

Weekly Weather & Crop Bulletin

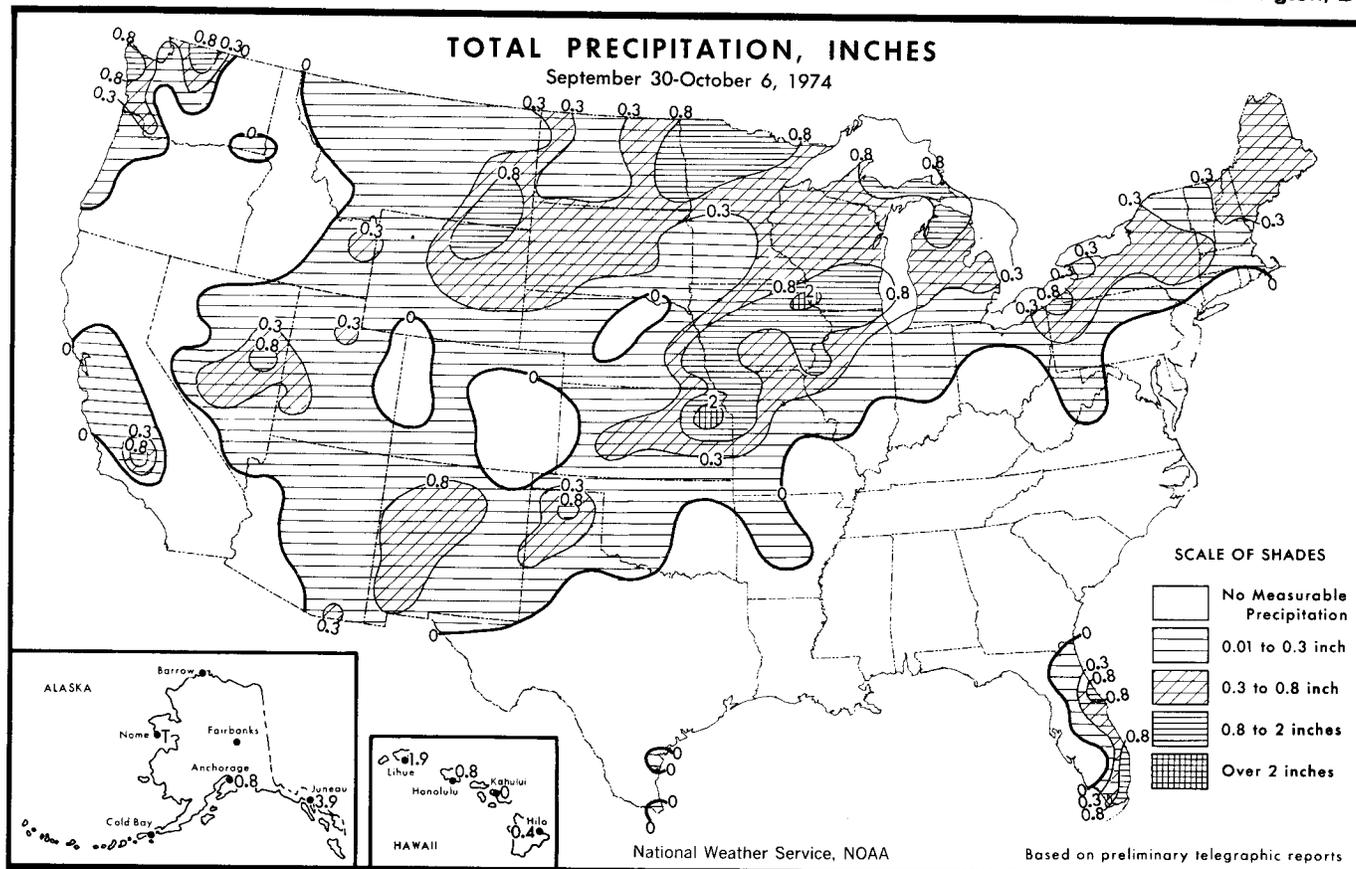
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NATIONAL WEATHER SUMMARY

For week of Sept. 30 through Oct. 6

HIGHLIGHTS: Cool Canadian air surged across the Nation for the second consecutive week. Average temperature for the week in most of the area east of the Mississippi River ranged from 10 to 15° below normal with the greatest departures in North Carolina and South Carolina. Columbia, S.C. averaged 15° below normal.

Only parts of the Southwest reported above normal temperatures for the week. Central California and Arizona reported temperatures ranging from 3 to 7° above normal.

Little or no precipitation was recorded last week in the Southeastern U.S. from Texas through Pennsylvania with the exception of Florida. A stationary Low in the Bahamas produced 1.00 to 2.00 in. of rain along the east coast of Florida.

In the northcentral U.S. cool air moving southward collided with warm moist air from the Gulf triggering scattered showers with rains totaling up to 2.00 in. in some areas. Other areas

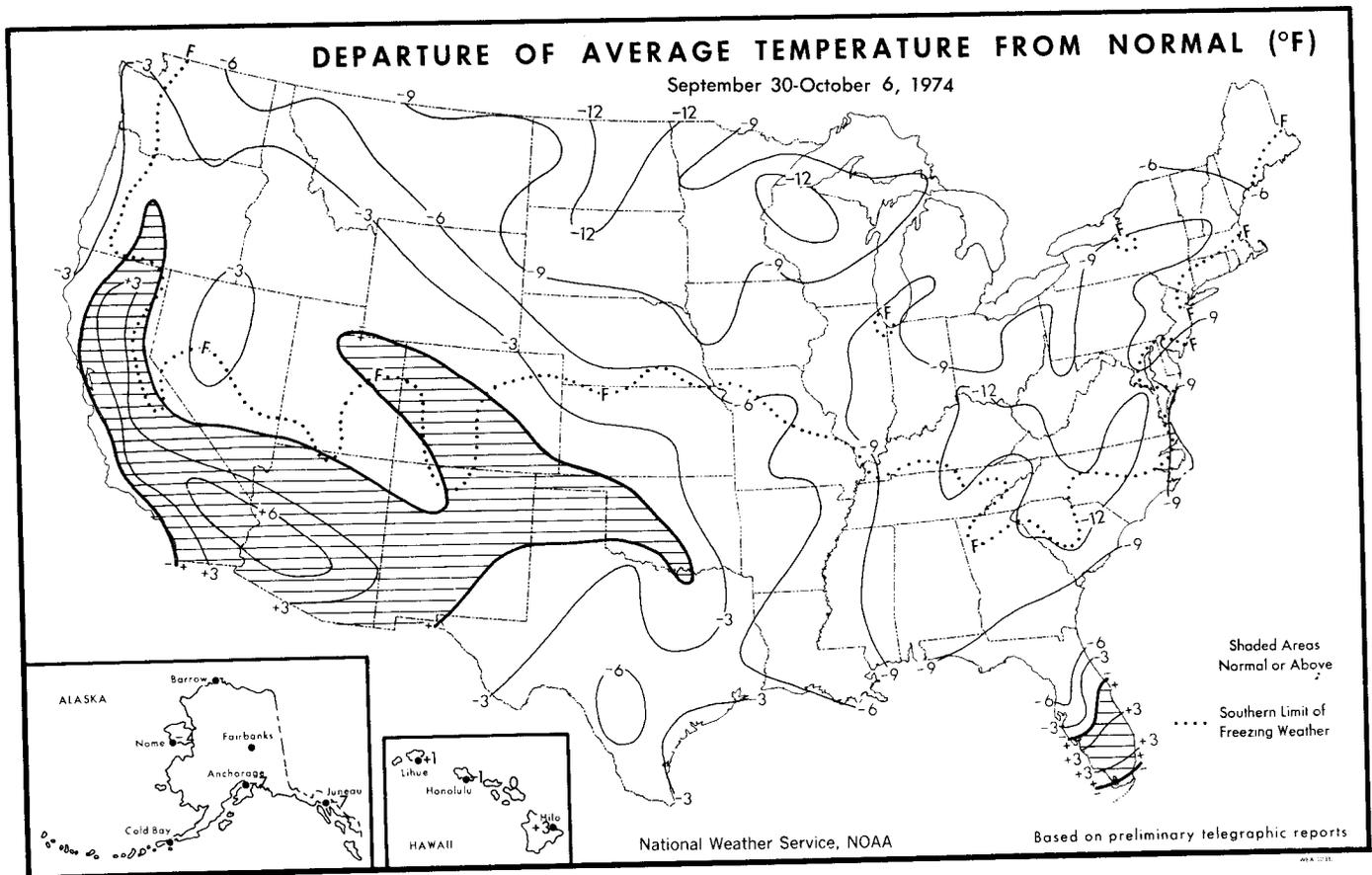
of the Midwest received only scattered light rain.

Elsewhere an inverted trough in Baja, California and Mexico triggered widely scattered showers in New Mexico, Arizona and central California. Bakersfield, Calif. reported 1.22 in. for the week.

PRECIPITATION: Monday, the 30th, precipitation was limited. With very few exceptions amounts were less than 0.25 in.

A weak weather system in the Great Lakes Region brought over 2.00 in. of snow over portions of the upper Michigan Peninsula on Tuesday. Later, a stationary front triggered scattered thundershowers across extreme southern Florida.

Wednesday, the 2d, in upper Michigan, 3.00 in. of snow accumulated at the Marquette Airport and 1.00 in. at Sault Sainte Marie. Akron, Ohio, reported the earliest measurable snowfall on record with 0.50 on the ground. A cold front brought scattered showers and thundershowers to the Pacific



Northwest and Central California.

Snow fell in the higher elevations of West Virginia, Pennsylvania and New York on Thursday. Syracuse, N.Y. measured an 1.00 in. of snow during the morning.

In the West, a cold front triggered showers and thunderstorms in the Plateau Region. Nearly 0.50 in. of rain fell at Las Vegas, Nev.

Friday, the 4th, a surge of cold air invaded the Central Plains. Ahead of the colder air scattered showers and thunderstorms spread from eastern Minnesota thru Northeast Missouri into Northeast Oklahoma.

Showers and thundershowers occurred Saturday evening from eastern South Dakota into Wisconsin and southward over Iowa and extreme northern Missouri.

Along and ahead of a cold front scattered thundershowers were triggered from southeast New Mexico into Kansas.

Sunday, the 6th, light showers and thundershowers occurred along the cold front that stretched from upper Michigan to the Oklahoma Panhandle.

TEMPERATURE: Most of the Nation experienced below normal temperatures last week. Many cities in the Eastern U.S. reported record low temperatures for this early in the fall.

Only the southern tip of Florida, southwestern U.S. and central California reported temperatures near normal or above.

Monday, the 30th, early morning temperatures dropped to a low of 12° at Bismarck, N.D. with temperatures below 30° over most of Nebraska, North and South Dakota. North Platte, Nebr. set a new record low with a reading of 22°.

On Tuesday the invading cold air sent temperatures plummeting into the 20's and 30's from the North and Central Plains to New England. Record lows included: St. Cloud, Minn. 22°; Sioux Falls, S.D., 23°; Omaha, Nebr. 29°; Cincinnati, Ohio, 34°; and Providence, R.I. 34°.

Wednesday, the 2d, a massive high pressure marked the center of the cold air and brought record cold to the upper Midwest. A wintery cold 11° froze St. Cloud, Minn. and Houghton Lake, Michigan. Nearly all the stations in Iowa set records with temperatures in the teens and 20's.

The large high pressure area centered over the Ohio Valley pumped cold air into the eastern U.S. and whipped high winds across the Plains on Thursday. Atlantic City, N.J.; Richmond, Va.; Charleston, W.Va. and Louisville, Ky. all reported temperatures 32° or colder. Record low temperatures were recorded at many eastern cities.

Friday, the 4th, record-breaking cold temperatures were recorded from New York State to central Florida. Midday temperatures held in the thirties and forties across a large section of the Nation east of the Mississippi River and from Canada to the Gulf.

Unseasonably cool temperatures were reported in the eastern U.S. again on Saturday. Record lows were set at Tampa, Fla., 58°; Macon, Ga., 37°; Wilmington, N.C., 39°; Atlanta, Ga., 42°; Raleigh, N.C., 32°; Augusta, Ga., 41° and Mobile, Ala., 47°.

Sunday, the 6th, morning temperatures in the eastern U.S. except for Florida were mostly in the 40's, while a few spots in the Appalachians dipped into the 30's.

NATIONAL AGRICULTURAL SUMMARY

For the Week of September 30-October 6

HIGHLIGHTS: Subnormal temperatures accompanied by frost ended the growing season in most Northern States and "nipped" row crops as far South as Arkansas, Tennessee, northern Georgia and South Carolina. Damage varied from moderate to heavy. Harvest of most field crops advanced sharply as excellent drying conditions prevailed. Seeding of winter grains was curtailed in many areas and rain is needed for good germination.

