

Weekly Weather & Crop Bulletin

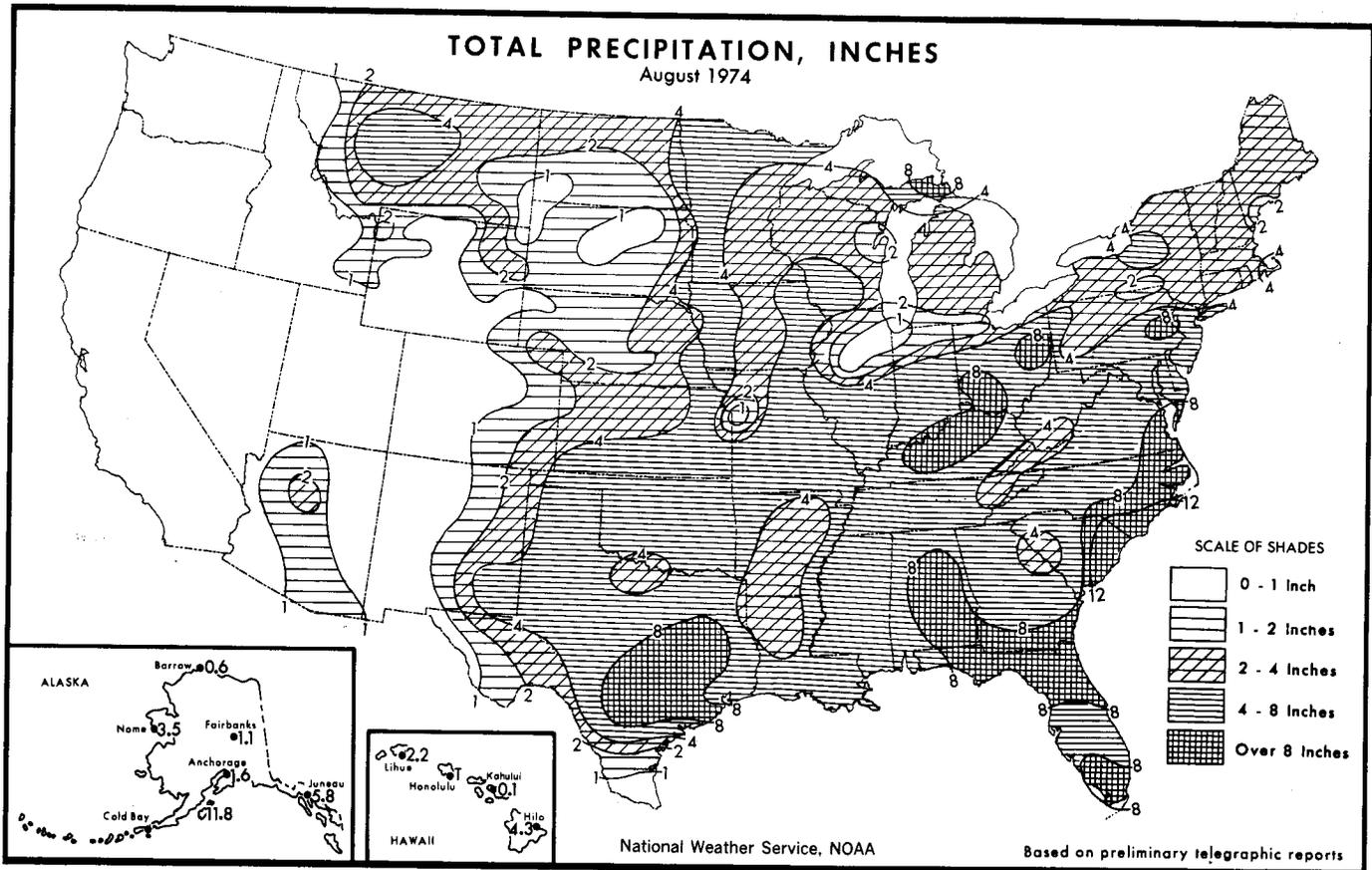
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NATIONAL WEATHER SUMMARY

HIGHLIGHTS: Carmen, the first hurricane to touch the U.S. this year, struck the central Louisiana Coast early Sunday morning. Gale force winds struck from Cameron, La., to Puscagoula, Miss.

The heaviest rainfall associated with Carmen occurred mostly in southern Alabama and western Florida. In the 24-hour period ending 9:00 a.m. Sunday, Mobile, Ala. measured nearly 7.00 in. of rain while Penascola, and Valparaiso, Florida reported better than 4.00 in.

As Carmen moved inland, the storm weakened rapidly and was downgraded to a tropical storm by 2 p.m., Sunday.

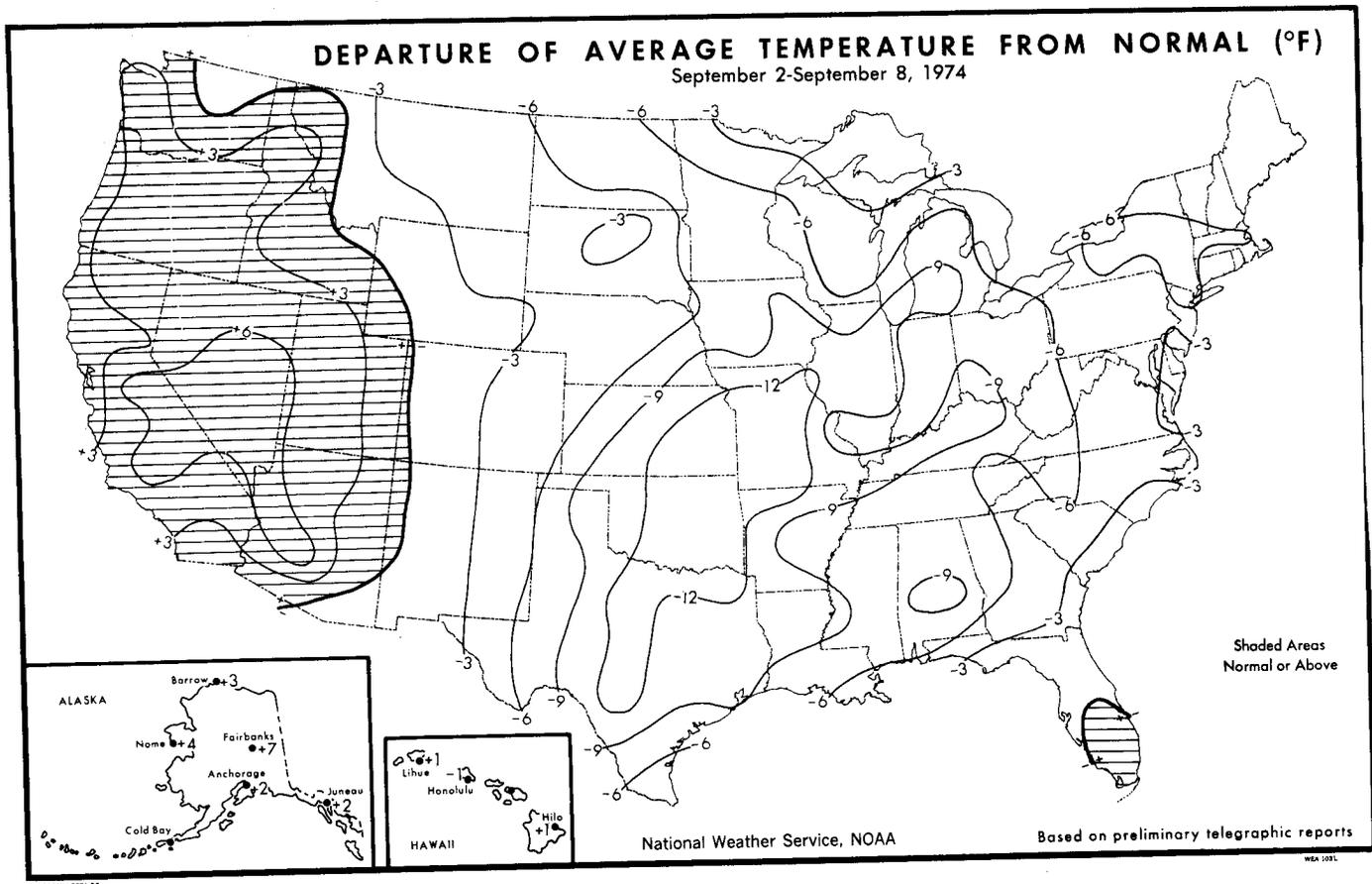
September's temperatures were off to a cold start east of the Continental Divide. The center of the coldest area included parts of Kansas, Missouri, Oklahoma and Texas where the weekly averages ranged from 12 to 14° below normal. Light frost touch-

ed parts of the western Corn Belt Tuesday morning. However, west of the Continental Divide temperatures were as much as 7° above normal.

PRECIPITATION: Rains measuring 1.00 in. to over 5.00 in. covered the eastern U.S. last week, east of a line from New England to eastern Texas and Oklahoma.

Heavy rain fell over the eastern Gulf Coast early and late in the week. Some weekly totals included: New Orleans, La. 2.74 in., Mobile, Ala. 8.77 in. and Apalachicola, Fla. 9.94 in. Hurricane Carmen also spread heavy rains measuring 2.00 in. to over 5.00 in. from southern Louisiana northward through Arkansas and from the southern Alabama-Mississippi border northward through Tennessee.

Elsewhere, light rains fell in most areas east of the Rocky Mountains. No significant rain fell west of the Continental Divide except for some



isolated showers in central Arizona and southwestern Utah.

Monday, the 2d, warm and humid air over the Gulf and Atlantic Coast Region collided with cold air causing widespread rain from the Atlantic Coast to the central and southern Plains. During the afternoon, persistent rains produced flooding in southern Missouri, eastern Kansas and eastern Oklahoma.

The cold front that brought chilling temperatures to much of the Nation east of the Rockies triggered showers and thunderstorms in the Atlantic Coast States on Tuesday.

Wednesday, the 4th, an invasion of cold air over the Nation's midsection, kept the showers confined to the Atlantic Coast.

Slow moving heavy thundershowers crossed the Athens-Savannah, Ga., area on Thursday leaving some streets 2 feet under water.

Friday, the 6th, rain and thundershowers occurred from the eastern Gulf northward through the Atlantic Coast States into the upper Ohio Valley and southern New England.

By Saturday morning Hurricane Carmen was located 220 miles south of New Orleans and moving northward toward the southeast Louisiana and Mississippi Coasts, the hurricane triggered heavy rain along the Gulf Coast later in the day.

Sunday, the 8th, Hurricane Carmen slammed into the central Gulf Coast accompanied by gale winds, rains and tornadoes.

normal or above. Bakersfield, Calif. and Phoenix, Ariz. both reported temperatures averaging 7° above normal. Temperatures in the Nation's midsection averaged as much as 14° below normal with the corn and soybean areas averaging 8 to 12° below normal.

Monday, the 2d, an unseasonably cool air mass covered the Nation from the northern Atlantic Coast to the northern and Central Rockies. New record lows were set at Kansas City, Mo. 50°; St. Joseph, Mo. 48°; Bismarck, N.Dak. 34°; Casper, Wyo. 35° and Rapid City, S.Dak. 38°.

A high pressure center over Nebraska spread cool air as far south as southern Texas during the pre-dawn hours Tuesday morning. Record morning lows were set in the Plains, the upper and middle Mississippi Valley and the upper Great Lakes Region.

Wednesday, the 4th, cold air again covered most of the Nation east of the Rockies. Some record morning low temperatures included: Omaha, Nebr. 40°; Topeka, Kans. 39°; Kansas City, Mo. 44°; Corpus Christi, Tex. 62°; and Burlington, Iowa 39°.

The early September record cold spell broke minimum temperature records on Thursday from the Gulf of Mexico to the Great Lakes.

Friday, the 6th, temperatures were generally below normal over the eastern half of the Nation with many spots in the 60's and 70's during the day.

Again Saturday, cool morning temperatures prevailed across much of the Nation. Readings fell into the 50's from the North Atlantic Coast States into Oklahoma to the West Coast and dropped to the 40's in the Rockies and northern Plains.

Sunday afternoon, the 8th, temperatures were mostly in the 70's in the eastern half of the Nation and in the 80's and 90's in the West.

TEMPERATURE: Chilling, fall-like temperatures blanketed the eastern two-thirds of the Nation last week. Only the Far West reported temperatures near

NATIONAL AGRICULTURAL SUMMARY

HIGHLIGHTS: Frost in the western Corn Belt, subnormal temperatures throughout the eastern half of the Nation, and heavy rain in the South and East prompted by Hurricane Carmen delayed the overall row crop development during the past week.

SMALL GRAINS: Small grain harvest continues active in the Northern Plains, but is much behind average progress. Harvest picked up momentum in most areas during the week, although light rains, shorter days and heavy morning dews delayed combining. Spring wheat is nearly 66% harvested in North Dakota, 73% in Minnesota and 76% in Montana. The durum harvest is lagging in North Dakota with only 40% of the crop in the bin.

Improved soil moisture enabled more farmers to concentrate on plowing and land preparation for fall seeding. However, the ground is still too dry in many areas of South Dakota for plowing or seeding.

