

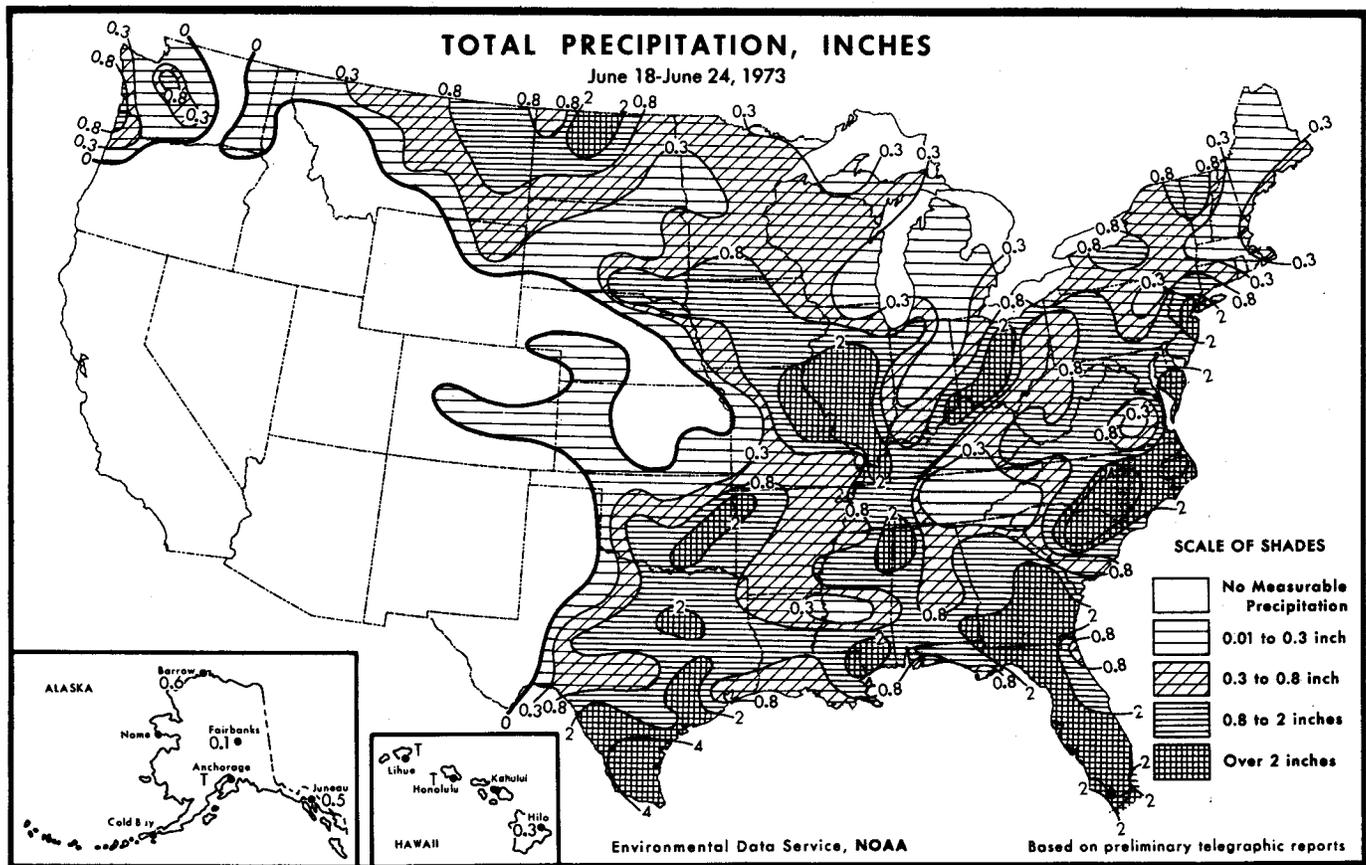
# Weekly Weather & Crop Bulletin

U. S. DEPARTMENT OF COMMERCE  
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## NATIONAL WEATHER SUMMARY

**HIGHLIGHTS:** Continuing rains, 2.00 in or more last week, hurt crops in Georgia and South Carolina, while a welcome 2.00 in fell in northern North Dakota. The West remained mostly hot and dry. The eastern half had a cooler, wetter week than normal.

**PRECIPITATION:** A cold front, which took most of the week to cross the Nation's eastern half, brought considerable rain, with as much as 4.00 in in scattered areas. Southern Texas and parts of the Carolinas got 4.00 in, while areas neighboring them got 2.00 in or more. Most of Florida, southern Georgia, and sections of the Corn Belt got 2.00.

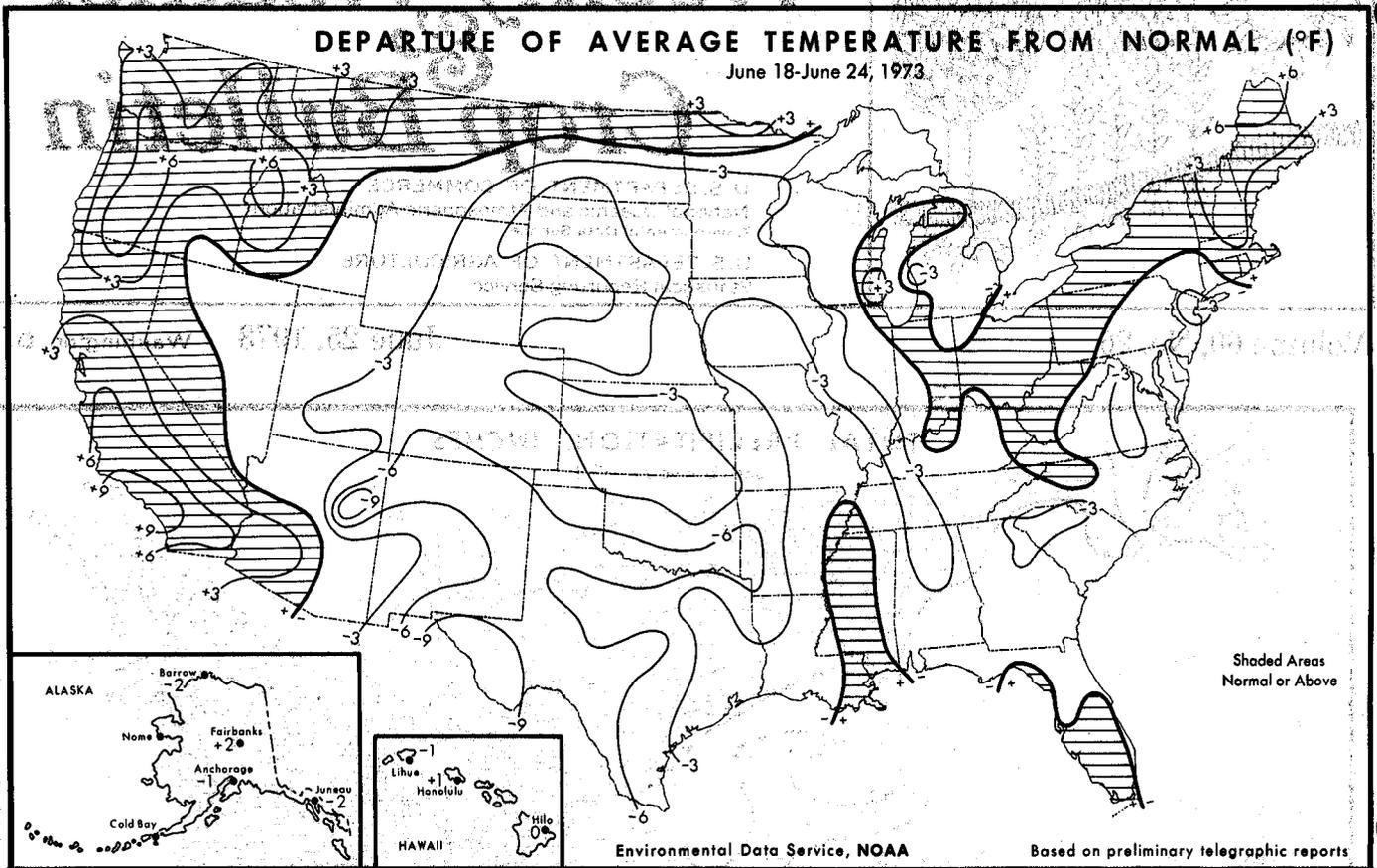
In contrast, much of the Plains, and most of the Nation from the Rockies west received little or no rain. The exception: parts of Washington

and areas bordering Canada.

Early Monday a cold front moved into the central United States, spreading thunderstorms from eastern Oklahoma to Illinois and Wisconsin. Springfield, Ill., had 1.65 in early Monday, while Minot, N. D., AFB reported 2.10 in.

The front met warm moist air, pumped by a high over the Gulf and violent weather erupted. Baseball-size hail pounded Iowa Park, Tex., while 2-in hail hit Abilene. Springfield, Ill., got 80 mph winds and 1 1/2-in hail. By 9 am Tuesday, Quincy, Ill., had received 5.26 in rain in 24 hours.

Tuesday, thunderstorms continued over the southcentral and southeastern sections. Charleston, S. C., got 4.50 in rain, bringing the June total there to 24.70 in which is more than 8.00 in over the previous record for month, set in June 1893. Carrollton, Tex., got almost 2.00 in



rain in a 30-minute downpour. New Orleans, La., got 1.90 in over 6 hours.

On Wednesday, thunderstorm activity continued but the main storm, an intense Low that had been situated over North Dakota, waned as it drifted over Manitoba. The slow moving cold front extended from Lake Huron into the Ohio Valley and from there into Texas.