SMALL GRAIN: Continued dry weather in the Northern Plains enabled farmers to virtually wind up the 1974 small grain harvest. The durum harvest in North Dakota at 95% complete, was moving along at a near normal pace.

Winter wheat seeding made excellent gains, but trails the 1973 progress in the major winter wheat States except Kansas and Oklahoma. Wet field conditions slowed seeding in Texas while farmers in many other States were concerned about the dry conditions which prevail for germination.

Winter wheat seeding in Kansas was 80% complete versus only 35% in 1973 and the normal 75%. Many growers in Oregon are waiting for rain before seeding their 1975 crop.

CORN: Subnormal temperatures plagued much of the Nation, bringing along "Jack Frost" to most Northern States and reaching as far South as northern Georgia and parts of South Carolina. Frost killed the remaining crop acreage in the Southern Corn Belt States that had survived earlier freezes. Moderate to heavy freeze damage occurred in Kentucky and Tennessee depending on the stage of maturity.

Good drying weather enabled farmers to make excellent harvesting progress and 10% of the acreage in the Corn Belt has been harvested, still slightly behind normal. Corn harvest reached 5% in Indiana and Iowa, up to 20% in Nebraska, 21% in Missouri and 25% in Kansas.

Harvest in the South Central States moved past the quarter mark, much behind the 1973 pace in many States.

COTTON: Cotton harvest gained momentum as drier conditions prevailed in most Southern States, however wet field conditions limited harvest in Texas. Progress in the South Atlantic States lags 1973.

Harvest completion stands at 3% in Tennessee, 4% in Missouri, 6% in Mississippi, 8% North Carolina, 10% in Alabama, Arkansas and Louisiana, 12% in South Carolina, 19% in Georgia and 22% in Texas.

Possible frost damage occurred in Georgia and South Carolina. Subnormal temperatures continued to slow maturity over most of the major cotton producing area and the crop was 2 weeks behind in Tennessee. Boll rot is still a serious problem in Georgia and Louisiana.

California defoliation is in progress and harvest is increasing. Harvest was in full swing in central and western Arizona, while in New Mexico 50% of the cotton bolls were open and harvest was limited.

SOYBEANS: Heavy frost over most of the northern soybean States ended all growth in many fields previously only nipped by freezes. Frost damage occurred in many areas as far south as Arkansas, Tennessee, northern Georgia and South Carolina. Late planted and maturing varieties were hit the hardest.

Harvest conditions were excellent under dry weather throughout much of the major soybean area until late in the week. Harvesting progress advanced to 23% complete in the Corn Belt States versus the normal 26%. Harvest ranged from very little in Michigan and Wisconsin to 71% done in Minnesota and 80% complete in South Dakota. Soybeans in Illinois were 15% combined versus the normal 35%, while Iowa farmers were 30% finished against the normal 27%.

In the South Atlantic region, soybean harvest was light. Combining increased in the South Central region although progress is behind normal. Harvesting in Mississippi was 6% done versus the normal 13%.

OTHER CROPS: Little progress was made in the sorghum harvest in Texas due to wet fields. Harvest in Kansas was 10% complete, compared with 5% in 1973 and the average 20%. Both the Kansas and Nebraska sorghum crops are less mature than normal.

Tobacco suffered freeze damage in Kentucky, Tennessee, Virginia, and West Virginia. Burley tobacco was 97% harvested in North Carolina, ahead of last year's pace.

Peanut digging was 92% done and 83% threshed in Georgia, 33% harvested in Texas and 24% dug in North Carolina. Harvest was complete on many farms in Alabama.

Potato digging peaked in southwest and south central Idaho and continued active east where it was 33% complete. Harvest in Aroostook County, Maine was 50% done. Digging is nearing the end in Wisconsin and about 60% dug in North Dakota and Minnesota.

FRUITS AND NUTS: Apple harvest was in full swing in many orchards throughout the Northeast, Michigan and Wisconsin. McIntosh harvest ending in New England States and the Hudson Valley in New York. Frost caused some damage to vineyards in the Finger Lakes area. Winter harvest was active in California, late table grape harvest continues, Tokays were approaching the halfway point and Thompson seedless were mostly boxed and delivered.

Citrus crops were sizing well in California, Texas and Florida. Pecan harvest was in full swing in South Texas, but limited in the Central area.

VEGETABLES: Frost finished all tender vegetables in Upstate New York and Michigan. Harvest of beets, carrots and cabbage continued in Wisconsin, while cabbage, carrot, cauliflower, onions and celery harvests were active in Michigan.

Planting fall vegetables resumed on a limited scale in the Lower Valley of Texas. Fall tomatoes and spinach were developing well in the San Antonio Winter Garden area. Harvest of sweet corn, radishes, squash, eggplant and cucumbers were increasing in Florida. Vegetable harvest continues heavy in California.

PASTURES AND LIVESTOCK: Frost and cold weather slowed pasture growth over much of the Nation. Pasture conditions continue to improve in Texas, Arizona and New Mexico. Winter range feed in Utah is the worst of recent years. Ranges are dry in Oregon, high fire hazards. Livestock continue to move off summer ranges to winter pasture.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Oct. 6, 1974

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 . . .	54	-14	0	-.7	La. Baton Rouge . . .	66	-7	0	-.7	Youngstown . . .	47	-10	.4	-.2
Mobile . . .	62	-10	0	-.9	Lake Charles . . .	68	-6	0	-.9	OKLA. Okla. City . . .	67	0	.2	-.5
Montgomery . . .	60	-10	0	-.7	New Orleans . . .	66	-8	0	-.8	Tulsa . . .	64	-4	T	-.9
ALASKA, Anchorage . . .	33	-7	.8	+.4	Shreveport . . .	66	-6	0	-.7	OREG. Astoria . . .	52	-3	.1	-1.0
Barrow . . .	---	---	---	---	MAINE, Caribou . . .	45	-3	.5	-.3	Burns . . .	51	-1	0	-.1
Fairbanks . . .	---	---	---	---	Portland . . .	47	-6	.5	-.2	Medford . . .	56	-2	0	-.3
Juneau . . .	38	-7	3.9	+2.1	MD, Baltimore . . .	54	-8	T	-.6	Pendleton . . .	55	-3	T	-.2
Kodiak . . .	---	---	---	---	MASS, Boston . . .	52	-7	T	-.6	Portland . . .	57	-1	.2	-.4
Nome . . .	29	-4	T	-.4	Chatham . . .	54	---	.1	---	Salem . . .	54	-3	T	-.6
ARIZ, Flagstaff . . .	53	+2	.1	-.3	MICH, Alpena . . .	43	-8	.7	+.2	PA, Allentown . . .	50	-9	T	-.7
Phoenix . . .	84	+7	.2	+.1	Detroit . . .	49	-9	.2	-.3	Erie . . .	48	-8	1.0	+.2
Tucson . . .	77	+3	.1	-.1	Flint . . .	48	-8	.5	0	Harrisburg . . .	50	-10	T	-.6
Winslow . . .	63	+1	T	-.2	Grand Rapids . . .	47	-10	.3	-.4	Philadelphia . . .	54	-8	T	-.6
Yuma . . .	84	+4	0	0	Houghton Lake . . .	44	-8	.9	+.2	Pittsburgh . . .	50	-8	T	-.6
ARK, Fort Smith . . .	63	-5	T	-.8	Lansing . . .	48	-8	.1	-.5	Scranton . . .	49	-8	T	-.6
Little Rock . . .	62	-5	T	-.7	Marquette . . .	44	-9	1.0	+.4	R. I. Providence . . .	50	-8	T	-.7
CALIF, Bakersfield . . .	75	+4	1.2	+1.2	Muskegon . . .	48	-8	.7	0	S. C. Charleston . . .	61	-9	0	-.9
Eureka . . .	52	-3	0	-.4	S. Ste. Marie . . .	41	-9	.8	+.1	Columbia . . .	54	-15	0	-.7
Fresno . . .	70	+2	.2	+.1	MINN, Duluth . . .	38	-12	.5	-.1	Greenville . . .	53	-13	0	-.8
Los Angeles . . .	69	-1	0	0	Internat'l Falls . . .	39	-9	1.4	+.9	S. D. Aberdeen . . .	42	-11	.3	-.1
Red Bluff . . .	72	+3	0	-.1	Minneapolis . . .	45	-10	.3	-.2	Huron . . .	44	-11	.4	0
San Diego . . .	68	0	0	0	Rochester . . .	45	-9	.4	-.1	Rapid City . . .	45	-10	.5	+.3
San Francisco . . .	63	0	.1	0	St. Cloud . . .	42	-11	.3	-.2	Sioux Falls . . .	45	-10	T	-.5
Stockton . . .	71	+4	T	-.1	MISS, Jackson . . .	62	-8	0	-.5	TENN, Chattanooga . . .	55	-11	0	-.7
COLO, Denver . . .	56	0	T	-.3	Meridian . . .	57	-12	0	-.6	Knoxville . . .	55	-11	0	-.6
Grand Junction . . .	60	0	T	-.2	MO, Columbia . . .	54	-5	.1	-.9	Memphis . . .	60	-8	T	-.6
Pueblo . . .	60	+1	T	-.2	Kansas City . . .	57	-6	.9	0	Nashville . . .	55	-11	0	-.5
CONN, Bridgeport . . .	53	-8	T	-.6	St. Louis . . .	56	-8	.1	-.5	TEX, Abilene . . .	67	-3	0	-.6
Hartford . . .	49	-7	T	-.7	Springfield . . .	58	-6	.1	-.8	Amarillo . . .	65	+1	.3	-.2
D. C. Washington . . .	55	-9	T	-.6	MONT, Billings . . .	48	-6	.1	-.2	Austin . . .	69	-5	0	-.8
FLA, Apalachicola . . .	67	-7	0	-1.2	Glasgow . . .	45	-7	.1	0	Beaumont . . .	69	-5	0	-1.0
Daytona Beach . . .	74	-2	.9	-.6	Great Falls . . .	46	-6	.2	0	Brownsville . . .	74	-4	.1	-1.0
Ft. Myers . . .	84	+5	T	-1.5	Havre . . .	43	-9	.1	-.1	Corpus Christi . . .	75	-2	T	-.9
Jacksonville . . .	66	-8	.1	-1.3	Helena . . .	44	-6	.1	-.1	Del Rio . . .	71	-4	0	-.7
Key West . . .	80	-1	1.0	-.6	Kalispell . . .	42	-5	.1	-.1	El Paso . . .	69	0	T	-.2
Lakeland . . .	71	-6	T	-1.0	Miles City . . .	47	-7	.8	+.6	Fort Worth . . .	72	0	T	-.9
Miami . . .	80	0	1.7	-.5	Missoula . . .	46	-3	.1	-.1	Galveston . . .	75	-2	0	-.7
Orlando . . .	75	-2	.4	-.9	NEBR, Grand Island . . .	51	-8	T	-.4	Houston . . .	70	-5	0	-1.0
Tallahassee . . .	65	-8	0	-1.0	Lincoln . . .	54	-6	.9	+.4	Lubbock . . .	64	-1	T	-.6
Tampa . . .	73	-4	T	-.9	Norfolk . . .	49	-8	.1	-.3	Midland . . .	67	-3	T	-.4
W. Palm Beach . . .	83	+4	1.9	-.5	N. Platte . . .	50	-6	T	-.3	San Angelo . . .	68	-3	0	-.6
GA, Atlanta . . .	58	-8	0	-.6	Omaha . . .	50	-9	1.1	+.6	San Antonio . . .	68	-7	T	-.8
Augusta . . .	58	-10	0	-.6	Valentine . . .	47	-8	.1	-.2	Victoria . . .	73	-3	0	-1.0
Macon . . .	60	-6	0	-.6	NEV, Ely . . .	49	-2	.9	+.8	Waco . . .	71	-2	0	-.7
Savannah . . .	62	-9	0	-.9	Las Vegas . . .	75	+2	.2	+.2	Wichita Falls . . .	68	-3	T	-.7
HAWAII, Hilo . . .	78	+3	.4	-1.6	Reno . . .	53	-1	T	-.1	UTAH, Blanding . . .	56	-1	T	-.3
Honolulu . . .	79	-1	.8	+.6	Winnemucca . . .	50	-3	T	-.1	Salt Lake City . . .	58	0	.3	+.1
Kahului . . .	78	0	0	-.1	N. H. Concord . . .	45	-8	.2	-.4	VT, Burlington . . .	46	-7	.2	-.4
Lihue . . .	79	+1	1.9	+1.3	N. J. Atlantic City . . .	51	-10	T	-.7	VA, Lynchburg . . .	51	-11	0	-.6
IDAHO, Boise . . .	54	-2	0	-.1	Trenton . . .	54	-7	T	-.6	Norfolk . . .	57	-9	.1	-.7
Lewiston . . .	54	-2	T	-.2	N. MEX, Albuquerque . . .	64	0	.5	+.3	Richmond . . .	52	-12	T	-.7
Pocatello . . .	51	-2	.1	0	Roswell . . .	63	-1	.1	-.3	Roanoke . . .	51	-11	0	-.8
ILL, Cairo . . .	59	-7	0	-.6	N. Y. Albany . . .	46	-10	.6	-.1	WASH, Colville . . .	45	-7	0	-.2
Chicago . . .	51	-9	.1	-.5	Binghamton . . .	45	-10	.2	-.5	Omak . . .	49	-4	0	-.1
Moline . . .	51	-8	.6	-.2	Buffalo . . .	49	-7	.3	-.4	Quillayute . . .	51	-3	.9	-1.2
Peoria . . .	51	-9	.2	-.5	New York . . .	56	-6	T	-.6	Seattle-Tacoma . . .	54	-1	T	-.7
Rockford . . .	51	-7	.9	+.1	Rochester . . .	48	-9	.5	-.1	Spokane . . .	47	-6	T	-.2
Springfield . . .	53	-9	.1	-.7	Syracuse . . .	48	-9	.7	+.1	Walla Walla . . .	56	-3	T	-.3
IND, Evansville . . .	53	-10	T	-.6	N. C. Asheville . . .	51	-10	0	-.8	Yakima . . .	52	-3	0	-.1
Ft. Wayne . . .	50	-8	.1	-.5	Charlotte . . .	53	-13	0	-.7	W. Va. Beckley . . .	46	-11	0	-.6
Indianapolis . . .	50	-11	T	-.6	Greensboro . . .	53	-11	0	-.7	Charleston . . .	50	-12	0	-.6
South Bend . . .	52	-6	.1	-.6	Hatteras . . .	61	-8	0	-1.2	Huntington . . .	50	-12	0	-.5
IOWA, Burlington . . .	52	-8	1.0	+.2	Raleigh . . .	52	-13	0	-.7	Parkersburg . . .	50	-11	T	-.5
Des Moines . . .	51	-8	.5	-.1	Wilmington . . .	59	-10	0	-1.0	WIS, Green Bay . . .	44	-10	.5	-.1
Dubuque . . .	48	-8	1.5	+.7	N. DAK, Bismarck . . .	40	-12	.2	0	La Crosse . . .	47	-10	.4	-.2
Sioux City . . .	49	-9	.1	-.4	Fargo . . .	43	-9	1.3	+1.0	Madison . . .	49	-6	1.3	+.8
KANS, Concordia . . .	58	-4	.2	-.4	Williston . . .	43	-8	.3	+.1	Milwaukee . . .	49	-7	.9	+.4
Dodge City . . .	62	-1	.3	-.1	OHIO, Akron-Canton . . .	48	-10	.2	-.4	WYO, Casper . . .	48	-5	.4	+.2
Goodland . . .	54	-4	T	-.3	Cincinnati . . .	50	-12	T	-.5	Cheyenne . . .	50	-2	T	-.2
Topeka . . .	58	-4	2.0	+1.3	Cleveland . . .	50	-8	.2	-.4	Lander . . .	50	-2	.2	-.1
Wichita . . .	63	-2	.2	-.5	Columbus . . .	51	-8	T	-.4	Sheridan . . .	46	-6	.9	+.6
KY, Lexington . . .	50	-13	0	-.5	Dayton . . .	51	-9	T	-.4	P. R. San Juan . . .	83	+2	.2	-.1
Louisville . . .	52	-11	0	-.6	Toledo . . .	50	-8	.1	-.4					

