

WEEKLY WEATHER AND CROP BULLETIN

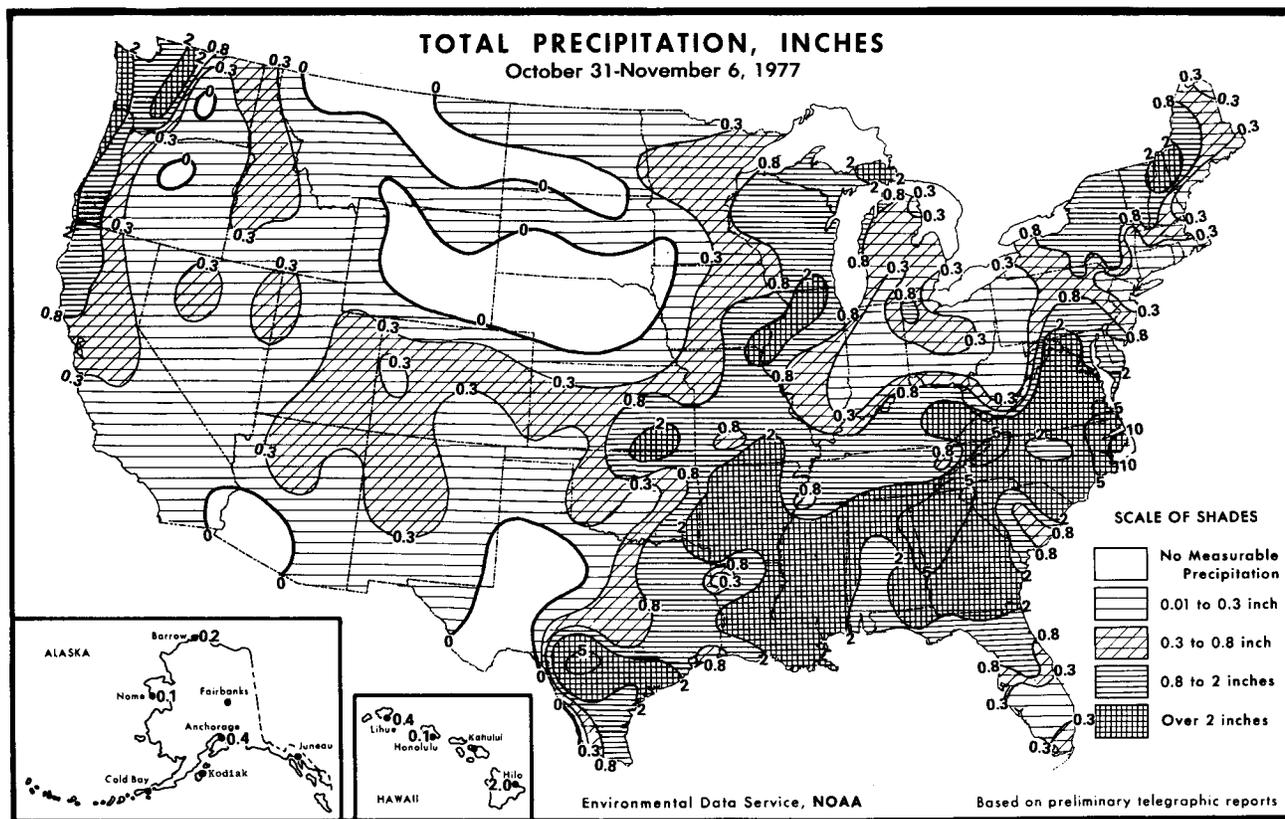
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National Weather Summary

October 31 - November 6

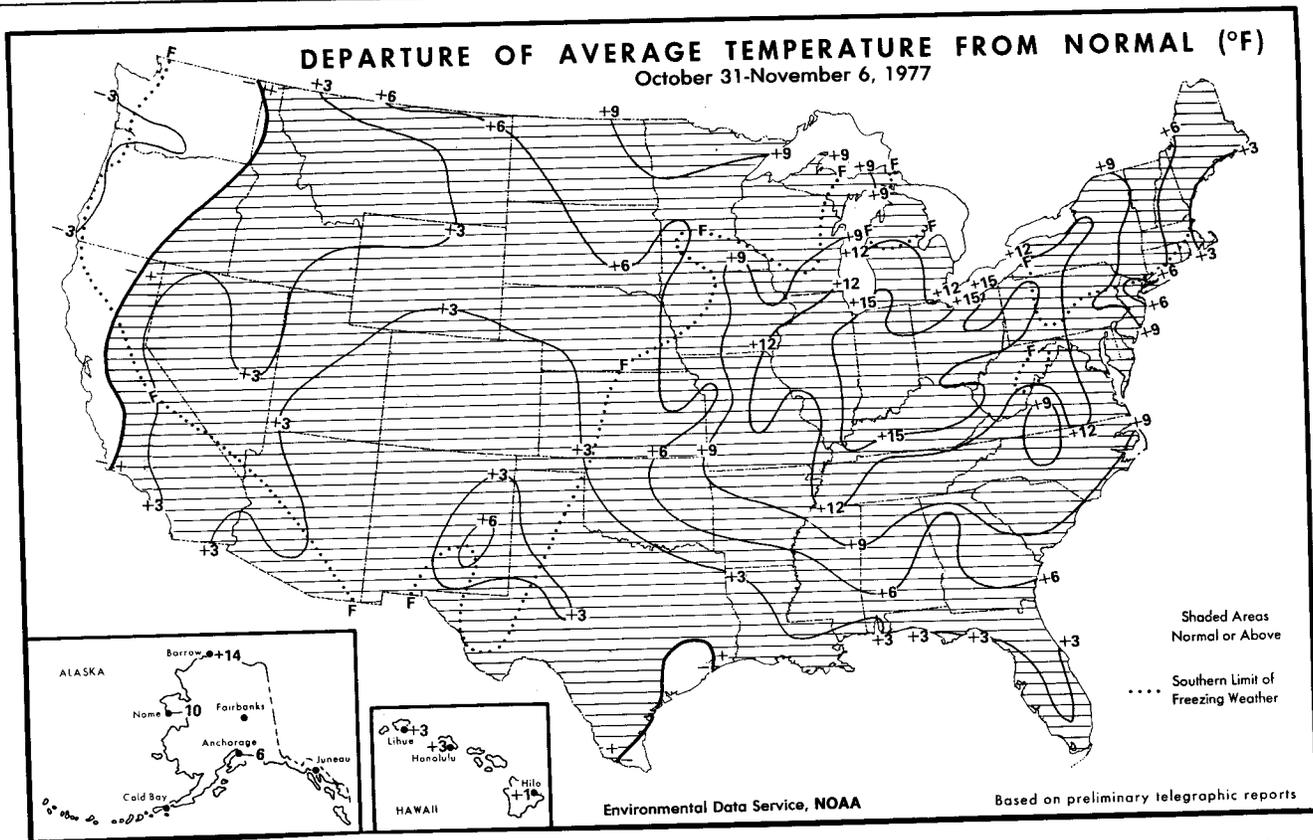
HIGHLIGHTS: Two items dominated the precipitation picture--an intense low pressure center moved from the Gulf Coast to the Southeast and became stationary. Rain, some locally heavy, fell from the Gulf to Maryland. Flooding caused many deaths and much property damage. The second weather system edged into the Pacific Northwest dampening the West Coast as far south as central California.

