

Weekly Weather & Crop Bulletin

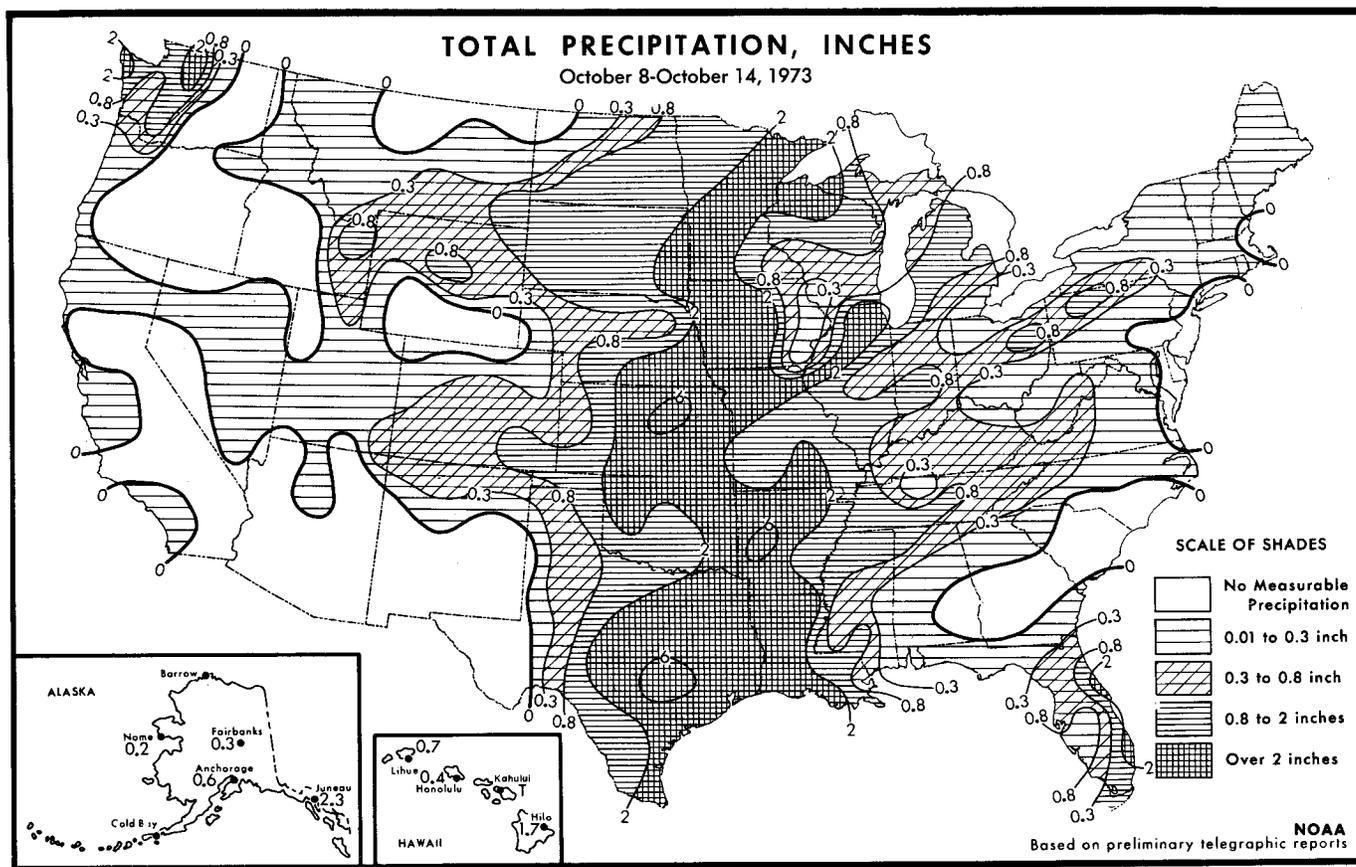
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: A cold front moved out of the northern Rockies early in the week and brought snow and freezing temperatures west of the Continental Divide. Meeting some warm, damp Gulf air in the western Corn Belt, it touched off torrential rains and devastating hail from east Texas to the Great Lakes. The front, moving slowly because it was blocked by a High in the Atlantic, passed over the Northeast during the weekend.

PRECIPITATION: A strip running through the Nation's midsection from Texas-Louisiana through Minnesota-Wisconsin was drenched with from 2.00 to 6.00 in. rain. Spots in Arkansas, Kansas, and Texas got over 6.00 in. Broad areas both to the east and west of this drenched strip got 0.80 to 2.00 in. rain and, to the west only, snow.

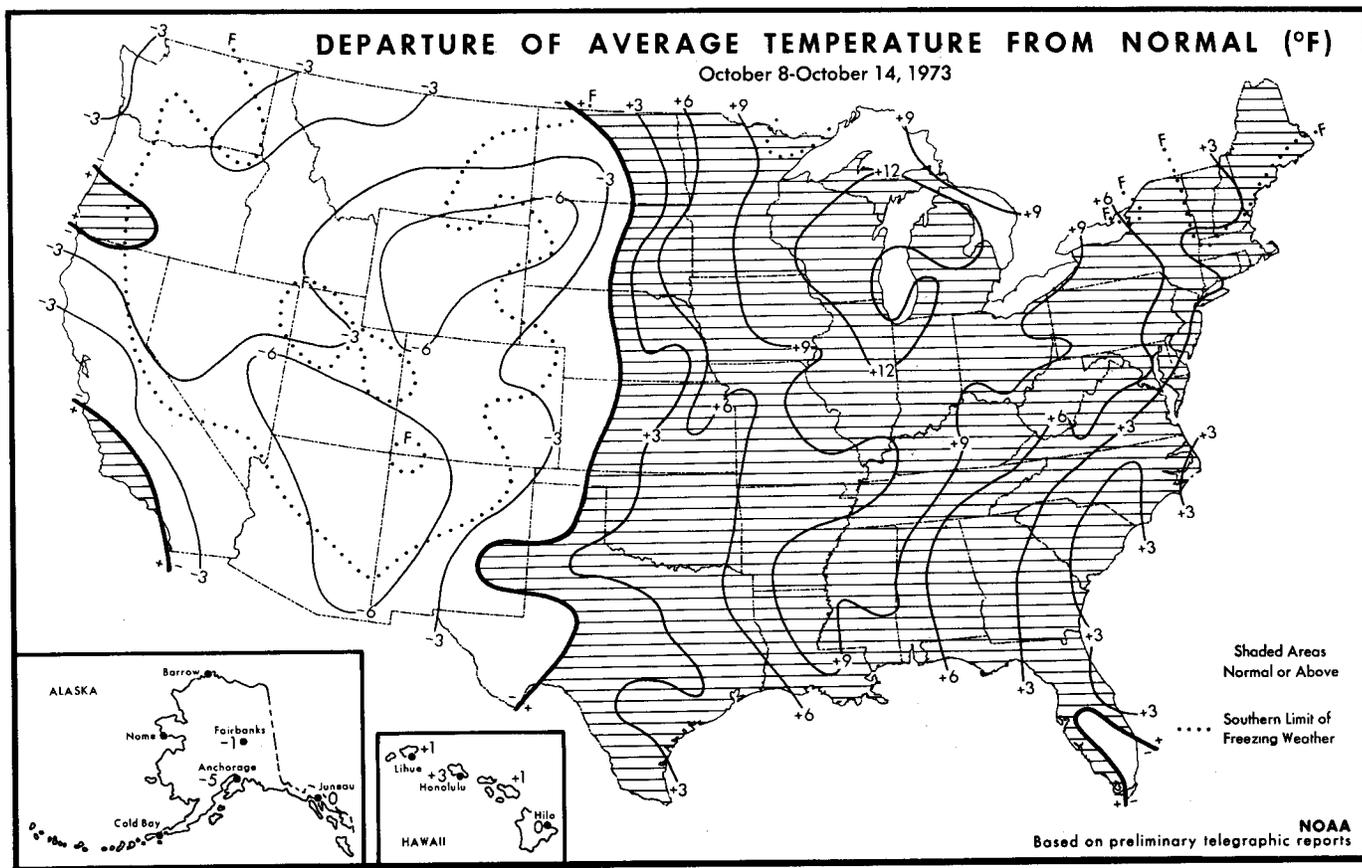
Most of the moisture fell when a cold front, moving slowly east from the Rockies, collided with warm damp air pushed north from the Gulf. The East

and West had mainly light rains--or none at all. Only northwest Washington and east Florida had 2.00 in. or more along the Nation's ocean fronts.

Monday morning snow spread from the mountains of east Nevada and Utah into Wyoming and Colorado Rockies. Roads iced across southern Montana; 2 in. of snow decorated the entrance to Yellowstone Park. By the end of Monday, West Yellowstone, Mont., had 5 in. of snow, Bozeman and Livingston both had 1 in. To the east, thunderstorms roamed from the Texas Panhandle to the Dakotas, fog and haze shrouded the mid-Mississippi Valley.

Tuesday the storm gathered force. Damaging winds gusted into Minden, Nebr., 1-in. hail and 4.50 in. of rain struck Sioux Falls, S. D., and 3-in. snow buried Lander and Casper, Wyo.

By Wednesday morning, 2.00 to 3.00 in. of rain drenched the Republican River Valley in Nebraska; Wilber, Nebr., had 3.80 in. overnight rain. By afternoon, thundershowers poured from the Texas



Panhandle to Wisconsin. Baseball-sized hail struck Andrews, Tex. The Missouri River at St. Joseph, Mo., leapt 2 ft. from its banks, after rising 6 ft. during the afternoon. Skidmore, Mo., had more than 3.00 in. rain on Wednesday. By 2 a.m. Thursday, Winfield, Kans., had had more than 8.00 in. rain since Wednesday morning; Effingham, Kans., had 5.00 in. during the same time.

To the west, snow fell. Akron, Colo., had 6 in., Sidney, Nebr., 5 in., and much of northwest Nebraska had 2 in. of snow. Flash flooding continued throughout Thursday. The Nemaha River at Falls City, Nebr., measured 2 miles wide in places. By nightfall, both Austin, Tex., and Kansas City, Mo., measured 5 in. rain in 24 hours, while Enid, Okla., measured 16.00 in. Thursday morning rain, 12.00 in. during 4 hours.

Late Thursday and Friday, the storm's force subsided, although bands of showers played over much of east Texas and the Corn Belt. Friday rainfall was generally light, but Quincy, Ill., reported 1.02 in. for the afternoon.

While the rains moved into the eastern Corn Belt for the weekend, they stayed in Texas. San Antonio got 2.50 in. rain Saturday morning. Meanwhile, the Missouri River crested near Kansas City, Mo., 9 ft. above its banks--its highest in more than two decades. Sunday, rain continued to soak Texas and other Gulf States, while the rest of the Nation enjoyed a mostly clear day.

TEMPERATURE: West of the Continental Divide, sub-normal temperatures held sway. Most of Wyoming

and parts of surrounding States and a large six-State area in the southwest averaged 6° below the norm. The East had temperatures ranging from about normal to 12° above--in a six-State area that wrapped itself around Lake Michigan. Most of the Corn Belt and parts of the Deep South averaged from 9° to 12° above the norm.

Butte, Mont., began the week at 17°, the lowest reading in the Nation, while to the south Monday's highest reading at Yellowstone National Park hit only 35°. To the east, warm, humid air invaded the Nation's midsection: La Crosse, Wisc., hit 80°, Garden City, Kans., 92°, Wink, Tex., was the Nation's hottest town, 93°.

