIF. Bakersfield . . .	81	+ 4	0	- .1	Muskegon . . .	64	- 2	2.1	- .5	S. C. Charleston . . .	76	- 2	2.2	- 4.1
Eureka . . .	54	- 1	.1	- .6	S. Ste. Marie . . .	57	- 2	5.6	+ 2.3	Columbia . . .	73	- 6	5.5	+ 1.7
Fresno . . .	78	+ 4	0	- .1	MINN. Duluth . . .	60	+ 1	4.3	- .1	Greenville . . .	72	- 4	3.7	- .4
Los Angeles . . .	72	+ 4	0	0	Internatl Falls . . .	60	0	4.3	+ .4	S. D. Aberdeen . . .	65	0	5.0	+ 1.4
Red Bluff . . .	78	+ 2	0	- .5	Minneapolis . . .	67	0	4.8	+ .9	Huron . . .	69	+ 2	2.4	- 1.4
San Diego . . .	70	+ 4	T	- .1	Rochester . . .	68	+ 2	2.4	- 2.2	Rapid City . . .	65	+ 1	3.6	- .1
San Francisco . . .	61	- 1	T	- .1	St. Cloud . . .	64	- 1	6.3	+ 1.7	Sioux Falls . . .	68	0	3.0	- 1.3
Stockton . . .	75	+ 3	0	0	MISS. Jackson . . .	77	- 2	4.4	+ 1.0	TENN. Chattanooga . . .	74	- 2	2.3	- 1.4
COLO. Denver . . .	66	0	2.4	+ .5	Meridian . . .	75	- 4	3.2	- .5	Knoxville . . .	73	- 3	3.8	+ 2.2
Grand Junction . . .	71	0	.8	+ .2	MO. Columbia . . .	72	- 1	2.7	- 1.9	Memphis . . .	78	- 1	4.9	+ 1.4
Pueblo . . .	69	- 2	3.5	+ 2.1	Kansas City . . .	72	- 1	5.4	- .2	Nashville . . .	74	- 3	2.8	- .6
CONN. Bridgeport . . .	67	- 1	3.3	+ .7	St. Louis . . .	77	+ 2	1.7	- 2.7	TEX. Abilene . . .	79	- 1	2.9	+ .1
Hartford . . .	69	+ 1	.1	- 2.6	Springfield . . .	71	- 3	8.5	+ 3.8	Amarillo . . .	71	- 4	3.2	- .3
D. C. Washington . . .	72	- 3	3.0	- .5	MONT. Billings . . .	67	+ 4	1.1	- 1.5	Austin . . .	80	- 2	.8	- 2.3
FLA. Apalachicola . . .	79	- 1	1.2	- 4.1	Glasgow . . .	64	+ 2	.5	- 2.2	Beaumont . . .	80	- 1	4.0	- .8
Daytona Beach . . .	79	0	3.0	- 3.6	Great Falls . . .	63	+ 2	2.6	- .5	Brownsville . . .	82	- 1	1.5	- 1.3
Ft. Myers . . .	83	+ 2	8.3	- .6	Havre . . .	65	+ 3	1.3	- 1.3	Corpus Christi . . .	82	0	3.2	+ .5
Jacksonville . . .	77	- 2	5.9	- .4	Helena . . .	62	+ 3	2.8	+ .4	Del Rio . . .	80	- 4	4.3	+ 1.3
Key West . . .	84	0	3.0	- 1.6	Kalispell . . .	60	+ 3	.8	- 1.8	El Paso . . .	78	- 2	T	- .6
Lakeland . . .	-	-	-	-	Miles City . . .	67	+ 2	.8	- 2.5	Fort Worth . . .	81	0	1.4	- 1.7
Miami . . .	82	+ 1	4.1	- 4.9	Missoula . . .	62	+ 3	.7	- 1.4	Galveston . . .	81	0	.8	- 3.3
Orlando . . .	81	+ 1	4.0	- 3.1	NEBR. Grand Island . . .	71	0	2.7	- 1.7	Houston . . .	80	- 1	1.9	- 2.6
Tallahassee . . .	77	- 3	2.5	- 4.1	Lincoln . . .	72	0	3.0	- 2.0	Lubbock . . .	77	0	3.7	+ .9
Tampa . . .	81	0	2.1	- 4.4	Norfolk . . .	71	+ 1	3.1	- 1.8	Midland . . .	77	- 3	3.0	+ 1.5
W. Palm Beach . . .	80	- 1	6.3	- 1.8	N. Platte . . .	68	0	3.4	- .4	San Angelo . . .	78	- 4	2.2	+ .3
GA. Atlanta . . .	76	0	1.5	- 2.2	Omaha . . .	71	+ 1	3.6	- 1.3	San Antonio . . .	81	- 1	5.6	+ 2.8
Augusta . . .	75	- 3	1.6	- 2.1	Valentine . . .	67	0	4.5	+ .9	Victoria . . .	81	- 1	4.0	+ .7
Macon . . .	77	- 3	2.5	- 1.4	NEV. Ely . . .	60	+ 2	.2	- .7	Waco . . .	79	- 3	4.7	+ 2.0