Temperatures were above normal over nearly the entire Nation--readings were slightly below average along the West Coast, but were as high as 15-17° above normal in the Midwest.

Showers and thunderstorms rumbled into Monday morning over much of the Mississippi Valley. Other storms extended along the entire Gulf Coast and the southern Atlantic Coast. A frontal system reaching from Canada to Texas was responsible for

much of the precipitation in the center of the country. By nightfall intense thunderstorms developed in the Texas/Arkansas border region. Storms in other sections produced hail south of Kansas City and rain in parts of the Rockies, Pacific Northwest, and western Great Lakes. Snow fell in some higher elevations; at midnight Denver reported 3 inches on the ground. Miami noted its driest October since records began in 1940--only 1.25 in. fell undercutting the former low measurement of 1.50 in.

Thunderstorms continued into Tuesday over the central and southeastern Plains through the Mississippi Valley to the lower Great Lakes. The frontal system triggering this rain also brought precipitation to the lower Ohio Valley. By afternoon 5 to 7 inches of rain had fallen in the San Antonio area while heavy rains dumped several



inches around the Texas/Arkansas border. A tornado was also sighted near Texarkana.

Another weather system carried rain and strong winds into the northwestern section of the country; snow fell in some western mountain regions. Night-time showers dampened the Atlantic Coast States from New England to Florida.

Thunderstorms persisted on Wednesday from Oklahoma and northeastern Texas to the lower two-thirds of the Mississippi Valley, Wisconsin, and western Michigan. By sunrise an inch and one-half of rain had fallen on Baton Rouge and New Orleans. Showers were scattered along the Atlantic and central Gulf Coasts.

The wet weather remained stationary over the South and Midwest as evening approached. Showers were widely scattered from the Dakotas to the northern Rockies where it changed into snow.

Parts of the western Plains became clear and warmed considerably from cold morning temperatures. Readings in North Platte, Nebr., jumped from 16° to 67° and Pueblo, Colo., saw the mercury rise from 18° to 69°.

Showers and some thunderstorms made it a dreary Thursday morning over the northern Plains, upper Great Lakes, middle Mississippi Valley to the lower Ohio Valley and Gulf Coast, and along the Atlantic Coast from southern New England to Florida. A low pressure center lingered over the South sparking much of the rain. Some funnel clouds were spotted around the Texas/Louisiana border and a tornado turned up southwest of Miami. Quarter-inch hail fell on Montgomery, Ala., after a heavy line of thunderstorms moved through the State.

Alamosa, Colo., set a record high for the day of 66° after notching the country's lowest temperature, 13°, the same day. Other record-breaking readings were 73° at Albany, N.Y., and Cape Hatteras' 80°. October data showed St. Joseph, Mo., accumulating 8.22 in. of rain topping the previous record of 6.59 in. The August-September-October period was measured at 25.52 in., the

highest ever for that quarter and St. Joseph's third largest rainfall in a three-month span.

The low pressure center became nearly stationary over the eastern Gulf Coast and in conjunction with frontal systems further north brought additional moisture to much of the eastern U.S. on Friday. The southeastern quadrant of the Nation was especially hard hit when up to two and one-half inches drenched some areas. A few showers sneaked into the extreme eastern sections of Arkansas and Louisiana while rain moved into the upper half of the Pacific Coast becoming snow in the higher elevations.

Temperature records for the day included new high readings at Wilmington, N.C., 84°, Scranton, Pa., 73°, and Casper, Wyo., 70°.

Three low pressure systems made it a dreary Saturday for a large part of the country. The one in the Southeast carried heavy rains from Florida to Virginia; some points in Georgia were soaked by 4 inches. A low center in the Far West set off rain and snow while another low pressure system formed over Nevada producing rain and snow up through the northern Rockies.

Record high temperatures warmed Columbus, Ohio, 76°, and Grand Junction, Colo., 75°.

The persistent rain in the Southeast resulted in tragedy. Several persons in North Carolina were killed by flash flooding. An earthen dam gave way at Toccoa in northeastern Georgia sending a wall of water through a valley where many lost their lives. Further up the Appalachians torrential rains threatened residents in the Virginias as the week closed. Meantime the heavy rain was spreading as far north as Washington, D.C. A cold front extended from the western Dakotas to Arizona, pushing rain and snow into most of the Rockies, Plateau Region, and western Plains. A one-hour snowfall in Flagstaff, Ariz., dumped 4 inches. Showers and some snow continued to fall from the Pacific Northwest into northern Idaho.

National Agricultural Summary

October 31 - November 6

HIGHLIGHTS: Rains throughout most of the South, parts of the Midwest, and Middle Atlantic States delayed harvests of feed grains and cotton. High temperatures kept pastures growing particularly in northern areas and also provided excellent conditions for germination and growth of small grain seedings. Corn harvest stood at 77% complete, an advance of only 7 points during the week. Last year at this time 86% was harvested--it's normally 70%. Soybean combining advanced to 74% lagging 1976's 82% and the 77% average. Cotton picking stood at 67%, far ahead of 1976 and the average. Sorghum harvest at 86% lagged 1976's 90% but surpassed the 77% average. Winter wheat seeding reached 95% slightly behind last year's 97% and the 98% average. Pastures rated fair to good, responding to high temperatures and rainfall. Only some western rangelands rated poor. Soil moisture rated adequate to surplus except in parts of Florida and Georgia and most of the West.

SMALL GRAINS: Winter wheat seeding advanced to 95% short of 1976's 97% and the 98% average. Planting was complete in the Great Plains except in Texas where seedings stood at 86%, one point ahead of last year but under the 91% average. Dry soils slowed Texas seedings and dryland wheat on the Plains suffered from lack of moisture. Planting also lagged in the north central States particularly Missouri's progress which stood at 54% compared with 83% in 1976. Frequent rains stalled Missouri's seeding rate.

Wheat rated fair to good, encouraged in most areas by adequate soil moisture and high temperatures. Soil moisture was short in parts of Texas and the Pacific Northwest. Cattlemen pastured 5% of the winter wheat seedings in Kansas and 7% in Oklahoma.

CORN: Rains delayed harvest progress in the western Corn Belt, but clear weather in some eastern areas allowed fast progress. Nationally harvest reached 77%, short of the 86% in 1976 but ahead of the 70% average.

In the eastern north central States harvest reached 70%, five points ahead of average but five points behind 1976. Ohio and Michigan farmers advanced 20 and 15 points respectively during one week; other States advanced much more slowly.

In the western north central States harvest stood at 74%, far short of 1976's 95% but ahead of the 71% average. Wet soils delayed progress except in South Dakota. Some areas expect to finish harvest only after soils freeze solid enough to support equipment.

SOYBEANS: The U. S. soybean harvest reached 74% falling behind both 1976's 82% and the 77% average. Rain and wet soils delayed harvest along with increasing the moisture content of the beans in some areas. Many areas also need frozen soils to complete the harvest.

In the eastern north central States combining reached 87% lagging 1976's 96% and the 90% average. Farmers in the eastern Corn Belt made better progress than in the western part advancing 6 points during the week compared with the West's 2 points.

In the western north central States harvest reached 79% compared with 94% in 1976 and the 87% average. Progress in individual States was only 1 to 5 points.

Progress in the south central States at 62% equalled last year and exceeded the 54% average. Harvest lagged last year in the Gulf Coast States.