Based on 1941 - 70 normals

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: Sunny, dry entire week. Frost common northern valleys through midweek. Record lows 3d: 31° Pinson, 34° Huntsville, 35° Birmingham. Record lows 4th extended into southern sections. Statewide temperatures averaged 10° below normal.

Farmers made good progress harvesting row crops. Cotton 50% open. Defoliation and harvest gained momentum, most counties have begun harvest. Harvest about 10% complete, slightly ahead of 1973. Corn harvest made good advancement north, central and gained prominence south as farmers finished digging peanuts. Statewide, harvest 33% complete, 28% 1973. Soybeans 47% mature, 10% harvested. Harvest more advanced southern half. Peanut harvest complete many farms. Through October 4th, 165,275 tons inspected. Much good quality hay saved.

ARIZONA: Temperatures near normal. Precipitation widespread except western areas.

Cotton good condition, harvest full swing central, western areas. Harvest grain sorghum continued west, started central. Spring sugarbeet crop good stands central, west. Fall sugarbeets good progress. Harvest alfalfa hay seasonal progress. Lettuce central, west good progress. Approximately 2500 acres lost Yuma County due rains. Cabbage, broccoli good progress. Harvest fall cantaloups Yuma. Lemon harvest Salt River Valley, Yuma. Rain improved water supplies, especially east. Except southwestern desert, northeast, livestock fair to good. Range browse, pastures average.

ARKANSAS: Cool week with temperatures 4° below normal west central to 11° below. Extremes: 85° Hot Springs and Judsonia; 32° Corning. Rainfall light, only 10 stations 0.10 in. or more; fifteen stations no measurable rain.

All crop conditions improved. Harvest of cotton and soybeans commenced. Warm, dry weather needed. Soil moisture adequate. Picking cotton limited to a few bales, less than 10% harvested, 40% open bolls. Rice harvest progressed rapidly with nearly 50% crop cut. Soybean harvest limited mostly to southeast. Frost reported but only very moderate damage. Preparation and planting of winter wheat and oats, few fields to stand. Corn and sorghum harvest continued. Cutting of hay active, curing hampered somewhat. Pastures adequate to surplus. Calves gaining weight, some culling.

CALIFORNIA: Scattered showers, thundershowers 1st, through 4th. Fair weather, otherwise, except night and morning low cloudiness most coastal areas. Highs to 90's Central Valley, Inland Coastal Valleys by midperiod, over 100° southeast interior, cooling trend by end of period. Averages near normal along coast, northeast interior, above normal elsewhere.

Plantings small grains continue. Early rice harvested, later varieties in progress. Milo, corn harvest underway, safflower increasing. Cotton defoliation in progress, harvest increasing. Alfalfa still cut for hay and green chopped. Sugarbeet lifting moves ahead.

Wine grape harvest active, sugar variable some areas, improving as season progresses. Late table grape harvest continues, Tokays approaching halfway point. Thompson seedless raisins mostly boxed,

delivered. Dehydrators active, continue as weather allows. Almond harvest nearing end, moving to later hard-shelled varieties. Walnut shaking increasing. Apple harvest increasing, all varieties now meet maturity standards. Olive harvest increasing San Joaquin Valley. Pomegranate harvest underway. Avocado harvest normal, lemon harvest seasonally light. Navel oranges sizing well, color beginning, some split fruit San Bernardino County.

Broccoli, cauliflower heavy Salinas, brussels sprouts normal level. Cantaloup winding up west-side, fall harvest beginning Imperial. Carrot digging moderate, celery cutting heavy Salinas, Santa Maria, lettuce slowing. Bell pepper continues. Fall potato underway, sweetpotato full swing. Picking market tomatoes continues, canning tomato declining.

Movement cattle mountain pastures to winter rangelands increasing. Early calving continuing, sheep moved to cantaloup fields. Movement cattle to market slow.

COLORADO: Mountains and parts of western lower elevations light to moderate precipitation, 0.10 to 0.25 in. heaviest 0.35 in. Pagosa Springs and 0.30 in. Craig. Temperatures averaged 2 to 5° below normal central and northern mountains, elsewhere near normal; 90's southeast on 3d. Freezing temperatures parts of State several mornings but no statewide hard freeze.

Corn grain 17% harvested compared 2% 5-year average, 91% frost safe. Corn silage 94% chopped. Sorghum grain 4% combined, 49% ripe, 89% turning color. Sugarbeets 2% harvested, remainder excellent condition. Dry beans 95% cut, 78% threshed. Fall potato harvest 60% complete. Alfalfa 3d cutting 90% harvested. Apple harvest underway major area. Winter wheat 90% seeded, 59% emerged. Winter barley 95% seeded, 62% emerged. Poor stands some fields due dry soil. Livestock continue move from mountain ranges to winter pastures.

FLORIDA: Much cooler throughout the period. Temperatures below normal north to near normal extreme south. Rainfall generally light except heavy inland from east coast. Strong, gusty northeasterly winds most of period.

Soil moisture adequate, except a few dry areas west, excessive upper east coast. Corn and peanut harvest active, nearing completion some areas. Harvest underway soybeans and cotton. Land preparation active for small grains and winter forage. Seeding of small grains underway. Pastures fair to good. Cattle and calves good condition, citrus tree and crop condition excellent. Moisture adequate, fruit growth excellent, some fruit splitting, harvest increasing. Fall vegetable crops fair to good, some damage to young plants from strong, gusty winds late week. Sweet corn and radishes increasing in volume from Everglades. Supplies of squash, eggplant and cucumbers increasing, mostly for local markets north. Pole beans moving from Gadsden area. Vegetable supplies increasing as more crops reach maturity.

GEORGIA: Temperatures averaged 5 to 7° below normal, Record lows Oct. 3d, 4th, 5th and frost damage to warm weather crops north. Rainfall beginning of period, then dry. Heaviest in south-

east with average rainfall 0.50 in. or less most sections. Fair weekend.

Soil moisture highly variable, very short to adequate north, mostly adequate south. Harvest active as good harvest conditions prevailed. Cotton fair to good, 19% harvested, boll rot still problem. Possible frost damage north. Corn mostly good, 41% harvested. Soybeans mostly good, condition declined, frost damage probable for late crop. Insects still troublesome. Peanuts fair to mostly good, 92% dug, 83% threshed, good yields. Pecans fair to good. Cattle good, pastures mostly good, getting dry. Hay harvest active, quality off.

HAWAII: Weather generally favorable.

Crop progress improved with beneficial showers except the sugar crop and pastures in northern tip of Island of Hawaii. Adequate supply of vegetables. Production of bananas seasonal high. Production of papayas maintaining high level. Pastures at higher elevations in fair to good condition. Most pastures at low elevations dry. Condition of cattle fair to good. Sugar and pineapple operations normal.

IDAHO: Indian summer weather with warm dry days and cool nights until midweek. Cold front causing gusty winds and 20 to 30° drop in temperatures. Temperatures averaged in 50's, near normal. Light rain northeast, 0.25 in. of precipitation, southwest had no rain. September was abnormally dry.

Dry weather continues to delay seeding of fall grain crops in dryland farming areas. Some seeding in dust, with timely rains needed for germination and early growth. Fall wheat ranges 25% seeded dryland north to 66% irrigated southwest. Potato digging reached peak activity southwest and south central with 50% harvest, active east at 33% complete. Dry beans 95% swathed, 85% threshed main producing southwest and south central. Cooler weather improved color late apple crop.

ILLINOIS: Temperatures 7 to 10° below normal. Scattered showers beginning of week, rainfall less than 0.25 in. to over 2.00 in.

Corn 80% mature, safe from frost, 1973 and average 95%, 10% harvested same as 1973, average 13%. Soybeans 95% turning yellow, 75% shedding leaves, 1973 and normal 95%, 15% harvested, 20% 1973, average 35%. Seeding winter wheat 30% complete, 40% 1973, average 43%. Pastures mostly fair to good condition, declined due to freezing temperatures. Soil moisture 36% short, 55% adequate, 9% surplus. Fieldwork: 6 days suitable.

INDIANA: Freezing temperatures October 2d and 3d ended growing season; minimums in high 20's. Winds prolonged freezing. Growing degree days for season 100 to 300 below normal. Precipitation past week 0.50 in. north and central, very little elsewhere.

Fieldwork averaged 5 days. Topsoil and subsoil moisture mostly adequate. Corn 60% mature, 75% in 1973, 10 days behind average. Corn 5% harvested, 10% in 1973 and average. Soybeans 10% combined, 20% in 1973 and 25% average. Plowing for 1975 crop winter wheat 70% complete, 85% in 1973. Wheat 20% seeded, 55% in 1973, 40% average. Tobacco 85% cut, same as 1973. Silos 60% filled, 80% in 1973. Pastures declined, mostly fair.