Thursday, the first day of summer, began warm and clear in the West, and warm and humid in the East, which suffered from fog and haze. Thunderstorms rampaged through Texas and over the East Coast. Hebronville, Tex., got 8.00 in rain, which left a highway under 4 feet of water. More than 1.00 in rain fell at Syracuse, N. Y., Washington, D. C., and Tallahassee, Fla.

Friday was mostly sunny throughout the Nation: Much of the rain was confined to the East Coast. Hampton, Va., was drenched with 3.50 in. La Guardia airport, N. Y., recorded 3.66 in from 9 pm Thursday to 9 pm Friday, as Atlantic City and Colombia, N. J., received 2.66 in over the same time.

The stalled cold front ruined Saturday along many Atlantic beaches as fog from the Ocean drifted inland, and 2.00 in rain hit Miami, Fla.; however, most of the Nation enjoyed a pleasant summer weekend. On Sunday, another cold front had entered the northcentral section and local thunderstorms erupted in the Dakotas and Iowa.

**TEMPERATURE:** Southern California broiled in a heat wave. In the Los Angeles area, where temperatures averaged 9° above normal last week, temperatures broke 100° several days. On

Tuesday, the mercury hit 106° at the Civic Center, a record for June.

States bordering California, the Pacific Northwest, and Canadian border areas stretching east to Minnesota also stayed above average. Cascade areas and part of Idaho were 6° above the norm.

While New England, Upstate New York, western Pennsylvania and some Great Lake areas remained slightly to 6° above normal, successive cold fronts kept most of the Nation east of the Rockies cooler than average. Large areas of Texas and neighboring States averaged 6° to 9° subnormal. Also, an area, mostly in the Dakotas and Nebraska averaged 6° subnormal.

A rapidly moving cold front engulfed the Plains and Parts of the Midwest on Monday, causing snow in higher Rocky elevations. Record lows were recorded at Reno, Nev., and Casper, Wyo., (33°) and Boise, Idaho, (36°).

On Tuesday, the cold front stretched from Texas to Wisconsin, with the Low centered in North Dakota. This, together with a High over Idaho, pulled cold Canadian air into the Nation's midsection.

After that the cold front moved slowly, and by Friday it stretched along the Appalachians, through Georgia, into the Gulf. As it moved: It caused record lows from Texas to Wyoming on Wednesday, and record lows in Texas Thursday, Lubbock, Tex., had 49° Wednesday morn, while Midland had 53° on Thursday. While this front chilled and fogged the East Coast on Saturday, another cold front moved out of the Rockies and stretched over Colorado and the Dakotas on Sunday.

## NATIONAL AGRICULTURAL SUMMARY

**AGRICULTURAL HIGHLIGHTS:** Corn planting virtually complete in Corn Belt. \* Soybean planting advanced to 88 percent complete in Corn Belt. \* Wheat harvesting gained momentum on southern Great Plains. \* Frost caused moderate damage to some Idaho potato fields. \* Frequent rains hurting some Georgia crops.

**SMALL GRAINS:** Winter wheat harvesting on the southern Great Plains gained momentum. Hot, dry weather over Kansas pushed the crop closer to maturity. Wheat harvesting in Texas advanced to 41 percent complete compared to 72 percent last year. Good progress was made on the Texas high and low plains but rains stopped combining elsewhere in the State. In Oklahoma, the wheat harvest moved briskly to 56 percent complete compared to the average of 75 percent, but combine shortages were developing. Kansas wheat cutting increased 6 points to 7 percent harvested versus the average of 31 percent harvested. Nebraska wheat continues in mostly good condition and 85 percent of the crop has turned color. Small grains in North Dakota were boosted by general rains but more moisture is needed. Development of small grain is generally ahead of normal in the northern Plains. Combining of small grains was active in the South when weather permitted and was in full swing in the Southwest.

**CORN:** Planting of corn is virtually complete in the Corn Belt except in Indiana and Michigan which are 95 percent and 93 percent planted, respectively. Planting has continued about 2 weeks later than usual in most States. The Corn Belt corn crop is in generally good condition with adequate to surplus soil moisture supplies. Cultivation for weed control is active. Temperatures the past week tended to be 3° cooler than normal over the Western Corn Belt and near normal over the eastern Corn Belt. Rainfall was general. Illinois corn averaged about 16 inches tall compared to the normal height of 26 inches. The Southern corn crop is in mostly good condition although excessive, frequent rains in Georgia have caused considerable drowning of plants in several counties. Soil moisture supplies are generally adequate to surplus. In North Carolina, 13 percent of the corn is silking.

**COTTON:** Texas cotton growers have only 1 percent of their intended acreage left to plant while Oklahoma cotton is 91 percent planted. Cotton is generally in fair to good condition in the South with development ranging from fruiting on schedule in south Texas to early stages of squaring in Mississippi, Arkansas, and Georgia. Development is running behind normal in these 3 States due to late planting of much acreage. About 14 percent of Mississippi's cotton acreage is squaring versus 50 percent last year. In California, cotton is blooming with some bolls showing. Cool nights have slowed cotton growth in New Mexico and parts of Arizona.

**SOYBEANS:** Soybean planting advanced to 88 percent complete in the Corn Belt as of June 24 compared to 99 percent complete for last year and average progress. It was a good work week with much planting accomplished in most areas. Eastern Corn Belt soybeans are 83 percent planted compared to 98 percent last year while western Corn Belt acreage is 93 percent planted versus 99 percent a year earlier. Planting lags most in Missouri at 73 percent done; Iowa is finished; Illinois acreage is 85 percent planted. Emerged soybeans are in fair to good condition across the Corn Belt. In the South, soybeans are 80 percent planted which is behind last year's progress in most States. Arkansas acreage is 84 percent seeded; Mississippi 79 percent. Condition of growing soybeans is generally good in most Southern States.

**OTHER CROPS:** Sorghum planting continues in Texas at 96 percent complete, in Kansas at 82 percent complete, and in Missouri at 76 percent complete where progress is far behind normal. About 20 percent of Kentucky's tobacco acreage is requiring some resetting. Georgia tobacco is in fair condition with too much water causing problems. Rain delayed normal cultivation and controls for Georgia peanuts. Texas peanut planting at 76 percent done is ahead of last year. Frost last week caused moderate damage to scattered Idaho potato fields, some areas may be delayed two weeks. Digging of spring sugar beets is 33 percent complete in the Imperial Valley of California. Rice is growing rapidly in Arkansas. Some Michigan farmers are waiting for rain before completing dry bean planting now 75 percent complete.

**Fruits and Nuts:** Harvesting of peaches became more active in the South. Sweet cherry harvesting is underway in Pennsylvania and New York. Apples are sizing in northeastern orchards. Tart cherries are turning color in southwest Michigan. Harvest of early types of stone fruits continued active in California where an above normal walnut crop is expected. Cherry harvesting is active in Oregon despite a shortage of cherry pickers.

**Vegetables:** Excessive rainfall has damaged vegetable crops in South Carolina and lowered condition of Georgia vegetables. Light harvesting of some vegetables got underway in New York. Vegetables are growing good in Wisconsin. Early celery harvest started in Michigan. Rain delayed vegetable harvesting in extreme south Texas. Mixed vegetable harvesting progressed normally in California and Arizona. Hot weather spurred vegetable development in the Pacific Northwest.

**PASTURES AND LIVESTOCK:** Pasture and range conditions generally remain unchanged across the Nation with eastern pastures above average and western ranges drying. Showers over North Dakota brought temporary relief from drying. Extreme fire hazards exist on lower elevation ranges in California. Cattle are in good condition in most areas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., June 24, 1973