Tuesday, a cold front, stretching from Minnesota to Baja, Calif., divided temperatures nationally: Missoula, Mont., began the day at 20°, while east of the front, Minneapolis, Minn., began with 70°, the date's warmest minimum on record. Early Wednesday, the front extended from Minnesota through the Texas Panhandle. To its east, temperatures remained in the 70's, to its west, they dropped into the 20's. It remained near freezing in the Colorado Rockies all day; east of the front--Green Bay, Wisc., hit 81°. The front moved slowly east: Thursday readings at 2 p.m. ranged from 32° at Sidney, Nebr., to 87° at Brownsville, Tex. Friday was also cool over much of the Plains, but afternoon readings hit 60's in the southern part. Over the weekend the front began to move east: Marquette, Mich., reached only 47° at 2 p.m. Saturday. By Sunday, it passed over the Northeast, prompting Easterners to break out their blankets for weekend sleeping.

NATIONAL AGRICULTURAL SUMMARY

AGRICULTURAL HIGHLIGHTS: Torrential rains stopped winter wheat planting in the Great Plains for the fifth straight week, continued to delay harvests of corn and soybeans in the western Corn Belt and also halted the Texas cotton harvest for the third week in a row. Corn and soybean harvesting in the Eastern Corn Belt made good progress.

SMALL GRAINS: Extremely heavy rains stopped winter wheat seeding in Nebraska, Kansas, Oklahoma, Iowa and Missouri for the fifth consecutive week. The torrential downpours ranging from 2.00 to 6.00 in. fell on saturated soil and washed out some recently seeded wheat fields. Fall planting is running about 2 weeks behind in the southwestern Corn Belt.

The wet soils and late season may keep Nebraska farmers from getting all of their intended wheat acreage planted. Winter wheat is 55% seeded in Kansas compared to 95% a year ago and normal progress of 90%. Seeding is 45% done in Iowa, 29% in Missouri, 75% in Oklahoma, 94% in Colorado, 90% in Montana and 80% in Texas.

Normal seeding progress is indicated for the eastern Corn Belt, the South, and most Western States. Recent rains helped soil moisture in the Northwest and seeding was very active in Idaho, Washington and Oregon. Good stands have emerged in these States.

CORN: Torrential rains drenched the western Corn Belt stopping corn harvest there. Good harvest progress was made east of the Mississippi under relatively dry and abnormally hot weather.

By October 14, about 18% of the Nation's corn crop was harvested and the Corn Belt crop was 13% harvested, behind the 15% of a year earlier and the normal average of 21% harvested. The corn harvest advanced to 17% complete in the eastern part of the Corn Belt, ahead of 1972 progress; but was only 10% done in the western part, behind 1972.

In top producing Iowa, corn harvesting halted by rain was only 9% complete versus 15% in 1972 and 18% normally done. And Iowa harvest completion is less than in other Corn Belt States except Nebraska and Wisconsin. The Ohio corn harvest stood at 25%, Indiana 20% and Illinois 15% complete. Corn in the Southern States was 52% harvested.

COTTON: Monsoon-like rains from central Texas and Oklahoma to the Mississippi River halted the Texas cotton harvest for the third straight week at 15% complete, far behind the 1972 progress of 31%.

The rains and high humidity also slowed harvest progress in Arkansas at 14% done versus 40% in 1972. Mississippi cotton is 16% gathered versus 40% in 1972 while Louisiana cotton is only 10% picked versus 33% in 1972. Southeastern farmers were favored by perfect harvesting weather and made excellent progress.

Cotton harvesting gained momentum in California and Arizona under mostly dry, open weather. Harvest began in Arizona's Graham and Cochise Counties.

SOYBEANS: The western Corn Belt soybean harvest fell further behind schedule from torrential rains

while eastern Corn Belt farmers made good progress. By October 14, the Nation's soybean crop was 18% harvested, behind the 29% progress of a year earlier. The Corn Belt soybean crop was only 23% harvested, less complete than last year's 37% and normal average progress of 49%.

Harvesting was 37% complete in the eastern Corn Belt compared to 36% a year ago while the western part was only 10% complete, far behind 1972 progress of 38%. Temperatures continued abnormally warm allowing additional acreage to mature but the dampness slowed drying and kept moisture in soybeans high.

In Illinois, the Nation's No. 1 soybean State, the crop was 35% harvested, behind normal progress of 65%. Iowa, the No. 2 State is very far behind at 6% harvested versus 49% normal progress. Harvesting in Southern States was about 8% done versus 13% in 1972.

OTHER CROPS: Hay baling remained active in east Texas while alfalfa harvesting continued in many Western States.

Sorghum grain harvesting in Kansas and Nebraska was stopped by heavy rainfall at only 10% harvested; continued abnormal wetness is causing sprouting in the head, fungus and discoloration in many fields. The Texas sorghum harvest remained on schedule at 63% done. Oklahoma sorghum is 23% harvested.

Peanut harvesting made rapid progress in the Southeast under ideal weather. Harvesting is nearing completion in Georgia and Alabama and is 80% complete in North Carolina and 59% complete in Virginia.

Sugar beet harvesting is active in California and Washington, but just started in Colorado and is 10% complete in Idaho where cooler weather would improve sugar content.

FRUITS AND NUTS: The active apple harvest made good progress under open weather. Some growers were nearly finished in Pennsylvania, New York and Michigan. Harvesting was slowing down in Washington.

Grape harvesting was nearly complete in New York and Michigan but remained active in California.

Almond harvesting neared completion in California, but walnuts continued active.

VEGETABLES: Harvesting fall vegetables continued on schedule in the Northeast under mild, dry weather.

Hot, humid weather in Florida hindered vegetable growth and cultural practices while rain hampered harvesting and planting activity in Texas.

Rain also curtailed some harvesting in parts of California for lettuce and celery.