IOWA: Temperatures averaged 8° below normal. Entire State had record breaking low with freeze which stopped growing season on 2d. Sunny week but weekend rains above normal east for first time in 6 to 8 weeks, however still below west. Rain, 2 in. in Buchanan, Delaware and Clay Counties.

Frost October 1st, 2d, ended crop growth. Fieldwork: 6.4 days suitable 1968-72 average 5.0. Soybean har-

vest full swing, corn harvest beginning. Immature fields causing larger than normal silage cutting and use of soybeans for hay. Corn for grain, 5% harvested, average 11%. Soybeans harvested 30%, average 27%. Grain sorghum and popcorn harvest just beginning, about 10% complete. Winter wheat 60% seeded. Topsoil moisture 56% short, 44% adequate.

KANSAS: Temperatures slightly above normal southwest; below normal elsewhere, ranging to 5° below normal northeast. Precipitation portions east and south last of week generally 0.50 in. to over 2.00 in.

Wheat seeding neared completion northwest, favorable progress elsewhere. Wheat 80% seeded, 35% 1973, 75% average. Stands uneven many areas due dry topsoil, scattered weekend rains central, east should improve stands but west remains dry. Fall row crops maturing with harvest active. Grain sorghum 45% mature, 55% 1973, 10% harvested, less than 5% 1973 and 20% average. Corn grain 90% matured, 85% 1973, 90% average, harvest 25% complete, 10% 1973, 25% average. Soybeans 5% harvested, 5% 1973, 20% average. Sugarbeet digging started west, making favorable progress. Dry bean harvest active. Fall pastures short west. Some livestock receiving supplemental feed.

KENTUCKY: Unseasonably cold weather, low temperatures in 20's and 30's much of week. Warmer with highs in 70's by weekend. No precipitation.

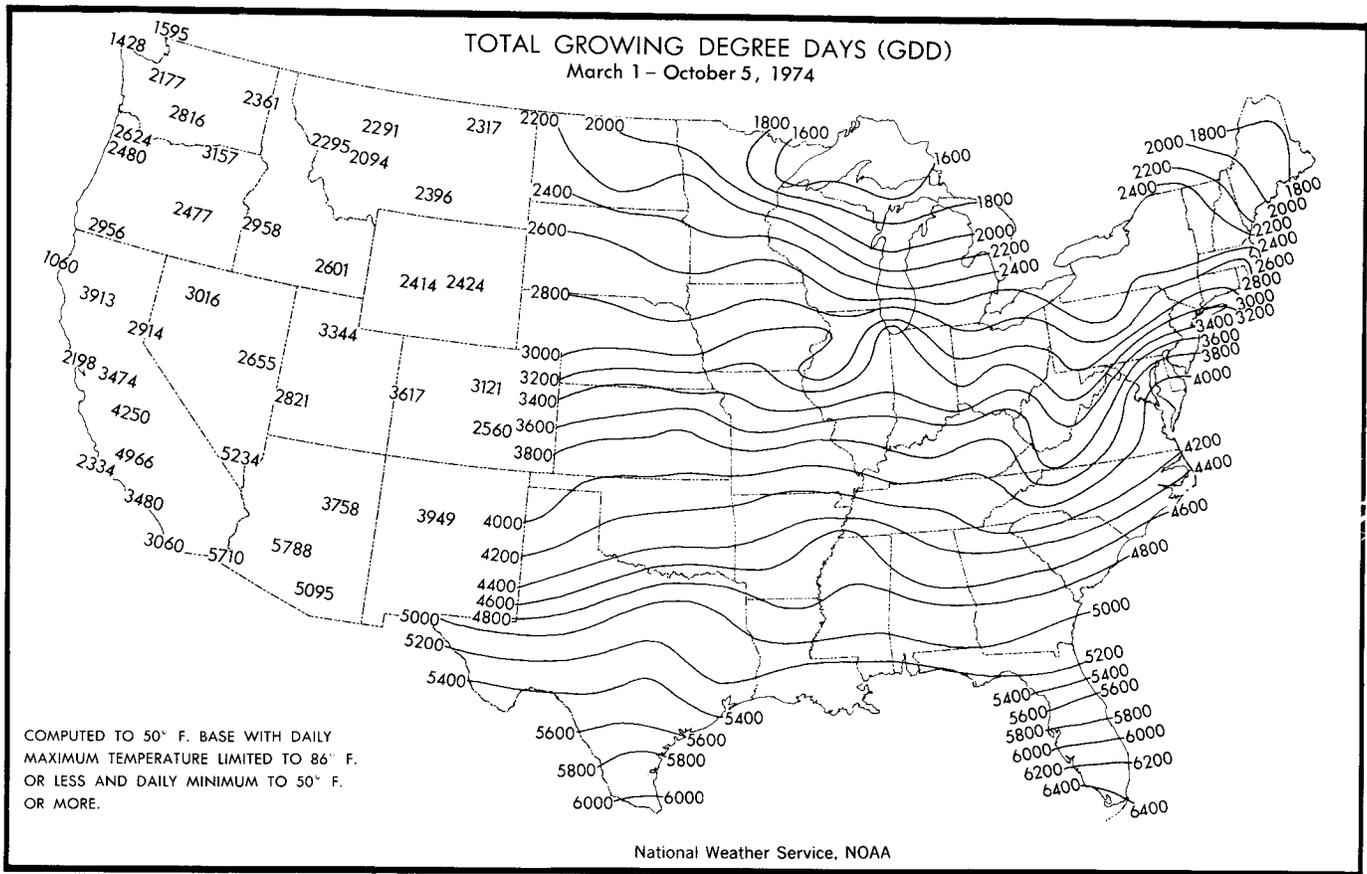
Fieldwork: 6 days favorable. Soil moisture generally adequate. Tobacco cutting continues, 6% still in field. Moderate to heavy freeze damage to unhusked tobacco, possibly 10% of total crop. Corn harvest 11% complete, 1973 19%. Freeze damage limited to a few late planted fields. Good early crop yields. Soybean harvest 7% complete, 15% 1973. Leaves entirely green on 33% acreage, freeze damage heavy some areas, especially double-cropped fields. Early and midseason beans yielding well above average. Fall wheat 14% seeded. Pastures remain excellent.

LOUISIANA: Cool and dry. Temperatures averaged 6 to 8° subnormal. Extremes: 89° Carville, 40° Tallulah. No rainfall.

Fieldwork good progress, 6.1 days suitable. Soil moisture mostly adequate. Haying, fall seeding, harvest of cotton, soybeans, and sweetpotatoes main activities. Cotton fair, boll rot serious problem, about 70% open, 45% 1973 and 74% 1972, nearly 10% harvested. Soybeans 15% harvested, 1973 8%. Good yields. Rice 60% harvested in north, statewide, 97%, 89% 1973 and 1972. Corn and sorghum harvest 80% complete. Sugarcane prospects improved, planting active, nearing completion. Sweetpotatoes 75% dug, yield and quality mostly fair.

MARYLAND AND DELAWARE: Temperatures 5 to 8° below normal. Killing frosts nearly all areas 3d and 4th. Highs upper 70's to upper 80's. Lows low 20's to low 30's. Precipitation none to 3.75 in., heaviest northern Delaware and Eastern Shore of Maryland.

Abrupt halt late crop growth. Late soybeans damaged all areas. Scattered damage late corn and vegetables. Corn harvest active south, lagging north, averaging 32%, 1973 58%, normal 42%. Soybean combining started early fields, 5% done, 1973 11%. Small grain seeding continues about normal. Sweetpotato harvest 50% done, about usual. Apple picking slowed by frost, little damage. Red Delicious 66% picked, Golden 75% Stayman, Romes and Yorks started.



MICHIGAN: Temperatures averaged 6 to 12° below normal. Killing freeze most of State 3d. Precipitation totaled 0.50 to 1.00 in. Upper and 0.20 in. southeastern to 1.00 in. northwestern Lower Peninsula.

Frost killed remaining corn, soybeans and tender vegetables. Soil moisture short south, adequate elsewhere. Fieldwork averaged 4.2 days. Corn 40% mature, 71% 1973. Corn silage 60% harvested, 82% 1973. Soybeans 42% mature, 40% 1973. Dry beans 69% harvested, 95% 1973. Wheat 77% planted, 90% 1973. Potato harvest slowed by rain 63% completed, 59% 1973. Sugarbeet harvesting 7% completed. Pasture short south, adequate elsewhere. McIntosh apples 96% picked, Jonathans and Red Delicious picking progressing well. Grape harvest full swing. Frost finished most vegetable harvesting. Cabbage, carrot and cauliflower harvest active. Onions and celery near completion.

MINNESOTA: Temperatures 10° below normal. Extremes mid-70's southwest to 11° central. Precipitation above 1.50 in. northern third and 0.25 to 0.50 in. central and south. Snow mixed with rain extreme north.

Weather favorable, except wet weekend, for field drying of corn and rapid harvest of soybeans. Soybean combining 71% completed, 1973 12%, average 26%. Corn 77% mature and beyond, 1973 95%, average 93%. Corn harvest 11% completed, 1973 6%, average 8%. Sugarbeet harvest 13% completed, 1973 43%, average progress 30%. All potatoes 60% dug, 1973 71%, average 64%. Soil moisture short all areas.

MISSISSIPPI: Temperatures averaged 5 to 10° subnormal. Extremes: 92 and 31°. Two days with general rains from less than 0.50 in. to over 1.00 in.

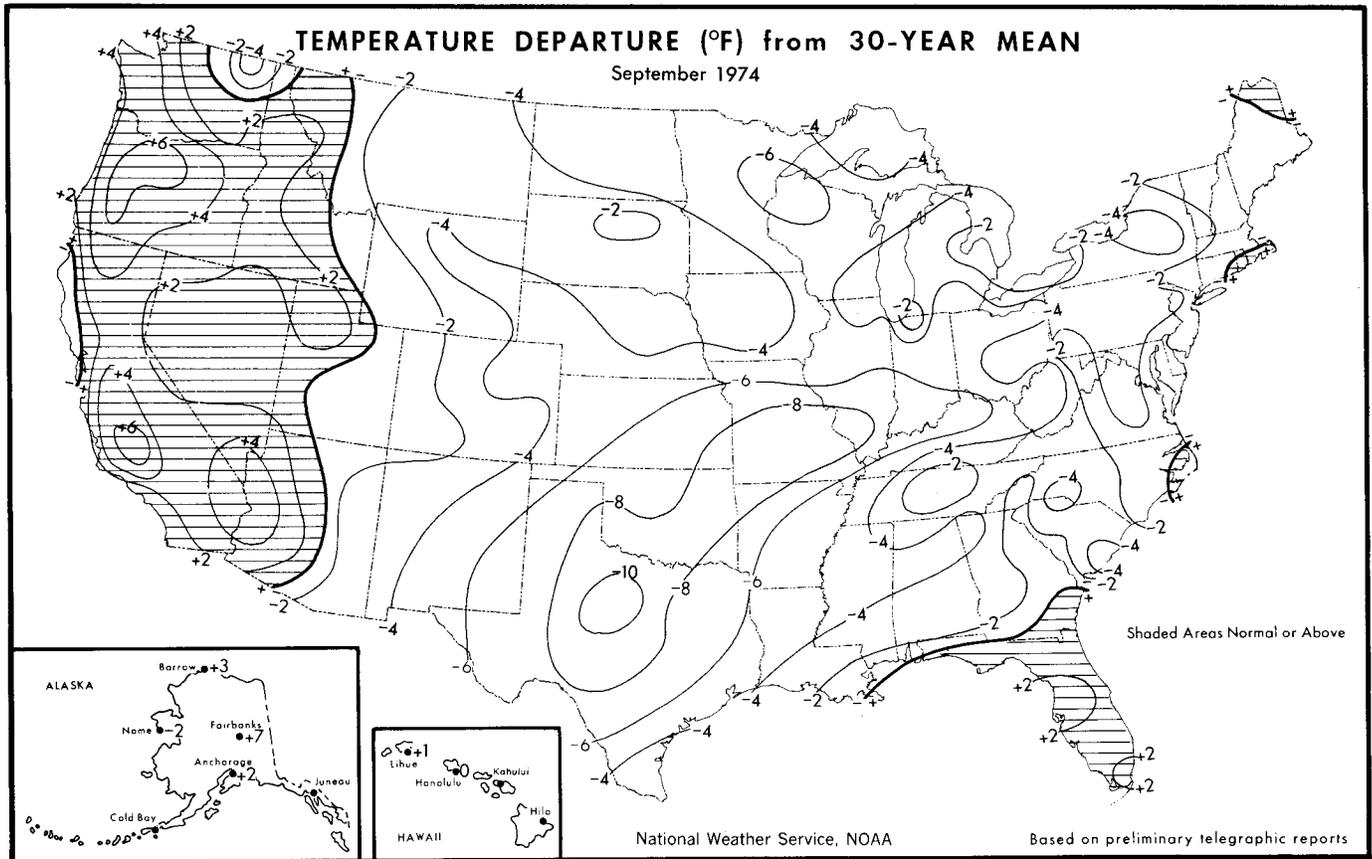
Soil moisture adequate. Fieldwork: 5.4 days suitable. Cotton 59% open bolls, 6% harvested; normal 59% open bolls, 12% harvested. Soybeans 39% turning, 20% shedding, 13% mature, 6% harvested; normal 28% mature, 13% harvested. All major crops mostly fair to good.