COTTON: Picking reached 67% in the eleven southern States, an increase of only 7 points during the week; last year picking stood at 37% and on the average 39%. The pace was far ahead of last year in all States except in Georgia and Louisiana where progress about equalled 1976. Rains also delayed picking in most States. Texas harvest proceeded rapidly in defoliated High Plains fields. Freezing temperatures should speed the western High Plains harvest. The New Mexico harvest reached 45%. California growers picked under ideal weather conditions.

OTHER CROPS: Grain sorghum harvest fell behind advancing to 86%, short of 1976's 90% but ahead of the 77% average. Among the seven major States harvest was ahead of a year earlier in Texas and Colorado but lagged by 5 to 14 points in the others. Again rain was the culprit slowing harvest in Kansas and Missouri.

Rice harvest was almost complete. Rain delayed Texas' second crop. Arkansas producers plowed levees and disked fields. California growers were almost finished and began burning stubble.

Florida and Louisiana producers harvested sugarcane. Louisiana farmers reached 27% about equal to last year and the average.

Peanut digging was almost complete in the eastern production area although combining lagged in Virginia. Texas peanut harvest, at 81%, equalled last year when rain slowed progress in southern areas.

FRUITS AND NUTS: A few apples were harvested in northern areas, but generally picking was complete. Pecan harvest was very active; picking ranged from 32 to 43% complete. In the West growers harvested filberts and walnuts. Pacific Northwest growers prepared orchards for winter cleaning-up, spraying, and setting bait for pests. Florida citrus rated excellent with a good natural color break. Texas and Arizona growers harvested citrus. California producers picked lemons, tangerines, and Navel oranges.

VEGETABLES: Growers in northern areas harvested some onions and cabbage. Most activity was in the South where Florida vegetable shipments increased 56% from the previous week. Planting was active for various crops; weather was ideal for growth and maturity. Texas growers harvested peppers, tomatoes, squash, cucumbers, cabbage, and onions. California processing tomato harvest was complete.

PASTURES AND LIVESTOCK: Pastures rated good in the north central States, fair to good in the South Atlantic and south central regions, and poor to fair in most of the West. High temperatures and adequate soil moisture in most of the eastern half of the Nation kept grasslands in good condition, only some Florida grazing lands rated poor. Rains improved Pacific Northwest pastures along coastal areas; in other western areas grasslands needed more moisture. Cattle movement to winter grazing was almost complete.