Winter wheat seeding is 23% complete in South Dakota and 10% in Nebraska, trailing last year's pace in both States. Rains slowed field preparation early in the week in Oklahoma and Texas but seeding resumed as fields dried. The 1975 winter wheat is 5% seeded in Kansas, 6% in Oklahoma, and 11% in Texas. Prospects for good germination are favorable.

CORN: Freezing temperatures over the Labor Day weekend caused light to moderate damage to the corn crop in parts of Iowa, Minnesota, Nebraska, North Dakota, South Dakota and Wisconsin. Subnormal temperatures throughout most of the Corn Belt ranged from 3° to 14° below normal, further slowing maturity of the late crop. Rainfall was light and scattered throughout much of the North Central States except in southern Missouri and Ohio.

Development is now behind normal in all Corn Belt States. In Iowa 25% of the corn crop is safe from frost, compared with the normal 35%. In Illinois 25% is mature, less than half the average of 52% and in Indiana 10% is mature versus the normal 15%.

Corn harvesting continued in Southern States but rains delayed harvest in many areas. Texas corn is 41% harvested versus 32% in 1973, in South Carolina 24% is harvested, also ahead of last year's pace. Corn harvest for grain is now underway in Kansas and Alabama and continues with 12% done in North Carolina, 11% in Georgia, 7% in Oklahoma, and is nearly done in west Florida.

COTTON: Heavy rains in the Delta and South Atlantic States triggered by Hurricane Carmen has allowed insect activity to intensify. Boll weevils and worms are the worst in years in Tennessee and weevil populations are high in Arkansas.

Boll development continues active, while boll opening is at a rapid pace in several States. Cotton in South Carolina is 20% open, ahead of the 18% in 1973, 14% is open in Mississippi, 5% in Tennessee and 4% in Oklahoma.

Harvest is 18% done in Texas, compared with 6% in 1973 and a 10% average. Harvest continues light in Alabama, Georgia and Mississippi.

Cotton harvest has started in California. In Arizona, the crop is in good condition and defoliation has begun in Pima County. Cotton in New Mexico is in good condition and harvest is mostly limited to hand picking.

SOYBEANS: Frost early last week damaged soybeans in parts of the western Corn Belt causing light to moderate damage. Subnormal temperatures throughout the major soybean States continue to delay the crop. Most of the eastern half of the Nation had temperatures ranging from 3° to 14° below normal. Precipitation was light and scattered in the North Central States, but heavier rains were common from eastern Oklahoma, northeast to Maine and southeast to Florida.

The Corn Belt soybean crop has leaves turning in most States and leaves are starting to shed in earliest areas. In Illinois condition is mostly good, but only 20% is turning versus the average 60%. Iowa's soybeans are 26% turning compared with the average 44%. The Missouri crop is 83% setting pods, in 1973 89% had pods set.

In the South, soybean prospects continue to improve and many fields are beginning to mature

OTHER CROPS: Sorghum harvesting in Texas advanced to 52% complete versus 45% in 1973. Sorghum is 5% mature in Kansas while the crop is 50% turned.

Tobacco harvesting progress: In Virginia; flue-cured 58%, fire-cured 39%, burley 27%, sun-cured 57%. In North Carolina; flue-cured types 12 and 13, over 90%, type 11, 70% and burley, 20% harvested.

Rains delayed the peanut harvest in Georgia and harvest is well behind normal at only 17%. In Texas, 21% of the crop is dug.

Potato harvest is becoming active in southwest Idaho where storage deliveries are starting. Digging is increasing in Aroostock County, Maine, prospects are good.

Heavy to moderate rains delayed the rice harvest in Louisiana with 94% complete compared with only 45% harvested in 1973. In areas affected by Hurricane Carmen, 85% had been harvested. The Texas crop was 89% harvested versus 54% last year.

Hurricane Carmen damaged the sugarcane crop in Louisiana.

FRUITS AND NUTS: Apple harvesting increased in the MidAtlantic States and harvest is underway in Washington and Oregon on the early Delicious crop. The Hudson Valley McIntosh harvest is beginning.

Grape prospects look good in New York but cool weather is delaying development in some areas. California Thompson grape harvest is well underway.

VEGETABLES: Snap bean, cabbage, cauliflower and celery harvests continue in volume in New York and the tomato harvest is ahead of normal. In Ohio one-third of the processing tomatoes are harvested. Pickle harvest is virtually complete in Ohio and nearing completion in Michigan. Market tomatoes are steady at Stockton and increasing in southern California.

PASTURES AND LIVESTOCK: Pastures in much of the eastern half of the Nation continue to show improvement for fall grazing, while the pasture feed situation declines in most Western States. Livestock are being moved from summer ranges in Montana, Nevada, and Utah. Livestock are in poor to fair condition in Arizona where range feed is mostly short. Livestock conditions are good and continue to improve across Texas.

Temperature and Precipitation Data for the Week Ending Midnight, l.s.t., Sept. 8, 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 . . .	69	- 8	1.8	+ .9	La. Baton Rouge . . .	73	- 7	1.0	0	Youngstown . . .	58	- 8	.8	+ .2
Mobile . . .	73	- 7	8.8	+7.1	Lake Charles . . .	72	- 8	3.3	+2.3	OKLA. Okla. City . . .	64	-12	.9	+ .1
Montgomery . . .	70	- 9	.8	- .2	New Orleans . . .	75	- 5	4.7	+3.3	Tulsa . . .	63	-14	2.1	+1.2
ALASKA. Anchorage . . .	54	+ 2	T	- .6	Shreveport . . .	69	-11	2.3	+1.6	OREG. Astoria . . .	62	+ 2	.3	- .2
Barrow . . .	37	+ 3	T	- .1	MAINE. Caribou . . .	53	- 4	.8	0	Burns . . .	66	+ 5	0	- .1
Fairbanks . . .	56	+ 7	T	- .3	Portland . . .	57	- 5	2.0	+1.3	Medford . . .	72	+ 5	0	- .1
Juneau . . .	53	+ 2	.1	-1.3	MD. Baltimore . . .	67	- 4	2.7	+1.9	Pendleton . . .	71	+ 4	0	- .1
Kodiak . . .					MASS. Boston . . .	61	- 6	2.3	+1.5	Portland . . .	68	+ 4	T	- .3
Nome . . .	50	+ 4	T	- .7	Chatham . . .	63	- 1	2.9	- .7	Salem . . .	67	+ 3	T	- .2
ARIZ. Flagstaff . . .	65	+ 5	.4	- .1	MICH. Alpena . . .	53	- 6	T	- .7	PA. Allentown . . .	63	- 5	1.9	+1.0
Phoenix . . .	93	+ 7	T	- .2	Detroit . . .	60	- 7	.5	- .1	Erie . . .	60	- 4	.8	0
Tucson . . .	82	0	.6	+ .2	Flint . . .	58	- 6	.7	+ .1	Harrisburg . . .	65	- 5	2.1	+1.5
Winslow . . .	74	+ 2	.9	+ .7	Grand Rapids . . .	55	-11	.7	- .1	Philadelphia . . .	68	- 3	2.9	+2.1
Yuma . . .	92	+ 2	0	- .1	Houghton Lake . . .	53	- 7	T	- .7	Pittsburgh . . .	62	- 5	1.8	+1.2
ARK. Fort Smith . . .	65	-12	2.7	+2.0	Lansing . . .	55	-10	.6	0	Scranton . . .	62	- 4	1.6	+ .9
Little Rock . . .	68	- 8	2.2	+1.4	Marquette . . .	58	- 2	.2	- .6	R.I. Providence . . .	61	- 5	2.9	+2.1
CALIF. Bakersfield . . .	86	+ 7	0	0	Muskegon . . .	57	- 8	T	- .8	S.C. Charleston . . .	76	- 1	2.4	+1.1
Eureka . . .	59	+ 2	T	- .1	S. Ste. Marie . . .	55	- 3	T	- .9	Columbia . . .	72	- 5	2.5	+1.4
Fresno . . .	81	+ 5	0	0	MINN. Duluth . . .	52	- 6	.2	- .6	Greenville . . .	71	- 3	1.4	+ .5
Los Angeles . . .	78	+ 4	0	- .1	Internat'l Falls . . .	55	- 1	T	- .8	S.D. Aberdeen . . .	60	- 3	T	- .4
Red Bluff . . .	80	+ 3	0	- .1	Minneapolis . . .	58	- 6	.1	- .6	Huron . . .	61	- 4	T	- .3
San Diego . . .	73	+ 2	0	0	Rochester . . .	55	- 8	T	- .8	Rapid City . . .	60	- 4	0	- .3
San Francisco . . .	64	0	0	0	St. Cloud . . .	56	- 6	.3	- .4	Sioux Falls . . .	59	- 6	.2	- .5
Stockton . . .	80	+ 6	0	0	MISS. Jackson . . .	70	- 9	.8	0	TENN. Chattanooga . . .	68	- 7	1.8	0
COLO. Denver . . .	63	- 3	.3	+ .1	Meridian . . .	71	- 7	5.1	+4.3	Knoxville . . .	70	- 4	1.3	+ .6
Grand Junction . . .	71	0	0	- .2	MO. Columbia . . .	58	-13	.4	- .6	Memphis . . .	69	- 8	.5	- .3
Pueblo . . .	66	- 4	T	- .3	Kansas City . . .	59	-13	.3	- .7	Nashville . . .	68	- 7	5.3	+4.5
CONN. Bridgeport . . .	65	- 4	2.8	+2.1	St. Louis . . .	61	- 8	.4	- .2	TEX. Abilene . . .	66	-13	0	- .5
Hartford . . .	61	- 5	2.3	+1.4	Springfield . . .	59	-14	.8	- .1	Amarillo . . .	64	- 9	T	- .5
D.C. Washington . . .	70	- 4	3.3	+2.5	MONT. Billings . . .	60	- 3	T	- .3	Austin . . .	71	-10	T	- .8
FLA. Apalachicola . . .	79	- 1	9.9	+7.6	Glasgow . . .	58	- 3	T	- .3	Beaumont . . .	72	- 9	1.0	- .3
Daytona Beach . . .	80	- 1	2.8	+1.1	Great Falls . . .	58	- 3	.1	- .2	Brownsville . . .	79	- 4	0	-1.1
Ft. Myers . . .	83	0	2.6	+ .5	Havre . . .	57	- 4	T	- .3	Corpus Christi . . .	77	- 6	T	-1.2
Jacksonville . . .	78	- 2	2.0	+ .1	Helena . . .	57	- 2	T	- .3	Del Rio . . .	73	-10	1.6	+1.0
Key West . . .	84	0	.3	-1.3	Kalispell . . .	58	+ 1	T	- .3	El Paso . . .	76	- 1	.3	0
Lakeland . . .	81	0	.9	- .7	Miles City . . .	60	- 4	.1	- .2	Fort Worth . . .	71	-10	0	- .7
Miami . . .	83	+ 1	1.4	- .5	Missoula . . .	62	+ 3	T	- .3	Galveston . . .	73	- 9	.1	-1.2
Orlando . . .	81	0	1.5	- .2	NEBR. Grand Island . . .	62	- 6	T	- .6	Houston . . .	72	- 9	.2	- .9
Tallahassee . . .	78	- 2	6.7	+5.0	Lincoln . . .	60	- 9	.1	- .7	Lubbock . . .	67	- 7	T	- .5
Tampa . . .	81	- 1	3.2	+1.5	Norfolk . . .	61	- 6	T	- .6	Midland . . .	70	- 8	T	- .4
W. Palm Beach . . .	82	0	2.1	0	N. Platte . . .	61	- 5	T	- .5	San Angelo . . .	70	-10	T	- .6
GA. Atlanta . . .	68	- 7	.7	- .1	Omaha . . .	59	- 9	.1	- .7	San Antonio . . .	70	-12	T	- .8
Augusta . . .	72	- 5	2.3	+1.5	Valentine . . .	61	- 4	.1	- .3	Victoria . . .	75	- 7	T	-1.0
Macon . . .	72	- 6	2.4	+1.6	NEV. Ely . . .	66	+ 6	T	- .1	Waco . . .	72	-10	.2	- .5
Savannah . . .	77	- 1	1.6	+ .2	Las Vegas . . .	89	+ 6	.2	+ .1	Wichita Falls . . .	67	-14	T	- .6
HAWAII. Hilo . . .	77	+ 1	.8	-1.0	Reno . . .	66	+ 3	0	0	UTAH. Blanding . . .	69	+ 2	0	- .3
Honolulu . . .	80	- 1	1.0	+ .9	Winnemucca . . .	68	+ 5	0	- .1	Salt Lake City . . .	73	+ 4	T	- .2
Kahului . . .	78	- 1	.1	0	N.H. Concord . . .	58	- 5	2.3	+1.6	VT. Burlington . . .	58	- 5	.9	- .1
Lihue . . .	80	+ 1	.2	- .2	N.J. Atlantic City . . .	67	- 3	2.1	+1.3	VA. Lynchburg . . .	66	- 5	5.1	+4.3
IDAHO. Boise . . .	70	+ 3	0	- .1	Trenton . . .	65	- 5	2.6	+1.8	Norfolk . . .	73	- 1	3.2	+2.1
Lewiston . . .	71	+ 4	0	- .2	N.MEX. Albuquerque . . .	72	- 1	T	- .2	Richmond . . .	68	- 5	4.7	+3.8
Pocatello . . .	64	+ 1	0	- .1	Roswell . . .	70	- 4	T	- .3	Roanoke . . .	65	- 6	2.3	+1.5
ILL. Cairo . . .	65	-10	.2	- .7	N.Y. Albany . . .	58	- 7	1.5	+ .8	WASH. Colville . . .	61	- 1	0	- .2
Chicago . . .	58	-11	.2	- .5	Binghamton . . .	58	- 5	1.2	+ .5	Omak . . .	64	- 2	T	- .1
Moline . . .	58	-10	.3	- .6	Buffalo . . .	60	- 5	.7	- .1	Quillayute . . .	61	+ 3	2.1	+1.3
Peoria . . .	60	- 9	.1	- .7	New York . . .	64	- 7	3.5	+2.7	Seattle-Tacoma . . .	67	+ 5	.2	- .2
Rockford . . .	60	- 7	T	- .9	Rochester . . .	58	- 7	1.1	+ .5	Spokane . . .	65	+ 2	0	- .2
Springfield . . .	60	-10	.3	- .4	Syracuse . . .	59	- 7	1.9	+1.2	Walla Walla . . .	72	+ 3	0	- .1
IND. Evansville . . .	64	- 8	.2	- .5	N.C. Asheville . . .	66	- 4	1.5	+ .6	Yakima . . .	66	+ 2	T	- .1
Ft. Wayne . . .	60	- 8	.7	+ .1	Charlotte . . .	68	- 7	3.9	+3.1	W. Va. Beckley . . .	58	- 8	1.0	+ .2
Indianapolis . . .	61	- 8	.3	- .4	Greensboro . . .	68	- 5	4.9	+4.0	Charleston . . .	63	- 7	.7	0
South Bend . . .	60	- 7	.5	- .3	Hatteras . . .	80	- 4	.3	-1.2	Huntington . . .	63	- 8	1.4	+ .7
IOWA. Burlington . . .	58	-11	.5	- .3	Raleigh . . .	69	- 5	2.8	+1.8	Parkersburg . . .	62	- 8	.9	+ .2
Des Moines . . .	60	- 8	.3	- .5	Wilmington . . .	77	0	2.3	+ .8	WIS. Green Bay . . .	57	- 5	.1	- .7
Dubuque . . .	58	- 7	.1	-1.0	N. DAK. Bismarck . . .	55	- 7	.1	- .3	La Crosse . . .	58	- 7	.3	- .5
Sioux City . . .	62	- 5	.2	- .5	Fargo . . .	56	- 6	.1	- .4	Madison . . .	58	- 5	T	- .8
KANS. Concordia . . .	62	- 9	.4	- .4	Williston . . .	55	- 6	0	- .3	Milwaukee . . .	58	- 6	T	- .7
Dodge City . . .	64	- 9	.1	- .3	OHIO. Akron-Canton . . .	59	- 8	.5	- .1	WYO. Casper . . .	60	- 3	.1	- .1
Goodland . . .	63	- 5	T	- .4	Cincinnati . . .	61	-10	.5	- .2	Cheyenne . . .	61	- 1	.2	- .1
Topeka . . .	60	-12	.6	- .2	Cleveland . . .	59	- 8	.5	- .2	Lander . . .	61	- 1	0	- .2
Wichita . . .	62	-12	.8	0	Columbus . . .	61	- 7	.7	+ .1	Sheridan . . .	59	- 3	T	- .3
KY. Lexington . . .	63	- 9	1.6	+ .9	Dalyton . . .	59	-10	1.2	+ .6	P.R. San Juan . . .	83	+ 2	.9	- .6
Louisville . . .	63	- 9	.5	- .2	Toledo . . .	59	- 8	.4	- .2					