MISSOURI: Temperatures appreciably below normal fourth week in row. Average 5 to 10° below normal with many stations reporting 32° and lower 1st, 2d, 3d. Low readings, primarily east and north set records for early fall. Precipitation continues ample. Totals during week varied from little in a few localities to 2.00 in. or more in locally heavy thunderstorms.

Fieldwork: 5 days suitable. Corn 68% mature, 21% harvested, 1973 70% mature, 8% harvested, averaged 22% harvested. Soybeans 32% mature, 7% harvested, 1973 49% mature, 5% harvested, average 16% harvested. Grain sorghum 56% mature, 15% harvested, 11% harvested 1973, 21% average. Cotton 4% harvested, 5% harvested 1973. Fall seeding 34% complete, average 43%. Fertilizer 42% short, 58% adequate. Pasture fair to good condition. Soil moisture supply adequate.

MONTANA: Warm through 2d, strong cooling. Temperatures 3 to 7° below normal, dropping to teens and lower 20's. Light rain and snow all areas but precipitation below normal except southeast

continued on page 11



SEPTEMBER WEATHER SUMMARY

HIGHLIGHTS: September was an exceptionally cool month across most of the country with record early frosts in many areas. The Corn Belt averaged from 2 to 6° below normal while the Southern Great Plains and Desert Southwest averaged 6 to 10° below normal. Frost occurred in portions of the Corn Belt as early as September 3d, and again on the 21st and 22d.

Precipitation was well below normal in the western half of the United States except across Texas and New Mexico where rainfall was 2 to 4 times the expected.

PRECIPITATION: Precipitation was generally light during most of the month except in the Southeast. Hurricane Carmen moved into the Louisiana coast the morning of the 8th. Although the precipitation amounts were light, 2.00 to 5.00 in. of rain fell over much of Louisiana and parts of Mississippi, Alabama and Georgia from rains associated with the hurricane.

During the second week, the remnants of Hurricane Carmen finally diminished over Oklahoma, but not before dropping 2.00 to 5.00 in. over Eastern Texas.

During the third week of September, warm moist air from the Gulf of Mexico moved steadily westward into Texas. Simultaneously, high level Pacific moisture from a low over Baja, Calif., moved eastward combining to drop heavy moisture over Texas and New Mexico. Abilene, Texas re-

corded 9.43 in. and El Paso 5.00 in. during the week.

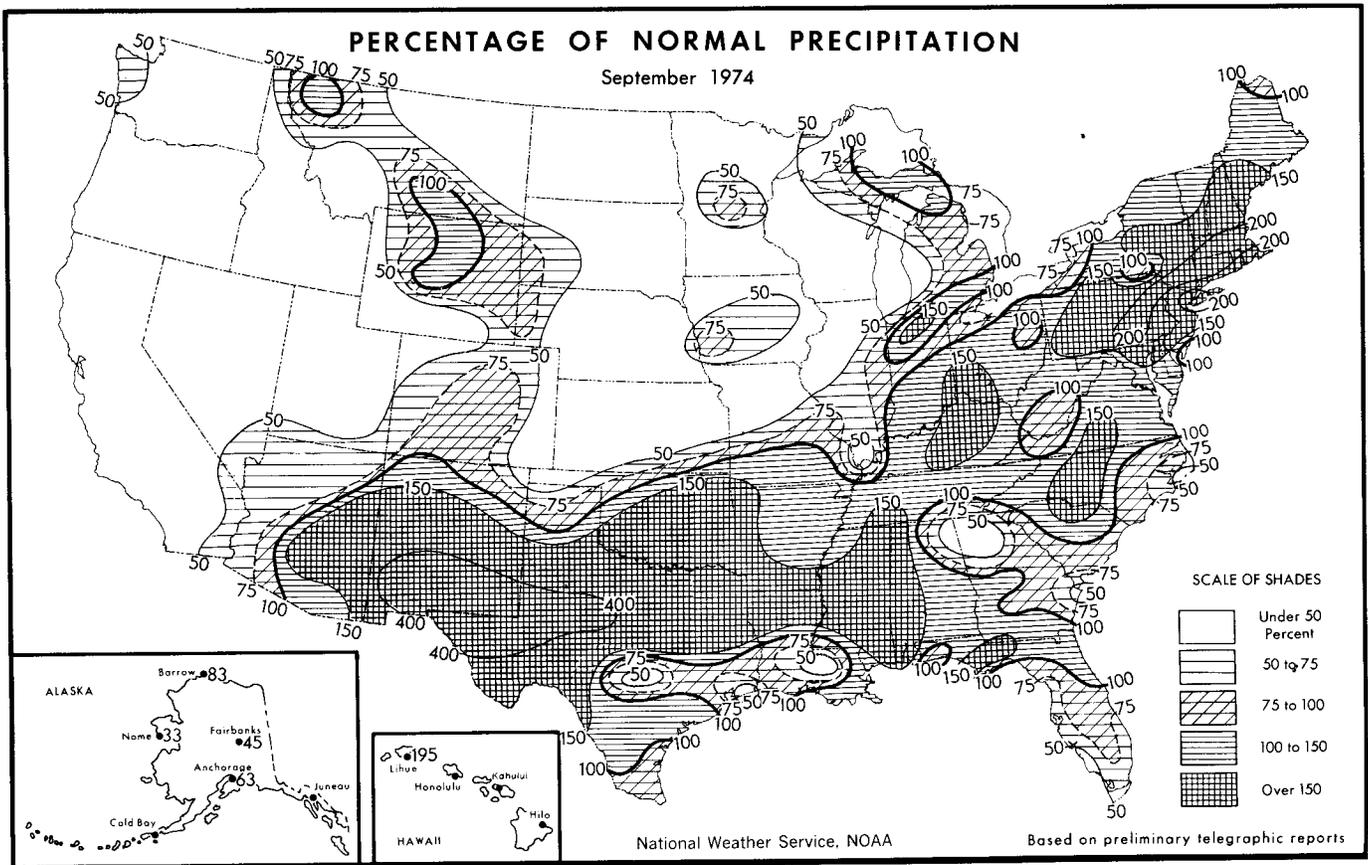
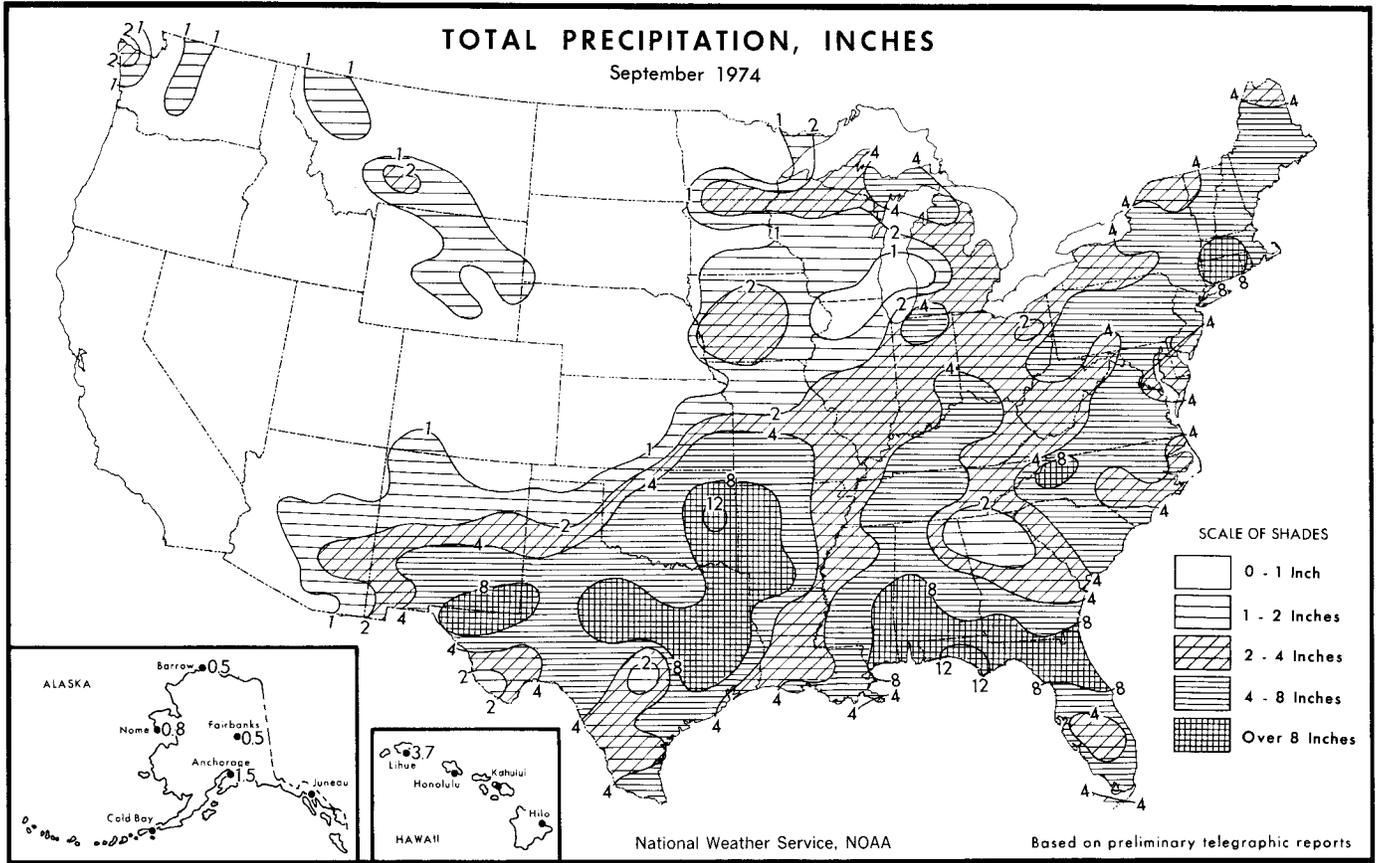
The month ended with heavy precipitation again confined to the South. From 2.50 in. to 5.00 in. fell across Texas, Oklahoma, Arkansas, Mississippi, Alabama, Georgia, and Florida.

TEMPERATURE: Frost was a key feature in the September weather picture. Temperatures on the whole averaged well below normal except in the western tier of States and the Florida Peninsula.

A light frost hit parts of five Corn Belt States the morning of the 3d; northwest Iowa, southern and central Minnesota, south central North Dakota, nearly all of South Dakota, and central Nebraska.

Subfreezing temperatures on the morning of the 22d and 23d brought the growing season to an abrupt halt across the northern half of the Corn Belt. Some morning lows on the 22d included 23° at Fargo, N. Dak., 24° at Sioux Falls, S. Dak., and 26° at Spencer, Iowa. The colder air moved eastward on the 23d and early morning readings included 26° at Madison, Wis., 31° at Peoria, Ill., and Fort Wayne, Ind., and 26° at Toledo, Ohio.

The only major respite from the cooler than normal temperatures across the Northern Plains occurred late in the month. On the afternoon of the 26th, temperatures climbed into the 90's well into North Dakota where Jamestown, registered 91°, but awoke to a cool 41° on the morning of the 27th as the more typical pattern for the month returned.