Nov. 6, 1977

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

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 . . .	63	+ 7	1.8	+ 1.1	La. Baton Rouge . . .	65	+ 3	2.7	+ 2.0	Youngstown . . .	61	+15	T	- .7
Mobile . . .	64	+ 2	1.5	+ 1.0	Lake Charles . . .	65	+ 1	1.3	+ .5	OKLA. Okla. City . . .	58	+ 4	2	- .2
Montgomery . . .	65	+ 6	2.0	+ 1.4	New Orleans . . .	65	+ 1	2.7	+ 2.1	Tulsa . . .	62	+ 7	4	- .1
ALASKA. Anchorage . .	20	- 6	.4	+ .1	Shreveport . . .	62	+ 2	.2	- .5	OREG. Astoria . . .	46	- 3	3.0	+ .9
Barrow . . .	20	+14	.2	+ .1	MAINE. Caribou . . .	42	+ 5	.1	- .7	Burns . . .	40	0	2	- .1
Fairbanks . . .	---	---	---	---	Portland . . .	47	+ 3	T	- 1.0	Medford . . .	46	- 1	4	- .2
Juneau . . .	---	---	---	---	MD. Baltimore . . .	61	+10	1.6	+ .9	Pendleton . . .	43	- 2	1	- .3
Kodiak . . .	11	-10	.1	- .2	MASS. Boston . . .	53	+ 3	.3	- .6	Portland . . .	46	- 2	8	- .4
Nome . . .	43	+ 3	.6	+ .3	Chatham . . .	53	---	.1	---	Salem . . .	46	- 2	7	- .6
ARIZ. Flagstaff . . .	69	+ 5	T	- .1	MICH. Alpena . . .	49	+ 9	.2	- .3	PA. Allentown . . .	57	+ 9	4	- .3
Phoenix . . .	64	+ 1	.2	+ .1	Detroit . . .	56	+10	.2	- .4	Erie . . .	58	+13	3	- .5
Tucson . . .	51	+ 2	T	- .1	Flint . . .	56	+12	.4	- .2	Harrisburg . . .	58	+ 9	.9	+ .2
Winslow . . .	69	+ 1	T	- .1	Grand Rapids . . .	57	+13	.7	+ .1	Philadelphia . . .	62	+11	.5	+ .2
Yuma . . .	63	+ 8	1.6	+ .8	Houghton Lake . . .	51	+11	.4	- .2	Pittsburgh . . .	61	+15	.1	- .5
ARK. Fort Smith . . .	62	+ 7	3.4	+ 2.6	Lansing . . .	56	+12	.2	- .3	Scranton . . .	56	+10	1	- .6
Little Rock . . .	83	+ 3	.1	0	Marquette . . .	47	+ 7	.8	+ .1	R.I. Providence . . .	53	+ 5	T	- 1.0
CALIF. Bakersfield . .	51	- 2	1.2	0	Muskegon . . .	57	+13	.8	+ .1	S.C. Charleston . . .	69	+ 9	.3	- .2
Eureka . . .	58	0	.3	+ .1	S. Ste. Marie . . .	48	+ 9	2.1	+ 1.4	Columbia . . .	67	+ 9	.5	0
Fresno . . .	67	+ 2	.1	- .2	MINN. Duluth . . .	44	+ 8	.5	+ .1	Greenville . . .	65	+10	2.5	+ 1.8
Los Angeles . . .	56	- 2	.5	- .1	Internatl Falls . . .	43	+10	.1	- .2	S.D. Aberdeen . . .	45	+ 7	T	- .2
Red Bluff . . .	67	+ 4	T	- .2	Minneapolis . . .	49	+ 7	.7	+ .4	Huron . . .	47	+ 7	T	- .2
San Diego . . .	56	- 2	.4	0	Rochester . . .	49	+ 9	.3	0	Rapid City . . .	45	+ 4	T	- .1
San Francisco . . .	59	+ 2	.4	+ .1	St. Cloud . . .	63	+ 4	2.6	+ 1.9	Sioux Falls . . .	46	+ 6	T	- .2
Stockton . . .	59	+ 2	.4	+ .1	MISS. Jackson . . .	64	+ 6	2.1	+ 1.5	TENN. Chattanooga . .	63	+10	3.6	+ 2.8
COLO. Denver . . .	46	+ 2	.7	+ .5	Meridian . . .	62	+12	1.4	+ .9	Knoxville . . .	65	+11	.8	+ .1
Grand Junction . . .	47	+ 1	.2	0	MO. Columbia . . .	55	+ 5	1.4	- .1	Memphis . . .	68	+12	.5	- .3
Pueblo . . .	47	+ 1	T	- .2	Kansas City . . .	55	+ 5	1.4	- .1	Nashville . . .	64	+11	.9	+ .3
CONN. Bridgeport . . .	53	+ 6	T	- .9	St. Louis . . .	59	+ 8	.8	+ .2	TEX. Abilene . . .	59	0	T	- .4
Hartford . . .	53	+ 6	T	- .9	Springfield . . .	62	+11	.7	+ .1	Amarillo . . .	53	+ 2	.1	- .7
D.C. Washington . . .	64	+11	1.6	+ 1.0	MONT. Billings . . .	41	0	T	- .1	Austin . . .	65	+ 2	.8	+ .3
FLA. Apalachicola . .	67	+ 2	1.5	+ 1.0	Glasgow . . .	31	+ 3	T	- .1	Beaumont . . .	66	+ 2	.6	- .3
Daytona Beach . . .	71	+ 3	.4	- .3	Great Falls . . .	40	0	T	- .1	Brownsville . . .	70	- 1	1.0	+ .6
Ft. Myers . . .	73	+ 1	.1	- .4	Havre . . .	43	+ 6	0	- .1	Corpus Christi . . .	69	+ 1	.9	+ .5
Jacksonville . . .	69	+ 4	1.5	+ 1.0	Helena . . .	39	+ 2	T	- .1	Dallas . . .	66	+ 2	0	- .2
Key West . . .	79	+ 2	.5	- .3	Kalispell . . .	37	+ 2	T	- .3	Del Rio . . .	66	+ 2	0	- .2
Lakeland . . .	71	+ 1	.2	- .2	Miles City . . .	44	+ 5	T	- .1	El Paso . . .	58	+ 2	T	+ .3
Miami . . .	77	+ 3	.6	- .5	Missoula . . .	38	+ 1	.1	- .1	Fort Worth . . .	61	+ 1	.8	+ .2
Orlando . . .	74	+ 4	1.1	+ .6	NEBR. Grand Island . .	49	+ 5	T	- .2	Galveston . . .	67	0	.8	+ .2
Tallahassee . . .	67	+ 4	1.7	+ 1.2	Lincoln . . .	50	+ 4	T	- .2	Houston . . .	64	- 1	1.1	+ .2
Tampa . . .	72	+ 2	.4	0	Norfolk . . .	48	+ 5	T	- .2	Lubbock . . .	56	+ 3	0	- .2
W. Palm Beach . . .	75	+ 2	.1	- 1.0	N. Platte . . .	45	+ 3	T	- .1	Midland . . .	59	+ 3	T	- .3
GA. Atlanta . . .	61	+ 5	5.6	+ 4.9	Omaha . . .	51	+ 7	T	- .3	San Angelo . . .	63	+ 3	4.9	+ 4.4
Augusta . . .	67	+ 9	2.8	+ 2.4	Valentine . . .	46	+ 5	0	- .1	San Antonio . . .	65	+ 0	1.6	+ 1.0
Macon . . .	66	+ 7	2.9	+ 2.5	NEV. Ely . . .	62	+ 4	T	- .1	Victoria . . .	66	+ 2	.6	+ .1
Savannah . . .	68	+ 7	1.1	+ .7	Las Vegas . . .	40	+ 1	.2	+ .1	Waco . . .	58	+ 0	.1	- .3
HAWAII. Hilo . . .	75	+ 1	2.0	- .9	Reno . . .	47	+ 3	T	- .1	Wichita Falls . . .	45	+ 2	.5	+ .3
Honolulu . . .	81	+ 3	.1	- .5	Winnemucca . . .	46	+ 5	.3	+ .1	UTAH. Blanding . . .	50	+ 6	T	- .3
Kahului . . .	78	+ 2	.2	- .3	N.H. Concord . . .	48	+ 5	.1	- .7	Salt Lake City . . .	45	+ 2	.5	+ .3
Kuluhi . . .	79	+ 3	.4	- .8	N.J. Atlantic City . . .	60	+ 9	.6	- .4	VT. Burlington . . .	51	+ 9	1.2	+ .5
Lihue . . .	44	0	.3	0	Trenton . . .	58	+ 7	.3	- .4	VA. Lynchburg . . .	61	+ 9	2.6	+ 2.0
IDAHO. Boise . . .	44	0	.2	- .1	N.MEX. Albuquerque . .	52	+ 2	.3	+ .2	Norfolk . . .	66	+10	4.2	+ 3.6
Lewiston . . .	44	0	.2	- .1	Rosewell . . .	58	+ 6	T	- .1	Richmond . . .	65	+12	2.9	+ 2.2
Pocatello . . .	44	+ 3	.2	0	N.Y. Albany . . .	53	+ 8	.1	- .5	Roanoke . . .	60	+ 9	2.6	+ 2.0
ILL. Cairo . . .	66	+12	.3	0	Binghamton . . .	54	+10	.6	- .1	WASH. Colville . . .	37	- 2	.4	0
Chicago . . .	59	+12	1.2	+ .6	Buffalo . . .	57	+12	.4	- .4	Omak . . .	38	- 1	.3	0
Moline . . .	58	+12	1.7	+ 1.2	New York . . .	55	+ 3	.1	- .7	Quillayute . . .	44	- 2	3.5	+ .4
Peoria . . .	60	+14	1.5	+ 1.0	Rochester . . .	57	+11	1.0	+ .4	Seattle-Tacoma . . .	47	0	.9	- .3
Rockford . . .	56	+12	2.2	+ 1.6	Syracuse . . .	61	+15	.8	+ .1	Spokane . . .	40	0	.3	- .2
Springfield . . .	61	+13	.5	- .1	N.C. Asheville . . .	60	+10	4.4	+ 3.7	Walla Walla . . .	46	- 1	.1	- .3
IND. Evansville . . .	66	+16	.3	- .4	Charlotte . . .	65	+10	2.4	+ 1.8	Walla Walla . . .	40	- 3	T	- .2
Ft. Wayne . . .	60	+14	.6	- .6	Greensboro . . .	61	+ 8	1.5	+ .9	W.Va. Beckley . . .	58	+12	.1	- .5
Indianapolis . . .	65	+17	.1	- .6	Hatteras . . .	68	+ 8	14.8	+13.8	Charleston . . .	64	+14	.2	- .4
South Bend . . .	61	+16	.2	- .5	Raleigh . . .	64	+10	1.7	+ 1.1	Huntington . . .	66	+16	.8	+ .2
IOWA. Burlington . . .	58	+12	3.4	+ 2.9	Wilmington . . .	69	+ 9	4.8	+ 4.2	Parkersburg . . .	64	+14	.2	- .3
Des Moines . . .	53	+ 8	.6	+ .2	N.DAK. Bismarck . . .	45	+ 9	T	- .1	WIS. Green Bay . . .	49	+ 8	1.5	+ 1.1
Dubuque . . .	51	+ 8	.8	+ .2	Fargo . . .	46	+ 9	.4	+ .2	La Crosse . . .	49	+ 6	.7	+ .3
Sioux City . . .	49	+ 6	T	- .2	Williston . . .	41	+ 6	T	- .1	Madison . . .	50	+ 9	1.3	+ .9
KANS. Concordia . . .	52	+ 4	.3	+ .1	OHIO. Akron-Canton . .	57	+11	.3	- .3	Milwaukee . . .	54	+11	1.2	+ .8
Dodge City . . .	52	+ 3	.2	0	Cincinnati . . .	64	+15	.2	- .4	WYO. Casper . . .	42	+ 3	0	- .2
Goodland . . .	46	+ 2	.5	+ .4	Cleveland . . .	63	+16	.1	- .5	Cheyenne . . .	42	+ 2	0	- .2
Wichita . . .	56	+ 7	.8	+ .4	Columbus . . .	63	+16	.5	- .1	Lander . . .	40	+ 3	0	- .3
TOPEKA . . .	56	+ 5	1.1	+ .7	Dayton . . .	63	+16	.2	- .3	Sheridan . . .	42	+ 3	.1	- .1
WY. Lexington . . .	67	+17	1.2	+ .5	Toledo . . .	57	+12	.2	- .3	P.R. San Juan . . .	81	+ 1	1.1	- .2
Louisville . . .	66	+16	1.2	+ .5										

Based on 1941-70 normals

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State Summaries of Weather and Agriculture

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

ALABAMA: Warm with plenty of rain. Temperatures 6° above normal. Rainfall ranged from 1.50 to 5.50 in. with heaviest amounts in northeast and southeast.