Savannah . . .	77	- 2	7.4	+ 1.5	Las Vegas . . .	86	+ 4	0	- .1	Wichita Falls . . .	80	- 1	6.1	+ 2.7
HAWAII. Hilo . . .	74	- 1	10.5	+ 3.9	Reno . . .	64	+ 2	T	- .4	UTAH. Blanding . . .	65	- 1	.6	+ .1
Honolulu . . .	80	+ 1	.3	0	Winnemucca . . .	67	+ 5	.4	- .6	Salt Lake City . . .	70	+ 4	.4	- .9
Kahului . . .	79	+ 2	.1	- .1	N. H. Concord . . .	64	- 1	.6	- 2.8	VT. Burlington . . .	65	0	1.4	- 2.1
Lihue . . .	77	+ 1	2.4	+ .8	N. J. Atlantic City . . .	67	- 3	3.2	- .2	VA. Lynchburg . . .	69	- 4	5.3	+ 1.9
IDAHO. Boise . . .	67	+ 2	.2	- .9	Trenton . . .	68	- 3	3.4	+ .2	Norfolk . . .	70	- 5	3.0	- .6
Lewiston . . .	67	+ 2	.7	- 1.1	N. MEX. Albuquerque . . .	73	- 2	1.0	+ .5	Richmond . . .	71	- 3	2.4	- 1.1
Pocatello . . .	62	0	1.0	- .3	Roswell . . .	75	- 2	1.6	+ .4	Roanoke . . .	69	- 3	5.8	+ 2.3
ILL. Cairo . . .	78	0	.8	- 3.6	N. Y. Albany . . .	66	- 2	1.9	- 1.1	WASH. Colville . . .	64	+ 3	.3	- 1.4
Chicago . . .	69	- 2	3.1	- .9	Binghamton . . .	62	- 3	1.0	- 2.6	Omak . . .	66	+ 2	.7	- .5
Moline . . .	71	0	2.8	- 1.6	Buffalo . . .	67	+ 1	2.2	0	Quillayute . . .	55	0	2.6	- .9
Peoria . . .	71	0	1.8	- 2.1	New York . . .	69	- 3	1.5	- 1.4	Seattle-Tacoma . . .	63	+ 3	.5	- 1.0
Rockford . . .	68	- 1	4.8	+ .4	Rochester . . .	66	- 1	1.9	- .6	Spokane . . .	63	+ 1	.8	- .6
Springfield . . .	75	+ 2	.9	- 3.3	Syracuse . . .	66	- 1	2.3	- .8	Walla Walla . . .	69	+ 2	.4	- .8
IND. Evansville . . .	75	0	2.8	- .8	N. C. Asheville . . .	69	- 2	2.2	- 1.8	Yakima . . .	65	0	.6	- .1
Ft. Wayne . . .	69	- 1	3.2	- .7	Charlotte . . .	72	- 4	4.7	+ 1.0	W. VA. Beckley . . .	64	- 3	6.4	+ 2.4
Indianapolis . . .	71	- 1	3.9	- .3	Greensboro . . .	70	- 4	2.7	- 1.2	Charleston . . .	69	- 3	3.5	+ .2
South Bend . . .	70	+ 1	4.7	+ 1.0	Hatteras . . .	72	- 2	4.0	- .8	Huntington . . .	70	- 2	7.6	+ 4.2
IOWA. Burlington . . .	72	+ 1	2.2	- 2.5	Raleigh . . .	70	- 4	3.3	- .4	Parkersburg . . .	68	- 4	3.5	- .5
Des Moines . . .	71	0	5.8	+ .9	Wilmington . . .	75	- 3	4.7	- .9	WISC. Green Bay . . .	65	0	2.1	- 1.3
Dubuque . . .	68	0	4.3	- 1.0	N. DAK. Bismarck . . .	64	0	.8	- 2.8	La Crosse . . .	68	- 1	1.6	- 2.8
Sioux City . . .	70	0	3.4	- 1.2	Fargo . . .	65	0	2.9	- .3	Madison . . .	66	0	2.5	- 1.8
KANS. Concordia . . .	73	0	3.5	- 1.5	Williston . . .	65	+ 2	2.9	- .4	Milwaukee . . .	65	0	2.8	- .8
Dodge City . . .	74	0	.9	- 2.4	OHIO. Akron-Canton . . .	66	- 2	2.5	- 1.0	WYO. Casper . . .	62	0	1.3	- .1
Goodland . . .	69	0	5.1	+ 2.2	Cincinnati . . .	69	- 3	5.9	+ 2.1	Cheyenne . . .	62	+ 1	3.3	+ .9
Topeka . . .	72	- 2	5.6	- .2	Cleveland . . .	67	- 1	3.5	+ .2	Lander . . .	63	+ 2	.8	- 1.1
Wichita . . .	75	- 1	6.5	+ 2.0	Columbus . . .	70	0	4.2	+ .1	Sheridan . . .	61	0	1.1	- 1.9
KY. Lexington . . .	71	- 2	2.8	- 1.5	Dayton . . .	70	- 1	4.3	+ .4	P. R. San Juan . . .	89	+ 8	5.6	0
Louisville . . .	74	+ 1	3.0	- 1.1	Toledo . . .	68	- 1	4.2	+ .8					