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: Cool with torrential rains over west and south from Hurricane Carmen. Rains 5.00 to 10.00 in south, ranging to 3.00 to 5.00 in. northward. Temperatures in low 50's north early 5th and 6th.

Light harvest cotton, corn and peanuts continued at slow pace as frequent rains slowed fieldwork. Cotton opening rapidly south half, many fields north. Corn 80% mature, harvest about 10% complete. Most soybeans setting pods, plants yellowing many fields, beans mature earliest fields. Peanuts inspected through September 6, 7,106 tons compared with 2,087 tons 1973. Limited amount of hay saved as rains slowed harvest. Stockmen prepared land and seeded winter grazing crops as weather permitted.

ALASKA: A warm dry week. Tanana Valley: Maximum temperatures averaged 9°, minimum 10° above normal. Seasonal precipitation is 2.75 in. below normal. Matanuska Valley: Maximum temperatures averaged 8° minimum, 6° above normal. Precipitation is 3.00 in. below seasonal normal. Kenai peninsula: Maximum temperatures averaged 4° and minimum temperatures 3° above normal. Precipitation is 3.50 in. below normal. Kodiak: Maximum temperatures averaged near normal and minimum temperatures were 3° above normal. Precipitation is 2.75 in. below normal for season. Growing degree days are much above the seasonal normal over entire State.

Grain harvest underway all areas of Railbelt. Hay and silage harvest in various stages of completion. Damage of vegetables in Palmer area from August 23rd freeze appears very minimal. Ground moisture supply generally short.

ARIZONA: Thundershowers central, east through midweek, near normal precipitation. Little precipitation extreme west. Heavy rains Prescott, Tucson areas. Damaging winds Tucson area, 6th. Temperatures above normal, near seasonal records over weekend.

Cotton good condition. Maricopa, Pima Counties 25 to 30% opened. Last irrigation some Maricopa farms. Pima County defoliation begun. Sorghum harvest continued Yuma. Planting sugarbeets southwest. Alfalfa hay harvest statewide. Alfalfa seed harvest increased Graham County, good yields. Lettuce Pima County good stand. Limited lime picking, sales underway Salt River Valley. Lemon harvest underway few groves, Yuma. Very little rain southeastern area, ranges mostly fair. Livestock condition poor to fair. Southwest desert valleys dry, range feed short. North central, northeast mostly adequate water, forage short, livestock condition poor to fair.

ARKANSAS: Unusually cool, wet week. Extremes: 43° and 84°. Precipitation general over State midweek with amounts ranging from 0.36 to 5.57 inches.

Crop prospects improved after rain. Soil moisture adequate to surplus. Cotton "cutting out". Damp fields, cool weather, new top growth slowed maturity, weevil populations high, cotton condition fair to good. Early rice harvest continued, cool nights slowed maturity, condition good. Soybean prospects improved, few fields near matu-

rity, fair to good condition. Harvest of corn and sorghum for grain stalled by wet fields. Growing conditions favorable for cool season grasses. Pastures fertilized and seeded. Hay condition good. Pastures average or better.

CALIFORNIA: Fair, warm weather continued over inland areas. Coastal sections had night, morning low cloudiness. Precipitation limited to thundershowers, Mono Lake area Sept. 2. High temperatures ranged from 60's on north coast to 80's along immediate south coast and into 90's in Los Angeles Basin. Highs near 100° Central Valley and continued over 100° southeast interior. Averages near normal all areas.

Cotton harvest started. Rice harvest starting. Cutting milo continues Imperial Valley, starting San Joaquin Valley. Planting sugarbeets Imperial Valley. Grapes sprayed for mites, leafhoppers. Thompson harvest well underway, Tokays starting Lodi. Early grape harvest Mendocino County delayed by weather. Almond harvest continues, walnut harvest nearing. Pear harvest nearly complete. Some Ukiah growers delaying mid-season apple harvest for size, color. Plum, prune harvests nearing completion. Warm weather causing avocado drop Santa Barbara. Granulation continues. Valencia oranges, new Navel crop developing well. Sunburn damage Canyon area lemons. Harvest continues seasonal levels broccoli, cauliflower, Salinas. Brussels sprouts light central coast, cantaloupe light westside, carrot steady Salinas, declining Hemet. Celery light, sweet corn and honeydew continues, and lettuce is steady, some sun scald. Potato and sweetpotato active. Market tomato steady Stockton, increasing south. Canning tomato in full swing. Range conditions dry, fire hazard present. Supplemental feeding stock on dry grass becoming common. Hay prices discouraging supplemental feeding. Livestock generally in good condition. Stock water ample most areas. Little movement cattle from high elevation. Sheep, cattle pasturing on grain stubble fields wherever possible.

COLORADO: Cool east 2d. Temperatures reaching only 50's; lows upper 30's and 40's. Weekly total precipitation east was trace to 0.66 in. at Rye. Western valleys remained dry through week. Warming east midweek, reaching above normal late week. High's during warm spell upper 80's and 90's.

Corn 86% dough, 53% dented, good to excellent condition. Corn silage harvest 16% complete. Sorghum fair to good condition, 90% headed, 43% turning color, 7% ripe. Dry beans 13% cut, 6% threshed. Alfalfa 86% second cut, 45% third cut. Local frost eastern areas, light crop damage.

FLORIDA: Temperatures averaged near normal, rainfall generally light to moderate south, moderate to locally heavy north and Panhandle.

Soil moisture adequate to excessive in most parts. Corn harvest active north and central, nearing completion in west. Soybeans good condition, maturing in west. Peanut harvest active. Cotton opening rapidly. Sugarcane crop good condition, cutting for seed underway. Silage and haymaking continues. Tobacco marketing nearing

completion. Land being prepared for small grains. Pastures good to excellent condition. Cattle and calves good to excellent. Citrus trees excellent condition, moisture adequate, new crop fruit sizing well. New crop grapefruit, oranges and tangerines moving to market. Celery transplanting continues in Everglades. Setting of cabbage underway Hastings, land preparation continues other areas. Snap bean, sweet corn, cucumber, eggplant, leaf crops, pepper, squash planting active.

GEORGIA: Moderate to locally heavy rains over State, 1.00 to 2.00 in. North and east; 2.00 to 3.00 in. west central and southwest; just over 5.00 in. reported in Mitchell County. Cool over State 5th lowering temperatures through weekend. Temperatures averaged 1 to 3° below normal.

Soil moisture adequate to surplus. Inclement weather delayed harvest corn and peanuts. Insect controls and moisture related diseases a problem. Cotton fair to mostly good, 1% harvested. Peanuts good, harvest well below normal at 17%, white mold troublesome. Corn good, 11% harvested. Soybeans good, insects increasing, control very difficult. Pastures and cattle good, best in recent years. Hay crops good condition, harvest delayed. Apple harvest still very active. Pecans fair to good, shedding continued fairly heavy.

HAWAII: Heavy rains fell over many usually dry sections. More rains needed to alleviate dry condition and increase water supply. Light losses occurred for few vegetable crops. Papaya production steady. Banana production seasonal increase. Pastures in lee areas very dry. Supplemental feeding increasing on some ranches and lighter than normal weight cattle being placed in feedlots. Prolonged dry weather on island of Hawaii affecting sugar crops. Premature harvesting in progress. Normal sugar harvesting taking place other islands. Pineapple harvesting on decline but field preparation, plantings in full swing.

IDAHO: A cold front moved in first of week, cooling temperatures and bringing trace of precipitation central mountain area and east. Porthill, north, and Pocatello, east, with 0.07 in. rain only measurable precipitation reported. Frost east and higher areas. Temperatures warmed midweek and weather remained mild.

Combining spring wheat and barley nearing 90% level. A few fields of winter wheat remaining. Preparing fields and applying fertilizer, rains needed for general seeding fall grain crops. Potato harvest becoming active southwest, storage deliveries starting. General harvest expected south central mid-month, east late September. Spotted frosts September 1 and 2, portions of Fremont, Madison and Teton Counties, damage varying from complete vine killing to burned top leaves. Dry beans good headway, crop 33% swathed, 10% threshed. Onion, processing corn harvest active. Livestock moving to harvested fields. Ranges and pastures very dry with extremely high fire danger.

ILLINOIS: Temperatures 7 to 12° below normal. Precipitation light; most amounts less than 0.50 in.

Corn dent stage 75%, both 1973 and average 90%; 25% mature, 46% 1973, average 52%; condition fair to good. Soybeans setting pods 90%, normally complete, nearly 20% turning yellow, 52% 1973, average 60%, condition mostly good. Third cutting alfalfa hay 80% complete, normal 70%. Plowing for 1975 winter wheat 85% complete, average 77%. Pastures

mostly fair to good. Soil moisture 29% short, 67% adequate, 4% surplus. Fieldwork: Average 5 days suitable.

INDIANA: Temperatures averaged 7° below normal. Lowest 36° on muck soil in north, highest 82°. No frost. Rainfall 0.30 to 0.60 in., north and southwest, 1.00 to 1.40 in. central and southeast.

Fieldwork averaged 4 days. Topsoil and subsoil moisture improved, mostly adequate. Deficiencies persist in northern counties. Corn 80% in dough or beyond, 95% average; 40% dented, 70% average; 10% mature, 15% average. Soybeans 10% turning yellow, 25% in 1973; 5% shedding leaves. Plowing of land for 1975 winter wheat 50% complete, 1 week behind average. Silos 15% filled, 20% 1972 and 1973. Tobacco harvest 20% complete, 25% 1972 and 1973. Pastures continued gains, mostly fair.

IOWA: Temperatures averaged 3 to 8° below normal with record lows on the 3rd and 4th. Precipitation averaged about 0.50 in. below normal.