Fieldwork: 3.3 days suitable. Soil moisture adequate to surplus. Farm activities included harvesting cotton, soybeans, and corn and seeding small grains. Cotton 72% harvested, 35% 1976, 52% average. Corn 91% harvested, 84% 1976, 79% average. Soybeans 49% harvested, 59% 1976, 61% average. Pecans fair to good, 39% harvested. Pastures fair to good and providing adequate grazing.

ARIZONA: Warm and fair; temperatures 1 to 6° above normal. First winter storm 4th, cooler temperatures, snow northern half, light rain southern half.

Wet, cold weather slowed field activities. Cotton harvest full volume. Sorghum harvest virtually complete. Fall sugarbeet harvest nearing completion. Spring beets good stand, growing well. Alfalfa haying virtually complete, new fields well established. Early planted wheat, barley good progress. Lettuce good progress central, west. Limited harvest underway. Other vegetables good progress. Cantaloup harvest virtually complete central areas, gaining momentum west. Lemon harvest full volume, warm weather limited sizing. Navel, other early oranges being picked. Limited grapefruit harvest. Higher ranges excellent condition, lower ranges improved. Soil moisture, stock water short in deserts. Most sheep moved to winter pastures. Cattle, sheep generally good condition.

ARKANSAS: Highest temperature 81°, lowest 36°. Very wet week; most rain 7.13 in.; least 0.21 in. Soil moisture adequate to surplus. Fieldwork: 2.3 days suitable. Soybean harvest slowed by rains; 53% crop harvested, 50% last year, average 47%. Fields disked for wheat seeding. Cotton second picking underway; harvest 87% complete, 67% last season, average 65%. Wet, windy weather slowed harvest. Rice harvest complete, 98% last year; levees plowed and fields disked. Sorghum harvest complete. Oat planting 62% complete, 74% year ago. Wheat planting 63% complete, 67% last year, average 71%. Some hay harvested. Pasture good to excellent. Cool weather made pastures ideal. Apple harvest complete. Livestock marketing steady. Herds gained well.

CALIFORNIA: Precipitation northern half; amounts ranged from 1.50 in. on northwest coast to traces in central San Joaquin Valley. Temperatures near normal with only mountain areas and north coast recording departures of 1 to 6° below normal.

Small grain planting active, moisture improved. New alfalfa fields up, seed alfalfa grazed. Soybeans, blackeyes, and milo harvests still underway. Rice harvest is nearly complete, stubble being burned. Cotton harvest in full swing, weather idea. Fruit crops harvested include avacados, dates, olives, persimmons, and kiwifruit. Light harvests of table and wine grapes, pomegranates. Desert lemons continue to be harvested. First of season navel oranges harvested. Good quality tangerines harvested. Walnut harvest continues. Brussels sprouts slow. Broccoli, carrots, and celery in good supply. Cauliflower moderate. Cantaloups, bellpeppers, onions, and fall potatoes

about done. Honeydew, lettuce, sweetpotato and tomatoes continue steady. Processing tomatoes complete. Low rangeland northern sections, improving where no overgrazing occurs. Rangeland grasses need moisture to continue growth. Supplemented water necessary. Calving continues, lambing begun.

COLORADO: Light precipitation over east early week; later general light precipitation. Midweek sunny and dry. Snow fell over higher mountain passes 6th. Temperatures near or slightly above normal.

Corn grain harvest 92% 1977, 63% 1976, 58% average. Sorghum harvested for grain 88% 1977, 80% 1976, 56% average. Sorghum cut for forage 99% 1977, 98% 1976, 98% average. Winter wheat condition mostly good. Soil moisture short to very short. Range and pasture poor west slope, fair elsewhere. Livestock condition good.

FLORIDA: Partly cloudy 31st through 2d becoming mostly cloudy 3d through 5th with scattered showers, thundershowers. Rainfall averaged 0.50 to 1.00 in. with locally heavier amounts. Temperatures near normal.

Soil moisture variable, short most areas, adequate along east coast. Soybean combining full swing. Peanut harvest about complete. Pecan harvest very active. Small grain seeding continues; early seeded grains good condition, but more moisture needed. Sugarcane good condition; harvesting for sugar increasing. Grazing conditions mostly poor to fair, declining seasonally. Cooler temperatures, decreased rainfall slowing growth pasture grasses. Rye and ryegrass seeding active for winter grazing. Cattle condition mostly good. Citrus condition excellent; rain all areas, most irrigation stopped. Excellent natural color break. Vegetable crop conditions continue mostly good to excellent. Harvest increasing. Overall outshipments up 56% from previous week. Snap bean, cucumber, eggplant, escarole, lettuce, pepper, sweet corn, tomato shipments increased substantially. Carrot, squash supplies also increasing. Radish supplies steady, okra decreasing. Plantings active various crops. Weather mostly ideal for growth and maturity. Moderate to heavy volume expected last half November, most crops.

GEORGIA: Temperatures 2 to 4° above normal southeast, 6 to 8° above normal west, ranging from upper 50's northeast to upper 60's south. Rainfall generally less than 1.00 in. north and 1.00 to 3.00 in. southwest.

Soil moisture varied, surplus north, very short south. Fieldwork: 4 days suitable. Peanuts fair; 99% dug, 97% threshed, last year 99% dug, 99% threshed. Corn rated poor; 92% harvested, 85% last year. Cotton poor to fair, 47% picked, 46% last year. Soybeans fair to good, 27% combined, 24% last year. Pastures fair to good. Cattle fair to good, hogs mostly good. Pecans fair to good; 32% harvested, 22% last year. Apples fair to good; 96% harvested, 100% last year. Wheat seeding 62%, rye 74%, other small grains 70%. Last year wheat 50%, rye 71%, other small grains 67%.

HAWAII: Weather cooler and wetter. Rains most sections beneficial. Winds gusty. Some bruising exposed areas crops.

Sugar strike 1st. Crop neglected. No immediate effect. Vegetable supplies: Head and Chinese cabbage, eggplant, tomato moderate, others light. Banana, papaya supplies heavy. Pineapple harvest light. Pastures: Rains beneficial most areas.

IDAHO: Temperatures normal to 5° above normal. Extremes: 69 and 8°. Precipitation at all reporting station ranging from 1.00 in. to trace.

Sugarbeet harvest continues. Other fieldwork complete. Livestock in good condition. Fall calving begun. Feed supplies adequate.

ILLINOIS: Temperatures 8 to 16° above normal. Precipitation over 1.00 in. north, less than 1.00 in. south, over 3.00 in. west.

Corn 75% harvested, 80% 1976, 75% average. Soybeans 90% combined, 100% 1976, 97% average. Grain sorghum 85% harvested. 1978 winter wheat 85% seeded, 95% last year and average. 1978 corn and soybean acreage 25% plowed, 40% last year and average. Pastures mostly good. Soil moisture adequate to surplus. Fieldwork: 2.3 days suitable.

INDIANA: Warm and cloudy. Temperatures 16° above normal and ranged from 47 to 77°. Rainfall of 0.30 to 0.50 in. widely distributed over several days. Sunshine only 23% of possible.