PASTURES AND LIVESTOCK: Pastures continued to green and improve in the Northwest and the Dakotas where fall grazing is good. Recent rainfall and mild weather over the Central Region has spurred pasture growth. Most cattle in Kansas are still on native grass rather than wheat pasture.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 14, 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 . . .	72	+ 5	.1	-.5	La. Baton Rouge . . .	80	+10	1.4	+.4	Youngstown . . .	61	+ 8	.4	-.2
Mobile . . .	79	+ 7	.1	-.7	Lake Charles . . .	78	+ 6	2.8	+2.1	OKLA. Okla. City . . .	69	+ 4	1.5	+.9
Montgomery . . .	73	+ 5	0	-.6	New Orleans . . .	80	+ 8	.8	+.1	Tulsa . . .	69	+ 4	3.6	+2.8
ALASKA Anchorage . . .	31	- 5	.6	+.1	Shreveport . . .	78	+ 8	2.8	+2.2	OREG. Astoria . . .	51	- 3	.5	-.9
Barrow . . .	---	---	---	---	MAINE. Caribou . . .	47	+ 2	.2	-.6	Burns . . .	49	- 1	T	-.2
Fairbanks . . .	28	- 1	.3	+.1	Portland . . .	50	0	T	-.8	Medford . . .	56	+ 1	T	-.4
Juneau . . .	43	0	2.3	+.4	MD. Baltimore . . .	63	T	T	-.6	Pendleton . . .	52	- 3	.1	-.2
Kodiak . . .	---	---	---	---	MASS. Boston . . .	57	0	T	-.6	Portland . . .	54	- 2	.8	+.1
Nome . . .	---	---	.2	-.2	Chatham . . .	56	---	T	---	Salem . . .	53	- 2	.1	-.6
ARIZ. Flagstaff . . .	47	- 1	T	-.4	MICH. Alpena . . .	61	+13	1.3	+.5	PA. Allentown . . .	60	+ 5	T	-.7
Phoenix . . .	70	- 2	0	-.1	Detroit . . .	64	+10	.2	-.4	Erie . . .	61	+ 9	.2	-.6
Tucson . . .	66	- 6	0	-.2	Flint . . .	63	+12	.8	+.3	Harrisburg . . .	63	+ 6	T	-.7
Winslow . . .	50	-10	0	-.2	Grand Rapids . . .	65	+12	1.6	+1.0	Philadelphia . . .	62	+ 5	T	-.7
Yuma . . .	71	- 5	0	-.1	Houghton Lake . . .	62	+14	.9	+.2	Pittsburgh . . .	63	+ 9	.2	-.4
ARK. Port Smith . . .	71	+ 6	2.1	+1.3	Lansing . . .	64	+11	.8	+.2	Scranton . . .	58	+ 6	.1	-.7
Little Rock . . .	73	+ 9	2.0	+1.3	Marquette . . .	62	+12	.4	-.2	R.I. Providence . . .	56	+ 1	.1	-.6
CALIF. Bakersfield . . .	68	- 4	0	-.1	Muskegon . . .	65	+11	1.6	+1.0	S.C. Charleston . . .	72	+ 5	0	-.8
Eureka . . .	51	- 0	.2	-.3	S. Ste. Marie . . .	56	+ 8	.7	0	Columbia . . .	70	+ 4	T	-.6
Fresno . . .	62	- 4	.1	0	MINN. Duluth . . .	56	+ 9	4.2	+3.7	Greenville . . .	65	+ 1	.1	-.7
Los Angeles . . .	68	0	T	-.1	Internatl Falls . . .	53	+ 9	1.8	+1.4	S.D. Aberdeen . . .	53	+ 2	1.2	+.9
Red Bluff . . .	63	- 4	T	-.2	Minneapolis . . .	61	+10	1.1	+.7	Huron . . .	56	+ 6	1.9	+1.6
San Diego . . .	66	0	T	-.1	Rochester . . .	62	+10	.6	+.2	Rapid City . . .	45	- 7	1.3	+1.1
San Francisco . . .	60	- 1	.2	0	St. Cloud . . .	58	+ 9	3.0	+2.6	Sioux Falls . . .	58	+ 6	4.8	+4.5
Stockton . . .	63	- 2	T	-.1	MISS. Jackson . . .	76	+ 8	.4	0	TENN. Chattanooga . . .	68	+ 4	.3	-.4
COLO. Denver . . .	50	- 3	.3	+.1	Meridian . . .	76	+ 9	.2	-.3	Knoxville . . .	69	+ 6	.4	-.2
Grand Junction . . .	52	- 5	.2	0	MO. Columbia . . .	69	+ 9	1.5	+.7	Memphis . . .	74	+ 9	1.6	+1.1
Pueblo . . .	53	- 4	.8	+.6	Kansas City . . .	65	+ 3	4.9	+4.2	Nashville . . .	73	+10	.3	-.2
CONN. Bridgeport . . .	62	+ 5	0	-.8	St. Louis . . .	71	+11	.9	+.2	TEX. Abilene . . .	68	0	1.8	+1.0
Hartford . . .	56	+ 2	T	-.7	Springfield . . .	69	+ 8	1.8	+.9	Amarillo . . .	61	- 1	.4	-.1
D.C. Washington . . .	68	+ 8	0	-.7	MONT. Billings . . .	46	- 5	.6	+.3	Austin . . .	75	+ 3	6.4	+5.7
FLA. Apalachicola . . .	77	+ 4	.2	-.4	Glasgow . . .	46	- 1	T	-.2	Beaumont . . .	77	+ 5	2.3	+1.7
Daytona Beach . . .	78	+ 3	2.2	---	Great Falls . . .	46	- 3	T	-.2	Brownsville . . .	79	+ 2	3.1	+2.2
Ft. Myers . . .	79	+ 2	.1	-1.1	Havre . . .	45	- 3	T	-.2	Corpus Christi . . .	79	+ 3	7.4	+6.7
Jacksonville . . .	74	+ 2	.4	-1.1	Helena . . .	45	- 2	.1	-.1	Dallas . . .	---	---	---	---
Key West . . .	81	+ 1	1.6	+.2	Kalispell . . .	42	- 4	.1	-.2	Del Rio . . .	74	+ 1	.8	+.3
Lakeland . . .	76	0	.1	-.8	Miles City . . .	48	- 3	.2	-.1	El Paso . . .	63	- 3	T	-.2
Miami . . .	79	0	1.3	-1.4	Missoula . . .	44	- 1	T	-.3	Fort Worth . . .	73	+ 3	3.5	+2.9
Orlando . . .	78	+ 3	.7	-1.5	NEBR. Grand Island . . .	58	+ 3	1.4	+1.2	Galveston . . .	79	+ 4	3.9	+3.1
Tallahassee . . .	76	+ 5	T	-.7	Lincoln . . .	61	+ 2	4.8	+4.4	Houston . . .	75	+ 4	4.4	+3.5
Tampa . . .	78	+ 2	.4	-.5	Norfolk . . .	59	+ 4	.7	+.4	Lubbock . . .	66	+ 3	.4	-.2
W. Palm Beach . . .	79	0	2.6	---	N. Platte . . .	52	- 1	1.3	+1.0	Midland . . .	67	- 1	.2	-.3
GA. Atlanta . . .	69	+ 5	T	-.5	Omaha . . .	62	+ 6	2.7	+2.3	San Angelo . . .	70	0	2.0	+1.5
Augusta . . .	67	0	T	-.5	Valentine . . .	50	- 2	1.4	+1.2	San Antonio . . .	77	+ 5	2.9	+2.3
Macon . . .	71	+ 3	0	-.7	NEV. Ely . . .	42	- 6	.8	+.7	Victoria . . .	78	+ 4	3.6	+2.7
Savannah . . .	73	+ 4	T	-.7	Las Vegas . . .	63	- 5	T	0	Waco . . .	74	+ 3	3.6	+3.0
HAWAII. Hilo . . .	76	0	1.7	-.7	Reno . . .	48	- 2	T	-.1	Wichita Falls . . .	71	+ 3	1.6	+.9
Honolulu . . .	81	+ 3	.9	+.5	Winnemucca . . .	47	- 2	T	-.2	UTAH. Blanding . . .	47	- 7	.7	+.3
Kahului . . .	78	+ 1	T	-.1	N.H. Concord . . .	54	+ 4	T	-.6	Salt Lake City . . .	51	- 2	.3	+.1
Lihue . . .	79	+ 1	.7	0	N.J. Atlantic City . . .	60	+ 1	T	-.8	VT. Burlington . . .	53	+ 4	.2	-.5
IDAHO. Boise . . .	52	- 1	T	-.1	Trenton . . .	62	+ 4	T	-.7	VA. Lynchburg . . .	64	+ 5	T	-.6
Lewiston . . .	50	- 3	.1	-.2	N.MEX. Albuquerque . . .	54	- 6	.2	0	Norfolk . . .	65	+ 2	T	-.7
Pocatello . . .	46	- 5	.7	+.5	Roswell . . .	62	+ 1	0	0	Richmond . . .	63	+ 3	.2	-.5
ILL. Cairo . . .	71	+ 7	.8	+.2	N.Y. Albany . . .	54	+ 2	T	-.6	Roanoke . . .	65	+ 6	.6	-.1
Chicago . . .	69	+12	1.8	+1.2	Binghamton . . .	58	+ 7	.5	-.2	WASH. Colville . . .	47	- 2	T	-.3
Moline . . .	66	+10	.4	-.2	Buffalo . . .	61	+ 9	.2	-.6	Omak . . .	47	- 2	.1	-.1
Peoria . . .	67	+ 9	2.1	+1.5	New York . . .	63	+ 3	T	-.8	Quillayute . . .	49	- 3	2.4	+.1
Rockford . . .	67	+13	3.1	+2.1	Rochester . . .	61	+ 8	.1	-.5	Seattle-Tacoma . . .	51	- 2	.6	-.2
Springfield . . .	70	+11	.7	0	Syracuse . . .	59	+ 6	.1	-.6	Spokane . . .	47	- 4	T	-.3
IND. Evansville . . .	70	+ 9	.6	0	N.C. Asheville . . .	64	+ 5	.5	-.1	Walla Walla . . .	54	- 3	T	-.3
Ft. Wayne . . .	65	+10	.1	-.6	Charlotte . . .	65	+ 1	T	-.7	Yakima . . .	50	- 2	T	-.1
Indianapolis . . .	68	+11	.9	+.2	Greensboro . . .	63	+ 2	.2	-.5	W.Va. Beckley . . .	60	+ 5	.3	-.3
South Bend . . .	68	+13	1.2	+.4	Hatteras . . .	69	+ 3	T	-1.0	Charleston . . .	65	+ 7	.1	-.5
IOWA. Burlington . . .	67	+10	.2	-.5	Raleigh . . .	65	+ 3	.1	-.6	Huntington . . .	67	+ 8	.2	-.3
Des Moines . . .	65	+ 9	2.3	+1.8	Wilmington . . .	69	+ 2	T	-.7	Parkersburg . . .	65	+ 7	.1	-.4
Dubuque . . .	64	+11	.2	-.4	N.DAK. Bismarck . . .	45	- 4	1.3	+1.0	WIS. Green Bay . . .	64	+13	.9	+.4
Sioux City . . .	63	+ 7	1.9	+1.5	Fargo . . .	53	+ 5	1.5	+1.2	La Crosse . . .	66	+13	.6	+.1
KANS. Concordia . . .	62	+ 2	4.2	+3.8	Williston . . .	46	- 2	T	-.2	Madison . . .	65	+13	.4	-.2
Dodge City . . .	63	+ 2	1.2	+.9	OHIO. Akron-Canton . . .	62	+ 7	1.0	+.4	Milwaukee . . .	63	+11	.4	-.1
Goodland . . .	52	- 3	.4	+.2	Cincinnati . . .	66	+ 8	.2	-.4	WYO. Casper . . .	44	- 6	.6	+.4
Topeka . . .	66	+ 6	4.0	+3.4	Cleveland . . .	65	+11	.2	-.4	Cheyenne . . .	45	- 4	T	-.2
Wichita . . .	68	+ 5	3.1	+2.5	Columbus . . .	65	+10	.2	-.3	Lander . . .	42	- 7	T	-.3
KY. Lexington . . .	66	+ 8	.3	-.2	Dayton . . .	67	+10	.4	-.2	Sheridan . . .	44	- 6	.3	0
Louisville . . .	70	+11	.4	-.1	Toledo . . .	64	+10	.1	-.5	P.R. San Juan . . .	82	+ 1	1.6	+.5

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: Mostly fair, warm through Saturday. Temperatures 7° above normal. Cool front, with cloudiness and rain, moved in over weekend. Heaviest rain extreme north. Dry over south. Cotton harvest underway most areas, but more advanced south and central. Cotton about 10% harvested, 30% both 1972 and 5-year average. Defoliation active north. Corn slightly over 33% harvested, moderately behind 1972. Soybeans slightly over 50% matured; only 10% expected production combined, 1972 20% combined. Late beans responded favorably to last week's rains. Peanut harvest complete on many farms. Inspection Service reported 158,834 tons peanuts inspected through October 12 versus 183,435 tons 1972. Pecans falling scattered orchards, light harvest underway.

ARIZONA: Scattered light showers northwest border 8th spread later to central, eastern mountains; otherwise fair and dry. Temperatures 6° to 8° subnormal but large fluctuations to near record extremes. Ranges fair to poor statewide. Scattered light rainfall early week northwest and central mountain ranges. Southeast, south ranges dry. Stockwater short many areas, some hauling of water. Cattle, calves good. Sheep, lambs fair to good. Movement sheep to winter pastures underway.

Harvest full swing Yuma County, Salt River Valley. Harvest began Graham, Cochise counties. Yields Yuma County not as high as expected. Sorghum harvest continued steady south. Frost parts Cochise County hurt yield later plantings. Spring sugar beets good progress Yuma County. Fall sugar beets satisfactory progress southeast. Alfalfa seed mostly harvested Yuma County. Last cutting alfalfa hay most areas. Planting, renovating full swing Yuma County. Some hay Yuma County stored for future sales. Lettuce harvest Willcox area at volume proportions, some fields reported abandoned due to poor quality, low prices. Thinning in Yuma area, planting somewhat slower than normal. Chili pepper harvest southeast behind schedule, slowed by freeze late in week, yields subnormal. Lemon harvest slow central valley, Yuma area. Demand for larger sizes good, limited for smaller. Shortage of pickers Yuma area.

ARKANSAS: Heavy rain west and northcentral Friday through Saturday with numerous reports over 3.00 in. Aly had 6.80 in. in 1 day. Danville had 6.33 in. and Botkinburg 6.04 in. Least fell northeast, under 1.00 in. temperatures 5° to 10° above normal, means generally in low to mid-70's. Extremes: 90° Texarkana; 48° Mountain Home and Fayetteville. Warm week, cooling weekend.

Rains and high humidity slowed harvest. Open weather needed for harvest to resume. Cotton picking gained momentum, about 14% picked, 40% 1972. Yields about average on early pickings. Rice harvest in full swing, combining 65% complete, 85% 1972. Recent rains caused lodging. Soybeans mostly good, harvest early beans active, midseason beans matured rapidly, late beans made good progress. Sorghum grain harvest neared com-

pletion on early crop, yields good. Seeding wheat and oats continued, but slowed due to late harvest of soybeans. Early wheat up and growing, armyworms are a problem. Haying continued hampered by rain. Pastures very good. Livestock gained well on lush grazing.

CALIFORNIA: Cold storm produced precipitation north two-thirds. Temperatures about 3° subnormal.

Small grain seeding active. Rice harvest about normal. Sorghum grain harvest in varying stages. Cotton harvest active, rains slowed harvest somewhat. Defoliation still active. Alfalfa still cut. Dry bean harvest complete some areas. Rain caught a few fields. Sugar beet and corn harvest active. Wine grape harvesting active, sugar lower than 1972, picking for fresh market resumed after rain.

Some open raisins showing mold. Almond harvest final stages. Harvest walnuts, apples active. Persimmon, Pomegranate and Olive harvesting increasing. Light picking plums, lemons, avocados. Harvest navel oranges to start in 1 week. Fig harvest about complete, some rain damage. Artichoke increasing. Broccoli, cauliflower near seasonal levels. Brussels sprouts continued. Cantaloupe Westside complete next week, increased Imperial. Carrot digging moderate Salinas, Santa Maria. Rains curtailed celery Salinas, volume normal end week. Light sweet corn south. Rain limited lettuce cutting Salinas, San Joaquin light. Bell pepper continued Salinas, San Joaquin; beginning Santa Maria. Onion, potato harvest continued north. Some central market tomatoes lost due recent rains. Processing tomato deliveries curtailed, harvesters operated next week, fields dried. Some loss expected, reduced yields, mold, decay. Range grasses started sprout due recent rains. Supplemental feeding continued. Livestock generally very good. Sheep moved to alfalfa San Joaquin Valley, lambing underway. Fall calving active.