Cool spell eases over weekend. Fieldwork: 5.8 days suitable, average 5.6. Corn in or past dough stage 82%. Corn in or past dent stage 58%, average 81%, safe from frost 25%, average 35%. Soybean podding nearly complete, leaves turning 26%, average 44%, leaves starting to shed. Third cutting alfalfa 64% complete yields fair to good. Second cutting clover nearly complete. Planting of winter wheat 10% complete. Topsoil moisture 17% short, 80% adequate, 3% surplus.

KANSAS: Temperatures 12° below normal southeast to 4° below normal northwest. Record lows early week. On morning of 3rd temperatures in frost range. Light frost reported several northern and western counties. Rainfall light west to heavy east. Some flooding extreme east central.

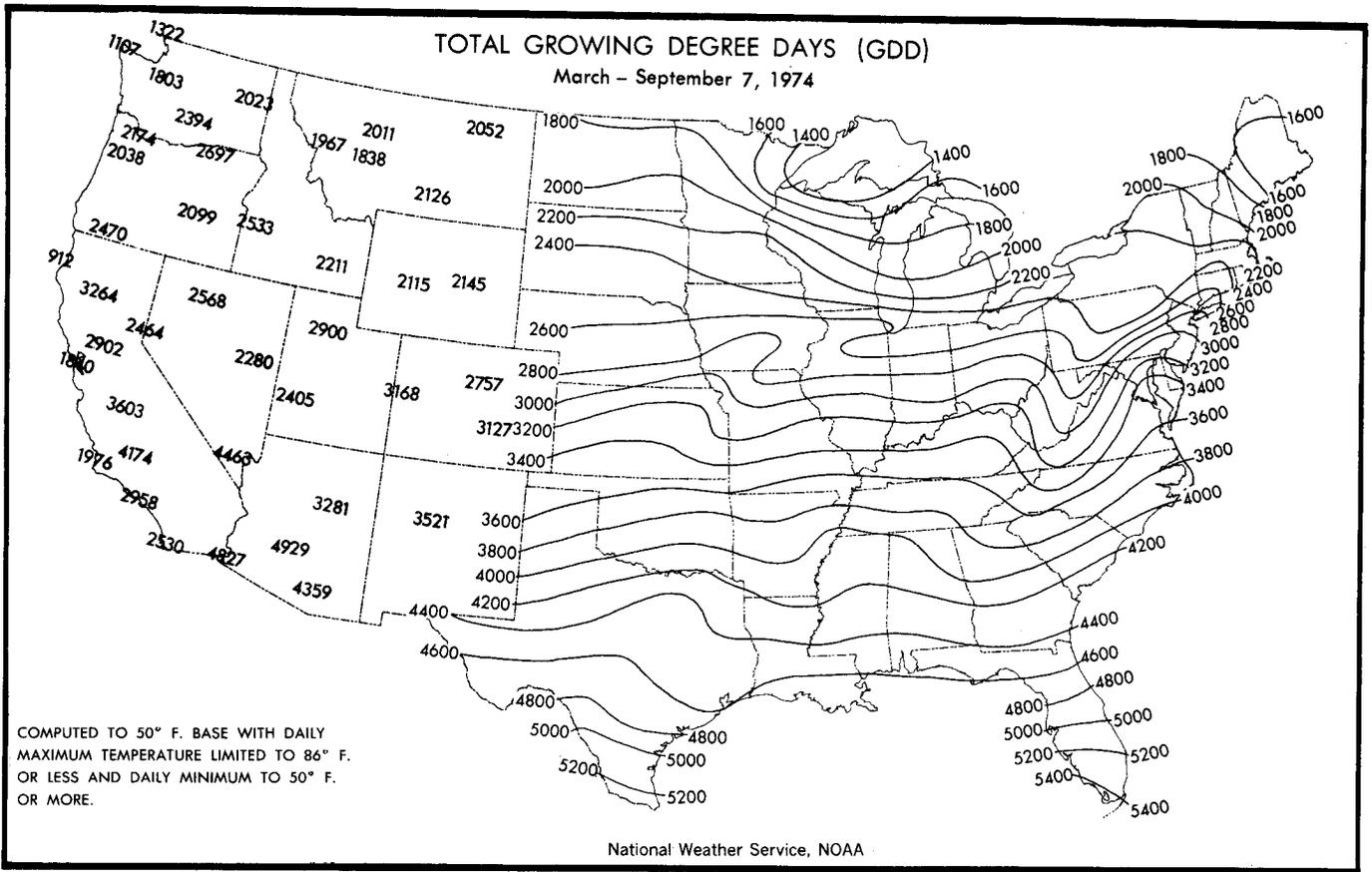
Recent rains benefited crops. Limited frost damage corn, sorghum low lying fields west central. Sorghum 85% headed, average 90%, 5% sorghum matured, 15% average. Corn 75% denting, same average. Harvesting corn underway southeast. Most soybeans podded, later than normal. Seeding wheat and barley started west. Less than 5% seeded, progress normal. Third cutting alfalfa 85% harvested, average 90%. Fourth cutting 10% completed, average 20%. New acreage alfalfa 35% seeded, average 50%. Some supplemental feeding western third.

KENTUCKY: Temperatures averaged 5 to 10° below normal. Precipitation mostly 2d and 3d with totals over 1.00 in. most areas.

Soil moisture generally excessive, 2.5 days favorable fieldwork. Tobacco cutting active at midweek, slowed by muddy ground and weekend precipitation. Burley approaching 33% cut, darks nearly 50% in barn, poor curing conditions. Corn making good progress, nearly 66% dented or beyond, 10% mature. Silage acreage 20% cut, versus 31% in 1973, harvest delayed by wet ground. Soybeans ripening slowly, 30% turning yellow or shedding leaves, 45% 1973. Fall hay harvest lagging, lespedeza 40% cut. New crop alfalfa 90% in ground, other fall plowing 15% finished. Pasture condition considerably above normal.

LOUISIANA: Cold front early week, Hurricane Carmen weekend. Temperatures 4 to 11° below normal. Extremes: 93° Bogalusa and Bunkie on 2d and 47° Winnfield 4th. Precipitation moderate to heavy. Totals near 1.00 in., northeast up to 4.00 in. other areas. Hurricane Carmen relatively dry. Greatest 1-day rain, 3.22 in., downtown New Orleans.

Field work possible 3.2 days. Soil moisture adequate to surplus. Insect control, haying, cane



planting and rice harvest main activities. Cotton good to fair, defoliation some fields, rains causing boll rot many fields. Soybeans good, early varieties beginning to mature, insects increasing later fields. Rains delayed rice harvest, 84% complete, 45% 1973, 70% 1972. Over 85% harvested in areas affected by Hurricane Carmen. Hurricane Carmen came inland Sept. 8, in sugarcane area, damage to crop has not been fully assessed. Sugarcane growth excellent. Sweetpotatoes good, 40% harvested, ahead of normal. Hay 80% cut, pastures average, livestock good to fair.

MARYLAND AND DELAWARE: Temperatures normal to 4° below normal. Highs low 80's to lows 90's, lows mid 40's to upper 50's. Precipitation under 1.00 in. to over 3.75 in., heaviest north central, southern and Eastern Shore Maryland. Fieldwork slow. Tobacco harvest 65%, usual 74%. High humidity causing curing problems. Corn 42% mature, 1973 40%. Silo filling 25% done, normal 33%. Soybeans still growing, 6% yellowing usual 9%. Fall vegetables being harvested. Peach and apple picking active.

MICHIGAN: Temperatures averaged 4 to 11° below normal. Scattered frost much of State early in week. Precipitation 0.20 to 0.70 in. southern half and extreme northern Lower Peninsula and central Upper Peninsula. Less than 0.20 in. elsewhere.

Cool weather slowed crop development. Light frost north caused only minor damage. Soil moisture mostly short south, short to adequate elsewhere. Fieldwork averaged 5.7 days. Corn 33% dented, 1973 64%. Corn silage 4% harvested. Soybeans 20% turned color, 1973 42%. Less than 5% dry beans harvested,

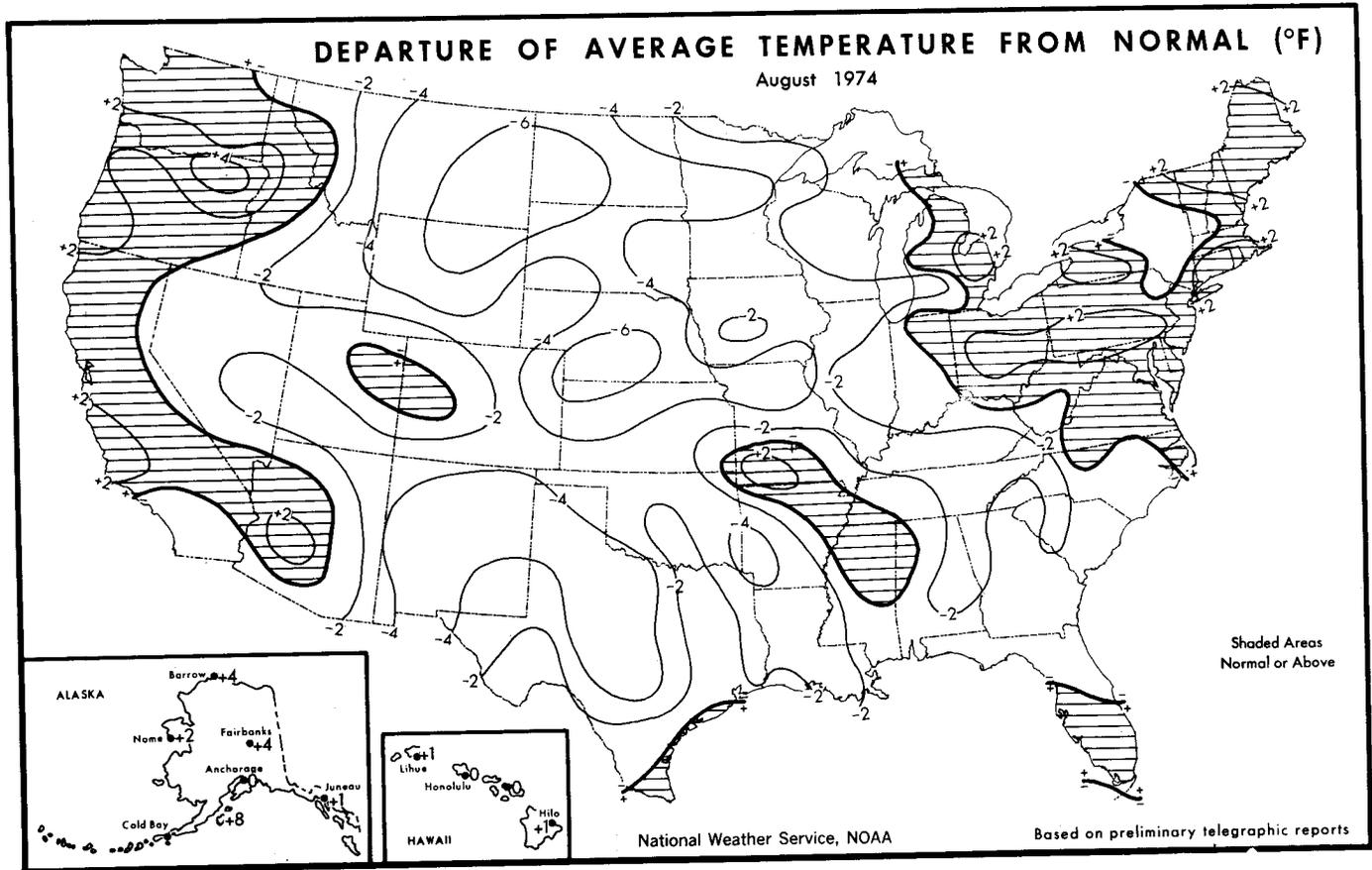
1973 42%. Dry soils limiting sizing of sugarbeets. Late potatoes maturing slowly. Third cutting hay 20% made. Pasture feed near average north, very short south. Peaches 75%, pears 45% harvested. Plum picking active southwest. Sweet corn 85% picked, tomatoes nearly half done. Pickle harvest nearing completion.

MINNESOTA: Temperatures averaged 5 to 7° below normal. Upper 20's and low 30's with frost early in week. Warmed to 70's and lower 80's by end of week. Precipitation mostly light and spotty. Traces southeast to 0.75 in. west central, with 0.10 to 0.33 in. elsewhere. Averages mostly 0.50 to 0.75 in. below normal.

Freeze damage to fall crops over Labor Day weekend, extensive (over 30%) central and east central; 10 to 30% south central, southwestern and large part of west central. Frost damage in most southeastern and northern one-third was light (less than 10%). Corn crop 54% dented and beyond, 1973 and average 66%. Soybeans 55% yellowing and beyond, 1973 83%, average 73%. Oat harvest 91% completed, average 98%; spring wheat 73% combined, average 96%; barley 79% harvested, average 98%; flax 61% combined, average 56%. Frost damage expected to affect quality and compound fall harvest problems. Artificial drying expected to be sharply above 1973.

MISSISSIPPI: Temperatures averaged 8° subnormal. Extremes: 90° and 43°. Greatest rainfall was 2.60 in. Generous rain over State, additional rain over southern third from Hurricane Carmen.