Fieldwork: 5 days suitable. Topsoil moisture mostly adequate to surplus, subsoil moisture adequate. Corn 70% harvested, 1976 70%, average 55%. Soybeans 80% combined, 1976 90%, average 80%. Wheat 85% seeded, 1976 95%. Wheat 60% emerged, 1976 80%. Wheat stands good. Pastures fair to good.

IOWA: Warm with frequent fog and considerable cloudiness. Rainfall varied from light over the northwest to heavy in most southeast and east central areas.

Fields remain wet, harvest near standstill. Topsoil and subsoil moisture adequate to surplus. Fieldwork: 3 days suitable. Harvest for corn 75% complete, complete last year, 66% normal. Soybean harvest 85% complete, complete last year, 95% normal. Fall plowing 22% complete. Livestock in good condition, activity in feeder cattle increasing.

KANSAS: Moisture first half week; many stations reporting 0.25 to 0.50 in. west, from 0.75 to over 1.00 in. northeast. Excessive amounts, 3.00 to over 4.00 in. southeast. Temperatures 48° northwest to 60° southeast; from 2 to 4° above normal west and from 6 to 8° above normal east.

Moisture conditions approaching critical west; eastern portion rainfall delaying harvest, wheat seedings. Localized hail damage. Wheat seeding virtually finished. Pasturing of wheat 5%, last year none, average 5%. Winter barley seedings winding up. Corn harvest 90%, last year 85%, average 70%. Harvesting sorghum 80%, last year 85%, average 65%. Soybeans harvested 65%, last year 85%, average 70%. Heavy rains east will cause slowdown. Sugarbeet harvest finishing. Pastures and ranges west deteriorating, but still above average. Weaning fall calves. Livestock grazing stubble, volunteer wheat, sudan fields.

KENTUCKY: Temperatures 10 to 15° above normal. Precipitation averaged about 0.67 in. west to just over 1.00 in. east.

Fieldwork: 5 days favorable. Activities: Corn and soybean harvest, seeding wheat and cover crops, stripping tobacco and fall plowing. Soil moisture adequate. Corn for grain harvest 80% complete,

ahead of last year's 74% and average of 75%. Corn harvested in heavy producing west approaching 90%. Soybean harvest accelerated as farmers completed corn harvest. About 68% of soybeans have been combined, 66% last year, and 68% average. Farmers stripping tobacco; markets open 21st. Progress at 38% stripped ahead of last year's 28% and average of 24%. Wheat acreage seeded at 82% is slightly ahead of average. Condition of emerged grain mostly good. Pastures in excellent condition.

LOUISIANA: Temperatures 1 to 4° above normal. Extremes: 41 and 84°. Rain several days; heavy southeast half, light northwest.

Soil moisture short northwest, adequate to surplus elsewhere. Main activities: Harvesting cotton, soybeans and sugarcane, and fall plowing. Cotton 80% harvested, 79% last year, 56% average. Soybeans 72% harvested, 89% last year, 70% average. Sugarcane 27% harvested, 29% last year, 28% average. Sweetpotatoes 89% harvested, 95% last year. Wheat 64% seeded, 82% last year. Oats 64% seeded, 88% last year. Pecans 40% harvested. Pastures and livestock fair to good. Some cattle receiving supplemental feed.

MARYLAND & DELAWARE: Temperatures well above normal. Highs averaged in mid-60's; lows in upper 40's with mountain areas slightly cooler. Precipitation amounted to 0.50 to 1.00 in. of rain. Weekend began fair and warm then turned cool and rain hit again on 6th.

Topsoil moisture adequate to surplus, subsoil adequate. Pastures supplying average to above average amounts of feed. Wet weather brought field activities to a standstill. Corn for grain over 95% harvested, well ahead of average. Soybeans 50% harvested, 57% 1976, 53% average. Tobacco growers stripping crop and preparing plant beds.

MICHIGAN: Temperatures above normal ranging 8 to 15° above over Lower and 6 to 9° above over Upper Peninsula. Extremes: 21 and 73°. Generally mild days. Precipitation 0.40 in. to 1.40 in. over extreme western Lower, less than 0.40 in. elsewhere Lower; in Upper 0.20 in. to 1.50 in. west and 1.00 to 2.00 in. east.

Fieldwork: 5 days suitable. Field activity: Corn picking, combining soybeans, digging sugarbeets and fall plowing. Soil moisture adequate to surplus. Pastures average or above. Fall plowing 20% complete, 30% 1976. Corn 50% picked, 78% 1976, 57% normal. Winter wheat 80% seeded. Dry beans 85% picked. Soybeans 70% picked, 91% 1976, 82% normal. Sugarbeets 90% dug, 96% 1976, 85% normal. Potato harvest virtually complete.

MINNESOTA: Temperatures 6 to 14° above normal. Extremes: 67 and 21°. Precipitation less than 0.50 in. north and extreme southeast and 0.50 to 1.00 in. elsewhere except 1.00 to 1.16 in. central and west central.

Harvest nearing completion. Wet fields causing most delays. Soil moisture mostly adequate, surplus few areas. Percent harvested: Corn 90%, 1976 98%, normal 86%; soybeans 96%, 1976 99%, normal 97%; sunflowers 98%, 1976 99%, normal 97%.

MISSISSIPPI: Temperatures 5° above normal. Extremes: 84 and 42°.

Soil moisture adequate to surplus. Fieldwork: 2.8 days suitable. Soybeans 98% mature; 62% harvested, 67% 1976, 51% average. Cotton 84% harvested, 70% 1976, 58% average. Rice 97% harvested. Corn 90% harvested, 84% 1976, 78% average. Sorghums 94% harvested, 95% 1976, 89% average. Peanuts 98% harvested. Pecans 43% harvested, 26%

Heating Degree Days (Base 65° F.)