States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches		States and Stations	Temperature °F		Precipitation Inches	
	Average	Departure	Total	Departure		Average	Departure	Total	Departure		Average	Departure	Total	Departure
ALA. Birmingham . . .	76	- 5	.7	-. 2	La. Baton Rouge . . .	81	- 1	.5	-. 1	Youngstown . . . .	70	+ 1	.8	0
Mobile . . . . .	81	- 1	1.0	-. 5	Lake Charles . . . .	80	- 2	.5	-. 6	OKLA. Okla. City . .	75	- 2	.4	-. 6
Montgomery . . . .	80	- 1	.5	-. 5	New Orleans . . . . .	82	+ 1	1.9	+ .8	Tulsa . . . . .	77	- 2	.8	-. 4
ALASKA Anchorage .	55	- 1	T	-. 2	Shreveport . . . . .	78	- 4	.8	+ .1	OREG. Astoria . . . .	60	+ 2	1.2	+ .5
Barrow . . . . .	34	- 2	.6	+ .5	MAINE. Caribou . . . .	67	+ 7	.5	-. 4	Burns . . . . .	62	0	0	-. 2
Fairbanks . . . . .	62	+ 2	.1	-. 3	Portland . . . . .	64	+ 1	.5	-. 3	Medford . . . . .	72	+ 6	0	-. 2
Juneau . . . . .	52	- 2	.5	-. 3	MD. Baltimore . . . .	72	- 2	1.9	+1.1	Pendleton . . . . .	71	+ 4	.1	-. 2
Kodiak . . . . .	48	- 3	.3	---	MASS. Boston . . . . .	71	+ 2	.6	-. 2	Portland . . . . .	69	+ 6	.4	0
Nome . . . . .	---	---	---	---	Chatham . . . . .	54	---	---	---	Salem . . . . .	66	+ 4	.2	-. 1
ARIZ. Flagstaff . .	61	- 1	T	-. 2	MICH. Alpena . . . . .	62	0	.1	-. 5	PA. Allentown . . . .	69	- 2	.9	0
Phoenix . . . . .	90	+ 5	0	0	Detroit . . . . .	70	0	.6	-. 1	Erie . . . . .	67	+ 1	.2	-. 5
Tucson . . . . .	83	- 1	0	-. 1	Flint . . . . .	67	- 1	T	-. 7	Harrisburg . . . . .	72	- 1	.6	-. 2
Winslow . . . . .	67	-10	0	-. 1	Grand Rapids . . . .	69	0	.1	-. 7	Philadelphia . . . .	72	- 1	1.2	+ .2
Yuma . . . . .	91	+ 3	---	---	Houghton Lake . . . .	64	- 1	.2	-. 5	Pittsburgh . . . . .	72	+ 2	.8	-. 1
ARK. Fort Smith . .	75	- 6	.9	-. 1	Lansing . . . . .	67	- 2	T	-. 8	Scranton . . . . .	67	- 2	.1	-. 8
Little Rock . . . .	79	- 2	.4	-. 4	Marquette . . . . .	61	- 1	.4	-. 4	R. I. Providence . . .	69	+ 1	.2	-. 5
CALIF. Bakersfield .	84	+ 5	0	0	Muskegon . . . . .	66	- 3	.1	-. 5	S. C. Charleston . . .	80	0	.7	-. 5
Eureka . . . . .	56	0	T	-. 2	S. Ste. Marie . . . .	59	- 2	T	-. 8	Columbia . . . . .	79	- 2	4.2	+3.3
Fresno . . . . .	80	+ 4	0	0	MINN. Duluth . . . . .	58	- 3	.4	-. 7	Greenville . . . . .	75	- 5	.3	-. 4
Los Angeles . . . .	81	+12	0	0	Internatl Falls . . . .	64	+ 3	.3	-. 7	S. D. Aberdeen . . . .	66	- 2	T	-1.1
Red Bluff . . . . .	80	+ 2	T	-. 1	Minneapolis . . . . .	66	- 2	.5	-. 5	Huron . . . . .	65	- 6	.2	-. 7
San Diego . . . . .	72	+ 5	0	0	Rochester . . . . .	65	- 4	.6	-. 5	Rapid City . . . . .	62	- 5	T	-. 7
San Francisco . . . .	66	+ 4	T	0	St. Cloud . . . . .	63	- 4	.6	-. 5	Sioux Falls . . . . .	66	- 5	.8	-. 3
Stockton . . . . .	79	+ 5	0	0	MISS. Jackson . . . . .	82	+ 1	T	-. 9	TENN. Chattanooga . .	77	- 2	.2	-. 7
COLO. Denver . . . .	66	- 3	T	-. 3	Meridian . . . . .	80	- 1	.6	-. 4	Knoxville . . . . .	75	- 2	.1	-. 7
Grand Junction . . .	68	- 5	0	-. 1	MO. Columbia . . . . .	72	- 2	1.5	+ .4	Memphis . . . . .	82	+ 2	T	-. 9
Pueblo . . . . .	69	- 4	T	-. 3	Kansas City . . . . .	73	- 5	0	-1.2	Nashville . . . . .	76	- 3	T	-. 7
CONN. Bridgeport . .	68	- 1	1.2	+ .4	St. Louis . . . . .	74	- 2	2.2	-1.2	TEX. Abilene . . . . .	77	- 5	.8	+ .2
Hartford . . . . .	71	+ 2	.8	-. 1	Springfield . . . . .	72	- 4	.4	-. 8	Amarillo . . . . .	73	- 6	0	-. 6
D. C. Washington . .	75	+ 1	1.5	+ .8	MONT. Billings . . . .	66	- 2	T	-. 7	Austin . . . . .	79	- 4	.7	0
FLA. Apalachicola .	82	+ 1	.2	-1.1	Glasgow . . . . .	66	+ 2	1.1	+ .5	Beaumont . . . . .	80	- 1	.7	-. 3
Daytona Beach . . .	79	0	.8	---	Great Falls . . . . .	65	+ 3	.2	-. 6	Brownsville . . . . .	79	- 4	5.6	+4.8
Ft. Myers . . . . .	81	- 1	2.8	+ .6	Havre . . . . .	65	+ 2	.6	-. 2	Corpus Christi . . . .	80	- 4	3.9	+3.4
Jacksonville . . . .	80	- 2	.8	-. 8	Helena . . . . .	63	+ 2	0	-. 6	Dallas . . . . .	---	---	---	---
Key West . . . . .	83	+ 1	1.9	+ .9	Kalispell . . . . .	62	+ 2	T	-. 6	Del Rio . . . . .	78	- 7	.9	+ .4
Lakeland . . . . .	80	- 1	1.1	-. 6	Miles City . . . . .	65	- 3	1.3	+ .7	El Paso . . . . .	73	- 9	0	-. 2
Miami . . . . .	81	0	1.6	-. 1	Missoula . . . . .	63	+ 2	T	-. 5	Fort Worth . . . . .	80	- 3	1.8	+1.1
Orlando . . . . .	83	+ 1	1.6	-. 3	NEBR. Grand Island . .	67	- 6	0	-. 9	Galveston . . . . .	81	- 2	1.0	+ .4
Tallahassee . . . .	81	0	2.6	+1.0	Lincoln . . . . .	72	- 4	.1	-1.0	Houston . . . . .	81	- 1	.2	-. 6
Tampa . . . . .	81	0	2.6	+ .9	Norfolk . . . . .	69	- 4	.1	-. 9	Lubbock . . . . .	74	- 5	0	-. 5
W. Palm Beach . . . .	80	- 2	3.6	---	N. Platte . . . . .	65	- 6	.1	-. 7	Midland . . . . .	76	- 7	0	-. 4
GA. Atlanta . . . . .	77	- 1	1.4	+ .5	Omaha . . . . .	70	- 3	.3	-1.0	San Angelo . . . . .	78	- 6	1.2	+ .8
Augusta . . . . .	79	- 1	.5	-. 2	Valentine . . . . .	66	- 4	T	-. 8	San Antonio . . . . .	78	- 5	1.6	+ .9
Macon . . . . .	80	- 2	1.1	+ .3	NEV. Ely . . . . .	59	- 2	0	-. 1	Victoria . . . . .	80	- 2	1.9	+1.2
Savannah . . . . .	80	- 1	1.8	+ .6	Las Vegas . . . . .	85	0	0	0	Waco . . . . .	78	- 6	1.7	+1.1
HAWAII. Hilo . . . .	75	0	.3	-1.3	Reno . . . . .	63	+ 2	T	0	Wichita Falls . . . . .	76	- 8	T	-. 7
Honolulu . . . . .	79	+ 1	T	-. 1	Winnemucca . . . . .	64	0	T	-. 2	UTAH. Blanding . . . .	64	- 3	0	-. 1
Kahului . . . . .	---	---	---	---	N. H. Concord . . . . .	69	+ 3	.3	-. 5	Salt Lake City . . . .	68	- 2	T	-. 2
Lihue . . . . .	76	- 1	T	-. 3	N. J. Atlantic City . .	69	- 2	1.8	+1.1	VT. Burlington . . . .	68	+ 2	1.1	+ .2
IDAHO. Boise . . . .	72	+ 4	0	-. 2	Trenton . . . . .	71	- 2	2.1	+1.1	VA. Lynchburg . . . .	73	- 2	1.0	0
Lewiston . . . . .	72	+ 5	T	-. 4	N. MEX. Albuquerque .	73	- 4	0	-. 1	Norfolk . . . . .	76	- 1	2.0	+1.2
Pocatello . . . . .	63	- 2	0	-. 2	Roswell . . . . .	73	- 6	0	-. 3	Richmond . . . . .	74	- 3	.3	-. 6
ILL. Cairo . . . . .	78	- 1	.3	-. 7	N. Y. Albany . . . . .	69	0	.2	-. 6	Roanoke . . . . .	73	- 2	1.7	+ .8
Chicago . . . . .	72	0	.4	-. 6	Binghamton . . . . .	65	0	.6	-. 3	WASH. Colville . . . .	67	+ 5	.1	-. 2
Moline . . . . .	70	- 3	.5	-. 6	Buffalo . . . . .	69	+ 2	.5	-. 1	Omak . . . . .	66	0	0	-. 4
Peoria . . . . .	71	- 3	2.6	+1.6	New York . . . . .	69	- 4	3.7	+2.9	Quillayute . . . . .	60	+ 3	.5	0
Rockford . . . . .	69	- 3	.2	-. 8	Rochester . . . . .	70	+ 1	1.4	+ .8	Seattle-Tacoma . . . .	64	+ 3	.8	+ .4
Springfield . . . . .	72	- 4	3.0	-2.0	Syracuse . . . . .	70	+ 1	1.5	+ .8	Spokane . . . . .	67	+ 3	.1	-. 3
IND. Evansville . . .	75	- 3	.6	-. 3	N. C. Asheville . . . .	72	- 1	.3	-. 5	Walla Walla . . . . .	73	+ 4	T	-. 3
Ft. Wayne . . . . .	73	+ 1	.5	-. 6	Charlottesville . . . .	75	- 4	1.6	+ .7	Yakima . . . . .	68	+ 2	T	-. 2
Indianapolis . . . .	73	0	.1	-1.1	Greensboro . . . . .	76	0	1.9	+ .9	W. Va. Beckley . . . .	69	0	.2	-. 8
South Bend . . . . .	71	0	1.1	+ .2	Hatteras . . . . .	77	0	2.2	+1.3	Charleston . . . . .	75	+ 1	1.6	+ .7
IOWA. Burlington . .	71	- 3	1.3	-. 2	Raleigh . . . . .	75	- 2	4.9	+3.9	Huntington . . . . .	75	+ 2	.5	-. 5
Des Moines . . . . .	71	- 2	.8	-. 4	Wilmingon . . . . .	78	- 1	2.0	-1.0	Parkersburg . . . . .	75	+ 1	.4	-. 6
Dubuque . . . . .	67	- 3	.4	-. 8	Fargo . . . . .	61	- 6	.5	-. 4	WIS. Green Bay . . . .	67	0	.3	-. 6
Sioux City . . . . .	69	- 4	1.3	+ .2	N. DAK. Bismarck . . .	63	- 4	.4	-. 4	La Crosse . . . . .	68	- 3	.6	-. 4
KANS. Concordia . . .	73	- 3	T	-1.0	Williston . . . . .	65	0	.8	-. 1	Madison . . . . .	66	- 2	.1	-. 9
Dodge City . . . . .	75	- 2	.1	-. 6	OHIO. Akron-Canton . .	72	+ 1	.4	-. 6	Milwaukee . . . . .	68	+ 3	.1	-. 8
Goodland . . . . .	69	- 3	.1	-. 5	Cincinnati . . . . .	73	- 1	3.0	-2.0	Milwaukee . . . . .	61	- 5	0	-. 3
Topeka . . . . .	73	- 4	T	-1.1	Cleveland . . . . .	71	+ 2	1.1	+ .3	WYO. Casper . . . . .	60	- 5	T	-. 5
Wichita . . . . .	77	- 2	T	-1.2	Columbus . . . . .	74	+ 2	2.1	+1.1	Cheyenne . . . . .	62	- 2	0	-. 3
KY. Lexington . . . .	74	- 1	.8	-. 3	Dayton . . . . .	75	+ 2	1.0	0	Lander . . . . .	61	- 3	T	-. 6
Louisville . . . . .	76	+ 1	1.3	+ .3	Toledo . . . . .	70	0	.6	-. 4	Sheridan . . . . .	61	- 2	T	-. 1
										P. R. San Juan . . . .	83	+ 3	T	-1.1