Soil moisture adequate to surplus. Fieldwork: 3.0 days suitable. Cotton 16% open bolls, less than (Continued on Page 11)



AUGUST WEATHER SUMMARY

HIGHLIGHTS: After a hot, dry July, August rainfall was generally normal or above and temperatures averaged below normal. Precipitation was well above normal in the southern Great Plains and southern Corn Belt, and many parts of the Southeast. Little or no rain fell in the Western States.

Temperatures averaged at least 2° below normal in most areas from the Rockies to the eastern Corn Belt and southern Appalachians. The western tier of States was above normal, as was the Northeast.

PRECIPITATION: Precipitation during August was generally normal or above with heaviest amounts early and late in the month. Rainfall ranged from none across most of California to 11.14 in. at San Angelo, Texas and 11.23 in. at Jacksonville, Fla. Numerous monthly records for total rainfall were set: In Texas, Austin 8.90 in.; San Antonio, 11.14 in.; and Waco 8.91 in.; in Ohio, Dayton 8.03 in. and Akron 8.19 in.; and in Montana, Great Falls 4.76 in., Havre 3.57 in., and Helena 4.23 in.

August began with welcome precipitation across the Corn Belt. Nearly 2.00 in. fell at Sioux City, Iowa and Grand Island, Nebr., and at least 0.50 in. over most of the Corn Belt.

During the week ending the 11th, good rains fell over the Texas High Plains for the second week in a row. The Corn Belt received 1.00 in. or more except for northern Illinois, Indiana, and Ohio. Widespread heavy rains occurred across six South-eastern States, with amounts ranging from 2.00 to 6.00 in.

Rain fell across the eastern two-thirds of the Nation during the week ending the 18th. The Far

West was dry and continued dry the remainder of the month. Over 1.00 in. fell across the Central Plains and most of Iowa, Missouri, and Ohio. There were heavy rains again in parts of the Southeast.

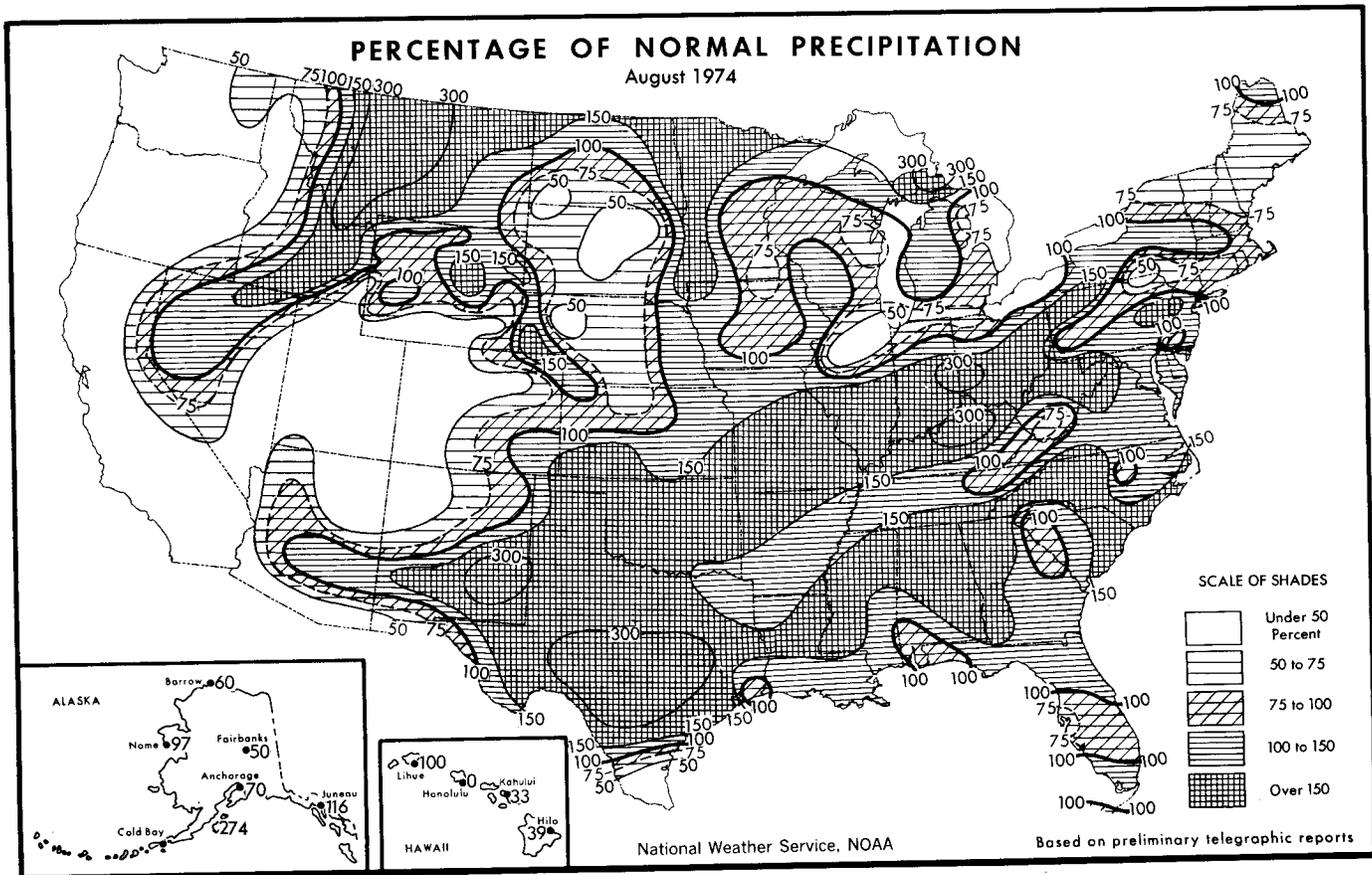
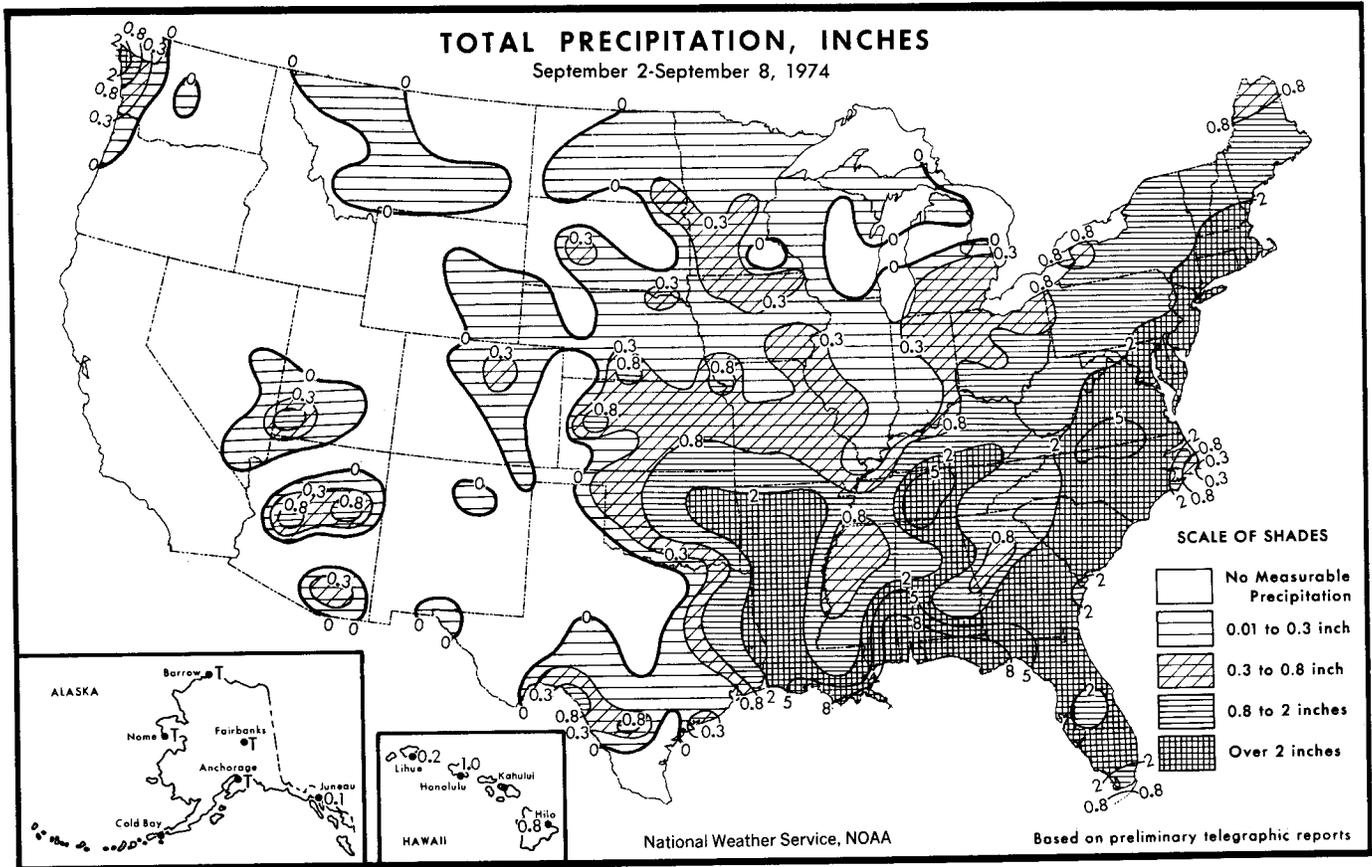
During the last 10 days of August, exceptionally heavy rains fell across many parts of the Nation. Rains of 2.00 in. or more were reported from Texas and Oklahoma to New England. Heaviest rains of 5.00 in. or more were centered over central Texas, central Alabama, and southern Ohio.

TEMPERATURE: Temperatures cooled markedly during August compared with July. Above normal areas were confined to the Northeast and the Far West. Parts of Montana, North Dakota, and Nebraska averaged 6° or more below normal.

Cool air moved into the Central Plains as August began, bringing welcome relief. Cool temperatures blanketed most of the Nation during the week ending the 11th. Most of the Great Plains averaged at least 6° below normal, with parts of Wyoming, Nebraska, Kansas, and Texas 10° below normal. Record low temperatures were reported on several mornings from Wyoming to Ohio.

Temperatures returned to near normal across the Nation during the week ending the 18th. The Pacific Northwest was the major exception where temperatures averaged 3 to 8° below normal.

Temperatures continued near normal into the week ending the 25th, but the month ended with readings much below normal over the Nation's midsection and much above in the eastern and western third. The Midwest and Northern Great Plains averaged 6 to 11° below normal.