COLORADO: Major midweek storm brought widespread precipitation. Light to moderate snow fell in mountains, rain showers lower elevations west and rain changing to snow east. Snow depths up to about 10 in. east early on 11th, northeast. Precipitation totals mostly 0.10 to 0.50 in. west and 0.25 to 1.00 in. elsewhere.

Temperatures 3° to 6° subnormal. Warm, mild early week and unseasonably cold during storm. Freezing over most of north early on 11th but no freeze much of south and westcentral lower elevations this fall. Weekend highs in 70's and 80's lower elevations.

Snow and rain delayed farm work. Winter wheat seeding behind a year ago but making steady progress, 94% planted, 82% emerged. Wheat condition good. Barley excellent progress, 97% seeded, 77% emerged. Corn 92% mature, 98% 1972. Weather delaying corn harvest. Corn silage 91% complete. Grain sorghum 58% ripe, little harvest activity. Potato harvest continued. Dry beans 96% cut, 70% threshed. Sugar beets excellent, harvest began. Alfalfa harvest continued. Pastures, ranges good to excellent. Livestock moving from high country, good condition.

FLORIDA: Light to moderate rainfall peninsula with locally heavy accumulations east coast and extreme south, none of consequence panhandle. Unseasonably warm days, temperatures 2° to 4° above normal. Soil moisture short north, mostly adequate elsewhere. Crops generally good condition.

Corn and peanut harvest declined. Cotton and soybean harvest underway. Soybean yields fair to good. Haying active, declined seasonally. Planting small grains delayed drier areas but active where moisture adequate. Pecan crop above average but damage from scab showing up. Pastures very poor to good. Cattle, calves generally good.

Most vegetable crops good. Hot, humid weather hindering spraying, weed control, optimum crop progress. Sweet corn only major commodity in volume. Early harvest of beans, cucumbers, eggplant, peppers, radishes, squash getting underway with moderate volume expected last of October. Some early leaf crops started. Citrus grove condition excellent, drier weather inducing dormancy, new growth hardening off, harvest increasing.

GEORGIA: Warm. Temperatures 2° to 6° above normal. Moderate showers coast, 0.50 to 1.25 in. Elsewhere little or no rain. Slightly cooler weekend, isolated light showers. Soil moisture adequate north, short to very short south.

Harvest very active. Corn good, 41% gathered. Peanuts 98% dug, 95% threshed; yields very favorable. Cotton mostly good, 22% picked. Defoliation active. Soybeans fair to good, 7% harvested. Pecans mostly good, early varieties falling, harvest underway. Pastures and hay crops declined seasonally, mostly good. Cattle good. Land preparation and small grain seeding slowed, need rain, 32% sown. Armyworms, fire ants, southern pine beetles still problem.

HAWAII: Beneficial showers fell over mountain and windward areas, increased water supply. Irrigation continued heavy leeward areas. Progress of crops generally good. Vegetable supply adequate. Production of bananas and papayas holding near last week's volume. Lowland pastures dry, fair in upland pastures. Supplemental feeding necessary. Cattle fair to good. Light harvest pineapples, sugar harvest normal.

IDAHO: Freezing temperatures midweek brought averages below normal. Precipitation statewide early week. North of Salmon River remained cool and wet over weekend while southern Idaho had warm, dry weather. Rains and cool weather slowed harvest.

Potatoes 50% dug southcentral and eastern areas and 75% southwest. Sugar beets 10% lifted, cooler weather needed for improved sugar content. Rapid progress fall grain seeding. Fall wheat 85% seeded, 50% emerged. Stands good except a few spotty fields north. Subsoil moisture short some northern areas, generally adequate elsewhere.

ILLINOIS: Warm most of week. Temperatures 7° to 12° above normal. Heavy rains fell extreme northcentral Wednesday and from northeast to central sections on Friday and extreme south on Saturday. Elsewhere light amounts recorded. Fieldwork possible 4.5 days. Farmers filled silos, plowed, seeded winter wheat, harvested corn and soybeans.

Corn harvest made some headway, 15% harvested, about same as year ago, 1970-72 average 30%. Harvest most advanced south and least advanced northwest. Soybean harvest made moderate progress, 35% complete, 52% 1972, average 65%.

Progress most advanced southern 2/3 State, lagging behind northwest and extreme north. Winter wheat 65% seeded, 5% ahead last year, slightly behind average. Pastures excellent 25%, good 60%, fair 14%, poor 1%. Soil moisture 5% short, 62% adequate, 33% surplus.

INDIANA: Warm week. Temperatures averaged in high 60's, 9° to 12° above normal. Precipitation ranged from 0.33 to 1.33 in. most in west and north. No frost yet. Fieldwork: 6 days. Topsoil and subsoil short to mostly adequate.

Corn 20% harvested, same as average, 10% in 1972. Soybeans 40% combined, 50% average, 20% in 1972. Gas supplies for drying generally adequate. Sorghum grain 35% combined, 40% usual, 20% in 1972. Wheat 65% seeded, same as average, 35% in 1972. Wheat 40% emerged, stands rated mostly good to excellent. Rye 80% seeded, barley 70% seeded. Tobacco 95% cut. Pasture improved to mostly fair.

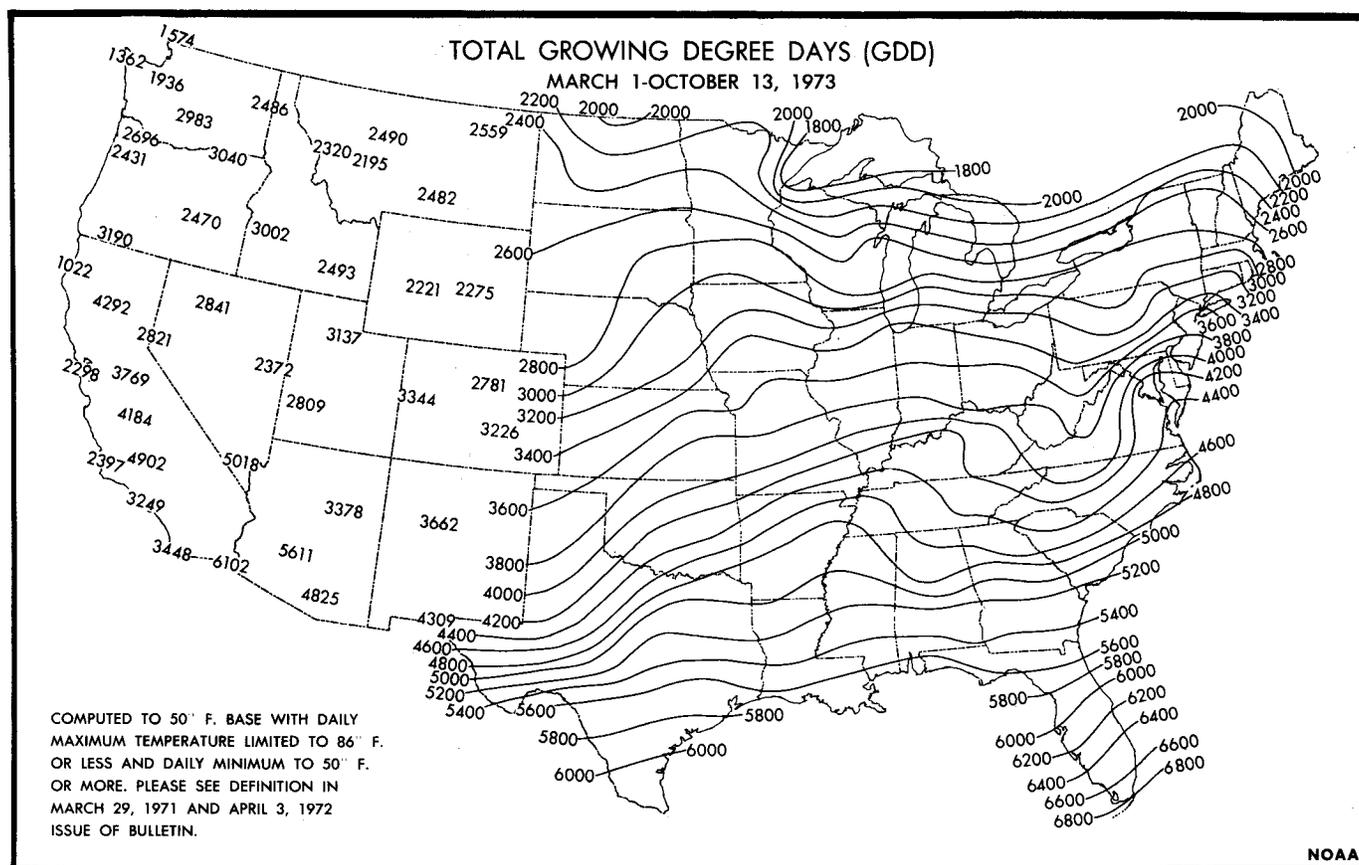
IOWA: Temperatures averaged 8° above normal. Third consecutive week above normal. Showers and thunderstorms midweek gave more than 3.00 in. rainfall over southwest to northcentral counties causing local flooding small rivers. Bedford reported over 5.50 in. Wet week, only one day suitable for fieldwork. Topsoil moisture supplies 6% adequate, 94% surplus. Wet weather and muddy fields delaying harvesting of crops. Corn about 9% harvested, 5-year average 18%. Soybeans 6% harvested, 5-year average 49%. Grain sorghum 10% harvested, average 31%. Winter wheat 45% seeded, average 86%.

KANSAS: Rainfall began northcentral on 9th, spread over State on 10th with 24-hour amounts over 9.00 in. in Cowley County. Amounts of 5.00 and 6.00 in. common. Major flooding over east and central. Some Big Blue River stages setting all-time records. Sunshine returned weekend. Temperatures beginning week and weekend above normal, considerably subnormal midweek. Averages near normal west to over 6° above normal east.

Extremely heavy rains stopped farming operations, washed out some fall seeded grain, damaged some row crops. Winter wheat seeding 55% completed, 1972 95%, average 90%. Some reseeded expected. Winter barley seeding 35% completed, 80% average. Corn grain and sorghum 10% harvested, soybeans 5%--considerably behind normal. Sorghum quality lowered considerably by sprouting, fungus and discoloration. Ranges and pastures excellent. Majority of cattle held on grass rather than wheat pasture, some grazing on volunteer wheat.

KENTUCKY: Unseasonably warm. Light rain and cooling Saturday. Rainfall averaged less than 0.50 in. Fieldwork possible 5.5 days. Soil moisture 67% adequate, 33% short. Corn 30% harvested, 25% 1972. Early corn yielding well, some late planted corn yields reduced by dry weather. Soybeans 23% harvested, 22% 1972. Late beans in dry areas have pods with few or no beans. Burley tobacco 26% cured; 5% stripped, 6% 1972. Fall wheat 40% seeded. Barley 60% seeded. Recent rains improved pastures.

LOUISIANA: Temperatures 4° to 10° above normal. Precipitation moderate to heavy most sections. Weekly totals near 1.00 in. south to mostly 2.00 to 4.00 in. north. Greatest 1-day precipitation 3.36 in. in Deridder Friday morning. Fieldwork



possible 4.6 days. Soil moisture adequate.