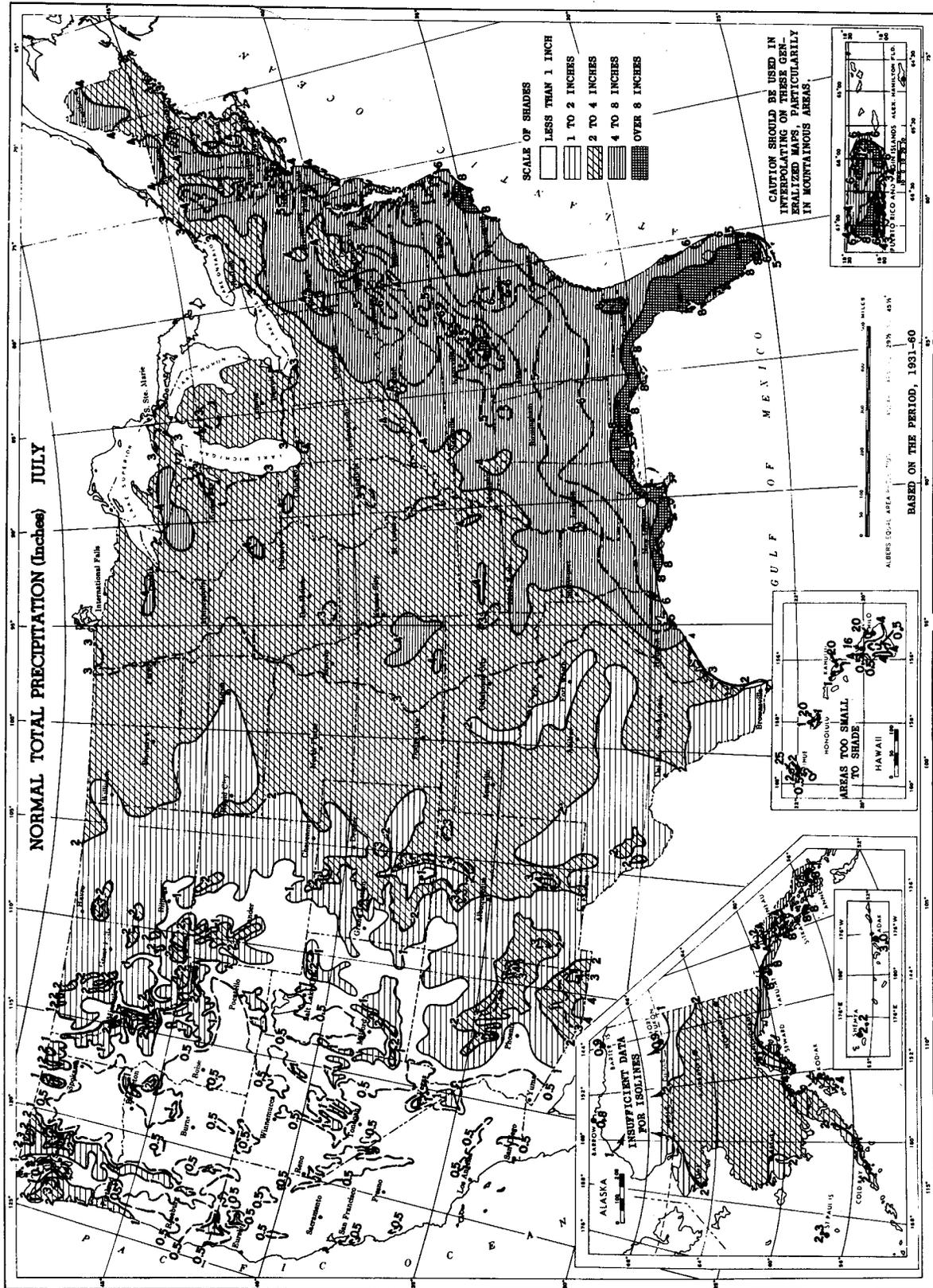
Based on 1941-70 normals