Temperature and Precipitation Data for September 1974

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 . . .	70	- 4	4.9	+1.3	La.Baton Rouge . . .	76	- 2	2.2	-1.6	Youngstown . . .	58	- 5	3.4	+ .8
Mobile . . .	76	- 2	10.6	+4.0	Lake Charles . . .	75	- 3	3.6	- .5	OKLA,Okla. City . . .	66	- 7	6.2	+2.6
Montgomery . . .	73	- 3	5.4	+1.0	New Orleans . . .	77	- 1	7.6	+2.0	Tulsa . . .	65	- 8	11.8	+7.7
ALASKA,Anchorage . . .	50	+ 2	1.5	- .9	Shreveport . . .	71	- 6	6.6	+3.5	OREG,Astoria . . .	61	+ 3	0	-2.1
Barrow . . .	33	+ 3	3	- .1	MAINE,Caribou . . .	53	- 1	3.4	- .1	Burns . . .	62	+ 4	0	- .5
Fairbanks . . .	51	+ 7	.5	- .6	Portland . . .	59	0	5.4	+2.3	Medford . . .	70	+ 6	0	- .6
Juneau . . .	---	---	---	---	MD,Baltimore . . .	68	- 1	5.4	+2.3	Pendleton . . .	68	+ 4	T	- .6
Kodiak . . .	---	---	---	---	MASS,Boston . . .	64	- 1	7.0	+3.8	Portland . . .	67	+ 5	.2	-1.4
Nome . . .	45	- 2	.8	-1.6	Chatham . . .	56	---	5.6	---	Salem . . .	66	+ 4	.3	-1.2
ARIZ,Flagstaff . . .	59	+ 1	.9	- .8	MICH,Alpena . . .	53	- 3	2.2	-1.1	PA,Allentown . . .	63	- 2	6.7	+3.1
Phoenix . . .	87	+ 3	1.1	+ .4	Detroit . . .	60	- 4	2.2	0	Erie . . .	59	- 2	3.3	- .3
Tucson . . .	78	- 2	1.7	+ .3	Flint . . .	59	- 2	2.2	- .3	Harrisburg . . .	65	- 2	6.8	+4.1
Winslow . . .	68	- 2	1.7	+ .8	Grand Rapids . . .	59	- 3	.8	-2.5	Philadelphia . . .	68	0	4.7	+1.7
Yuma . . .	89	+ 2	.1	- .1	Houghton Lake . . .	54	- 3	2.5	- .7	Pittsburgh . . .	62	- 2	4.4	+1.9
ARK,Fort Smith . . .	66	- 8	9.0	+5.3	Lansing . . .	58	- 4	2.6	0	Scranton . . .	61	- 2	6.9	+4.0
Little Rock . . .	69	- 4	4.3	+ .7	Marquette . . .	53	- 4	4.0	+ .5	R.I. Providence . . .	63	0	6.2	+2.9
CALIF,Bakersfield . . .	83	+ 6	0	- .1	Muskegon . . .	59	- 3	.8	-2.6	S.C.Charleston . . .	71	- 4	4.8	- .4
Eureka . . .	56	- 1	T	- .7	S. Ste. Marie . . .	50	- 5	3.7	- .2	Columbia . . .	73	- 2	4.4	+ .1
Fresno . . .	78	+ 4	0	- .1	MINN,Duluth . . .	48	- 6	1.0	-2.1	Greenville . . .	70	- 2	3.8	0
Los Angeles . . .	73	0	0	- .2	Internat Falls . . .	49	- 4	.9	-2.4	S.D. Aberdeen . . .	57	- 2	.2	-1.5
Red Bluff . . .	78	+ 3	0	- .3	Minneapolis . . .	55	- 5	.6	-2.1	Huron . . .	58	- 3	.2	-1.6
San Diego . . .	70	0	T	- .1	Rochester . . .	55	- 4	1.0	-2.1	Rapid City . . .	58	- 3	.9	- .3
San Francisco . . .	63	- 1	T	- .2	St. Cloud . . .	53	- 5	2.0	- .6	Sioux Falls . . .	58	- 3	.6	-2.3
Stockton . . .	76	+ 4	0	- .2	MISS,Jackson . . .	72	- 4	5.1	+2.1	TENN,Chattanooga . . .	68	- 4	1.3	-2.4
COLO,Denver . . .	59	- 4	1.0	- .1	Meridian . . .	73	- 2	8.1	+4.8	Knoxville . . .	70	- 2	3.3	+ .5
Grand Junction . . .	66	- 1	.4	- .4	MO,Columbia . . .	60	- 8	1.8	-2.6	Memphis . . .	69	- 5	3.5	+ .5
Pueblo . . .	63	- 3	.7	- .1	Kansas City . . .	62	- 7	1.1	-3.1	Nashville . . .	71	- 1	4.4	+1.3
CONN,Bridgeport . . .	66	- 1	5.4	+2.5	St. Louis . . .	62	- 8	2.5	- .4	TEX,Abilene . . .	66	-10	11.0	+8.7
Hartford . . .	63	0	8.6	+5.0	Springfield . . .	61	- 8	4.8	+ .7	Amarillo . . .	63	- 7	1.7	- .2
D.C.Washington . . .	70	- 1	4.4	+1.3	MONT,Billings . . .	56	- 3	1.8	+ .4	Austin . . .	72	- 7	1.6	-2.1
FLA,Apalachicola . . .	80	+ 1	8.3	- .7	Glasgow . . .	55	- 2	.1	- .8	Beaumont . . .	75	- 4	2.3	-3.0
Daytona Beach . . .	81	+ 1	10.5	+3.4	Great Falls . . .	55	- 2	.7	- .5	Brownsville . . .	80	- 2	4.9	- .3
Ft. Myers . . .	83	+ 1	4.3	+4.4	Havre . . .	55	- 2	.1	-1.0	Corpus Christi . . .	79	- 2	3.9	-1.0
Jacksonville . . .	78	0	8.1	+ .3	Helena . . .	54	- 2	.2	- .8	Del Rio . . .	74	- 6	5.0	+1.9
Key West . . .	84	+ 1	3.1	-4.2	Kalispell . . .	54	+ 1	1.2	+ .1	El Paso . . .	69	- 5	6.7	+5.5
Lakeland . . .	82	+ 2	5.0	-1.1	Miles City . . .	57	- 3	.3	- .9	Fort Worth . . .	71	- 7	6.0	+2.8
Miami . . .	84	+ 2	6.4	-2.3	Missoula . . .	57	+ 2	.7	- .4	Galveston . . .	76	- 4	3.3	-2.3
Orlando . . .	82	+ 2	5.8	-1.4	NEBR,Grand Island . . .	61	- 3	.5	-2.0	Houston . . .	75	- 4	4.5	- .2
Tallahassee . . .	79	+ 1	10.4	+3.8	Lincoln . . .	61	- 5	.3	-2.6	Lubbock . . .	64	- 7	6.6	+4.4
Tampa . . .	83	+ 2	4.0	-2.4	Norfolk . . .	60	- 3	.1	-2.3	Midland . . .	68	- 7	6.2	+4.7
W.Palm Beach . . .	82	0	5.6	-4.3	N.Platte . . .	58	- 4	.2	-1.8	San Angelo . . .	69	- 8	6.1	+3.4
GA,Atlanta . . .	70	- 2	1.1	-2.1	Omaha . . .	60	- 4	2.5	- .7	San Antonio . . .	72	- 7	3.9	+ .2
Augusta . . .	74	- 1	2.8	- .5	Valentine . . .	58	- 3	.7	- .8	Victoria . . .	76	- 4	5.8	+1.2
Macon . . .	73	- 3	3.9	+ .8	NEV,Ely . . .	57	0	T	- .6	Waco . . .	71	- 8	8.7	+5.5
Savannah . . .	76	0	2.6	-3.0	Las Vegas . . .	84	+ 4	.2	- .1	Wichita Falls . . .	68	- 9	5.9	+2.9
HAWAII,Hilo . . .	---	---	---	---	Reno . . .	61	+ 1	0	- .2	UTAH,Blanding . . .	62	- 1	.5	- .5
Honolulu . . .	80	0	---	---	Winnemucca . . .	61	+ 2	0	- .3	Salt Lake City . . .	67	+ 2	T	- .7
Kahului . . .	---	---	---	---	N.H.Concord . . .	59	- 1	4.7	+1.6	VT,Burlington . . .	58	- 1	3.2	+ .1
Lihue . . .	80	+ 1	3.7	+1.8	N.J.Atlantic City . . .	66	- 1	3.0	0	VA,Lynchburg . . .	66	- 2	5.6	+2.3
IDAHO,Boise . . .	65	+ 2	T	- .4	Trenton . . .	66	- 1	5.8	+2.6	Norfolk . . .	71	- 1	4.4	+ .2
Lewiston . . .	66	+ 3	.1	- .8	N.MEX,Albuquerque . . .	66	- 4	1.6	+ .8	Richmond . . .	67	- 3	4.8	+1.3
Pocatello . . .	59	0	.1	- .5	Roswell . . .	64	- 6	6.5	+5.0	Roanoke . . .	65	- 3	3.0	- .4
ILL,Cairo . . .	66	- 6	1.5	-2.0	N.Y.Albany . . .	58	- 4	5.4	+2.3	WASH,Colville . . .	54	- 5	.2	- .6
Chicago . . .	62	- 4	1.5	-1.5	Binghamton . . .	57	- 3	3.0	0	Omak . . .	61	- 1	T	- .5
Moline . . .	60	- 5	1.1	-2.7	Buffalo . . .	60	- 2	2.4	- .9	Quillayute . . .	61	+ 4	2.7	-2.5
Peoria . . .	61	- 5	1.4	-2.2	New York . . .	66	- 2	6.9	+3.7	Seattle-Tacoma . . .	64	+ 4	.2	-1.8
Rockford . . .	60	- 3	.4	-3.6	Rochester . . .	59	- 3	3.5	+1.1	Spokane . . .	60	0	.2	- .6
Springfield . . .	62	- 5	2.2	-1.1	Syracuse . . .	59	- 4	4.5	+1.8	Walla Walla . . .	67	+ 1	T	- .9
IND,Evansville . . .	63	- 6	3.9	+1.1	N.C.Asheville . . .	66	- 1	4.1	+ .5	Yakima . . .	63	+ 2	T	- .3
Ft. Wayne . . .	61	- 4	2.2	- .4	Charlotte . . .	68	- 4	6.5	+3.0	W.Va.Beckley . . .	59	- 4	2.9	- .5
Indianapolis . . .	61	- 5	3.2	+ .3	Greensboro . . .	68	- 2	7.6	+4.0	Charleston . . .	63	- 5	2.6	- .3
South Bend . . .	62	- 2	4.7	+1.6	Hatteras . . .	75	+ 1	2.9	-2.9	Huntington . . .	63	- 5	3.6	+ .7
IOWA,Burlington . . .	60	- 5	1.5	-2.2	Raleigh . . .	69	- 2	3.7	- .1	Parkersburg . . .	63	- 4	3.2	+ .4
Des Moines . . .	61	- 3	2.1	-1.0	Wilmington . . .	74	- 1	5.1	- .5	WIS,Green Bay . . .	54	- 5	1.1	-2.1
Dubuque . . .	58	- 4	.6	-4.0	N.DAK,Bismarck . . .	53	- 5	.2	-1.1	La Crosse . . .	57	- 5	1.4	-2.0
Sioux City . . .	60	- 3	.1	-2.7	Fargo . . .	53	- 5	.1	-1.7	Madison . . .	57	- 3	1.1	-2.3
KANS,Concordia . . .	63	- 5	.6	-2.5	Williston . . .	53	- 4	.2	-1.0	Milwaukee . . .	58	- 3	.5	-2.5
Dodge City . . .	63	- 6	.2	-1.5	OHIO,Akron-Canton . . .	60	- 4	1.8	- .8	WYO,Casper . . .	54	- 5	.8	- .1
Goodland . . .	60	- 4	T	-1.4	Cincinnati . . .	62	- 6	4.4	+1.8	Cheyenne . . .	55	- 3	.5	- .5
Topeka . . .	62	- 6	1.4	-1.7	Cleveland . . .	60	- 4	3.1	+ .3	Lander . . .	56	- 2	1.1	0
Wichita . . .	64	- 7	1.1	-2.6	Columbus . . .	62	- 3	3.3	+ .7	Sheridan . . .	55	- 3	1.5	+ .2
KY,Lexington . . .	63	- 6	4.2	+1.5	Dayton . . .	61	- 5	3.7	-1.5	P.R.San Juan . . .	83	+ 2	3.7	- 2.4
Louisville . . .	63	- 6	3.5	+ .6	Toledo . . .	60	- 4	1.4	-1.0					

Based on 1941 - 70 normals

continued from page 7
with over 0.50 in.

Nearly 50% livestock moved from summer ranges. Forage supplies adequate, grazing open. Livestock marketing lighter than average. Sugarbeets 10% dug, dry beans and potatoes 50% harvested. Winter wheat good condition, seeding over 90% done.

NEBRASKA: Warm days midweek. Temperatures well below normal remainder. Precipitation occurred southeast.