Farmers hayed, seeded grain and winter pasture, defoliated cotton, and harvested soybeans, rice, sugarcane and cotton. Cotton 60% open, almost 10% picked. Corn and sorghum 75% harvested. Rice over 90% harvested. Soybeans 15% harvested. Sugarcane harvest beginning. Pecans good, harvest beginning. Small grains 50% seeded. Pastures average. Livestock good.

MARYLAND AND DELAWARE: Warm week. Temperatures 3° above normal except 2° below southern Eastern Shore. Highs mostly low 80's, lows upper 30's. Precipitation light, over 75% of stations no rainfall. Amounts reported 0.23 in. or less. Excellent work week. Enough moisture for grain seeding but not too wet for harvest. Corn 67% harvested, 1972 41%, average 58%. Soybeans 25% combined, 1972 3%, normal 11%. Fall seeding grain crops ahead of normal. Apple picking active; Delicious varieties done, Stayman, Romes and Yorks will extend to early November.

MICHIGAN: Unseasonably warm until midweek with showers confined mainly upper and northern lower State. New high for so late in season 81° on Thursday at Muskegon. Temperatures ranged 8° to 13° above normal. Cold front end of week dropped readings somewhat, showers or thundershowers most areas. Rain totaled 0.50 in. to around 1.00 in. upper, 1.00 to 1.50 in. lower except less than 0.25 in. southeast lower.

Good progress with fieldwork until Saturday rains halted it. Fieldwork: 5.3 days. Soil moisture mostly adequate until Saturday rains made it surplus. Corn 82% mature, 16% harvested, average 12%. Silage 91% harvested. Soybeans 77%

mature, 29% harvested, average 24%. Damp weather slowed soybean harvest. Fall potatoes 78%, sugar beets 22% harvested. Some late dry beans still harvested. Winter wheat 96% planted, rapid growth most wheat fields. Pasture feed supplies near average. Apple harvest neared completion southwest, peaked elsewhere. Grape harvest neared completion. Cabbage, carrots and cauliflower harvest actively continued. Other vegetables nearly finished.

MINNESOTA: Temperatures 4° to 10° above normal. Third straight week above normal. Precipitation much above with weekly totals 1.00 to 6.00 in. above normal. Locally heavy rains fell over north-central and northeast and caused small stream and creek flooding and minor flooding along Mississippi River near Little Falls over weekend. Greatest 24-hour total reported was 7.00 in. at Remer on 9th. Other heavy totals: 6.07 in. at Grand Rapids, 4.60 in. at Olivia and 4.20 in. east of Litchfield.

Continued wet weather delayed field drying and harvesting of corn, soybeans and slowed potato, sugar beet digging. Corn 12% harvested, but considerable artificial drying necessary as moisture content of grain averaging 28%. Soybeans 23% combined, one week behind average; moisture content averaging about 16%. Potatoes 82% dug. Sugar beets 53% lifted; progress 1 week ahead of average. Sunflowers 56% combined. Fieldwork possible 1.5 days.

MISSISSIPPI: Unseasonably warm week with showers somewhere every day. Rainfall of 2.05 in. southeast section on Thursday. Temperatures 8° above normal most locations. Extremes: 94° at Yazoo

City and 50° at Aberdeen on October 7. Weekend not quite as warm north, occasional rain over most areas.

Soil moisture very short to surplus, mostly adequate. Fieldwork: 4.9 days. Cotton 70% open, 83% 1972. Cotton 16% harvested, 40% in 1972. Soybeans 14% harvested, 22% 1972; other acreage 36% mature, 50% 1972. Rice 65% combined, 95% 1972. Corn 40% harvested, 55% 1972. Harvest of other crops: Sorghum 52%, sweet potatoes 57%, hay 94%, and peanuts 75% complete. Field crops and pastures mostly fair to good. Pecans poor to good. Livestock good.

MISSOURI: Temperatures around 10° above normal all zones with only minor daily variations. Precipitation very heavy northwest prairie and above normal all other areas. Two days suitable for fieldwork. More rain and lowland flooding last week. Extent of damage to crops in field undetermined.

Corn 11% harvested, 31% 1972. Soybeans 8% harvested, 31% 1972. Sorghum 23% harvested, 40% 1972. Cotton 14% harvested, 34% 1972. Fall seeding 29% complete, 55% 1972. Soil moisture supplies adequate to surplus. Motor fuel supply for current farm work generally adequate. Pastures generally good.

MONTANA: Row crop harvest made good progress. Topsoil moisture improved although still short parts northwest, northcentral. Sugar beets 45% dug. Potatoes 75% harvested. Dry beans 95% combined. Winter wheat 90% planted. Emerged stands mostly good except parts northcentral and scattered counties west, central where fair. Cattle, sheep movement from summer ranges 60% complete. Range feed short northwest, northcentral and most of central district.

NEBRASKA: Rains 0.75 in. northwest to 5.00 in. southeast. Temperatures subnormal most of week, freezing western third. Soil moisture supplies mostly surplus: topsoil 82% surplus, 18% adequate; subsoil 59% surplus, 39% average, 2% short. Fieldwork: 3 days. Continued, heavy rains reduced quality, delayed harvest most crops. Grain sorghum showing particularly heavy damage. Many soybean pods shattering. Much lowland acreage flooded, particularly southeast along Big Blue River and tributaries.

Corn for grain 5% harvested, 15% 1972 and normal; 27% moisture, 24% 1972. Stalk rot particularly prevalent northeast with 11 counties showing 27% presence in stalks, lodging light. Much ear mold, some sprouting in eavy rain areas. Sorghum 10% harvested, 25% 1972, 30% average; 19% moisture, 20% 1972. Much sorghum sold on grade will be sample grade because of high percentage kernel damage from weather, mold, sprouting, often resulting in severe price discount. Soybeans 10% harvested, 40% 1972, 55% average; 17% moisture, 13% 1972. Wheat 6% excellent, 53% good, 25% fair, 16% poor; much intended acreage not yet planted may not be planted to wheat due to late season. Sugar beet harvest progress slow. Dry bean harvest 75% complete. Range and pasture 36% above average, 60% average, 4% below average. Hay and forage supplies 23% excellent, 67% average, 10% below average. Many feedlots muddy, particularly southeast. Many ranchers weaning calves.

NEVADA: Temperatures 4° below normal northeast and southcentral, 5° below northwest and 8° below extreme south. Extremes: 89° at Las Vegas, 10° at Mountain City. Precipitation varied from 0.10 in. southcentral to 0.38 in. northeast. Austin greatest, 0.93 in.

Alfalfa seed harvest complete. Cutting silage corn virtually complete. Potato harvest active. Cotton picking to begin soon Pahrump Valley. Planting winter grains continued. Cattle movement active. Fall, winter ranges good.

NEW ENGLAND: Mostly fair, dry, except light showers Wednesday and Sunday. Precipitation totals averaged trace to 0.25 in. Very gusty winds Sunday.

Aroostook County potato digging wrapping up. McIntosh apples nearly picked, picking started on good crop Delicious. Cranberry harvest may finish next week, late Howes 25% picked, quality good.

NEW JERSEY: Mild, dry week. Temperatures normal to 5° above normal. Extremes: Upper 70's Thursday to mid-30's Friday morning. Precipitation less than 0.10 in. Most stations report a trace north and no rain south. Most areas need rain. Harvest of fall vegetables progressing on schedule. Potato harvest in clean-up stage. Sweet potato harvest active. Apple and cranberry harvest progressing well. Corn silage making continued north. Corn for grain and soybean harvest active. Grain seeding continued as crops harvested. Pastures growing nicely in response to above normal temperatures.

NEW MEXICO: Early winter storm midweek brought moderate showers to north with snow above 6,000 ft. Most higher elevations north got some snow cover with Sandia Crest 4 in. and Red River 8 in. Moisture to near 1.00 at Chama. Sharp cooling with storm. Temperatures 8° or 9° subnormal north to near normal southeast. Coldest 17° at Grants, Quemado and Ruidoso and 18° at Gallup. Freezing or lower all sections except eastern plains and some sections southern desert. Warming, drying near weekend.

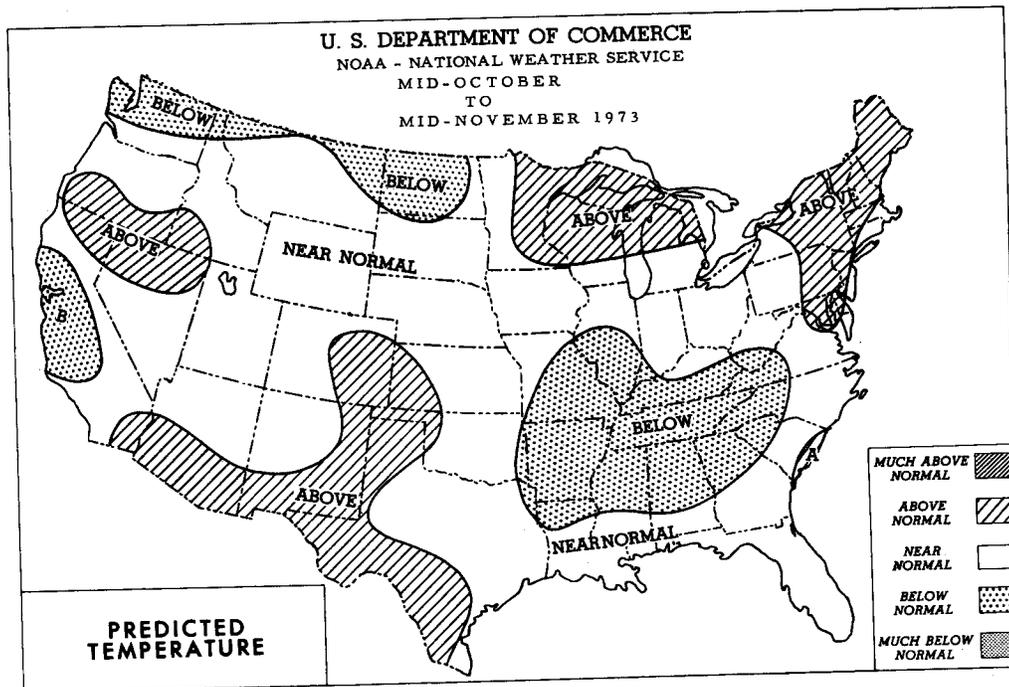
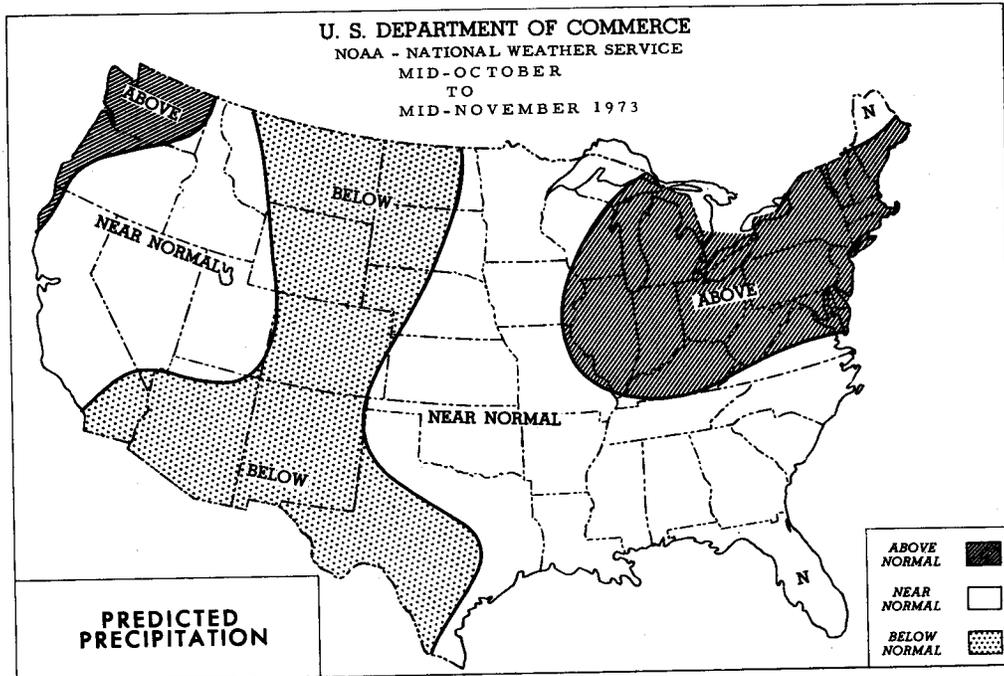
Soil moisture short. Light frost statewide. Killing frost Deming area. Ranges fair. Livestock mostly good, moved to winter range. Grain sorghum 50% harvested. Cotton fair to good, harvest continued. Alfalfa good, harvest continued; fourth cutting north, fifth cutting south. Apple harvest 50% complete north, 90% south. Lettuce harvest continued.