October 1977

ALA. Birmingham	176	MAINE, Caribou	657	OKLA. Okla. City	115
Mobile	73	Portland	518	Tulsa	118
Montgomery	87	MD. Baltimore	276	OREG. Astoria	403
ALASKA, Anchorage	822	MASS. Boston	304	Burns U.	499
Barrow	---	Chatham	355	Medford	359
Fairbanks	1216	MICH. Alpena	587	Pendleton	460
Juneau	695	Detroit	524	Portland	228
Nome	1169	Flint	496	Salem	392
ARIZ. Flagstaff	432	Grand Rapids	501	PA. Allentown	356
Phoenix	0	Houghton Lake	610	Erie	477
Tucson	1	Lansing	514	Harrisburg	377
Winslow	207	Marquette U	504	Philadelphia	328
Yuma	0	S. Ste. Marie	621	Pittsburgh	442
ARK. Fort Smith	142	MINN. Duluth	636	Scranton	505
Little Rock	111	Internatl Falls	666	R. I. Providence	368
CALIF. Bakersfield	12	Minneapolis	548	S. C. Charleston	112
Eureka U.	342	Rochester	543	Columbia	192
Fresno	46	St. Cloud	582	Greenville	184
Los Angeles U	0	MISS. Jackson	136	S. DAK. Aberdeen	569
Red Bluff	46	Meridian	108	Huron	506
Stockton	41	Vicksburg U	---	Rapid City	494
San Diego	0	MO. Columbia	287	Sioux Falls	529
San Francisco	139	Kansas City	293	TENN. Chattanooga	233
COLO. Denver	358	St. Louis	291	Knoxville	238
Grand Junction	214	Springfield	233	Memphis	123
Pueblo	343	MONT. Billings	463	Nashville	255
CONN. Bridgeport	248	Glasgow	583	TEX. Abilene	56
Hartford	399	Great Falls	527	Amarillo	150
D. C. Washington	196	Havre	531	Austin	16
FLA. Apalachicola	56	Helena	593	Beaumont	16
Ft. Myers	5	Kalispell	707	Brownsville	0
Jacksonville	70	Miles City	486	Corpus Christi	4
Key West	0	Missoula	637	Dallas	---
Lakeland U.	10	NEBR. Grand Island	380	Del Rio	6
Miami	0	Lincoln	413	El Paso	56
Orlando	6	Norfolk	423	Fort Worth	55
Daytona Beach	23	North Platte	458	Galveston U.	6
Tallahassee	93	Omaha	394	Houston	34
Tampa	18	Valentine	499	Lubbock	80
GA. Atlanta	178	NEV. Ely	537	Midland	47
Augusta	153	Las Vegas	3	San Angelo	44
Macon	121	Reno	392	San Antonio	19
Savannah	96	Winnemucca	444	Victoria	8
IDAHO, Boise	362	N. H. Concord	552	Waco	22
Lewiston	435	N. J. Atlantic City	302	Wichita Falls	64
Pocatello	447	Trenton U	321	UTAH, Milford	399
ILL. Cairo U.	207	N. MEX. Albuquerque	192	Salt Lake City	282
Chicago	402	Roswell	67	VT. Burlington	564
Moline	415	N. Y. Albany	400	VA. Lynchburg	325
Peoria	418	Binghamton	560	Norfolk	158
Rockford	488	Buffalo	473	Richmond	259
Springfield	340	New York	309	Roanoke	350
IND. Evansville	289	Rochester	477	WASH. Colville	619
Fort Wayne	429	Syracuse	444	Omak	---
Indianapolis	326	N. C. Asheville	331	Quillayute	477
South Bend	443	Charlotte	215	Seattle-Tacoma	390
IOWA, Burlington	387	Greensboro	307	Spokane	563
Des Moines	388	Hatteras R.	103	Walla Walla U.	353
Dubuque	500	Raleigh	283	Yakima	419
Sioux City	428	Wilmington	144	W. VA. Beckley	479
KANS. Concordia	291	N. DAK. Bismarck	574	Charleston	357
Dodge City	219	Fargo	549	Huntington	332
Goodland	377	Williston U	577	Parkersburg U.	351
Topeka	363	OHIO. Akron-Canton	458	WIS. Green Bay	544
Wichita	176	Cincinnati U.	391	Madison	533
KY. Lexington	276	Cleveland	376	Milwaukee	485
Louisville	295	Columbus	394	WYO. Casper	492
LA. Baton Rouge	56	Dayton	403	Cheyenne	511
Lake Charles	36	Toledo	481	Lander	520
New Orleans	43	Youngstown	426	Sheridan	528
Shreveport	72				

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

*Estimated.

1976. Hay crops 97% harvested. Sweetpotatoes 89% harvested. Winter wheat 76% planted, 87% 1976, 73% average. Oats 83% planted, 91% 1976, 81% average. Winter wheat, oats, pastures, and livestock in good to fair condition. Pecans in fair condition.

MISSOURI: Wet and warm. Temperatures 9 to 13° above normal. Rainfall averaged over 1.00 in., with few stations over 3.00 in. Largest amounts nearly 6.00 in. Rain 3.00 in. in central plains, 0.75 in. in Bootheel.

Fieldwork: 0.5 days suitable. Soybeans 59% harvested, last year 83%, normal 70%. Corn 70% harvested, last year 88%, normal 67%. Grain sorghum 77% harvested, last year 88%, normal 71%. Cotton 85% harvested, last year 64%, normal 66%. Winter wheat seeding 54% complete, last year 83%. Plowing for spring planted crops 25% complete, last year 51%. Condition of pasture good to excellent. Soil moisture supply adequate to surplus.

MONTANA: Cool, windy, with temperatures 3 to 6° below normal. New snow in mountains first of week but little or no moisture over the plains. Warmest over the southeast, highest maximums 50's and 60's. Minimums dropping into the teens mid-week.

Winter wheat condition good. All harvest activities in windup. Topsoil moisture generally adequate. Livestock receiving supplemental feed.

NEBRASKA: Precipitation up to 0.50 in. eastern third. Temperatures averaged 5 to 10° above normal.

Corn harvest over 80% complete, 85% year ago, 70% normal. Sorghum grain harvest 85% complete, 95% year ago, 85% normal. Soybean harvest over 85% completed, 95% year ago, 90% normal. Winter wheat condition good. Topsoil moisture adequate to surplus. Subsoil moisture adequate.

NEVADA: Midweek warm spell produced above normal temperatures. Cold front late 4th and 5th preceded by rather strong winds and sharp temperature drop. Rain and snow light, up to 9 in. snow accumulated in Sierras.

Movement livestock winter grazing areas nearing completion. Harvest alfalfa hay, potatoes, onions, finished.

NEW ENGLAND: Clear and dry through 2d. Clouds and light rain returned 3d and early 4th remaining through week. Rainfall generally light with only a few areas reporting a little over 1.00 in.

Potato harvest completed. Much oats still to be harvested in Aroostook County, Maine. Some areas in north as much as 40 to 50% of corn still to be harvested. Most remaining acreage will not be harvested until ground freezes hard enough to hold machinery. Some farmers harvesting 2d and 3d crop hay.

NEW JERSEY: Temperatures 3° above normal north, 7° above normal elsewhere. Extremes: 24 and 77°. Precipitation 0.20 to 0.50 in. below normal, averaging 0.40 in. north, 0.46 in. south and 0.64 in. coastal sections.

Light supply vegetables harvested from south. Cranberry and apple harvest about complete. Harvest of field corn and soybeans continues as weather conditions permit. Fall planted grains and cover crops making good growth.

NEW MEXICO: Minor cold front with some light rain and snow north early week. Rain developed west and south 6th with some amounts northwest above 0.50 in.

Cotton 45% harvested. Cleanup of fifth cutting alfalfa continues in southern areas. Grain sorghum 80% harvested. Irrigated wheat good; dryland wheat fair. Light hand harvesting of pecans in progress. Ranges poor to fair. Livestock good.

NEW YORK: Freezing weather most Upstate areas. Upper 60's and 70's by midweek. Temperatures averaged 3 to 15° above normal. Spotty rainfall.

Better harvesting weather. Corn becoming quite dry. Corn silage 70% harvested, grain corn 30% harvested. Dry bean harvest progressing. Onion and cabbage harvests nearing completion.

NORTH CAROLINA: Temperature and precipitation above normal.

Fieldwork: 2 to 3 days suitable. Soil moisture adequate to surplus. Conditions: Pastures fair to good; wheat, oats, barley and rye fair to mostly good. Harvested: Soybeans 17%, 1976 21%, average 25%; cotton 58%, 1976 40%, average 49%; sorghum grain 80%, 1976 80%, average 75%. Planted: Wheat 56%, 1976 40%, average 56%; oats 73%, 1976 60%; barley 73%, 1976 50%; rye 65%, 1976 60%.