Fieldwork: 7.0 days suitable. Topsoil moisture supplies short 97%, subsoil moisture supplies short 98%. Corn harvest well underway, 20% harvested, 10% normal, 90% mature, normal 94%. Sorghum harvest progressing rapidly, 20% harvested, 10% normal, 80% ripe, normal 92%. Soybean harvest in full swing, 35% harvested, near normal, 85% mature, 5% behind normal. Wheat 95% seeded, normal 98%. Alfalfa 70% fourth cutting finished. Dry edible bean harvest 85% complete. Sugarbeet harvest underway. Range and pasture feed supplies short 98%.

NEVADA: Temperatures averaged near normal except northwest 2° below. Logandale's 97° highest and McDermitt had low with 10°. Precipitation widespread, McDermitt greatest amount 2.91 in. Tonopah 0.93 in. and Caliente 0.93 in.

Alfalfa seed harvest nearing completion. Alfalfa hay third cutting continued north and west. Sixth cutting well along southern valleys. Potato harvest full swing Humboldt County. Cotton bolls 50% open Pahrump Valley. Livestock continue move off summer ranges month early.

NEW ENGLAND: Frost all areas until 5th. Warming to 60° plus for weekend. Showers midweek. Total rain up to 0.50 in., north, 0.75 in., south.

McIntosh harvest ending, later varieties starting, fruit size medium, quality excellent. Aroostook County, Maine potato harvest 50% complete, delayed by wet conditions, yields and quality good. Silage corn harvest continues, quality down due to immaturity. Harvest progress slowed by muddy fields.

NEW JERSEY: Record cold temperatures averaged 49° north, 51° central and southern counties. Extremes: 24° on the 4th and 82° on the 6th. Killing frost in Cape May County 4th. Hammonton reported 0.01 in. rainfall on 1st and Seabrook 0.02 in. 2d for only rainfall.

Soil moisture expressed in % of field capacity, averaged 94% north, 76% central and 57% south. Killing frost some areas, resulting in some crop losses. Harvest of hardy vegetables continues. Potato and sweetpotato harvest well advanced. Apple and cranberry harvest continue active. Harvest of corn for grain underway. Soybean combining general. Seeding of small grains and cover crops progressing well. Early seedings up.

NEW MEXICO: Dry early week with cold nights, warm days. Warming midweek, widespread showers weekend. Substantial rainfall 5th and 6th except northeast, east central plains. Considerably cooler east 6th. Temperatures averaged near normal.

Moisture generally adequate. Cotton, fair, 50% bolls open, less than 1% harvested. Alfalfa, good, 4th cut 50% done north, south on 5th, 6th cuts as wet fields permit. Sorghum, fair to good, irrigated 95% dough, dry 80%. Irrigated corn good, silage harvest 70% done. Winter wheat good, 95% planted, stands fair to good. Barley fair to good. Peanuts good, broom corn fair, pulling expected later than normal due to late planting. Lettuce

fair, small amount lost in floods last week. Apples fair, sweetpotato digging active east. Range and livestock fair to good.

NEW YORK: Temperatures 5 to 11° below normal. Rainfall below normal; lower Hudson Valley and coastal New York less than 0.10 in. Unusually early snowfall left 2 in. portions of St. Lawrence Valley and Adirondacks 2d. Rain and snow all but southeast until temperatures moderated toward the weekend. Sunday in lower 80's southwest; 70 or higher elsewhere. Extremes: 83° Elmira; 23° Watertown.

Wet weather slowed fieldwork. Corn silage harvest 40% complete, moving well. Third cutting alfalfa 80% complete, progressing slowly. Dry beans not seriously damaged by frost. Harvest of Long Island vegetables continues. Weather delaying Upstate potato harvest. Orange County lettuce harvest complete, celery continuing. Frosts and scattered snow finished all tender vegetables Upstate. Hudson Valley McIntosh harvest nearly complete, Western apple harvest continues. Some frost damage to Finger Lakes vineyards.

NORTH CAROLINA: First frost of fall; record breaking cold spell.

Fieldwork averaged 4.8 days. Soil moisture short to adequate. Burley tobacco 97% harvested, 1973 91%. Corn 60% harvested, 1973 67% average 38%. Cotton 8% harvested, 1973 11%, average 15%. Peanuts 24% dug, 1973 74%, average 24%. Soybeans and pasture condition good. Sweetpotatoes 38% dug, 1973 35%. Apples 70% harvested, 1973 50%, average 64%. Small grains 19% seeded. Labor supplies adequate.

NORTH DAKOTA: Temperatures across State subnormal. Extremes: 81° Watford City to 9° at Upham. Precipitation from 0.34 in. below normal east central to 0.12 in. below normal northwest. West central driest, no precipitation. Weekend cool and wet with scattered showers and snow over State.

Small grain harvest made excellent progress before slow down on weekend due to cold wet weather. Hard red spring wheat, oats and barley combining virtually completed. Durum wheat about 95% combined, flax about 80%. Soybean and dry bean harvest about 33% completed. Corn picking underway. Potatoes about 60% dug. Sugarbeet stock piling started. Need moisture for fall wheat and rye seedings.

OHIO: Record low temperatures 2d, 3d, and 4th. Lowest 23° on 3d, 26° on 4th, highs mid 40's on 2d, 80° on 6th. Less than 0.50 in. precipitation anywhere in State.

Corn for grain less than 10% harvested, 15% 1973 and normal. Corn 90% mature, 85% 1973 and normal. Soybeans 20% harvested, 30% 1973 and normal, 85% mature, 80% 1973 and normal. Corn silage 75% harvested, 85% normal. Potatoes 70% dug. Sugarbeets 5% lifted. Winter wheat seeding advanced to 50% complete, 55% 1973, and 50% normal. Soil moisture supplies 14% short, 66% adequate, and 20% surplus. Extreme northwest short for 3 months. Fieldwork: 5 days favorable.

OKLAHOMA: Temperatures 3 to 8° subnormal. Precipitation none south central and southeast to about 0.20 in. northeast. Weekend cool to mild with scattered light rain most areas.

Fieldwork progressed most areas under sunny skies. Topsoil moisture surplus 14%, adequate 75%, subsoil moisture 90% adequate. Farming

activities: Planting small grains, harvesting corn, sorghums, baling hay and digging peanuts. Wheat 65% planted, 30% stand, 1973 53% planted. Barley 27% planted, Oats 43%. Corn 40% harvested, 1973 37%. Sorghums 14% combined, 1973 9%. Cotton 38% open bolls. Peanut harvest moving slowly, 3% complete, 1973 8%. Soybeans 32% mature, 1973 same. Range and pasture grasses 80% good or better. Cattle condition good to excellent. Calf prices continue slipping despite good wheat pasture prospects.

OREGON: Warming trend, temperatures rose to 68° interior, 92° south coast. Temperatures dropped near or below normally weekend. Several locations east of Cascades dropped into 20's. Precipitation 0.25 in. or less west of Cascades.

Most growers "dusting in" fall grain, many waiting for rain before seeding. Early seeded wheat up but spotty. Red clover harvest finished, bentgrass finished. Corn silage, sugarbeets continuing. Apple harvest continuing Milton-Frwrtr, Hood River. Red Delicious varieties not coloring well. Anjou pear, Italian prune harvests complete. Filbert harvest starting. Sweetcorn, broccoli, cauliflower continue. Potato harvest continues at Hermiston 60%. Klamath Falls 40%, and Ontario 80%. Range dry, high fire hazards. Cattle moving from summer pastures. Stock water adequate. Limited activity in cattle market.

PENNSYLVANIA: Cold through 4th, warm and sunny weekend. Temperatures averaged 8 to 12° below normal for coldest week since mid-April. Record low readings for date 3d and 4th. Lowest 15° north central. Southerly winds warmed weekend to above normal, 70's most places, 81° Philadelphia. Precipitation western, central, northern counties where 0.10 to 1.00 in. from showers and snow flurries early week. Driest week since mid-July.

Corn maturity: 10% dough, 37% dent, 51% mature, 2% harvested. Ensilage corn harvest main activity, 60% completed. Potato harvest 70% completed, delayed northwest by wet ground. Planting fall barley 85% completed, wheat 60%. Pastures average to above average. Apple picking in progress.

PUERTO RICO: Average rainfall 1.43 in., 0.51 in. below normal. Highest weekly total 6.53 in. at San Sebastian. Highest 24 hour total 3.25 in. at San Sebastian. Temperatures averaged about 80° on coast and 75° interior. Extremes: 93° and 57°.

Recuperation of sugarcane ratoons due favorable weather. Coffee maturing rapidly. However, some excessive rains are making harvesting difficult. Tobacco farmers continue preparing soil for planting. Plants in seedbeds are developing well. Pastures have almost recuperated from drought effects. Food crops developing well. Farmers are planting but excessive rains caused soil erosion.

SOUTH CAROLINA: Temperatures 3d and 4th generally lowest of record for date most locations. Frost about two weeks earlier than any previous year central south.

Soil moisture 50% adequate, 50% short. All crops in field suffered some damage early frosts. Tobacco marketing continues. Cotton condition fair to good, bolls open 75%, 77% 1973, 12% harvested, 16% 1973. Some small bolls high on plants damaged by frost. Corn 71% harvested, 75% 1973. Soybeans 58% leaves turning, 27% shedding, 9% mature, 53%, 23%, 5% respectively 1973. Degree of damage from frosts undetermined, quality loss ex-

pected, late planted and maturing varieties hit hardest. Peanut harvest on schedule. Pastures suffered as did fall hays from frosts. Fall hay harvest 76% completed. Planting winter grazing, small grains active. Fall vegetable condition poor. Pecan condition poor.

SOUTH DAKOTA: Temperatures averaged 5 to 15° below normal. Extremes: 89° Wagner, 13° Conde and Castlewood. Scattered showers less than 0.50 in. snow in Black Hills.

Soybean harvest progressing at record early pace, 80% complete, normal 33%, 1973 7%. Corn harvest 17% complete, normal 12%, 1973 10%. Drying weather good. Ear droppage due to high winds. Sorghum harvest 35% complete, normal 29%, 1973 14%. Fall seeded grains need moisture. Livestock in good condition. Cows and calves moving to market due to short field and water supplies. Some holding for higher prices. Pastures dry. Fire hazard high.

TENNESSEE: Temperatures 8° below normal west to 14° below east. Frost general, killing in several areas. Precipitation limited to trace at Memphis.

Killing frost, three weeks earlier than normal, caused limited damage west and serious damage east to all immature crops. Soybean damage undetermined as top leaves and pods affected, 7% mature, 1973 7%, normal 20%. Corn 15% harvested, same as 1973, half average, 80% matured, other 20% frost damaged. Cotton 2 weeks late, 3% picked, 33% open bolls, not maturing satisfactorily, early yields poor. Tobacco 90% harvested, other 10% severely damaged, slow to cure, some barn damage. Wheat 30% and 50% oats and barley seeded, 1973 and normal 35% and 60%.

TEXAS: Fair weather most of week. Cold, wet weather entered Panhandle late 28th by 29th covered northern half. Rainfall well below normal, no rain at all most areas, temperatures 3 to 4° below normal, averages 65° High Plains, mid-70's south.

Planting wheat, oats resumed as field dried out. Moisture adequate to surplus for seeding fall crops. Harvest cotton, sorghum little progress during week due wet fields. Harvest corn, peanuts fair progress. Cotton, sorghum on High Plains need sunshine to mature. Major crops percent planted: Wheat 1974 62, 1973 72 average 79; oats 1974 46, 1973 58, average 48. Major crops percent harvested: Sorghum 1974 54, 1973 58; corn 1974 57, 1973 72; cotton 1974 22, 1973 13; soybeans 1974 1, 1973 8; peanut 1974 33, 1973 47; rice (1st cutting) 1974 97, 1973 85.

High Plains: Harvest late cabbage, bell peppers continues. Some fields tomatoes remain, carrot digging continues on limited scale. Trans-Pecos: Late planted lettuce developing well, green chili harvest 90% complete, virtually all other truck vegetables harvested. North: Harvest okra, greens, green onions underway, late tomatoes still available. East: Dry blackeyed peas being combined. Sweetpotato harvest made excellent progress during mild, open weather. Upper coast harvest mustard greens, sweetpotatoes main vegetable activity. Coastal Bend: Fall vegetables progressing well, San Antonio Winter Garden: Harvest green beans, cucumbers active. Cabbage shows good development. Carrots, cabbage being planted Dimmitt County, Fall tomatoes look good, spinach developing well. Lower Valley: Planting fall vegetables resumed on limited scale following heavy rains previous week. Pecan harvest full swing south. Central, south central shucks splitting, limited harvest underway. Light harvest early oranges continues as well as ring picking grapefruit. Heavy rains previous week

should help sizing, generally light fruit set.

Range, pasture conditions to improve response to excellent moisture. Most areas adequate to surplus moisture. Livestock continue improve, grazing increased. Hay baling active many areas.