NEW YORK: Fine mild autumn week. Only light rainfall, plenty of sunshine after morning fog. Temperatures again well above normal, warmest west where 8° to 12° above normal. Elsewhere 4° to 8° above normal except eastern Long Island only 1° above. Highs in 70's, below freezing at Saranac Lake, Watertown and Glens Falls, freeze readings at Albany, Massena. Below normal rainfall everywhere from 0.50 in. at Binghamton to less than 0.10 in. several places. Long term rainfall departures show increasing deficiency statewide. Hudson Valley and coastal southeast driest.

Silage corn harvest nearing completion, nearly 90% done. Grain corn harvest starting to gear up, about 15% complete. Third cutting alfalfa over 90% complete. Dry bean pulling roughly 70% complete. Pastures continued variable. Soil moisture levels adequate most areas. Adequate moisture and warm temperatures aided sizing storage cabbage crop. Harvest of tomatoes, sweet corn, and snap beans nearly complete. McIntosh apple harvest complete; Red Delicious and Cortlands nearly finished Hudson Valley. Grape harvest nearly complete, quality good.

NORTH CAROLINA: Rainfall generally less than 0.10 in. Cool nights invaded late week dropping nighttime temperatures into 40's. Fieldwork averaged 4.7 days. Soil moisture declined. Harvesting conditions continue excellent. Flue-cured sales

AVERAGE MONTHLY WEATHER OUTLOOK



These prognostic charts show the expected categories of average temperature and total precipitation for the period indicated. They are taken from the Weather Service's publication Average Monthly Weather Outlook which contains additional information necessary for complete interpretation.

heavy, floor space allocation by warehouses major problem. Cotton picking made excellent progress during week. Soybeans 4% combined. Corn and peanuts 80% combined. Sweet potatoes 60% dug. Small grains 25% planted.

NORTH DAKOTA: Generally mild. East half ranged from 3° to 6° above average and west half about average to 3° above. Precipitation ranged from 0.25 to 0.50 in. above normal except for northwest and northcentral portions which ranged from 0.20 to 0.50 in. subnormal. From Thursday night to Friday morning west portion recorded from 1 to 5 in. new snow. Most snow melted by Friday noon. Rains during week helped replenish moisture supplies but temporarily halted harvest of sunflowers, sugar beets, potatoes and soybeans. Farmers busy with fall tillage and fertilizer application. Pastures furnishing good fall grazing.

OHIO: Fair, mild week. Cold front spread rain 13th, followed by high pressure bringing fair weather, somewhat cooler temperatures on 14th. Fog-shrouded fields held farmers to average progress fall harvesting and seeding activities. Some farmers waited as late as midafternoon to enter their soybean fields because of wet conditions.

Soil moisture supplies dropped slightly, 27% short, 69% adequate, 48% surplus. Fieldwork possible 6 days. Corn crop 95% mature. Corn for grain harvest 2 weeks ahead of 1972 at 25% complete, about normal for date. Soybeans also 95% mature, 45% combined; in 1972 only 25% combined, normal average 50%. Corn for silage 85% harvested, 70% in 1972. Fall potato digging equals normal progress at 80% dug. A little over 5% sugar beets lifted, 15% in 1972. Winter wheat over 70% seeded, slightly ahead of normal.

OKLAHOMA: Temperatures 2° to 7° above normal. Precipitation averages ranged from 0.86 in. panhandle to 7.22 in. northcentral. Flash flooding northcentral section 10th. Weekend mild with scattered rain. Rains over most State halted harvesting and seeding. Flooding northcentral areas caused extensive property damage. Will necessitate replanting considerable acreage small grains when fieldwork can proceed.

Wheat acreage 75% seeded compared 92% seeded 1972. Barley 66% seeded. Oats 67% seeded, sorghums 23% harvested, 87% mature, in 1972 27% harvested, 95% mature. Cotton 2% harvested, 62% bolls open; 1972 11% harvested, 90% open bolls. Soybeans 10% harvested, 50% mature. Corn 40% harvested, 94% mature. Panhandle corn harvest underway, 40% picked. Peanuts 16% combined, 94% mature--about 1 week behind 1972. Range, pasture grasses good to excellent. Livestock making good gains.

OREGON: Temperatures from 3° to 8° subnormal. Highs in mid-60's to upper 70's, Grants Pass warmest with 78°. Local frost reported western valley, hard freeze in higher valleys east midweek. Rainfall locally heavy along north coast ranging 1.93 to 3.66 in. Cloverdale got 3.18 in. in 24 hours. Precipitation along south coast ranged 0.03 to 0.06 in. Willamette Valley amounts ranged from 0.14 to 0.96 in.

Fall grain seeding continued. Good stands emerging. Soil moisture much improved. Cheatgrass, henbit competing with fall seeded grain for moisture. Sugar beet harvest full swing Malheur County. Potato harvest continued all areas. Apple, filbert, walnut harvests continued. Gladiola bulb harvest underway. Last cutting hay, silage being made. Fertilizer in short supply. Pastures, ranges regreening.

PENNSYLVANIA: Generally fair, seasonably mild week. Sunny skies pushed afternoon highs into 60's and 70's. Overnight lows 40's and 50's most places. Extremes: 80° and 36°. Statewide 4° to 8° above normal. Several cold fronts brought only brief light scattered showers, primarily west and north where 0.40 to 0.70 in. rain fell. South and central counties got less than 0.20 in. Driest week Statewide since end of August. Dry, pleasant weather allowed farmers to continue fall harvests without delays. Farmers chopped silage central and north. Farmers south just about finished filling silos, began to pick corn. Most corn for grain mature or near maturity. Soil moisture adequate. Pastures average or better than average. Hay fields made good growth--were green chopped or grazed. Fall alfalfa seedings made good stands. Potato harvest finishing up. Apple harvest progressed well. Many growers finished picking, others 50% finished.

PUERTO RICO: Rainfall averaged 3.46 in. or 1.60 in. above normal. Heavy rains Thursday caused moderate flooding along south coast. Highest weekly rainfall 7.67 in. on southeast coast. Highest 1-day total 4.90 in. south coast. Temperatures averaged 80° coasts and 75° interior. Extremes: 93°, 58°. Crop moisture too wet south and southeast zones but near normal most other divisions.

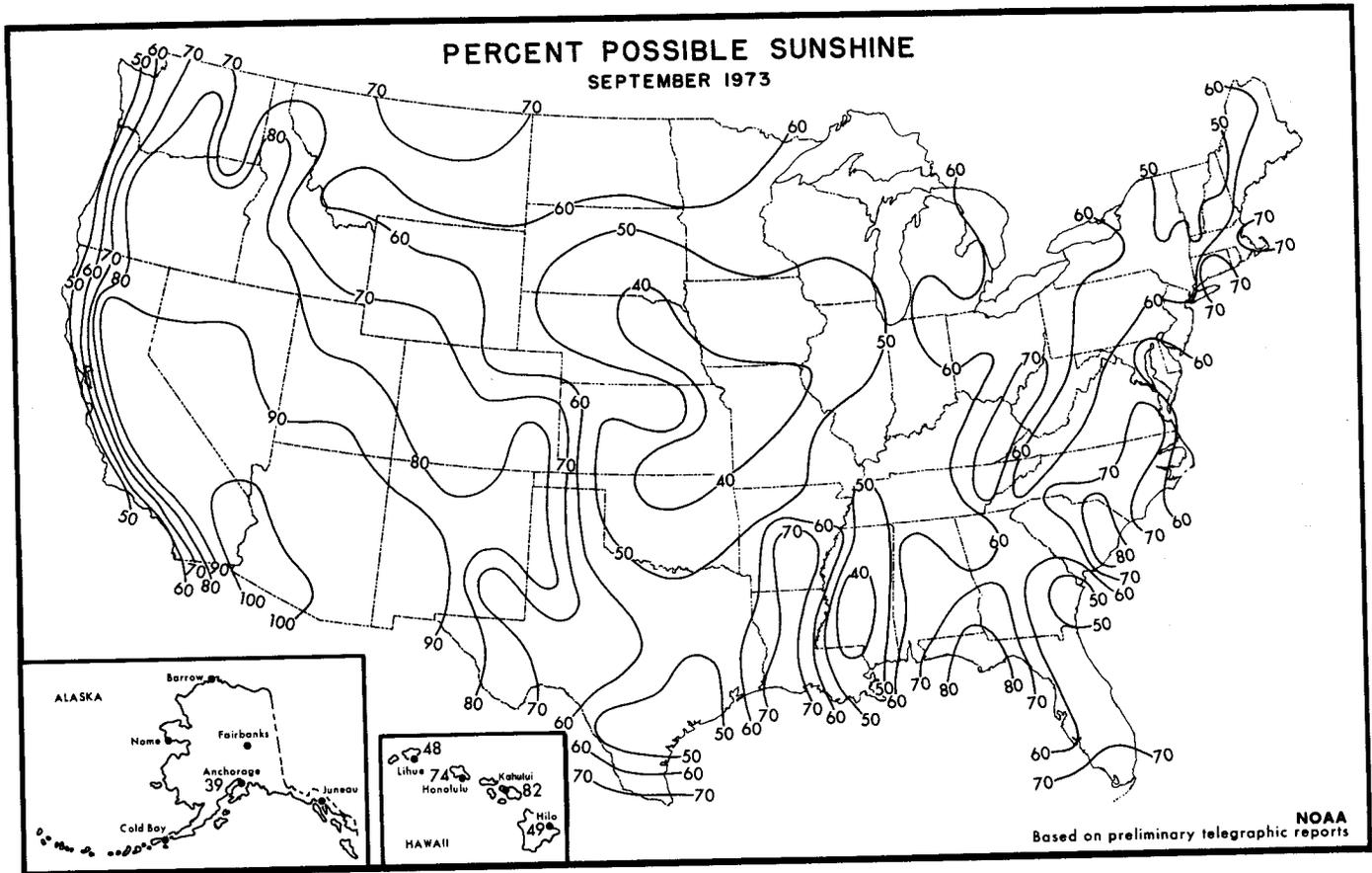
Young sugarcane crop developed well. Some coffee beans dropped due heavy rains and harvesting interrupted some zones but most of crop improved. Farmers limed, prepared to plant tobacco. Pastures generally good to excellent, recent rains improved them except for a few flooded fields. Good progress planting minor crops except some areas west where rains, wind damaged banana, plantain crops.