August 1974
Temperature and Precipitation Data for

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 . . .	78	-1	8.3	+ 4.0	La. Baton Rouge . . .	80	-2	6.5	+ 1.8	Youngstown . . .	69	0	7.2	+ 3.0
Mobile . . .	81	-1	7.0	+ .1	Lake Charles . . .	81	-1	5.5	+ .7	OKLA. Okla. City . . .	79	-2	4.4	+ 1.8
Montgomery . . .	78	-3	10.4	+ 6.9	New Orleans . . .	80	-2	6.7	+ 1.4	Tulsa . . .	78	-3	5.3	+ 2.3
ALASKA. Anchorage . . .	56	0	1.6	- .7	Shreveport . . .	80	-3	3.8	+ 1.1	OREG. Astoria . . .	62	+2	.3	- 1.2
Barrow . . .	42	+4	.6	- .4	MAINE. Caribou . . .	64	+2	4.0	+ .2	Burns . . .	67	+1	.1	- .3
Fairbanks . . .	59	+4	1.1	- 1.1	Portland . . .	68	+2	1.5	- 1.1	Medford . . .	73	+3	T	- .3
Juneau . . .	55	+1	5.8	+ .8	MD. Baltimore . . .	75	0	5.9	+ 1.7	Pendleton . . .	76	+4	T	- .3
Kodiak . . .	63	+8	11.8	+ 7.5	MASS. Boston . . .	72	+1	3.4	- .1	Portland . . .	69	+2	.1	- .7
Nome . . .	51	+2	3.5	- .1	Chatham . . .	69	-	3.6	-	Salem . . .	67	+1	.1	- .5
ARIZ. Flagstaff . . .	65	+1	2.2	- .5	MICH. Alpena . . .	65	+1	2.0	- .7	PA. Allentown . . .	72	0	9.4	+ 5.2
Phoenix . . .	91	+2	1.2	0	Flint . . .	72	+1	3.0	- .3	Erie . . .	68	0	3.0	- .6
Tucson . . .	83	-1	1.0	- 1.3	Detroit . . .	70	+2	2.8	- .5	Harrisburg . . .	77	+3	4.1	+ .9
Winslow . . .	74	-2	T	- 1.5	Grand Rapids . . .	67	-3	4.6	+ 2.1	Philadelphia . . .	77	+2	3.8	- .3
Yuma . . .	92	-1	T	- .4	Houghton Lake . . .	65	0	2.8	+ .4	Pittsburgh . . .	73	+3	2.9	- .3
ARK. Fort Smith . . .	77	-4	6.2	+ 3.3	Lansing . . .	68	-2	2.7	- .1	Scranton . . .	69	-1	3.5	- .3
Little Rock . . .	79	-2	3.2	+ .2	Marquette . . .	65	-1	3.9	+ .9	R.I. Providence . . .	73	+3	3.1	- .8
CALIF. Bakersfield . . .	85	+3	0	0	Muskegon . . .	69	0	2.8	+ .2	S.C. Charleston . . .	79	-1	17.0	+10.6
Eureka . . .	58	+1	.3	0	S. Ste. Marie . . .	64	+1	9.5	+ 6.4	Columbia . . .	79	-1	6.2	+ .6
Fresno . . .	79	+1	T	0	MINN. Duluth . . .	60	-4	3.8	0	Greenville . . .	77	-1	4.0	- .1
Los Angeles . . .	73	-1	0	0	Internatl Falls . . .	62	-1	6.4	+ 3.0	S.D. Aberdeen . . .	68	-3	.9	- 1.2
Red Bluff . . .	81	+1	T	- .2	Minneapolis . . .	67	-2	2.8	- .3	Huron . . .	69	-3	1.3	- .7
San Diego . . .	70	-1	T	- .1	Rochester . . .	66	-3	2.4	- 1.2	Rapid City . . .	68	-4	1.4	- 1.2
San Francisco . . .	64	+1	T	0	St. Cloud . . .	64	-4	3.2	- .7	Sioux Falls . . .	68	-4	5.2	+ 2.4
Stockton . . .	76	+1	0	0	MISS. Jackson . . .	79	-2	6.2	+ 2.6	TENN. Chattanooga . . .	76	-2	6.1	+ 2.9
COLO. Denver . . .	70	-2	.2	- 1.1	Meridian . . .	81	0	4.2	+ .3	Knoxville . . .	74	-3	3.1	- .1
Grand Junction . . .	76	+1	.5	- .6	MO. Columbia . . .	72	-4	7.6	+ 3.8	Memphis . . .	81	+1	4.8	+ 1.5
Pueblo . . .	73	-2	1.8	- .2	Kansas City . . .	73	-4	5.0	+ 1.2	Nashville . . .	78	-1	4.1	+ .9
CONN. Bridgeport . . .	75	+2	3.0	- .8	St. Louis . . .	75	-2	5.1	+ 2.2	TEX. Abilene . . .	79	-5	5.6	+ 3.5
Hartford . . .	73	+3	3.4	- .5	Springfield . . .	79	-2	6.0	+ 3.1	Amarillo . . .	74	-4	7.6	+ 4.7
D.C. Washington . . .	78	+1	5.8	+ 1.1	MONT. Billings . . .	65	-5	2.2	+ 1.2	Austin . . .	81	-4	8.9	+ 6.7
FLA. Apalachicola . . .	81	-1	10.1	+ 2.0	Glasgow . . .	64	-5	2.7	+ 1.2	Beaumont . . .	81	-2	4.4	- 1.3
Daytona Beach . . .	80	-1	10.0	+ 3.2	Great Falls . . .	63	-4	4.8	+ 3.7	Brownsville . . .	85	+1	T	- 2.7
Ft. Myers . . .	83	0	7.7	0	Havre . . .	64	-4	3.6	+ 2.5	Corpus Christi . . .	85	0	1.1	- 2.1
Jacksonville . . .	80	-1	11.2	+ 3.3	Helena . . .	62	-4	4.2	+ 3.2	Del Rio . . .	84	-2	3.4	+ 2.2
Key West . . .	84	-1	4.1	- .4	Kalispell . . .	63	0	.7	- .6	El Paso . . .	77	-4	.6	- .5
Lakeland . . .	82	0	6.6	- .6	Miles City . . .	66	-7	1.4	+ .2	Fort Worth . . .	83	-2	4.2	+ 1.9
Miami . . .	84	+1	9.3	+ 2.6	Missoula . . .	65	0	1.2	+ .3	Galveston . . .	83	0	8.1	+ 3.7
Orlando . . .	82	0	6.6	.1	NEBR. Grand Island . . .	69	-6	1.6	- .9	Houston . . .	82	-1	6.9	+ 2.5
Tallahassee . . .	81	0	9.4	+ 2.5	Lincoln . . .	71	-5	4.5	+ 1.2	Lubbock . . .	74	-4	5.1	+ 3.2
Tampa . . .	83	+1	4.7	- 3.3	Norfolk . . .	69	-5	2.7	0	Midland . . .	80	-2	4.4	+ 2.9
W. Palm Beach . . .	83	+1	5.9	- 1.0	N. Platte . . .	67	-6	1.2	- .9	San Angelo . . .	80	-5	4.8	+ 3.4
GA. Atlanta . . .	77	-1	6.3	+ 2.8	Omaha . . .	71	-3	4.2	+ .2	San Antonio . . .	81	-4	11.1	+ 8.7
Augusta . . .	78	-2	3.9	- .3	Valentine . . .	69	-4	1.5	- .9	San Antonio . . .	81	-4	7.3	+ 4.1
Macon . . .	80	-1	4.6	+ .9	NEV. Ely . . .	64	-2	T	- .6	Victoria . . .	84	-1	8.9	+ 7.8
Savannah . . .	80	-1	7.9	+ 1.4	Las Vegas . . .	88	+1	.1	- .4	Waco . . .	84	-2	3.3	+ 1.5
HAWAII. Hilo . . .	77	+1	4.3	- 6.6	Reno . . .	66	-1	.2	0	Wichita Falls . . .	81	-5	3.3	+ 1.5
Honolulu . . .	81	0	T	- .8	Winnemucca . . .	67	-1	.4	+ .1	UTAH. Blanding . . .	69	-2	T	- 1.6
Kahului . . .	79	0	.1	- .2	N.H. Concord . . .	67	0	2.2	- .7	Salt Lake City . . .	74	-1	.3	- .6
Lihue . . .	80	+1	2.2	0	N.J. Atlantic City . . .	74	+1	5.5	+ .6	VT. Burlington . . .	69	+2	2.6	- 1.1
IDAHO. Boise . . .	72	0	.2	- .1	Trenton . . .	74	0	5.5	+ 1.3	VA. Lynchburg . . .	74	0	6.0	+ 1.9
Lewiston . . .	74	+2	T	- .6	N.MEX. Albuquerque . . .	73	-4	.8	- .5	Norfolk . . .	77	0	8.3	+ 2.4
Pocatello . . .	67	-3	1.5	+ .9	Roswell . . .	75	-3	6.5	+ 3.0	Richmond . . .	76	0	6.8	+ 1.7
ILL. Cairo . . .	77	-2	6.3	+ 2.8	N.Y. Albany . . .	68	-2	3.3	+ .6	Roanoke . . .	74	0	4.9	+ .7
Chicago . . .	72	-2	.9	- 2.2	Binghamton . . .	69	-2	1.7	- 1.9	WASH. Colville . . .	67	0	.5	- .4
Moline . . .	70	-3	3.4	0	Buffalo . . .	70	+2	3.6	+ .1	Omak . . .	69	+1	T	- .6
Peoria . . .	72	-2	.8	- 2.3	New York . . .	76	+1	6.1	+ 1.6	Quillayute . . .	59	0	.5	- 2.3
Rockford . . .	70	-2	2.2	- 1.5	Rochester . . .	71	+2	3.6	+ .6	Seattle-Tacoma . . .	65	+1	.1	- 1.0
Springfield . . .	73	-1	7.7	+ 5.0	Syracuse . . .	69	-1	4.6	+ 1.1	Spokane . . .	68	0	.4	- .2
IND. Evansville . . .	74	-2	6.9	+ 3.9	N.C. Asheville . . .	72	-1	7.3	+ 2.8	Walla Walla . . .	75	+1	T	- .5
Ft. Wayne . . .	72	+1	3.7	+ .8	Charlotte . . .	76	-2	6.4	+ 2.4	Yakima . . .	71	+2	T	- .3
Indianapolis . . .	72	-1	5.6	+ 2.8	Greensboro . . .	76	0	7.1	+ 2.8	W. Va. Beckley . . .	68	-1	2.8	- 1.0
South Bend . . .	72	+1	1.7	- 1.6	Hatteras . . .	78	0	11.0	+ 4.2	Charleston . . .	74	0	4.2	+ .5
IOWA. Burlington . . .	70	-4	4.0	+ .6	Raleigh . . .	76	-1	4.8	- .1	Huntington . . .	74	0	4.9	+ 1.6
Des Moines . . .	71	-2	2.8	- .5	Wilmington . . .	79	-1	13.3	+ 6.5	Parkersburg . . .	74	0	5.9	+ 2.6
Dubuque . . .	67	-3	4.1	+ .1	N.DAK. Bismarck . . .	63	-6	1.5	- .5	WIS. Green Bay . . .	67	-1	1.6	- 1.0
Sioux City . . .	71	-3	3.3	+ .3	Fargo . . .	64	-5	6.5	+ 3.6	La Crosse . . .	69	-2	4.2	+ 1.2
KANS. Concordia . . .	73	-4	2.4	- .8	Williston . . .	63	-6	2.5	+ .9	Madison . . .	67	-2	4.6	+ 1.5
Dodge City . . .	75	-3	6.9	+ 4.3	OHIO. Akron-Canton . . .	71	+1	8.2	+ 5.4	Milwaukee . . .	67	-2	2.5	- .2
Goodland . . .	68	-6	1.6	- .5	Cincinnati . . .	74	0	5.8	+ 3.2	WYO. Casper . . .	64	-6	1.0	+ .4
Topeka . . .	74	-3	4.9	+ .7	Cleveland . . .	70	0	3.3	+ .3	Cheyenne . . .	65	-3	1.3	- .2
Wichita . . .	77	-3	4.1	+ 1.0	Columbus . . .	74	+2	4.9	+ 2.0	Lander . . .	65	-4	.5	+ .1
KY. Lexington . . .	73	-2	11.2	+ 7.8	Dayton . . .	74	+1	8.0	+ 5.4	Sheridan . . .	63	-6	.7	- .3
Louisville . . .	75	-1	8.8	+ 5.8	Toledo . . .	72	+2	1.6	- 1.5	P.R. San Juan . . .	83	+2	6.6	- .4

Based on 1941-70 Normals.

(Continued from Page 7)

1% harvested; normal 14% open, 1% harvested. Soybean 23% turning, 9% shedding, 7% mature; 1973 17% turning, 3% shedding. Rice 26% mature, 17% harvested; normal 22% mature, less than 1% harvested. All major crops mostly fair.

MISSOURI: One of coolest early September weeks recorded; average 10 to 15° below normal. Record or near record lows 3d through 5th with St. Joseph and Kirksville recording 34° on 4th. Scattered frost across extreme northern Missouri but damage light. Good amounts of rain early in week. Ground generally wet with ample moisture for this season over most of State.

Fieldwork: 3 days suitable. Soil moisture supply adequate. Corn poor to fair condition 84% in dough stage, 63% dented, 77% dented 1973, 82% 5-year average. Soybeans fair to good condition, 83% setting pods, 89% 1973. Grain sorghum 88% headed, 19% mature, 30% mature 1973. Cotton fair to good condition, 3% bolls open, same as 1973. Third cutting alfalfa 71% complete, 90% 1973. Pastures fair to good condition.

MONTANA: Temperatures mostly near normal or little below. Dry week except scattered light showers midweek. Freezing or lower minimums west and south-west early in period.

Winter wheat seeding 15% done. Good moisture in seedbeds. Spring grain harvest completion: spring wheat 75%, barley 80%, oats 85%. Harvest pace slow due to shorter days and morning dews. Corn silage chopping 20% done. Frosts on 1st and 2d damaged some beans in lower Yellowstone. Livestock movement from summer ranges now 20% completed. Late summer range prospects mostly good. Grasshopper damage light to moderate.

NEBRASKA: Temperatures below normal most days. Early frost on the third.

Fieldwork: 6.6 days. Topsoil moisture supplies short 72%, subsoil moisture supplies short 82%. Fall seedbed preparation wheat, well underway. Frost September 3 statewide, central part hardest hit, damage worst in lowlands. Irrigated corn condition fair to good, frost damage light. Dryland corn mostly poor, further hurt by freeze. Much drought and frost damaged corn being cut for silage. Corn 90% dough, normal 100%, 70% dented, 78% normal. Sorghum condition mostly fair, 95% headed, normal 100%; 50% turned, 64% normal. Soybean conditions mostly fair, 95% podded, normal 100%. Wheat 10% sown, normal 18%. Alfalfa third cutting 85% harvested. Dry edible bean harvest expected by end of week. Range and pasture feed supplies short. Herds culled and cattle moved to winter range. Supplemental feeding continues.

NEVADA: Temperatures continued above normal, 2° above normal Reno to 8° above Austin and Fallon. Extremes: 29° Mountain City, 105° Las Vegas, Logandale. Continued dry northwest. Widely scattered thunderstorms southeast. Las Vegas most precipitation 0.32 in.

Harvesting small grain nearing completion. Third cutting alfalfa mostly completed. Alfalfa seed harvest full swing. Potato harvest to start Winnemucca area. Moisture supply short all areas. Livestock moving early from summer ranges.

NEW ENGLAND: Rains frequent, heaviest 3d, averaged 1.00 to 2.00 in. Daytime highs mostly 60-70°, lows mostly 50's south, 40's north.

Rainfall good for crop growth, but delayed haying, slowed corn maturity. Apples and cranberries sizing, coloring well, need more rain for cranberry water

harvest and frost protection. Potato digging increasing Aroostook County, Maine, prospects good, school recess to begin Sept. 16. Silage harvest increasing, prospects fair.