## CONDENSED STATE SUMMARIES

The Bulletin capsulizes nationally important weather and crop conditions. Every Monday SRS publishes more detailed data in State Weekly Weather and Crop Bulletins in cooperation with the National Weather Service, NOAA. Voluntary weather observers, crop reporters, and county extension agents contribute weekly observations for these reports.

**ALABAMA:** Scattered, mostly afternoon and evening thundershowers. Amounts ranged from light to heavy with none at Dothan but nearly 5.00 in Birmingham area. Temperatures near normal. Heavy rains and wet ground continued to slow fieldwork most of State. Cotton continued to make progress with early fields beginning to square. Weeds and grass continue a problem for corn and cotton. Corn made further progress and remains in good condition. Old corn silking in south and central. Weather permitting, soybean planting continued progress, early acreage at even stands. Peanuts pegging in southern counties. Herbicides and leaf spot spraying held to drier fields. Harvest of small grains 50% completed. Rains lowered value and quantity of hay, few fields harvested.

**ALASKA:** Temperatures warmed in all but Clearwater, Anchorage and Kodiak where they lagged behind normal. Even usual isolated areas of frost not reported. Extremes: 34°, Clearwater; 80° Fairbanks. Light precipitation accompanied warmer weather. First cutting brome hay and green chop underway Tanana and Matanuska Valleys. Grass silage chopping started Tanana Valley. All crops look good, but growth some areas slow due to coolness and lack of sunshine. Soil moisture supply generally adequate. Livestock good.

**ARIZONA:** Temperatures 2° to 4° above normal northwest, southwest and southcentral, 4° to 6° subnormal elsewhere. Widely scattered, very light showers. Cotton crop continues satisfactory progress, cool weather preventing rapid growth Cochise. Small grain harvest full swing. Parts of Cochise still turning color. Problems obtaining harvesting equipment, yields good to excellent. Sorghum activity varies from planting to setting of seed. Safflower satisfactory progress, good seed maturation, yield prospects very favorable. Sugar beet harvest complete Yuma, satisfactory yields; harvest Salt River Valley 50% complete. Alfalfa hay fourth cutting Yuma area, third cuttings Pima, Mohave and Maricopa Counties, second cuttings Graham and Cochise Counties. All areas good, favorable yields. Lettuce harvest complete Cochise. Chilli peppers good progress. Cantaloupe harvest continued full swing Yuma. Mixed vegetable harvest continued seasonally. Potato harvest full swing Salt River Valley, sizes somewhat smaller than normal. Grapefruit and Valencia orange harvest virtually complete Yuma. Harvest Salt River Valley areas active but limited. New crop prospects continue favorable. Ranges good except desert ranges virtually dried up. Stockwater adequate. Cattle, calves good, summer roundup active. Screwworm infestations south. Sheep, lambs fair to good.

**ARKANSAS:** Temperatures 6° subnormal west to 1° above east. Extremes: 53° Calico Rock, 97° Brinkley and Keiser. Rainfall western half 0.50 in to 2.33 in at Fayetteville. Largest amounts eastern half 0.00 to about 0.50 in. Most rainfall early week. Crop conditions improve. Soil moisture generally adequate. Cotton made good growth, condition mostly fair to good,

some poor. Squaring increases early fields. Rice good, growing rapidly. Soybeans 84% planted, weeds and grass caused greatest concern. Sorghum planting continues. Showers slowed small grain harvest. Wheat 70% harvested. Oat harvest nears completion. Hay cutting active despite showers, quality and yield good. Peach harvest increases, size and quality good. Apple harvest underway. Tomato harvest increases. Truck crops shows improvement. Pastures good. Cattle gain weight.

**CALIFORNIA:** Precipitation early and late week extreme north coast, total about 0.10 in. Few light showers High Sierra, otherwise no rain. Temperatures 5° to 7° above normal central and south coasts, near normal elsewhere. Hot spell during week peaked late week. Cooling end week coast and central valley, high readings down sharply by 10° to 20° from 100° to 110° range in 24 hours. Small grain harvest started late areas. Barley harvest past peak central interior valleys. Digging spring sugar beets 33% complete Imperial Valley. Digging overwintered beets active Sacramento Valley. Planting corn, milo, dry beans after small grains continued. Cotton fields generally blooming, some bolls showing. Vineyards excellent growth. Picking early varieties peaches, plums, nectarines active. Cherry harvest nearly over, apricots progress. Prospects pears, prunes, apples, clingstone peaches, good. Above normal walnut crop. Picking Valencia oranges, lemons, grapefruit, avocados. Broccoli movement Salinas moderate, Santa Maria good. Cauliflower harvest moderate Salinas. River-side cantaloupe picking active, El Centro declining, carrot digging ending Coachella, light picking other southern areas. Lettuce good volume Salinas, increasing Santa Maria. Onion harvest declining Stockton. Potato digging Kern, decreasing seasonally. Freezing temperatures 18th caused variable damage to Tulelake, Butte Valley potatoes; damage ranged from severe to light. Fresh market tomatoes nearly complete Imperial, light San Diego, Visalia full swing. Watermelon Imperial peaking, increasing Coachella. Range grasses provided good feed except few areas north. Fire hazard foothill ranges extreme. Fires did considerable damage Banning area. Cattle on high elevation ranges, permanent irrigated pastures. Water supplies surplus eastern high ranges, short few northern areas, generally adequate. Shearing nearing completion. Some problems from insects, pests on livestock. Honey extraction continues, supplies good. Extreme heat reduced production milk, eggs.

**COLORADO:** Unseasonably low temperatures and strong winds early week. Record low Denver 20th 39°. On 18th Extremes: 96° Trinidad; 18°, Leadville. Precipitation sparse, averaging less than 0.05 in. Sorghum and dry bean planting virtually complete. Most field crops good to excellent. Wheat harvest should begin early July. Cool temperatures and strong winds local areas caused moderate damage to sugar beets, corn, dry beans and some wheat. Surface soil moisture short to very short most areas eastern plains. Light insect infestation alfalfa. Winter wheat 94%

headed, 22% turning color. Winter barley 85% headed, 26% turning color. Corn virtually all emerged. Sorghum 90% seeded, 85% emerged. Sugar beets 63% thinned. Dry beans 92% seeded, 50% emerged. Potatoes good to excellent. Alfalfa excellent, first cutting 64% complete. Lettuce harvest underway Arkansas Valley. Ranges and pastures very good.

FLORIDA: Summer conditions, hot, humid, with mainly afternoon and evening thundershowers all areas through Friday. Highs reached low 90's all places. Showers diminished Panhandle Saturday and Sunday. Widespread showers over peninsula Saturday diminished Sunday. Rains varied widely, mostly from 0.50 in to over 5.00 in. Corn development variable, started to tassel northwest. Dry areas poor stands, otherwise corn excellent condition. Soybean planting continues, early soybeans blooming. Shade tobacco about 50% harvested, flue-cured about 20% harvested. Frequent showers affecting spray programs and leaching fertilizer. Pastures and livestock improved. Citrus excellent. New crop and trees growing well. Rains providing ample moisture most areas. Valencia harvest remains active, grapefruit nearly ended. Vegetable loadings mostly watermelon, sweet corn. Watermelon harvest mainly north, light, increasing west. Sweet corn from Zellwood decreasing. Celery, peppers declining with end season near. Eggplant supplies falling off.