SOUTH CAROLINA: Dryer, warmer than usual. Clear weather, warm days, rather mild nights. Slightly cooler air near weekend. Lowest temperatures of fall reported Saturday morning northcentral. Week practically rainless, although few showers Tuesday over portions of mountains and foothills. Soil moisture short to adequate, all crops need more moisture.

Cotton defoliation continued, 80% open bolls, 24% harvested; 1972 76% and 23% respectively. Corn 75% harvested, about same as 1972. Soybeans fair to good, 6% harvested, slightly more than 1972. Armyworms, stinkbugs, velvetbean caterpillars still problem some areas in soybeans. Pecans, pastures fair. Winter grazing 51% planted, same as 1972. Oats, wheat fair to good. Oats 22% planted, 15% 1972. Wheat 19% planted, 6% 1972. Fall hays 76% harvested, 86% 1972. Fall vegetables fair to good. Harvested squash, snap beans, and some cucumbers.

SOUTH DAKOTA: Temperatures 1° to 7° above normal northeast and southeast, but up to 7° subnormal central and west. Precipitation ranged from 1.25 to 4.75 in. which fell on Sioux Falls Tuesday exceeding all intensity records. Western third got 1 to 6 in. snow. Wet conditions further delayed harvest of row crops, but made winter wheat and rye conditions good to excellent.

Corn harvest 16% complete, 1972 20%, normal 26%. Sorghum for grain 23% harvested, 1972 15%, normal 46%. Soybeans 11% harvested, 44% in 1972, 53% normal. Wind, rain, some hail broke some corn stalks, dropped ears and shattered some soybeans east. Moisture content of row crops continued high, they need killing frost east third to hasten drying. Livestock continued good, marketings began to pick up some areas. Pastures greening, winter feed expected generally adequate.



TENNESSEE: Rain early week followed by warm, sunny days. Heaviest rainfall central and west. Less than 0.50 in. east. Temperatures 5° to 9° above normal. Cotton about 15% picked, normal 30%, disappointing yields reported.

The corn crop looks good statewide but about 2 weeks late; about 20% harvested, normal 40%. Nearly 20% not yet matured. Soybean harvest underway, about 30% mature. Crop looks good but an average frost date will catch a considerable amount acreage not yet mature, particularly in important west counties. Stripping early cut tobacco progressing rapidly, 20% stripped, about normal. Consistent fogs and high humidity delayed curing process some late cut tobacco. About 50% wheat, 67% oats, and 75% barley intended acreage seeded; about normal, but slightly behind 1972. September planted grains made rapid growth west, but slow emerging, growing most other areas.

TEXAS: Back-and-forth cold front caused thunderstorms and heavy rains central and east late week. West cooler, temperatures dropped into 30's several points Thursday morning. Heavy rains produced flash flooding from Austin to coastal bend. More thunderstorms Friday. Rain south over weekend spread northward Sunday night.

High Plains: Lettuce harvest continued light. Harvest of carrots, pumpkin, peppers and tomatoes continued active but hampered by rain some areas. Tomatoes harvested. Green chili peppers 70% harvested. Planting onions, lettuce for spring harvest near complete. **East Texas:** Sweet potato digging halted by rains at 67% complete major counties. **Coast:** Planting, harvesting at stand-

still due wet fields. **Winter Garden:** Rains hampered harvest of cucumber, squash, eggplant. **Lower Rio Grande Valley:** Rains halted planting and cultivation midweek. Fields up to stand are good. Citrus continues to size well. Rains limited harvest.

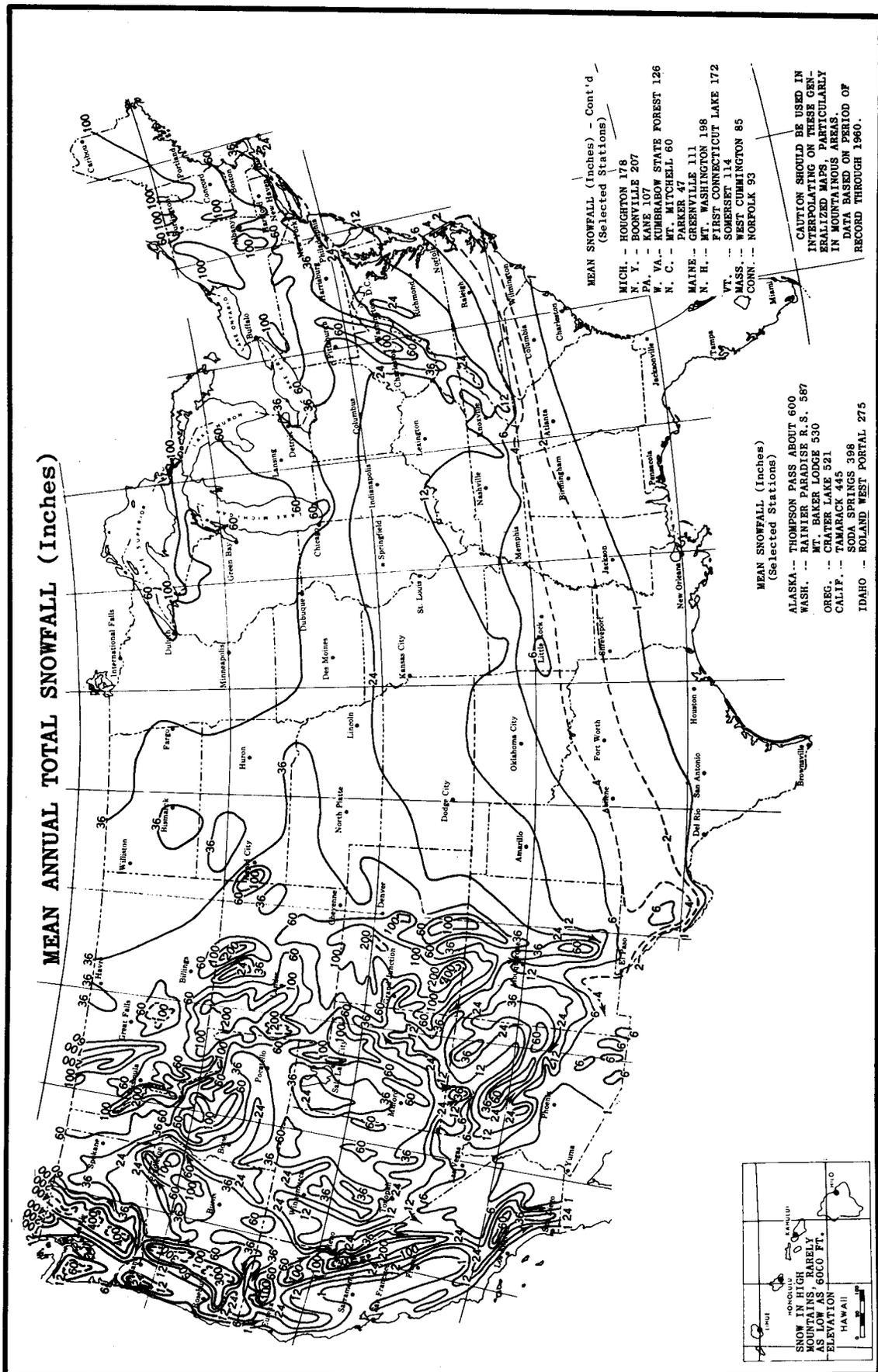
Moderate to heavy rain late week stopped planting, harvesting activity. Moisture on high plains helped wheat and oats, but stopped sorghum, corn harvest. Cotton harvest started southern high plains. Peanut harvest behind schedule but prospects good to excellent. Soybean harvest good progress high plains. Major crops percent planted: Wheat 80, 1972 84; oats 68, 1972 74. Major crops percent harvested: Cotton 15, 1972 31; corn; 77, 1972 90; sorghum 63, 1972 62; soybeans 11, 1972 19; peanuts 52, 1972 62; rice 93, 1972 100.

Ranges, pastures excellent. Wheat, oat fields made good growth, early stands provided limited grazing. Armyworms increased, some spraying. Livestock excellent, more new cases screwworms confirmed. Last cuttings alfalfa in Trans-Pecos area.

UTAH: Scattered precipitation many sections. Totals locally moderate to heavy. Temperatures 2° to 9° subnormal most stations. Sub-freezing minimums most localities. Excellent weather enabled farmers to make good progress harvesting and fall planting.

Harvest neared completion for third crop alfalfa hay, silage corn, potatoes, onions, and well along for sugar beets, dry beans, and apples. Winter wheat 90% seeded. Fall and winter range feed prospects 100% of normal, perhaps best ever. Movement of livestock to valley farms, fall and winter range

(Continued on page 14.)



WORLD WEATHER AND AGRICULTURE

WEATHER LOWERS WORLD COFFEE HARVEST

Inclement weather in several important coffee producing countries has contributed to prospects of a much lower world coffee harvest in 1973-74. Total production is now estimated to be 66.1 million bags (132.276 pounds each), with approximately 46.1 million bags available for export. Exportable production, as considered in this report, represents total harvested production less domestic consumption in producing countries.

Intense and continuing rains from late September to mid-October 1972, as well as frost damage, reduced Brazil's crop, while drought has plagued much of the equatorial belt over the past year. The 1973-74 coffee harvest of the Ivory Coast, Indonesia, Ethiopia, and Kenya have been particularly affected by the lack of rain. Partly offsetting those expected lower harvests, however, good growing conditions and higher yields are anticipated in Angola and Colombia.

DROUGHT AND FIRES LOWER TRINIDAD'S SUGAR OUTPUT

Trinidad's sugar production in calendar 1973 has been estimated at 183,738 long tons, down 19.5 percent from the previous year. A high incidence of unauthorized cane fires and a prolonged drought were responsible for the drop in output.

If recent rainfall is adequate, industry sources foresee a calendar year 1974 production of 220,000 long tons.