NEW JERSEY: Temperatures averaged 61° north, 65° central and 66° south. Extremes: 41° at Pemerton on 5th and 88° at several southern stations on 3d. Rainfall averaged 3.09 in. north, 2.53 in. central and 2.36 in. south. Heaviest daily total 2.46 in. at Caroe Brook on 3d and 4th.

Soil moisture expressed in % of field capacity averaged 96% north, 93% central and 88% in south. Wet weather slowed crop harvest. Preparation under way for sowing fall grains when soils become workable. Supplies of summer crops declining. Sweetpotato harvest beginning, apple harvest increasing, peach harvest nearing completion. Cranberry harvest to begin September 15. Silage and hay making delayed by weather.

NEW MEXICO: Quite cool early week warming toward weekend. Temperatures averaged 4 to 10° subnormal east, near normal west, rainfall very light with widely scattered showers early and late week; most totals less than 0.10 in.

Top moisture short to mostly adequate, subsoil mostly short. Cotton good, limited hand picking. Upland, Carlsbad: Boll set nearly complete, 10% open. Pima: Heavy bloom, bolls set well underway. Alfalfa good, 3d cut nearly complete, 4th 20% north, 65% south, 5th 10% south. Irrigated sorghum good, 50% in dough, east. Irrigated corn good, limited silage harvest. Dryland corn, sorghum fair. Fall grain seeding active. Apples, chile harvests under way. Fall lettuce good. Ranges, livestock fair to good.

NEW YORK: Cool, wet week; temperatures 5° below normal. Rain above normal generally, below normal extreme west and northwest. More than 2.00 in. at Poughkeepsie and Bridgehampton and 3.50 in. in New York City. Temperatures in 30's and low 40's 5th with scattered frost northeast. Rain southeast 6th and 7th.

Fieldwork conditions variable. Second cutting alfalfa 90% complete, third cutting 45%. Oats 90% harvested. Corn lagging maturity, silage harvest underway. Dry beans mostly good condition. Plowing for wheat started. Rain holding back potato harvest. Growers spraying vines with top killers. Onion pulling continues, need hot weather for curing. Sweet corn yields good, harvest 50% complete. Snap bean, cabbage, cauliflower, celery harvests continue in volume, tomato harvest ahead of normal. Hudson Valley McIntosh harvest beginning. Bartlett pears nearly finished-also Western peaches and pears. Chautauqua-Erie area grape prospects good, harvest of some French hybrids to begin next week. Cool weather delaying grape development Finger Lakes area. Rain causing cracked berries and mold on early maturing varieties.

NORTH CAROLINA: Above normal rainfall; temperatures below normal latter three days. Heavy rainfall in northern Piedmont.

Fieldwork: 3.2 days suitable. Soil moisture 57% surplus, 42% adequate, 1% short. Flue-cured tobacco types 12, 13 over 90% harvested, type 11, 70%; burley 20% harvested. Corn crop fair to good, 12% harvested. Cotton mostly good, needs dry weather. Soybeans improving, insect damage mounting. Peanuts fair to good need dry weather. Sorghum grains good. Land preparation for small grain planting beginning. Apples 33% harvested. Pastures good. Sweetpotatoes 16% harvested. Farm labor adequate.

NORTH DAKOTA: Temperatures below normal for State. Light and moderate frost observed during early part of week. Extremes: 89° to 24° at Breien. Precipitation trace to 0.24 in.

Grain harvest central and northern areas picked up past week with some respite from rains. Row crops advancing nicely. Some corn, beans and sunflowers frosted Labor Day weekend. Hard red spring wheat and barley combining about 66% finished. Durum 40%, oats 75%, flax 35%. Grain corn 75% dented or beyond.

OHIO: Below normal temperatures much of week setting record lows. General rainfall on 2d and 3d. Ranges: 0.38 in. to 1.39 in.

Corn 20% mature, 15% 1973, 25% normal. Soybeans 35% leaves turning yellow, 35% 1973, 40% normal; leaves shedding 10%, 5% 1973, 25% normal. Corn silage 20% harvested, 25% normal. Potato digging unchanged at 35%, 55% 1973, 40% average. Third cutting alfalfa hay 50% complete. Tobacco cutting 20% done, 45% normal. Red clover seed harvest over 50% finished. Apple harvest 10% complete. One-third processing tomatoes harvested. Pickle harvest virtually complete. Fall plowing 35% done, 60% normal. Fieldwork: 3 days favorable. Soil moisture 7% short, 51% adequate and 42% surplus. Extreme northwest counties driest. Crop conditions fair to good.

OKLAHOMA: Temperatures averaged 9 to 12° subnormal. Precipitation averaged from 0.55 in. Panhandle to 3.99 in. northeast. Weekend mild and dry except some rain in southeast.

Rains slowed fieldwork early week. Crops, pastures good growth. Fieldwork: 5.0 days suitable. Adequate moisture 86% surface, 74% subsoil. Major activities small grain seedbed preparation and seeding, fertilizing, combining sorghum grain, alfalfa seed, hay baling. Wheat 6% seeded, 3% stand, 1973 same. Corn, sorghum 1 week ahead previous year. Corn 7% harvested, sorghum 4%. Cotton 97% setting bolls, 4% bolls open, same 1973. Peanuts 96% spiking. Soybeans 80% setting pods, 2% mature, 1973 73% setting pods. Alfalfa seed combined 69%. Fourth cutting alfalfa hay 48% complete. Range and pasture grasses 66% good or excellent, best since June. Cattle mostly good condition.

OREGON: Warm over interior, highs in 80's and 90's. Mild coast in 60's and low 70's. Only precipitation 0.05 in. at Newport. Lows in 50's west of Cascades, 40's east. Few high elevation stations reported lows at 35 and 40°.

Grain harvest nearing completion. Fall seeded land preparations well underway. Alfalfa hay harvest continuing. Hops, mint near completion. Bartlett pear harvest 75% done, winter pears beginning. Veteran peaches, early Red Delicious being picked. Blackberry harvest continues. Walnuts good. Harvesting sweet corn, beets, onions, potatoes, cabbage. Ranges dry, feed supplies good, little cattle activity.

PENNSYLVANIA: Temperatures 2 to 9° below normal for coolest week since May. Daily highs generally 60's and 70's and lows 40's & 50's. Extremes: 88° and 30°, numerous record lows for date set 5th. Showers early in week and again 6th brought 2.00 to 3.00 in. southeast and 1.00 to 2.00 in. most other areas.

Soil moisture adequate to surplus. Corn maturity: silked 15%; dough 54%; dent 29%; mature 2%; about the same as 1973. Harvest of apples and early potatoes underway, size and yields good. Chopping of ensilage corn underway. Fall plowing 35% com-

pleted. Some winter barley and wheat planted. Pastures average. Little hay was harvested.

PUERTO RICO: Island average rainfall 2.00 in. highest weekly total 6.36 in. at Pico Del Este Luquillo followed by 6.29 in. at Quebradillas. Temperatures averaged about 80° on coasts and 75° interior. Highest 94° lowest 59°.

Heavy showers and thundershowers most sections caused some local flooding in low lying areas. Water storage levels remained normal. Recent rains helped development of sugarcane ratoons and new plantings mostly in south coastal areas. Fertilizing and cultivation progressing well under favorable weather. Showers benefited coffee farms and harvest operations continued in some sections. Tobacco plantations are in good condition, planting operations started most zones. Rainshowers helped development of pasture lands. Food crop zones started planting operations. Abundance of avocados, plantains, bananas and vegetables on market.

SOUTH CAROLINA: Temperatures averaged near normal mountains, northwest, northeast, south. Rainfall averaged 2.00 to 3.00 in. central, north central, west central, northeast much of south averaged only 1.00 in. extreme northwest average 1.50 in. Early week upper 80's to low 90's most areas. Cooler midweek, temperatures only upper 60's and low 70's many areas.

Soil moisture short some counties Piedmont wet coastal counties, adequate elsewhere. Tobacco marketing active. Cotton condition down, insects intensify 20% open bolls, 18% year ago. Corn condition fair to good, silage harvest nearing completion some areas, grain harvested 24%, 21% year ago, remaining crop 86% mature, 79% year ago. Soybean condition good; insect problems continue cause major concern; 86% setting pods, 6% leaves turning, 2% shedding leaves, 81%, 8% respectively 1973. Peanut harvest on schedule. Bunch type grapes harvested 96%, 86% 1973. Apples harvested 61%, 35% 1973. Pecan condition poor. Land preparation winter grazing, cover crops active.

SOUTH DAKOTA: Cool early; warmed by week's end. Averages 3 to 11° below normal. Lows in 20's many areas on 3d. Widely scattered thundershowers contributed less than 0.25 in. growing season moisture deficiency ranges from 2 to 6 in.

September 3d frost damaged row crops. Damage greatest north, varied east and south central. Corn and soybeans hardest hit. Corn 64% dented, normal 78%, 23% safe from frost, normal 23%, 1973 44%. Soybeans 35% shedding leaves, normal 30%. Sorghum 57% heads showing color, normal 60%. Flax harvest nearly complete. Alfalfa seed harvest started. Winter wheat seeding 23% complete, normal 20%, 1973 31%. Winter rye seeding 21% complete. Fall plowing 55% complete, ground too dry for plowing or seeding many areas. Silage making active. Pastures short and dry, supplemental feeding continues.

TENNESSEE: Cool, moist air across State throughout week. General rainfall about 1.00 to 2.00 in., with over 4.00 in. middle portions. Temperatures averaged 6° subnormal all sections.

Soybean growth slowed by cool weather, in good to excellent condition. Crop late. Early frost will be damaging. Cotton bolls 5% opened, normal 15%, 1973 10%. Boll weevils and worms worst in years, considerable damage. Corn 40% mature, about same as 1973 and normal. Silage harvest active. Late corn in good condition. Tobacco harvest slowed by wet weather, 40% cut, 1973 60%, normal 55%. Rain causing second growth and loss of quality. Pastures

in excellent condition for time of year. Hay harvest delayed and cut hay damaged by rain.

TEXAS: Unseasonably cool weather early in week. Thunderstorms dumped light to moderate rains south central to northeast Texas, while west remained dry. Cool most of week, readings from 3 to 4° below normal over south Texas, nearly a 10° deficit over Panhandle and east Texas. Hurricane Carmen hit east Texas by weekend, bringing rainfall. Totals for week averaged near 2.00 in. east, while near normal remainder of Texas.

Light to moderate rains fell east half, slowed harvest. West half light rains first week gave way to cool, dry weather last half. Planting small grains on High Plains resumed as fields dried. Moisture conditions for fall crops excellent. Prospects fall hay cutting improved since rains last of August. Major crops, percent harvested: Cotton 1974, 18, 1973, 6; corn 1974, 41, 1973, 32; sorghum 1974, 52, 1973, 45; peanuts 1974, 21, 1973, 21; rice 1974, 89, 1973, 54. Major crops, percent planted: Wheat 1974, 11, 1973, 12; oats 1974, 3, 1973, 3.

High Plains: Light potato digging continues. Carrots making good progress. Bell pepper harvest, tomato picking continues. Harvest of watermelons and cantaloups still active. Trans-Pecos: Mechanical harvesting of tomatoes in progress in Hudspeth County. North: Light supplies of watermelons, cantaloups and tomatoes still available. East: Most activity centered around harvest of sweetpotato crop, late watermelons still being harvested. San Antonio-Winter Garden: Some carrots, cucumbers, and young cabbage still showing damage by heavy rains on August 20. Peppers and eggplants making good growth. Coastal Bend: Fall watermelons planted where moisture permits, also some fall cucumbers have been planted. Lower Rio Grande Valley: Planting of fall vegetables and land preparation in full swing. Hot, dry weather creating increased irrigation requirements. First pecans of the 1974 season were harvested. Heavy irrigation of citrus continues.

Ranges continue to improve, grazing potential for fall excellent. Livestock condition good and continues to improve most areas. Hay baling active most areas with prospects additional cutting many areas. Sheep and goat shearing at peak on Edwards Plateau, South and Trans-Pecos. Ranchers continue watch for screwworm cases in southern half.

UTAH: Few widely scattered showers and thunderstorms south. Locally moderate moisture south central but not enough to relieve serious drought. Average temperatures near normal to 7° above.

Third crop alfalfa hay 45% harvested. About 75% total acreage will have 3 or more cuttings this year. Corn for silage, dry onions and potatoes 10% completed. Tomatoes 40% and sweet corn 80% harvested. Peaches ripening fast with nearly 60% crop picked. Winter wheat planting lagging with 25% in ground. Range feed prospects 60% of normal. Livestock moving in from summer ranges.

VIRGINIA: Warm, then cool most of week. Temperature extremes 93 and 41°. Rain moderate to heavy except light extreme southwest.

Fieldwork: 2.7 days suitable. Topsoil moisture 1% short, 41% adequate, and 58% surplus. Corn grain harvest 15% complete southeast, 4% Tidewater, both behind pace year ago. Corn silage harvest active all areas. Insect buildup soybeans, some lodging from rain. Peanuts good condition, disease, insect controls required, some leaf and stem rot

from rain. Tobacco harvest progress. Flue-cured 58%, 1973, 64%; fire-cured, 39%, 1973, 51%; burley 27%, 1973, 36%; sun-cured 57%, 1973, 47%. Some hay spoilage. Pastures excellent condition. Cabbage and sweetpotato harvest continue.