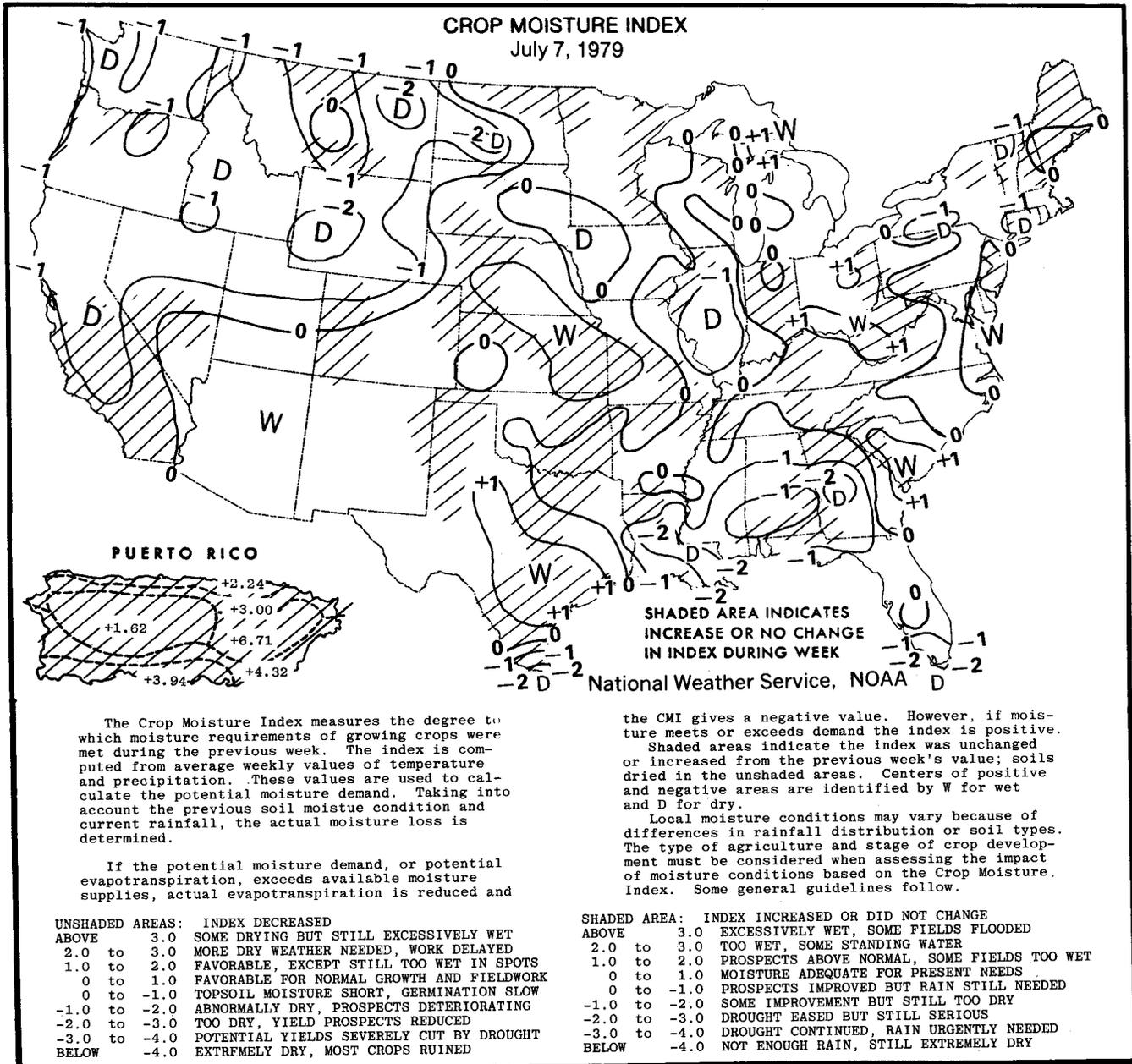
Heating Degree Days (Base 65° F.)