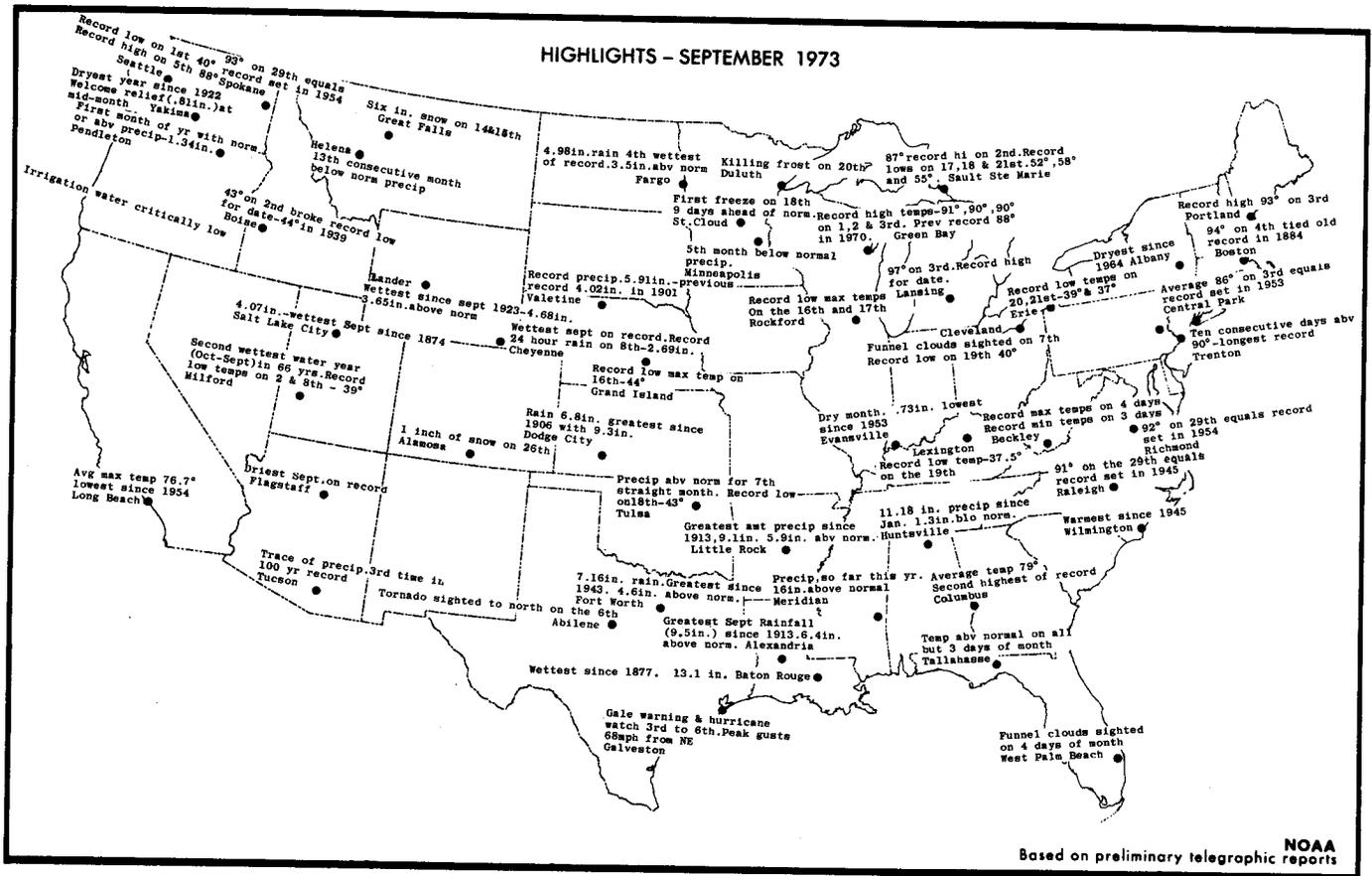
LATE RAINS MAY CUT NIGERIA'S PEANUT CROP

Nigeria's 1973-74 peanut crop got off to a shaky start because of a delay in the arrival of early rains. As a result, output (official marketings) is preliminarily estimated at 450,000 tons, some 90,000 tons less than last year's. (All weights are in long tons and values in U.S. dollars.)

Although 1973-74 producer prices for peanuts were increased to \$143.70 per ton, \$19.33 over the previous year's level, the boost was announced after many farmers had switched to food crops which offered a similarly high income.

Should the foodgrain harvest this fall be poor, however, farmers may retain larger than normal supplies of peanuts for their own consumption. And if current high prices of foodgrains continue past the harvest, this too will probably influence the amount of peanuts eaten as food.

Peanut plantings were made 2 to 3 weeks behind schedule because rains, which normally fall fairly steadily in May and June in some areas, were spotty during these months. Widespread precipitation was not received until the first week of July. As of mid-July peanuts were still being planted and in some areas were being replanted as those put down in June had been lost to the rain shortage.



(Continued from page 11.)

lands 55% complete for cattle, calves; 65% for sheep, lambs. Movement to slaughter, feeder markets lagging behind usual.

VIRGINIA: Scattered showers and thundershowers early week followed by several days pleasant fall weather and ending with a few showers Saturday night. Greatest daily precipitation 2.20 in. at Wise on 8th. Temperatures a few degrees above normal. Extremes: 82° and 40°.

Fieldwork averaged 4.8 days. Topsoil moisture mostly adequate. Corn for grain 47% harvested. Excellent peanut harvest progress--74% dug, 59% combined. Early variety soybean harvest continued. Heaviest weekly volume flue-cured marketed. Good progress small grain seeding--28% wheat sown. Sweet potato harvest active. Cabbage, cucumber, and snapbean harvest continued. Pastures improved. Livestock marketing active.

WASHINGTON: West: Temperatures 2° to 3° sub-normal. Precipitation 0.50 in. to 2.00 in. beginning and end of period. Snow above 5,000 ft. Harvest active lettuce, pumpkins, potatoes, carrots, Cauliflower, corn, near end. Small grain seeding continued. East: Temperatures 3° to 6° sub-normal. Most precipitation beginning period. Amounts to 0.80 in. Harvest active grapes, sugar beets, potatoes, spinach. Apples winding down. Mixed vegetable harvested. Fourth cutting alfalfa active. Planted small grains, plowed, fertilized. Soil moisture still short. Emerged fall grains good to poor condition, none excellent. Some soil crusting caused reseeding.

WEST VIRGINIA: Warm, mild week. Temperatures continued above normal. High 85° at Wayne, low 23° at Canaan Valley. Precipitation early week, mild remainder of week. Fieldwork possible 5 days. Farmers harvested corn for grain and silage and seeded small grains. Soil moisture 17% short, 81%

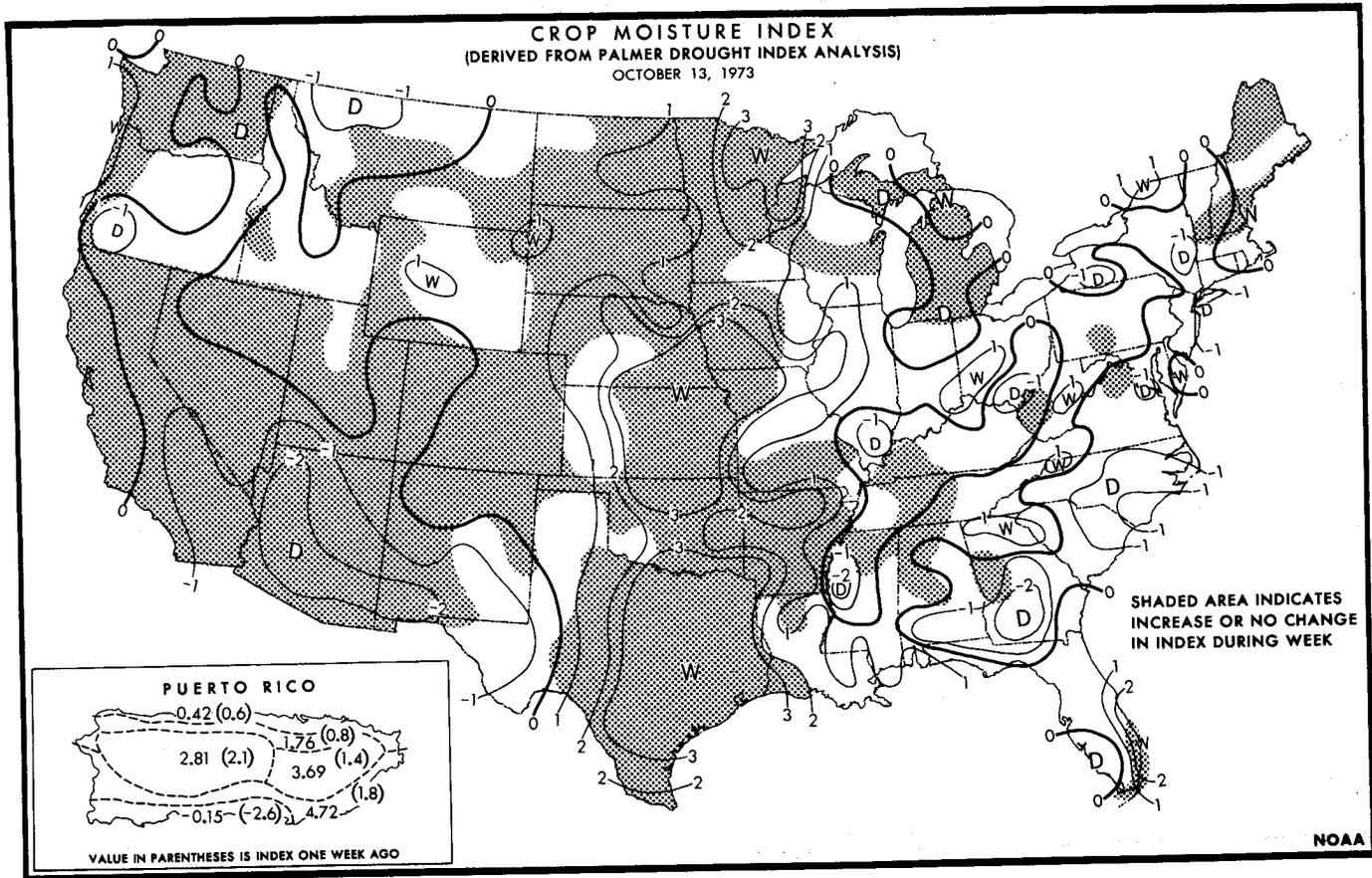
adequate, 2% surplus. Hay continued mostly good, third cutting 82% complete. Tobacco all harvested. Corn 12% dented, 88% mature, 43% harvested. Potatoes 94% dug. Wheat 54% and barley 73% sown.

WISCONSIN: Another mild, wet week. Temperatures 11° above normal. Evening temperatures quite mild until cooler 30's and 40's Sunday. Rainfall very heavy northwest, averaged 4.00 in. Lighter amounts elsewhere. Wet ground slowed fieldwork early week. Sunshine, strong winds provided excellent drying late week, weekend.

Silo filling 90% done, 1972 66%, normal 95%. Small start on grain corn harvest, mostly for immediate feeding. Corn for grain 5% harvested, 1972 1%, normal 5%. Corn moisture percent low 20's to upper 40's. Soybean harvest underway few farms. Pastures, new seedings continued good growth in warm, moist weather. Rye, winter wheat grew rapidly. A little green-chopping of hay done. Fall plowing 25% done, 1972 10%, normal 25%. Wet grounds slowed plowing some areas. More moisture preferred for plowing in few central and north-central counties. Potato digging well along. Dry weather will promote vegetable harvest south. Apple picking continued. Cranberry harvesting active. Excellent for outside work. Soil moisture 4% short, 52% adequate, 44% surplus.

WYOMING: A storm October 8 to 10 brought wide-spread precipitation mostly as snow. Heavy snow fell in wide band stretching from Wind River Mountains to northeast corner, 14 in. fell at Gillette and 11 in. at Lander. Warm weather preceded storm, highs in 30's and 40's during stormy period. Extremes: 82° at Colony, 15° at Big Piney.

Cold wet weather delayed harvest and fall activities. Harvest corn for grain began. Dry beans 75% harvested. Potatoes 55% dug. Sugar beets 30% harvested. Emergence of winter wheat nearly complete, good stands. Moving, shipping calves, lambs common.



SHADED AREAS: Index increased or did not change last week

Index

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

UNSHADED AREAS: Index decreased last week

Index

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

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

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

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

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

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

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