GEORGIA: Showers and thundershowers quite numerous. Heaviest amounts south where 5 stations reported more than 3.00 in. Temperatures near normal. Soil moisture adequate to mostly excessive. Frequent rains hurting crops. One county requested disaster designation due to severe crop drowning. Peanuts fair to mostly good, normal cultivation and controls delayed. Corn fair to mostly good, considerable drowning several counties. Cotton fair to good, 38% squaring, normal 70%; 8% setting bolls normal 30%. Tobacco fair, considerable flopping from too much water. Soybeans 81%, sorghum 69% planted. Small grains 75% harvested, normal 90%. Hay crops good growth but harvest very risky due to rains. Truck crops mostly fair, rains detrimental. Watermelon movement still very light. Peach harvest 46% complete, normal 35%. Cattle and pastures good.

HAWAII: Warm and dry. Showers light, benefited crop growth and maturity. No shortage irrigation water. Sugarcane, pineapple harvests active. Supplies watermelons heavy--other crops adequate. Lowland pastures need more rain. Cattle fair to good.

IDAHO: Dry week. Precipitation generally below normal. Temperatures very cold beginning of period followed by extremely high temperatures late week. Frosts early week moderately damaged crops. Major effect: Further set back; season already delayed by cool, wet spring. Moderate damage scattered potato fields, some areas may be delayed 2 weeks. In southcentral field beans suffered most, some re-planting necessary. In southwest limited frost damage sweet and field corn. Scattered wheat fields north in bloom stage suffered some damage. Ranges improved by rains though grass headed short. Above normal temperatures late week with subnormal rainfall caused dry conditions north dryland areas. Winter wheat fields slowed by cold weather with 60% headed, 20% turning. Spring wheat, boot and heading stage, some turning. Barley more advanced

15% fields turning statewide. Sugar beet blocking and thinning 85% complete. First cutting alfalfa continues active, 50% harvested. Cherry harvest full swing.

ILLINOIS: Wet cool. Heavy thunderstorms early, 3.00 to 5.00 in rain southwest, lighter amounts north. Temperatures 2° to 4° subnormal. Rains slowed activities. Corn planting virtually complete except extreme south. All corn fields average 16 in tall, 26 in normal; most advanced fields average 28 in, normal 42 in. Corn 7% excellent, 66% good, 24% fair, 3% poor. Soybean planting 85% complete, nearly complete last year and 1970-72 average. Soybeans 80% full stand; 5% excellent, 55% good, 35% fair, 5% poor. Wheat fair to good; nearly 100% turned yellow, about average; about 50% ripe, 72% last year, average 62%. Combining starting south with 5% harvested, last year 33%, average 21%. Oats fair to good; about 85% headed, 90% last year, average 96%; filling 45% complete, 65% last year, average 71%. Nearly 15% oats turning yellow, average this date. Sorghum planting about 55% complete. Alfalfa hay, red clover hay good to excellent. About 75% alfalfa first crop, 65% red clover cut, below average. Pastures good to excellent. Soil moisture 35% adequate, 65% surplus. Average 2.5 days suitable fieldwork. Main activities planting soybeans, cultivating, applying chemicals, baling hay.

INDIANA: Driest week for some time. Extremes: 51°, Wanatah; 92°, Evansville. Some showers early week. Drying rates high. Four days suitable for fieldwork. Topsoil moisture mostly adequate to surplus. Subsoil moisture mostly adequate. Corn 95% planted, 1972 and average virtually complete. Average corn height 12 in, stands good. Soybeans 80% planted, 95% 1972, 1 week behind average. Soybeans 5 in high, same as 1972 and average. Wheat 20% ripe. Oats 50% headed. Alfalfa hay 70% cut first time. Pastures good.

IOWA: Cool week with mostly subnormal rainfall. Locally heavy showers with scattered hail and some damaging winds early and late week. Soybean planting virtually complete, about 10 days behind normal. Farmers busy cultivating corn, soybeans and making hay with nearly 5 days suitable for fieldwork. Local hail and wind damage to oats, corn, and soybeans. Corn 22% fair, 68% good, and 10% excellent; stand 92% of normal. Soybeans 25% fair, 65% good, and 10% excellent. Over 80% soybeans emerged, stand 90% of normal. Weed control mostly good to fair in row crop fields. Oats 80% headed, same as year ago; condition 18% excellent, 60% good, 17% fair, and 5% poor. First cutting alfalfa hay 75% complete, last year 80%, 5-year average 71%. First cutting clover hay 40% complete. Hay crops and pastures mostly good to excellent. Topsoil moisture 18% surplus, 80% adequate, 2% short.

KANSAS: Temperatures subnormal early week to above normal through weekend, average 2° to 4° subnormal. High, 106° Salina. Rainfall largely insignificant except extreme east. Forty-five of 94 counties had no measurable precipitation. Wheat harvest active southcentral and portions southeast, cutting beginning central and southwest. Hot, dry weather pushing crop to maturity with few reports of shriveling kernels. About 7% wheat harvested, 21% last year, average 31%; about 26% ripe stage, 56% last year, average 58%. Planting sorghum, soybeans active, although

surface moisture shortages delaying planting some areas. Dry topsoil resulted in slow emergence, poor stands some fields. Sorghum 82% planted, 87% last year, 84% average; greenbug infestation some areas, damage light to moderate. Virtually all corn planted and about 33% laid by. Soybean planting 81% complete, 82% 1972 and average. Second cutting alfalfa 19% complete, 22% 1972, average 24%. Native pastures providing good grazing pastures turning brown. Cattle good and gaining well.

**KENTUCKY:** Temperatures around 90° early week, fell to low 80's by midweek, then low's 90's by weekend. Thundershowers midweek with up to 1.75 in rain. No appreciable rain remainder of week until isolated thundershowers west late Sunday. Farmers averaged 4 days fieldwork. Soil moisture mostly adequate to surplus. Corn average height 14 in, 22 in last year, 31 in average; 38% "laid by" compared with 63% a year ago. Soybeans 67% planted, average height 5 in, 7 in last year. Tobacco 60% still less than 6 in high, about 20% acreage requiring some resetting. Winter wheat harvest 19% complete, 36% last year, 40% 5-year average. Pasture condition above average.

**LOUISIANA:** Settled summer weather prevailed. Temperatures normal to 2° above south and mostly 1° to 4° subnormal central and north. Scattered afternoon thundershowers daily first half of week, decreased over weekend. Rain totals less than 1.00 in most areas. Temperature extremes: 97°, Monroe; 62° Dequincy. Cultivation active most areas. Fieldwork possible 5 days. Soil moisture adequate most areas. Soybeans 80% planted with mostly good stands, some replanting. Cotton making good growth, fruiting started. Sugarcane growth good, borer control begun. Sweet potatoes virtually all transplanted, excellent growth. Oat and wheat harvest 80% to 85% complete. Haying active. Pastures average. Livestock good.

**MARYLAND AND DELAWARE:** Warm, humid, showery. Temperatures near normal to 4° above with days cooler and nights warmer under cloud cover. Extremes: Highs near 80° west and north and upper 80's elsewhere; lows mid-50's west and north elsewhere near 60°. Wet week, some rain measured most days, amounts 0.75 in northcentral, 1.50 to 2.50 in elsewhere except several amounts over 3.00 in mid-Eastern Shore with heaviest 5.19 in Chestertown. Rains hamper fieldwork but relieve developing soil moisture shortage. Early corn waist high south, planting continues north. Soybean seeding 84% done, last year 61%, average 85%. Tobacco setting about normal, 10% remaining. Haying still lagging north. Vegetable harvest advanced. Early peaches about ready south.

**MICHIGAN:** Cold front. Showers or thundershowers nearly daily mainly upper and north lower state. Temperatures near normal. Rainfall totaled under 0.10 in east upper, near 0.50 in west upper, under 0.10 in north and central lower to about 0.50 in with some spotty amounts south lower. Rapid progress fieldwork. Good growth of field crops and vegetables. Topsoils dry, but soil moisture adequate for growing crops. Averaged 5.5 days suitable for fieldwork. Corn 93% planted, height 8 in. Some intended corn acreage will not be planted. Soybeans 85% planted, normal 95%. Dry beans 75% planted, normal 82%. Some farmers waiting for rain before finishing dry