UTAH: First general precipitation in several months past week. Accumulated amount ranged from light to moderate. Average temperature generally normal for period.

Soil moisture very short all areas. Rain late week improved situation some areas. Winter wheat planting 55% completed. Harvest silage corn 80% completed, starting grain corn, 50% completed potatoes, 80% onions, 90% third crop alfalfa hay, 40% apples in Utah County, 25% other areas. Sugar-beet harvest beginning. Winter range feed conditions worst in recent history, 35% of normal.

VIRGINIA: Killing frost 3d and 4th. Extremes: 90 and 18°.

Fieldwork: 5.7 days suitable. Topsoil moisture 64% adequate, 36% short. Frost damaged late planted corn, soybeans, peanuts, and killed small amount tobacco not harvested. Fall harvest: Corn 34%, 1973 36%; peanuts 22%, 1973 52%, apples 63%, 1973 63%, soybeans 5% Tidewater, southeast areas; sweet-potatoes 50% with some vines blackened by frost. Snap bean, cucumber, cabbage harvest active. Pastures good condition, some getting dry. Small grain seeded: Wheat 18%, 1973 20%; barley 32%, 1973 37%; oats 39%, 1973 39%. Moisture for germination short in some areas.

WASHINGTON: West: Average temperatures near normal from 60's and 70's to 40's. Scattered mid-week showers produced 0.01 to 0.30 in. of rain.

Harvesting silage corn, sweet corn, and other vegetables. Pasture short. Cultivation, liming and fall grain seeding continues. East: Temperatures 2 to 4° below normal. Extremes: 70's and 40's. Scattered showers in southeast.

Harvesting corn silage, grapes, potatoes, dry beans, sweet corn and apples. Other activities: Plowing, fertilizing, weed control and fall grain planting. Early seeded fields emerging. Livestock in good shape. Supplemental feeding necessary as ranges and pastures not adequate.

WEST VIRGINIA: Temperatures and rainfall well below normal. First hard freeze most sections 3d and 4th.

Fieldwork: 5 days suitable. Farmers active harvesting crops and seeding fall sown grains. Hard freeze halted growth most crops and pastures. Soil moisture 16% short, 83% adequate, 1% surplus. Most shortages northeast. Hay mostly good, second cutting 91% complete, third cutting 71%. Wheat 30% and barley 42% sown. Corn for grain 62% mature, 23% harvested. Corn for silage 82% complete. Tobacco 92% harvested, some damaged by frost.

WISCONSIN: Temperatures averaged 6 to 9° subnormal; freezing Oct. 1st, 2d, 3d mornings, coldest in teens and low 20's 3d. Highs cool except 70's 4th and 5th. Few showers 4th locally heavier showers 5th and 6th, especially south where totals exceeded 1:00 in.

Silo filling proceeding rapidly with dry field conditions. Silo filling 70% done, same as 1973 and normal. Silage yields down, quantity greater as more acreage being chopped due to early frosts. Little corn picked except for immediate feeding. Moisture high, much variation in maturity. Soybeans harvest started where moisture content low enough. Most soybeans immature when frosts occurred, some acreage going into silos or hay. Harvesting of 2d, 3d and 4th crop hay going on. New seedings fair to good, needs more moisture. Pastures poor due to dry weather and unseasonably cold temperatures. Fall plowing slow, 13% done, 1973 and normal 20%. Soil moisture 65% short, 35% adequate. Potato harvest nearing end. Apple harvest well along and cranberry harvest in full swing. Beets, carrots, and cabbage being harvested, hard freezes ended sweet corn and snap beans.

WYOMING: Dry weather still plaguing, east of Divide with western sections showing measurable amounts of precipitation. Temperatures a little above normal at many stations.

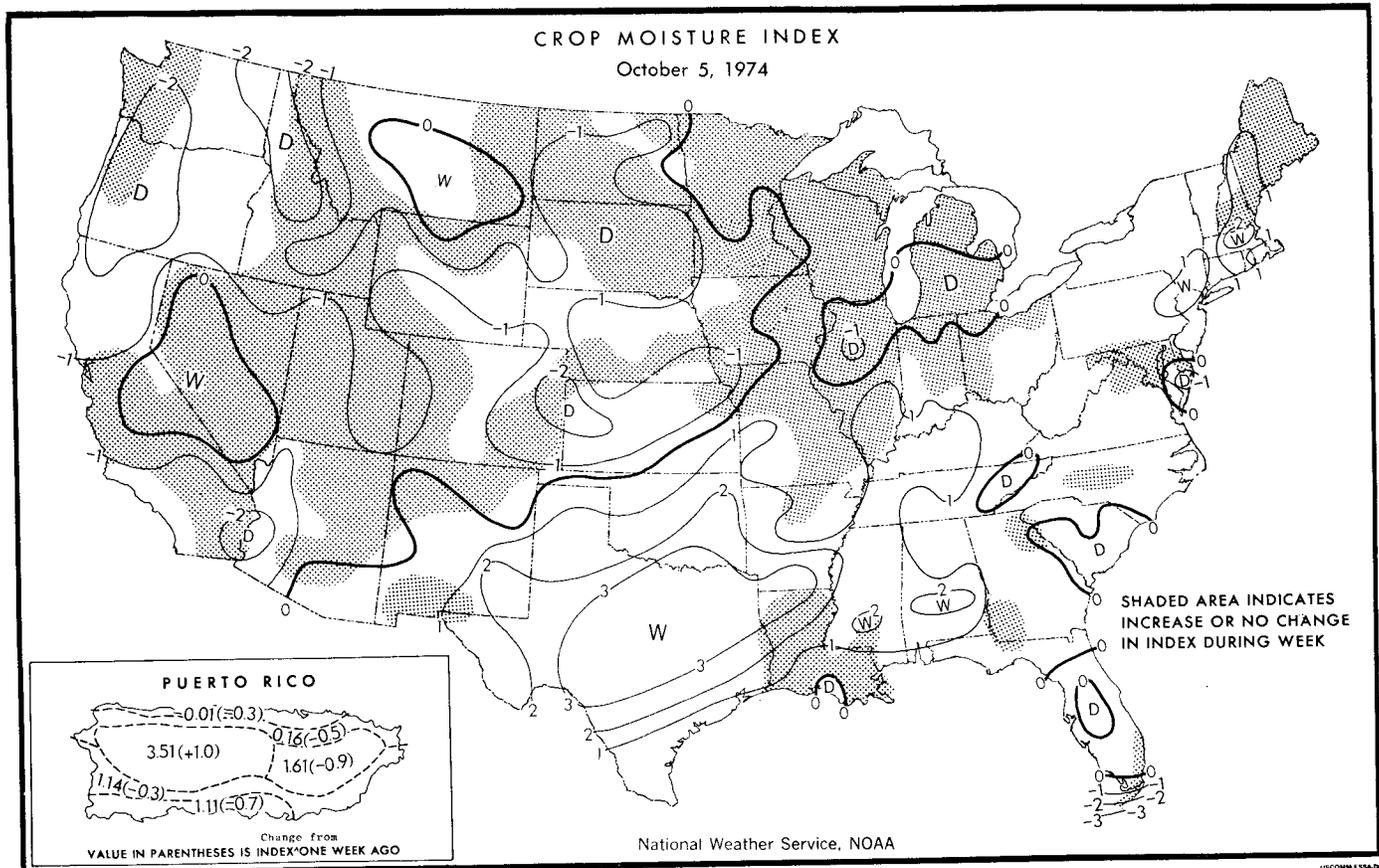
Soil moisture short. Good harvest weather. Sugar beets 11% dug, 14% 1973. Dry beans 95% windrowed, 75% combined, 55% combined 1973. Potatoes 35% dug, 50% 1973. Corn silage cutting near end. Winter wheat prospects mostly fair. Winter grazing fair to good west, poor to fair east. Calves, lambs lighter weights off ranges.

Heating Degree Days (Base 65° F.)

September 1974

ALA. Birmingham . . .	19	MAINE, Caribou . . .	369	OKLA. Okla. City . . .	56
Mobile	0	Portland	206	Tulsa	74
Montgomery	5	MD. Baltimore	49	OREG. Astoria	130
ALASKA, Anchorage . . .	454	MASS. Boston	102	Burns U.	115
Barrow	---	Chatham	88	Medford	90
Fairbanks	402	MICH. Alpena	358	Pendleton	39
Juneau	---	Detroit	189	Portland	29
Nome	590	Flint	211	Salem	47
ARIZ. Flagstaff	195	Grand Rapids	215	PA. Allentown	123
Phoenix	0	Houghton Lake	337	Erie	204
Tucson	0	Lansing	256	Harrisburg	94
Winslow	44	Marquette U	235	Philadelphia	46
Yuma	0	S. Ste. Marie	432	Pittsburgh	124
ARK. Fort Smith	54	MINN. Duluth	507	Scranton	155
Little Rock	23	Internatl Falls	485	R. I. Providence	114
CALIF. Bakersfield . . .	0	Minneapolis	289	S. C. Charleston	5
Eureka U.	274	Rochester	309	Columbia	18
Fresno	0	St. Cloud	366	Greenville	39
Los Angeles U	0	MISS. Jackson	6	S. DAK. Aberdeen	250
Red Bluff	0	Meridian	8	Huron	218
Stockton	0	Vicksburg U	8	Rapid City	242
San Diego	0	MO. Columbia	167	Sioux Falls	240
San Francisco	101	Kansas City	141	TENN. Chattanooga	28
COLO. Denver	199	St. Louis	127	Knoxville	23
Grand Junction	60	Springfield	144	Memphis	28
Pueblo	103	MONT. Billings	269	Nashville	48
CONN. Bridgeport	67	Glasgow	283	TEX. Abilene	60
Hartford	121	Great Falls	311	Amarillo	119
D. C. Washington	26	Havre	299	Austin	5
FLA. Apalachicola	0	Helena	338	Beaumont	0
Ft. Myers	0	Kalispell	328	Brownsville	0
Jacksonville	0	Miles City	237	Corpus Christi	0
Key West	0	Missoula	230	Dallas	---
Lakeland U.	0	NEBR. Grand Island	165	Del Rio	6
Miami	0	Lincoln	161	El Paso	41
Orlando	0	Norfolk	190	Fort Worth	20
W. Palm Beach	0	North Platte	256	Galveston U.	0
Tallahassee	0	Omaha	191	Houston	0
Tampa	0	Valentine	233	Lubbock	105
GA. Atlanta	26	NEV. Ely	237	Midland	44
Augusta	11	Las Vegas	0	San Angelo	33
Macon	14	Reno	119	San Antonio	2
Savannah	2	Winnemucca	154	Victoria	0
IDAHO, Boise	53	N. H. Concord	213	Waco	13
Lewiston	53	N. J. Atlantic City	68	Wichita Falls	36
Pocatello	173	Trenton U	68	UTAH, Blanding R	---
ILL. Cairo U.	66	N. MEX. Albuquerque	68	Salt Lake City	54
Chicago	157	Roswell	104	VT. Burlington	322
Moline	180	N. Y. Albany	227	VA. Lynchburg	74
Peoria	157	Binghamton	251	Norfolk	16
Rockford	175	Buffalo	187	Richmond	62
Springfield	135	New York	63	Roanoke	84
IND. Evansville	124	Rochester	210	WASH. Colville	198
Fort Wayne	167	Syracuse	202	Omak	---
Indianapolis	163	N. C. Asheville	65	Quillayute	159
South Bend	144	Charlotte	50	Seattle-Tacoma	74
IOWA, Burlington	180	Greensboro	53	Spokane	134
Des Moines	168	Hatteras R.	3	Walla Walla U.	36
Dubuque	234	Raleigh	44	Yakima	79
Sioux City	180	Wilmington	5	W. VA. Beckley	188
KANS. Concordia	125	N. DAK. Bismarck	357	Charleston	110
Dodge City	118	Fargo	345	Huntington	113
Goodland	198	Williston U	354	Parkersburg U.	111
Topeka	134	OHIO, Akron-Canton	169	WIS. Green Bay	331
Wichita	92	Cincinnati U.	147	Madison	253
KY. Lexington	125	Cleveland	176	Milwaukee	237
Louisville	122	Columbus	130	WYO. Casper	319
LA. Baton Rouge	0	Dayton	164	Cheyenne	302
Lake Charles	0	Toledo	190	Lander	274
New Orleans	0	Youngstown	211	Sheridan	309
Shreveport	14				

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



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.

Agricultural Climatology Service Office
South Building Mail Unit
U. S. Department of Agriculture
Washington, D.C. 20250

IMMEDIATE - U. S. Weather Report

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