June 1979

ALA. Birmingham	0	MAINE, Caribou	104	OKLA. Okla. City	0
Mobile	0	Portland	97	Tulsa	0
Montgomery	0	MD. Baltimore	6	OREG. Astoria	248
ALASKA, Anchorage	268	MASS. Boston	19	Burns U.	150
Barrow	--	Chatham	129	Medford	58
Fairbanks	--	MICH. Alpena	164	Pendleton	64
Juneau	--	Detroit	55	Portland	57
Nome	--	Flint	64	Salem	121
ARIZ. Flagstaff	219	Grand Rapids	142	PA. Allentown	29
Phoenix	0	Houghton Lake	135	Erie	106
Tucson	0	Lansing	58	Harrisburg	26
Winslow	27	Marquette U.	214	Philadelphia	17
Yuma	0	S. Ste. Marie	237	Pittsburgh	38
ARK. Fort Smith	0	MINN. Duluth	172	Scranton	66
Little Rock	0	Internatl Falls	177	R. I. Providence	52
CALIF. Bakersfield	0	Minneapolis	38	S. C. Charleston	0
Eureka U.	323	Rochester	31	Columbia	2
Fresno	0	St. Cloud	87	Greenville	3
Los Angeles U.	6	MISS. Jackson	0	S. DAK. Aberdeen	68
Red Bluff	0	Meridian	0	Huron	35
Stockton	0	Vicksburg U.	--	Rapid City	82
San Diego	6	MO. Columbia	0	Sioux Falls	40
San Francisco	132	Kansas City	5	TENN. Chattanooga	0
COLO. Denver	81	St. Louis	0	Knoxville	0
Grand Junction	37	Springfield	14	Memphis	0
Pueblo	48	MONT. Billings	70	Nashville	0
CONN. Bridgeport	23	Glasgow	86	TEX. Abilene	0
Hartford	26	Great Falls	111	Amarillo	30
D. C. Washington	0	Havre	72	Austin	0
FLA. Apalachicola	0	Helena	128	Beaumont	0
Ft. Myers	0	Kalispell	152	Brownsville	0
Jacksonville	0	Miles City	62	Corpus Christi	0
Key West	0	Missoula	126	Dallas	--
Daytona Beach	0	NEBR. Grand Island	38	Del Rio	0
Miami	0	Lincoln	16	El Paso	1
Orlando	0	Norfolk	33	Fort Worth	0
W. Palm Beach	0	North Platte	56	Galveston U.	0
Tallahassee	0	Omaha	24	Houston	0
Tampa	0	Valentine	67	Lubbock	9
GA. Atlanta	0	NEV. Ely	179	Midland	3
Augusta	2	Las Vegas	0	San Angelo	0
Macon	0	Reno	91	San Antonio	0
Savannah	0	Winnemucca	63	Victoria	0
IDAHO, Boise	72	N. H. Concord	99	Waco	0
Lewiston	61	N. J. Atlantic City	39	Wichita Falls	0
Pocatello	156	Trenton U.	20	UTAH, Milford	101
ILL. Cairo U.	0	N. MEX. Albuquerque	12	Salt Lake City	57
Chicago	28	Roswell	2	VT. Burlington	90
Moline	12	N. Y. Albany	63	VA. Lynchburg	11
Peoria	10	Binghamton	127	Norfolk	5
Rockford	27	Buffalo	65	Richmond	4
Springfield	0	New York	15	Roanoke	15
IND. Evansville	0	Rochester	79	WASH. Colville	101
Fort Wayne	26	Syracuse	74	Omak	--
Indianapolis	5	N. C. Asheville	18	Quillayute	294
South Bend	22	Charlotte	4	Seattle-Tacoma	96
IOWA, Burlington	4	Greensboro	8	Spokane	134
Des Moines	13	Hatteras R.	0	Walla Walla U.	41
Dubuque	25	Raleigh	8	Yakima	72
Sioux City	31	Wilmington	0	W. VA. Beckley	69
KANS. Concordia	19	N. DAK. Bismarck	81	Charleston	19
Dodge City	25	Fargo	85	Huntington	12
Goodland	58	Williston U.	76	Parkersburg U.	21
Topeka	9	OHIO. Akron-Canton	62	WIS. Green Bay	70
Wichita	3	Cincinnati U.	15	Madison	52
KY. Lexington	15	Cleveland	60	Milwaukee	92
Louisville	5	Columbus	18	WYO. Casper	151
LA. Baton Rouge	0	Dayton	15	Cheyenne	139
Lake Charles	0	Toledo	42	Lander	137
New Orleans	0	Youngstown	74	Sheridan	154
Shreveport	0				