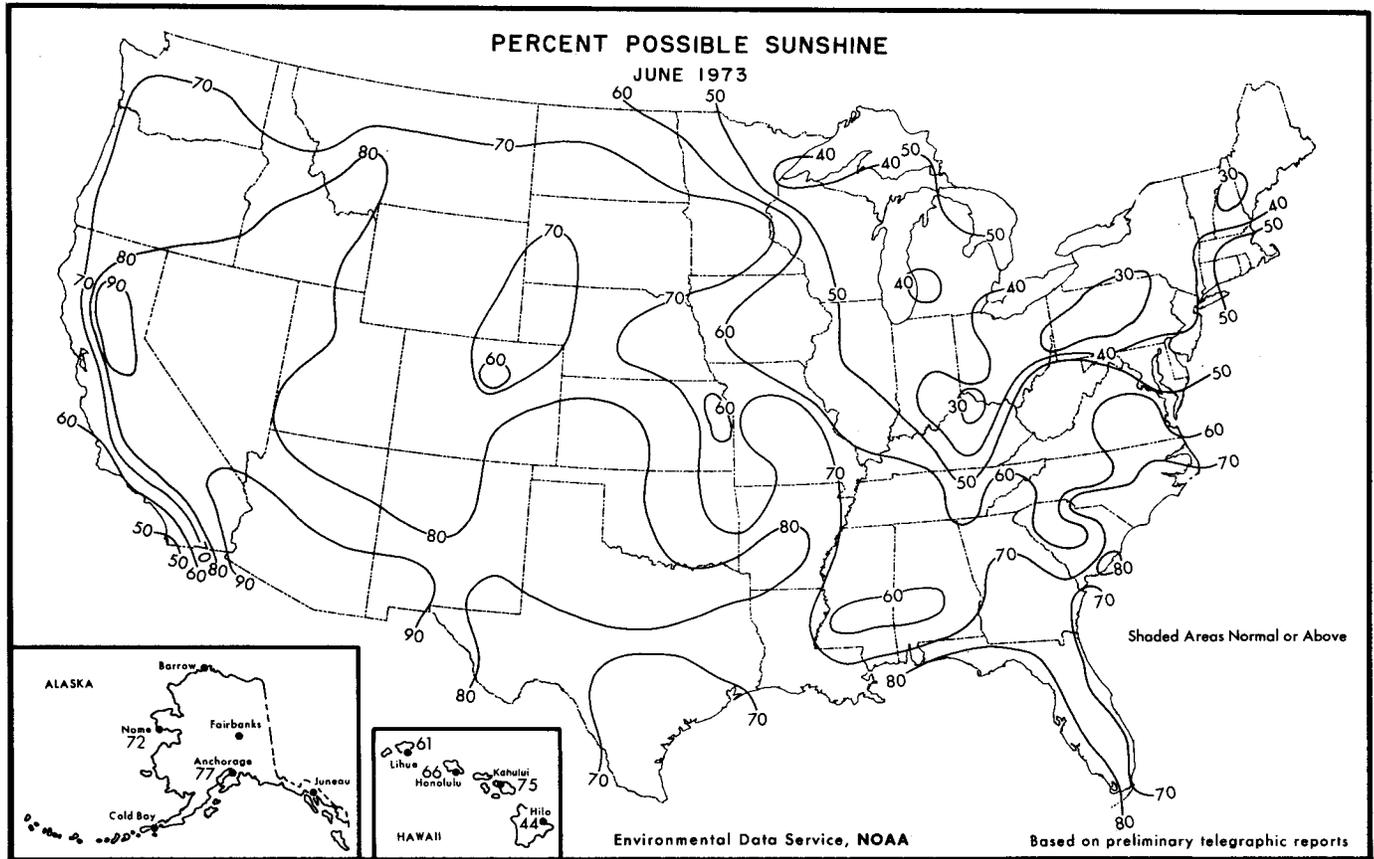
bean planting. Recently planted corn and soybeans need rain to aid germination. Wheat 97% headed, oats 12% headed. About 30% first cutting hay made. Pasture feed supplies above average. Sweet cherries ripening and tarts turning color south-west. Strawberry harvest peaked southwest.

**MINNESOTA:** Temperatures 5° subnormal westcentral and southwest, 2° to 3° subnormal elsewhere. Precipitation 0.50 in above normal northwest and northcentral, elsewhere ranged from 0.50 in below to 0.25 in above normal. Favorable crop growing week. Small grains advanced rapidly, heading out. First crop alfalfa yield reduced but quality good. Small grain, potatoes, field corn, soybeans good, sugar beets and flax fair to good. Moisture generally adequate except short some westcentral counties. Showers held up haying many areas. First time corn cultivation 91%, 5-year average 79%; second time 40%, normal 26%. Corn 17 in high, normal 14 in. Soybeans 7 in high, normal 6 in. Alfalfa cut 72%, normal 67%. Flax blooming 26%, normal 6%. Rye heading 95%, normal 92%. Rye ripening 9%, normal 5%. Winter wheat heading 91%, normal 77%. Spring wheat heading 59%, normal 21%. Oats heading 57%, normal 31%. Barley heading 62%, normal 25%

**MISSISSIPPI:** Heavy rain in isolated areas. No weekend precipitation. Temperatures near normal with high of 98° on 19th and low of 59° on 22nd. Soil moisture mostly adequate. Average of 4.9 days suitable for fieldwork. Cotton condition fair to good, 14% of acreage squaring, 50% last year. Soybean acreage 79% planted, last year 90%, normally about 87%, condition mostly good. Wheat 87% and oats 88% harvested. Corn 96% planted, 97% last year. Planting of sorghum, sweet potatoes and peanuts progressing favorably. Corn, sorghum, hay crops, truck crops, rice, sweet potatoes and peaches fair to good. Pastures and livestock good.

**MISSOURI:** Temperatures averaged from 2° to 4° subnormal. Rainfall in thunderstorms general but varied greatly from less than 0.25 in portions extreme west to 2.00 in or more at a number of stations northeast quarter. Intense thunderstorm activity caused high winds and local damage some areas. Four days suitable for fieldwork. Soybeans 73% seeded, finished last year. Grain sorghum 76% planted complete in 1972. First cutting alfalfa 88% harvested, complete year ago. Second cutting alfalfa 8% harvested, 26% last year. Clover-timothy hay 43% harvested, 57% in 1972. Wheat 50% ripe, 17% harvested, last year 44% harvested. Cotton fair. Corn fair to good. Soil moisture 1% short, 75% adequate, 24% surplus.

**MONTANA:** Cool and wet first part of week, warm and dry last half. Temperatures 5° subnormal to 3° above normal. First part of week low temperatures in 30's and 40's with scattered freezing temperatures west and southwest warming to 50's late week. Below normal precipitation except northeast and southeast. Topsoil moisture short central, adequate to surplus eastern third, short to adequate elsewhere. Winter wheat poor to good northwest and northcentral, good to excellent eastern third, fair to good elsewhere with 45% headed and 45% in boot. Spring grains generally fair to good, except eastern third good to excellent and portions southwest poor. Sugar beets doing well, thinning 75% complete. First cutting alfalfa 10% complete, wild hay harvest just starting. Alfalfa weevil damage light except portions southcentral and southeast. Hay and range grass rate of growth generally slower than



average western third, central and southcentral; average or better elsewhere. Stockwater supply adequate southcentral and southeast, short to adequate elsewhere.

**NEBRASKA:** Temperatures 3° to 16° subnormal through Thursday and 7° to 19° above normal by end of period. Precipitation limited except northeast. About 85% of wheat was turned, 70% last year, 73% normal, Wheat 18% excellent, 77% good, 5% fair. Limited harvesting may start this week. Corn 20% excellent, 73% good, 7% fair; insect damage light. Sorghum mostly good to excellent. Soybean mostly good to excellent. Alfalfa 45% excellent, 45% good, 10% fair; 92% first cutting complete. Wild hay mostly good to excellent. Dry bean crop damage may cause some reseeding. Some sugar beet acres lost due to adverse weather, thinning nearly completed, weeding underway. Topsoil moisture 62% short, 38% adequate. Subsoil moisture adequate. Main farm activities: Cutting alfalfa, cultivating row crops, applying fertilizer and spraying for weeds. Pasture and range condition still average to above. Hot weather put stress on cattle.

**NEVADA:** Temperatures normal except southcentral 3° above. Extremes: 108°. Las Vegas, 21°, McDermitt. Only precipitation trace at Reno and Lovelock. Alfalfa harvest in progress throughout most of north. Small grains good west with much acreage starting to head. Corn knee high but stand spotty. Cattle and sheep remain good with movement to summer ranges nearing completion.

**NEW ENGLAND:** Temperatures 1° to 2° above normal Maine and New Hampshire, near or 1° to 2° below Vermont and South. Cool beginning to warm,

humid by end. Thunderstorms end week, average 0.25 to 0.75 in locally heavier to 2.00 plus in. Much hay baled and chopped until Thursday showers. Many Vermont corn, hay pastures flooded, far behind in planting. Corn, potatoes, vegetables, fruit, pastures growing well. Strawberries peak south, approaching peak north. Cranberries irrigated. Planting grain, spraying potatoes Aroostook Co., Me.

**NEW JERSEY:** Temperatures averaged from 5° subnormal to near normal. Range from mid-50's Tuesday morn to mid-80's Thursday afternoon. Precipitation mostly thunderstorm activity, heaviest Thursday and Friday. Heaviest 24-hour total 2.70 in Atlantic City. Soil moisture extremely varied. Some local flooding. Lettuce harvest declining. Cabbage movement good. Limited volumes sweet corn started under plastic and snapbeans moving. Sunny weather would benefit crop development. Blueberry harvest increasing. Very light strawberry supplies moving from north. Showers and damp cloudy weather interrupted hay making and barley combining. Field corn planting about complete. Some soybeans going in after barley harvest.

**NEW MEXICO:** Token rainfall, humidities very low. Temperatures unseasonably cool, 4° to 9° subnormal. Still some subfreezing nighttime readings mountains and high valley. Chama 25° Tuesday morn. Open weather prevailed. Topsoil, subsoil moisture declining but supplies still adequate. Alfalfa hay second cutting 50% complete. Wheat harvest commenced, progress slow. Sorghum grain planting virtually complete. Lettuce harvest moving along Los Lunas-Albuquerque area. Onion harvest full swing Mesilla Valley. Cotton fair

to good, cool nights retarding growth. Cattle and calves good, mostly in mountain pastures now. Ranges drying up, still mostly good.