WASHINGTON: West: Average temperatures 2 to 5° above normal. Lows 50's, highs 90's. Scattered showers.

Blueberry and blackberry harvest continued. Small grain harvest about finished. Seed crop combining active. Vegetable harvest continued. Silage, sweet corn behind normal. Pastures dry. Livestock good. East: Temperatures 3 to 5° above normal. Highs 80's to 90's, lows 30's to 50's. Pear, peach picking active. Some delicious apple harvest underway. Harvest active on hops, potatoes, vegetables, spearmint, third cutting alfalfa. Small grain harvest finishing. Seeding underway.

WEST VIRGINIA: Temperatures near normal northeast and well below normal elsewhere. Precipitation generally above normal. Scattered frosts Randolph and Tucker Counties early 5th.

Rain slowed harvest and general fieldwork to 2.8 days. Soil moisture 1% short, 48% adequate, 51% surplus. Corn maturing rapidly, 8% silked, 44% dough, 35% dented, 13% mature, about same 1973. Silage making underway eastern panhandle. Weather unfavorable haymaking, some hay cut 7 to 10 days ago, beginning to rot in fields. Pastures improved, generally good.

WISCONSIN: Record low temperatures with a killing frost in the west and north early in week. Temperatures averaged 5 to 8° below normal. Cool, with gradual warming reaching mid-80's Sunday. Rainfall sparse, especially south and central with only traces. A few heavier amounts on weekend in north with Spooner reporting the only weekly total over 1.00 in.

Severe frost damage to corn and soybeans in west and north. Acreage lost for grain, may be utilized as silage. Chopping corn for silage started, crop still immature for best silage. Corn and soybeans south and east look good, need late fall, weeks favorable weather to mature. Corn 30% in dent, 1973 55%, normal 50%. Oats harvest about done. Second crop hay harvest near end, some third crop being made. Pastures need more rain to provide fall grazing. Some winter wheat seeded, little fall plowing done yet, too dry. Soil moisture 50% short, 50% adequate. Harvest active on tobacco, sweet corn, apples, potatoes, and vegetable crops. Snap beans and gardens west and north damaged by frost.

WYOMING: Temperatures from 3 to 13° below normal. Average high temperatures in low to mid-80's. Lows generally high 20's to mid-30's. Precipitation remained below normal, most stations reporting none to only a trace.

Barley, spring wheat 90% harvested and oats at 80% same as 1973. Winter wheat 50% planted and 7% emerged, 1973 50% and 15%. Alfalfa hay 2d cutting 85%, third cutting 25%, 1973 85% and 10%. Other hay near windup. Corn for silage 11%, 1973 5%. Corn for grain 20% dented, none mature, week behind 1973. Potatoes 2% dug, 1973 5%, 1972 80%. Dry beans 56% windrowed, 1% combined, 1973 30%, 5%. Topsoil moisture short except northeast. Stock water supplies generally adequate. Calf, lamb weights about same as 1973 except drought areas. Sheep movement normal, cattle movement slightly behind normal.

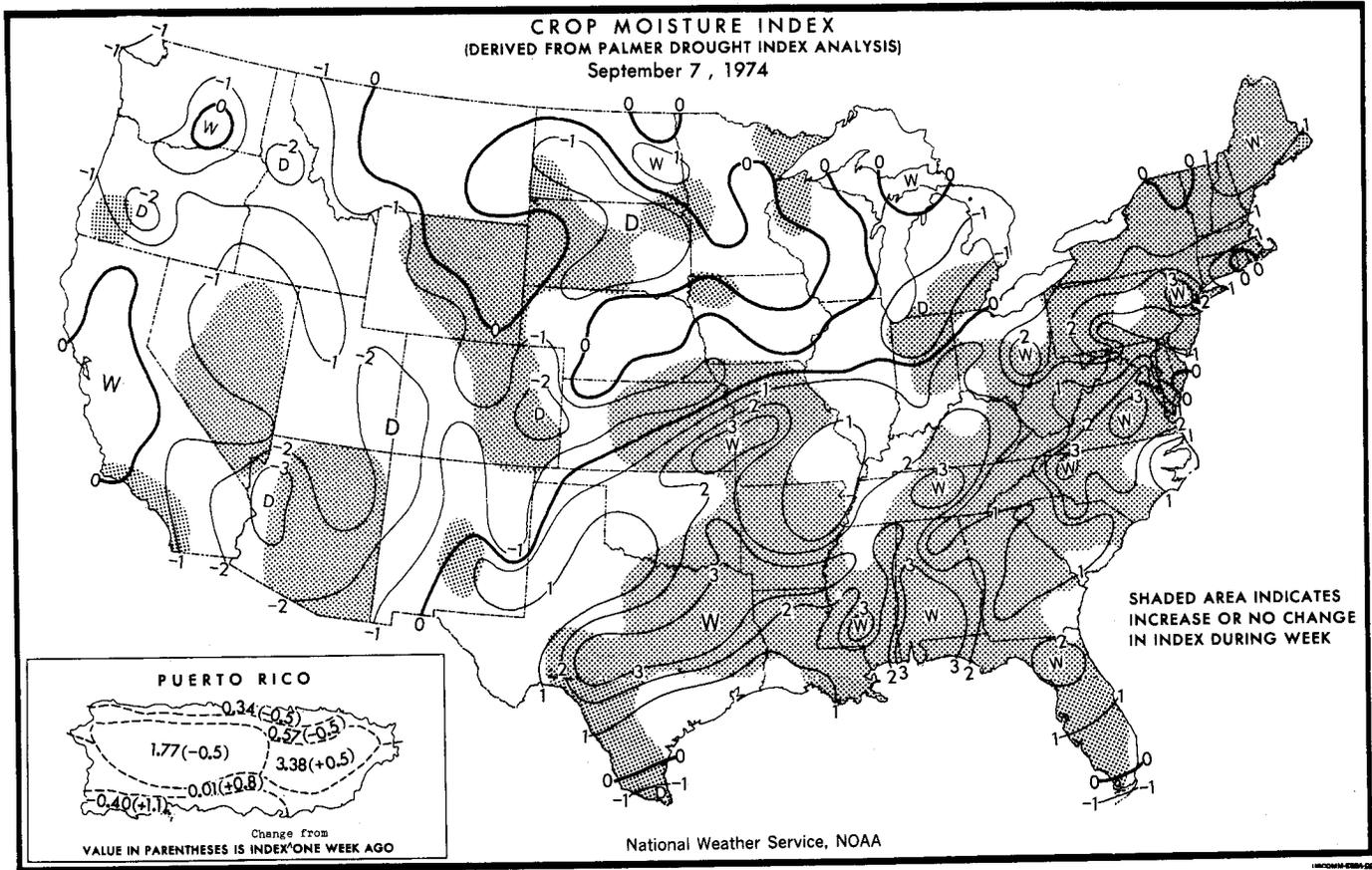
Heating Degree Days (Base 65° F.)

August 1974

ALA. Birmingham	0	MAINE, Caribou	66	OKLA. Okla. City	0
Mobile	0	Portland	17	Tulsa	0
Montgomery	0	MD. Baltimore	0	OREG. Astoria	97
ALASKA, Anchorage	264	MASS. Boston	2	Burns U.	60
Barrow	695	Chatham	0	Medford	6
Fairbanks	195	MICH. Alpena	63	Pendleton	0
Juneau	315	Detroit	2	Portland	16
Nome	419	Flint	10	Salem	28
ARIZ. Flagstaff	34	Grand Rapids	22	PA. Allentown	0
Phoenix	0	Houghton Lake	56	Erie	0
Tucson	0	Lansing	27	Harrisburg	0
Winslow	0	Marquette U	77	Philadelphia	0
Yuma	0	S. Ste. Marie	72	Pittsburgh	0
ARK. Fort Smith	0	MINN. Duluth	160	Scranton	2
Little Rock	0	Internatl Falls	133	R. I. Providence	0
CALIF. Bakersfield	0	Minneapolis	48	S. C. Charleston	0
Eureka U.	220	Rochester	50	Columbia	0
Fresno	0	St. Cloud	99	Greenville	0
Los Angeles U	0	MISS. Jackson	0	S. DAK. Aberdeen	43
Red Bluff	0	Meridian	0	Huron	36
Stockton	0	Vicksburg U	-	Rapid City	42
San Diego	0	MO. Columbia	2	Sioux Falls	39
San Francisco	54	Kansas City	6	TENN. Chattanooga	0
COLO. Denver	9	St. Louis	0	Knoxville	0
Grand Junction	0	Springfield	0	Memphis	0
Pueblo	0	MONT. Billings	76	Nashville	0
CONN. Bridgeport	0	Glasgow	88	TEX. Abilene	0
Hartford	1	Great Falls	109	Amarillo	0
D. C. Washington	0	Havre	91	Austin	0
FLA. Apalachicola	0	Helena	130	Beaumont	0
Ft. Myers	0	Kalispell	91	Brownsville	0
Jacksonville	0	Miles City	53	Corpus Christi	0
Key West	0	Missoula	60	Dallas	-
Lakeland U.	0	NEBR. Grand Island	27	Del Rio	0
Miami	0	Lincoln	14	El Paso	0
Orlando	0	Norfolk	18	Fort Worth	0
W. Palm Beach	0	North Platte	40	Galveston U.	0
Tallahassee	0	Omaha	15	Houston	0
Tampa	0	Valentine	39	Lubbock	0
GA. Atlanta	0	NEV. Ely	54	Midland	0
Augusta	0	Las Vegas	0	San Angelo	0
Macon	0	Reno	42	San Antonio	0
Savannah	0	Winnemucca	53	Victoria	0
IDAHO, Boise	11	N. H. Concord	26	Waco	0
Lewiston	0	N. J. Atlantic City	0	Wichita Falls	0
Pocatello	2	Trenton U	0	UTAH, Blanding R	-
ILL. Cairo U.	0	N. MEX. Albuquerque	2	Salt Lake City	5
Chicago	2	Roswell	0	VT. Burlington	6
Moline	8	N. Y. Albany	14	VA. Lynchburg	0
Peoria	1	Binghamton	5	Norfolk	0
Rockford	5	Buffalo	0	Richmond	0
Springfield	2	New York	0	Roanoke	0
IND. Evansville	0	Rochester	1	WASH. Colville	-
Fort Wayne	3	Syracuse	3	Omak	-
Indianapolis	5	N. C. Asheville	0	Quillayute	168
South Bend	3	Charlotte	0	Seattle-Tacoma	66
IOWA, Burlington	9	Greensboro	0	Spokane	22
Des Moines	12	Hatteras R.	0	Walla Walla U.	0
Dubuque	38	Raleigh	0	Yakima	8
Sioux City	7	Wilmington	0	W. VA. Beckley	7
KANS. Concordia	5	N. DAK. Bismarck	119	Charleston	0
Dodge City	1	Fargo	91	Huntington	0
Goodland	24	Williston U	100	Parkersburg U.	0
Topeka	3	OHIO. Akron-Canton	0	WIS. Green Bay	39
Wichita	0	Cincinnati U.	0	Madison	37
KY. Lexington	0	Cleveland	4	Milwaukee	20
Louisville	0	Columbus	0	WYO. Casper	61
LA. Baton Rouge	0	Dayton	0	Cheyenne	55
Lake Charles	0	Toledo	0	Lander	61
New Orleans	0	Youngstown	10	Sheridan	93
Shreveport	0				

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.



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HURRICANE CARMEN

Hurricane Carmen moved into the U.S. Gulf coast in the Weeks-Avery Island, La., areas at approximately 5 a.m. on Sunday, September 8, 1974. It dwindled in intensity very rapidly and was downgraded to a tropical storm by 2 p.m. Sunday. It followed a west northwesterly track and blew itself out over eastern Texas.

Hurricane Carmen was located 425 miles due south of New Orleans Friday afternoon and had been expected to follow a northeasterly track. Instead, the storm moved almost due north and then became nearly stationary on Saturday.

When Carmen began to move again, it followed a north northwesterly track, gradually declining in intensity. When the storm finally moved inland at 5 a.m. Sunday, it packed sustained winds of 125 mph and 155 mph gusts. Windspeeds then began to drop rapidly. Abbeville-New Iberia, La., reported winds of 110 mph.

By 11 a.m., Carmen was considered a minimal hurricane. The highest sustained winds were 75 mph near the center and gale force winds extended

out 35 miles.

By 2 p.m., Carmen was downgraded to a tropical storm with highest winds of 50 mph. By 5 p.m., the storm was located 40 miles northwest of Lake Charles, La. By 8 p.m. it had moved into eastern Texas with only 30 mph winds.

Rainfall from Carmen was much less than usual with amounts generally 2.00 to 4.00 in. However, the area affected most by the hurricane had also received nearly 2.00 in. earlier in the week so soils were already wet.

As of noon Monday, the remnants of Carmen were located 40 miles northeast of College Station, Texas.

Preliminary reports from various National Weather Service offices of maximum wind speeds and total precipitation follow: Mobile, Ala., 38 mph and 7.58 in.; Meridian, Miss., 23 mph and 4.13 in.; Jackson, Miss., 32 mph and 0.89 in.; Boothville, La., 38 mph and 7.81 in.; Alexandria, La., 48 mph and 1.59 in.; and Shreveport, La., 41 mph and 2.04 in.

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