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





The Crop Moisture Index measures the degree to which moisture requirements of growing crops were met during the previous week. The index is computed from average weekly values of temperature and precipitation. These values are used to calculate the potential moisture demand. Taking into account the previous soil moisture condition and current rainfall, the actual moisture loss is determined.

If the potential moisture demand, or potential evapotranspiration, exceeds available moisture supplies, actual evapotranspiration is reduced and

the CMI gives a negative value. However, if moisture meets or exceeds demand the index is positive. Shaded areas indicate the index was unchanged or increased from the previous week's value; soils dried in the unshaded areas. Centers of positive and negative areas are identified by W for wet and D for dry.

Local moisture conditions may vary because of differences in rainfall distribution or soil types. The type of agriculture and stage of crop development must be considered when assessing the impact of moisture conditions based on the Crop Moisture Index. Some general guidelines follow.

CROP MOISTURE WAS STILL SHORT AT MAP TIME IN PARTS OF THE SOUTHERN STATES FROM LOUISIANA TO GEORGIA BUT CONTINUING SHOWERS WILL HELP. THE CROP MOISTURE IN CENTRAL ILLINOIS IS STILL SHORT AS LITTLE OR NO RAIN FELL IN THAT AREA. ANOTHER DRY WEEK IN PARTS OF NORTH DAKOTA AND EASTERN MONTANA HAS BROUGHT THE CROP MOISTURE SHORTAGE BACK TO THAT AREA. THE WEST IS STILL DRY AND PASTURES ARE DETERIORATING.



FIRST CLASS MAIL

**CROP DEVELOPMENT
 FOR WEEK ENDING JULY 8**

COTTON SQUARING			
	1979	1978	AVG.
ALA	75	52	62
ARIZ	NA	NA	NA
ARK	62	NA	NA
CALIF	90	NA	NA
GA	96	90	NA
LA	79	NA	NA
MISS	81	88	75
MO	30	74	62
N MEX	NA	NA	NA
NC	50	NA	NA
OKLA	10	15	15
SC	NA	NA	NA
TENN	48	72	71
TEX	34	NA	NA

COTTON SETTING BOLLS			
	1979	1978	AVG.
ALA	NA	NA	NA
ARIZ	NA	NA	NA
ARK	7	NA	NA
CALIF	17	NA	NA
GA	73	61	NA
LA	12	NA	NA
MISS	1	2	22
MO	NA	NA	NA
N MEX	NA	NA	NA
NC	NA	NA	NA
OKLA	NA	NA	NA
SC	42	22	38
TENN	1	6	11
TEX	14	NA	NA

SPRING WHEAT HEADED			
	1979	1978	AVG.
IDAHO	NA	NA	NA
MINN	27	81	76
MONT	25	30	25
N DAK	21	47	53
S DAK	81	87	94

**HARVEST PROGRESS
 FOR WEEK ENDING JULY 8**

WINTER WHEAT			
	1979	1978	AVG.
CALIF	74	NA	NA
COLO	3	18	20
IDAHO	0	0	0
ILL	65	56	79
IND	20	15	60
KANS	45	85	80
MO	55	69	80
MONT	0	0	0
NEBR	17	30	40
OHIO	5	10	30
OKLA	95	100	100
OREG	17	NA	NA
S DAK	0	0	0
TEX	93	93	97
WASH	17	NA	NA
15 STATES	43	63	66

THESE 15 STATES PRODUCED 95%
 OF THE 1978 WINTER WHEAT CROP.

NA NOT AVAILABLE
 1/ LESS THAN 5%