**NEW YORK:** Cool Monday; warm, humid rest week. Considerable cloudiness kept temperatures somewhat subnormal over coastal southeast and across eastern southern tier. Several stations north had lows in mid-40's Monday morn. Showers and locally heavy thunderstorms Thursday and Friday. Spotty showers during week. Rainfall surpluses of 0.50 in or more common along Mohawk Valley. Elsewhere, amounts varied widely. Corn well over 80% planted, planting continues few areas. Oats mostly good. Pastures good, continue to grow. First cutting hay harvest full swing, wet weather hindering harvest. Alfalfa about 40% and clover timothy 20% harvested. Grass silage harvest well along, about 50% cut. Dry beans 80% planted, progress varies. Emerged beans good. Light harvest some vegetables underway. General harvest strawberries active Upstate. First Iceberg lettuce cut Oswego County June 20 and Orange County June 19. Eden Valley harvest of cabbage, cauliflower and Iceberg lettuce began. Onions generally growing well. Fresh market sweet corn planting near wind up. Snap beans about 50% planted. Apples sizing as June drop continues, scab a problem many orchards. Tart and sweet cherries continue to drop. Concord grapes reached full bloom Finger Lakes area and later areas in Chautauqua-Erie region. Sweet cherries harvest for fresh market begun Hudson Valley.

**NORTH CAROLINA:** Ample rainfall with some locally heavy amounts. Temperatures climbed into 90's east of mountains. Cold front moved in Monday and Tuesday. Rains enhanced soil moisture supplies, all areas adequate to surplus. Only 2.5 days fieldwork. Small grain harvesting held up by rains. Wheat and rye 40% cut, oats and barley 50%. Corn improved, 18% excellent, 74% good, 7% fair and 1% poor. Some replanting mountains. Corn 13% silking. Tobacco prospects bright. Soybeans 85% seeded, 88% good to excellent, 12% fair. Irish potato digging active, prices good. Sweet potatoes 90% planted. Cucumber and pepper harvest gaining momentum.

**NORTH DAKOTA:** General rains fell early week. Rainfall especially welcome in very dry north-east. Dry weather late week and through weekend. Temperatures subnormal almost daily but moderated weekend. Warmest 95° Cooperstown, coolest 36° Waterford City. Temperatures subnormal southeast quarter and about 5° subnormal elsewhere. Showers early week brought temporary relief to dry area. Crops in some areas still suffer from moisture shortage. Small grain development ahead of normal and advancing rapidly. About 33% hard spring wheat headed. Pastures and alfalfa growth slow. Cutting first crop alfalfa well underway. More rain needed to maintain crop and pasture development.

**OHIO:** Warm, humid early week. Cooler, drier air brought temperatures to near normal latter part. Southerly winds brought warming trend back over weekend. Extremes: 51°, Toledo; 92°, Dayton. Locally heavy rains accompanied thunderstorms on 19th over central and south. Unofficial but reliable reports of over 5.00 in rainfall central 19th. All reporting stations had measurable rainfall, averaged 0.75 in, central and south 2.00 to 3.00 in. Farmers need

more sunshine, less moisture. Over 4 days favorable for fieldwork week. First time this season 2 consecutive weeks over 4 days favorable. Soil moisture 56% surplus, 44% adequate. Corn planting virtually complete, 2 weeks behind normal; average height 11 in, 13 in 1972. Soybeans 80% planted, 95% normal, average height 4 in, same as last year. Tobacco 80% transplanted. Hay cutting 10 days slower than normal. Some cut hay spoiling in field, excess moisture. Winter wheat 60% turned, 65% 1972. Oats 45% headed, normal 75%. Other farm activities: Haymaking, spraying fruit trees, cultivating vegetable crop.

**OKLAHOMA:** Temperatures 2° to 4° subnormal. Precipitation ranged from a trace panhandle to 2.10 in eastcentral. Weekend very warm and dry. Wheat harvest near complete southwest and getting underway panhandle. Wheat 56% harvested, 90% year ago, average 75%. Weekend weather favorable for cutting, combine shortages developing. Barley harvest 75% complete and over 50% oats for grain cut. Corn and sorghum lost some condition from dry topsoils west. Cotton seeding near complete at 91%, mostly good stands after replantings. Soybeans plantings continue to drag. Second cutting alfalfa yields improved with 60% acreage put up.

**OREGON:** Cool start of week, very warm close. Average temperatures for week mostly above normal. All areas except coast reached into 90's with number locations recorded maximum above 100°. Frost widespread east of Cascades start of period. Rain fell over northwest corner over weekend. Rain on 16th, 17th reduced strawberry yields, split some cherries Willamette Valley area. Raspberry harvest underway. Cherry harvest active all areas except Union Co. Shortage berry, cherry pickers. Increase in mechanical raspberry harvest. Cranberries mid-bloom or past. Hot weather spurred vegetable development. Fall barley harvest starting Columbia Basin. Grains maturing rapidly. Green pea harvest continues, yields improving some, Willamette Valley crop good. Early potato harvest nears. Frost damaged potatoes Baker, Malheur, Klamath, Central Counties. Seed growers swathing crimson clover, gulf, bluegrass, fine and hard fescues, some orchardgrasses. Hay harvest continues various states of first cutting to start second cutting. Livestock good. Ranges holding, very dry. Hay supplies short.

**PENNSYLVANIA:** Cloudy and unsettled weather prevailed. Gradual warming trend weekend brought many widely scattered late afternoon thunder-showers. Mt. Holly Springs, Cumberland Co. reported 3.50 in a short time Thursday evening, while Reading had 2.17 in, almost no rain southwest corner. High daytime temperatures 60's to mid-80's, overnight lows 60's to 70's east, 50's to 60's west. Bradford had a chilly 41° early Sunday morning. Weekly averages: temperature 69°, rainfall and 0.79 in. Unfavorable week for fieldwork. Corn 93% planted. Tobacco 85% transplanted. Potato planting nearing completion. Hay making unfavorable. Strawberry harvest continues.

**PUERTO RICO:** Generally dry and hot. Rainfall averaged 0.74 in or 0.56 in subnormal. Greatest weekly total 3.38 in north coast. Temperatures averaged 80° on coast and 75° interior. Extremes: 100°, 52°. Weather favored sugarcane plantations but some areas need more rain. Coffee

beans ripening favorably due dry weather most of week. Tobacco plantations very little activity. Pastures recovering satisfactorily due recent rains. Favorable weather planting and cultivation minor crops. Abundance of plantains west interior. Planting of pidgeon peas and pumpkins interior.

**SOUTH CAROLINA:** Numerous showers most of week, little temperature change. Heaviest rainfall central and south, considerable local flooding. Continued heavy rain delayed all activities. Threat of serious weed, insect problem. Tobacco fair to good, some acreage disked Sumter Clarendon Counties, other areas good; 17% topped, 4% harvested, same last year. Cotton and small grains fair. Corn good. Soybean stands good, 76% planted, 82% last year. Sorghum 70% planted, 75% last year. Wheat 43% harvested, 66% last year. Oats 50% harvested, 76% last year. Rye 53%, barley 50% harvested. Grain hays and grapes fair to good. Pastures good. Sweet potatoes 85% transplanted, 86% last year. Peaches fair to good, 17% harvested, same last year. Vegetable crops very bad Charleston area; low lying areas Beaufort damaged, salvaging underway.

**SOUTH DAKOTA:** Mild weather midweek contributed to low weekly averages from 1° to 5° subnormal. Most low temperatures in 40's midweek. Freezing or below in Black Hills. Thunderstorms varied, a few locations received weekly average. Precipitation running below normal for season, about 4.00 in below northeast. Fall grain development near normal. All winter wheat and rye headed. Winter wheat turning 20%, normal 16%, last year 14%. Rye at 26% turning is 4 points subnormal. Spring grains ahead of normal with over 50% headed. First cultivation of corn 94% complete, normal 85%, last year 69%. Second cultivation 28% complete, normal 18%, last year 17%. Alfalfa and wild hay harvest ahead of normal and 1972. Livestock good.

**TENNESSEE:** Rainfall ranged from little or none extreme southwest to near 3.00 over Cumberland Plateau. Temperatures near normal. Extremes from 58° to 97°. Wheat 80% ripe, half of this harvested. Nearly 90% barley ripe, 67% of this cut. Oats 70% ripe, 35% harvested. Soybeans less than 70% planted, normal 90%. Cotton 20% squared. Few fields of corn still being planted for forage or silage. Practically no corn has silked. Less than surplus soil moisture conditions for first time this year.

**TEXAS:** Subnormal temperatures. Showers and thunderstorms lingered over southcentral through weekend. Agua Nueva had 9.19 in. Besides soaking fields, rains produced overflow along several streams. Above normal rainfall over northcentral and east Texas. On high plains and west of the Pecos River, showers spotty and rainfall generally subnormal. High plains and country west of the Pecos coolest as temperatures averaged 5° to 8° subnormal. Harvest of wheat, oats good progress high and low plains, rains stopped harvest elsewhere. Yields satisfactory, excellent test weights. Planting cotton, sorghum nearing completion low plains. Cotton fruiting heavily southern half. Bollworm, boll weevil infestations increasing. Soybean planting east delayed by rain. Major crops percent harvested: wheat 41, 1972 72; oats 78, 1972 99. Major crops percent planted; cotton 99, 1972 99; sorghum 96, 1972 97; peanuts 76, 1972 72; soybeans

86, 1972 94; rice 99, 1972, 100. **Lower Rio Grande Valley:** Rain delayed tomato, okra, squash and Sweet Corn harvest. **Winter Garden-San Antonio:** Cantaloupe, cucumber, cabbage harvest underway. Some onions available. **East and Central:** Rains delayed sweetpotato plantings, caused some crop damage. **Knox-Haskell:** Potato harvest well underway. **Trans-Pecos:** Onion harvest active. Cantaloupe harvest continues. **High Plains:** Cabbage, carrots, cucumbers, onion, tomatoes, peppers and potatoes developing well.

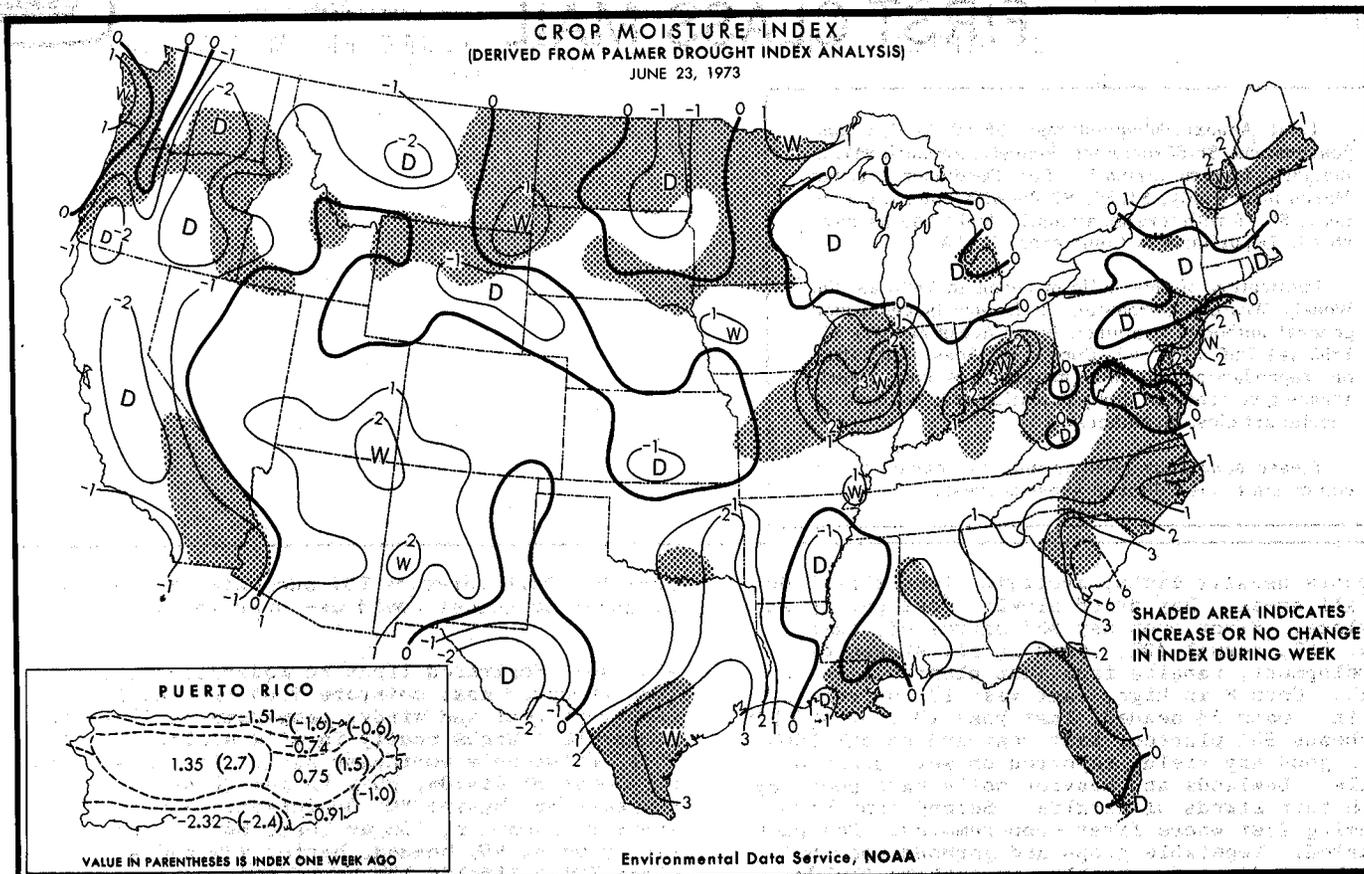
**UTAH:** No precipitation reported. Rising trend in temperatures but averages generally well below normal. Considerable frost damage to tender vegetable crops, field corn, and grain crops in scattered areas 18th and 19th. Corn and potatoes set back considerably. Amount of damage to grains uncertain. Otherwise crop progress good. Ideal haying weather with first crop alfalfa about 60% harvested. Spring wheat 60% headed, oats 35% and barley 60%. Livestock very good, feed on ranges mostly good.

**VIRGINIA:** Beginning warm with cooling midweek. Numerous localized showers and thunderstorms, some with hail and strong winds. Temperatures about normal, extremes 97°, 51°. Precipitation averaged 1.25 in statewide. Soil moisture increased, 67% adequate, 20% short, 13% surplus. Averaged 4.3 days fieldwork. Crops made good growth with warm weather and adequate moisture. Haying leading activity west of mountains, in north and upper Piedmont. Barley 50% harvested, oats 33% and wheat 15%. Sprayed corn to control armyworms and weeds, cultivating active, silking began in earlier fields in Tidewater. Planted soybeans after small grain. Tobacco cultivated. Pasture grasses growth improved. Livestock made good gains.

**WASHINGTON:** Temperatures 1° to 6° above normal. Precipitation early in week, above normal most areas. Pea harvest started some areas, excellent quality. Silage corn, sweet corn, squash beginning to respond favorably. Strawberry harvest 50% complete. Limited raspberry harvest started. Rain inhibited haying activity. East temperatures generally above normal. Precipitation early in week, heaviest in Palouse-Blue Mtn., area. Cherry harvest, apple thinning continue. Green pea harvest in progress, good quality. Asparagus harvest mostly completed. Haying active, yields low. Winter wheat mostly headed, some winter barley harvested. Grains continue under moisture stress most areas. Grass seed swathing underway.

**WEST VIRGINIA:** Temperatures slightly above normal. Highs 80's and low 90's; lows 50's and 60's. Precipitation throughout week. Heavy early morning rain on June 21 caused flooding Kanawha Co. Weekend warm and sunny. Another good week for fieldwork, 4.2 days favorable. Hay harvest very active, some rain damage, but quality generally good; tonnage better than expected. Soil moisture mostly adequate, scattered reports of short and surplus. Small grains continue fair to good. Barley harvest beginning. Tobacco setting about 90% complete. Pasture still good to excellent.

**WISCONSIN:** Temperatures 2° subnormal. Day-time readings generally in 70's until reaching low 80's Sunday. Several showers and a few thunderstorms although precipitation



**SHADED AREAS:** Index increased or did not change last week

Index

- Above 3.0 Excessively wet, some fields flooded
- 2.0 to 3.0 Too wet, some standing water
- 1.0 to 2.0 Prospects good, some fields too wet
- 0 to 1.0 Moisture adequate for present normal needs
- 0 to -1.0 Prospects improved, but rain still needed
- 1.0 to -2.0 Some improvement, but still too dry
- 2.0 to -3.0 Drought eased, but still serious
- 3.0 to -4.0 Drought continues, rain urgently needed
- Below -4.0 Not enough rain, still extremely dry

**UNSHADED AREAS:** Index decreased last week

Index

- Above 3.0 Some drying, but still excessively wet
- 2.0 to 3.0 More drying weather needed, work delayed
- 1.0 to 2.0 Favorable, except still too wet in spots
- 0 to 1.0 Normal growth and fieldwork
- 0 to -1.0 Topsoil moisture short, germination slow
- 1.0 to -2.0 Abnormally dry, prospects deteriorating
- 2.0 to -3.0 Too dry, yield prospects reduced
- 3.0 to -4.0 Potential yields severely cut by drought
- Below -4.0 Extremely dry, most crops near ruin

The map gives a general picture of how wet or dry the Nation was last week. It shows areas where abnormal wetness or dryness have hindered crops and areas where moisture conditions have favored them.

The lines show the crop-moisture situation according to an index computed from values of temperature and precipitation by areas...350 climatological divisions, which correspond roughly to SRS's crop reporting districts. Previous weekly computations of soil moisture account for the effects of prior weather.

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

The centers of wet or dry areas are marked: W-wet; D-dry. The map lines mark off crop situations. Use the legend to interpret.

Local variations caused by isolated rain or by soil differences are not shown. While shallow rooted crops in poor soils may suffer more than the map shows, conditions may be better where soils are good. Also, legends apply to growing rather than mature plants. Any map interpretation must consider both the growth stage and moisture status and trend. In irrigated regions, the index values reflect only departures from ordinary irrigation requirements.



# FIRST CLASS MAIL

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amounts usually light, averaging less than 1.00 in all areas. Hay dried slowly, most put up as haylage. First crop hay 35% harvested, last year 55%, normal 40%. Corn in all stages of development, ranging from just planted to knee high. Corn 8 in high, last year 12 in, normal 10 in. Oats 5% headed, last year 10%, normal 25%. Soybeans 95% planted, last year and normal 100%. Some good hay yields reported on well drained soils. Lowlands and heavier soils have poor hay with thin stands of alfalfa. Second crop hay growing fast where first crop removed. Pea pack started. Vegetable crops and gardens good but black rot disease a problem in cabbage fields. Outlook for cherry crop dim, about half of

normal. Soil moisture 75% adequate, 25% surplus although northwest could use some rain.

WYOMING: Scattered light to moderate showers. Alva reported most moisture 2.04 in. Early week very cool and windy, temperatures 3° to 12° subnormal. Highs mostly in 80's southwest half, 80's to low 90's northeast half. Lows mostly in 20's west of divide, 30's to low 40's east. Extremes 92° Basin; 20° Bondurant. Soil moisture short to adequate. Sugar beets 80% thinned. Winter wheat 85% headed, barley 20% and spring wheat 75%. Alfalfa 15% harvested, other hay harvest just starting.

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