NORTH DAKOTA: Dry and warm; east central and southeast received moisture during first part of week, elsewhere less than 0.10 in. Temperature much above normal; low to mid-40's. Extremes: 76 and 18°. Continued warm and dry weather permitted farmers to make extensive progress on fall tillage, fertilizer application and hauling hay to farmsteads. Major activities: Sunflower harvest, corn picking and fall work. Sunflower harvest 85% complete and corn picked for grain 70% complete. Fall seeded winter wheat and rye reported mostly good condition.

OHIO: Temperatures well above normal; high 82°, low 41°. Precipitation generally light.

Harvest weather perfect. Fieldwork: 6 days suitable. Main activities: Corn, soybean, sugar-beet, and popcorn harvest. More than normal fall plowing. Nursery work very active. Weaning and sizing calves for feeder sales. Seasonal wait at elevators, no unusual transportation problems. Harvest completed: Corn 70%, 60% average and last year; soybean 90%, 95% 1976, 85% average; sugar-beet 85%, 75% 1976, 70% average; popcorn 70%, average, 75% last year. Winter wheat stands good; warm weather sped germination and growth. Pasture condition very good. Soil moisture adequate.

OKLAHOMA: Temperatures 5 to 9° above normal east, 4° above normal west. Precipitation light west, heavy southeast.

Topsoil and subsoil moisture supplies adequate. Wheat rated good to fair; 84% up-to-stand, 74% 1976 and 82% normal. About 7% wheat acreage providing pasture. Oats rated good; 69% up-to-stand, 79% 1976 and 76% normal. Barley good condition; 61% up-to-stand, 82% 1976 and normal. Grain sorghum harvest 60% complete; 74% 1976 and 54% normal. Cotton rated good; harvest 24% complete, 10% 1976 and normal. Peanut harvest 80% complete, 78% 1976 and 65% normal. Soybean harvest 55% complete. Pasture and ranges good to fair condition. Livestock good condition.

OREGON: Rainfall general with heavy rains along coast and Willamette Valley. Precipitation along coast ranged from 2.20 to 3.05 in. Rainfall in east ranged from 0.30 to 0.80 in. Maximum temperatures ranged from upper 50's to upper 60's. Minimums ranged from upper 20's to lower 30's in west and in teens and low 20's east of Cascades.

General farm activity slowed by rains. Fall seeding mostly complete. Filbert and walnut har-

vests continue in Willamette Valley. Harvest nearly complete. Fruit harvests complete, general orchard work in process. Fall spraying programs continue in orchards and on field crops. Pastures and ranges continue to improve. Feed situation adequate at present. Cattle and calves in good shape.

PENNSYLVANIA: Sunny to partly cloudy through 1st. Cloudy skies and periodic drizzle and rain eastern two-thirds remainder of period. Partly sunny throughout week extreme west. Temperatures 10 to 15° above normal. Extremes: 22 and 78°. Rainfall 0.25 in. southwest and northeast to 2.00 in. southeast and north central, 0.50 to 1.50 in. elsewhere.

Corn harvest and small grain seeding hindered by wet soils and additional moisture. Apple harvest nearing end.

PUERTO RICO: Island rainfall 2.27 in. or 0.64 in. above normal. Temperatures about 81° on coasts and 76° interior. Extremes: 94 and 60°.

Rains beneficial crop development but affected by floods southeastern portion. Coffee harvest normal. Tobacco seedbeds affected by rains and farmers active fertilizing.

SOUTH CAROLINA: Warmer, wetter than usual. Coolest temperatures first of week with averages rising slowly. Mountains, upper Piedmont areas heavy rainfall, 2.00 to 6.00 in.

Soil moisture mostly adequate; some areas wet. Fieldwork: 3 days suitable. Rains interrupted cotton harvesting. Corn harvest virtually complete. Soybeans in fair condition; rains, humidity halted harvesting. Pasture condition fair, warm weather improved growth. Wet soil slowed sowing. Hay 96% harvested. Weather delaying completion. Winter grazing 89% planted, 78% emerged. Early seeded small grains up to good stand, making good growth due warm weather. Fall vegetables fair condition, harvesting virtually completed. Pecan condition fair; some harvesting when weather permits. Corn harvested 98%, 97% 1976. Cotton harvested 70%, 52% 1976, 66% average. Soybeans harvested 18%, 14% 1976, 23% average.

SOUTH DAKOTA: Mild temperatures, mostly 5 to 11° above normal. Extremes: 21 and 73°. Precipitation more abundant in northern and eastern sections; 1.00 in. greatest amount reported. Dense fogs early mornings.

Topsoil moisture adequate. Full scale harvest continues, proceeding at a normal rate. Corn harvested 78%, 1976 99%, normal 80%. Grain sorghum harvested 88%, 1976 100%, normal 90%. Soybeans harvested 93%, 1976 100%, normal 100%. Sunflowers 86% harvested.

TENNESSEE: Precipitation from 0.50 in. to 2.00 in. west to nearly 4.00 in. east causing some flooding. Temperatures 10 to 15° above normal.

Soil moisture adequate. Farmwork: 3.7 days suitable. Cattle marketings are up due to short hay supply. Soybeans harvested 72%, 50% 1976, 44% normal. Cotton harvested 86%, 45% 1976, 54% normal. Corn harvested 81%, 65% 1976, 68% normal. Burley tobacco stripped 63%, 58% 1976, 56% normal. Fall plowing completed 83%, 83% 1976, 85% normal. Wheat seeded 83%, 76% 1976, 76% normal. Oats seeded 96%, 90% 1976, 92% normal. Barley seeded 98%, 91% 1976, 93% normal.

TEXAS: Cold early, warming trend midweek. Cloudy, thunderstorms to east, Upper Gulf Coast late. Temperatures above normal over north, south and south central, Edwards Plateau; near normal over

north west, upper, middle Gulf Coast; below normal over east, Lower Rio Grande Valley. Rainfall above normal over northeast, central, middle Gulf Coast; near normal over Panhandle, Edwards Plateau, lower Valley; below normal over south plains, north west, southwest, Coastal Bend region.

Freezing temperatures in western High Plains should accelerate cotton harvest, speed completion of sorghum combining. Small grains, winter grasses improved by scattered rains most areas; amounts light over Panhandle. Cotton harvest proceeding rapidly on plains in defoliated fields; freezing temperatures should increase harvesting pace on western High Plains. Harvest on southern Low Plains winding down. Sorghum harvest winding down, frost on western High Plains should speed drying late maturing fields. Soybean harvest good progress even though combining delayed by rain in south central, East Texas, along Upper Coast. Peanut harvest continuing, but delayed by rain south. Sunflower harvest winding down, producers waiting for late fields to mature. Second cutting rice again delayed by rain. Wheat seeding progressing. Scattered rains beneficial most areas, but amounts light on Plains where dryland wheat suffering from lack of moisture. Wild oats problem some fields on northern Low Plains. Flax planting, land preparation increase as fields in Coastal Bend, south dry. Sugarbeet harvest active on northern High Plains. Sorghum harvested 97% 1977, 94% 1976, 88% normal. Cotton harvested 61% 1977, 20% 1976, 26% normal. Peanuts harvested 81% 1977, 81% 1976, 71% normal. Soybeans harvested 69% 1977, 59% 1976, 51% normal. Pecans harvested 18% 1977, 23% 1976, 9% normal. Sugarbeets harvested 55% 1977, 39% 1976, 78% normal. Sunflowers harvested 92% 1977, 66% 1976, 66% normal. Wheat planted 86% 1977, 85% 1976, 91% normal. Oats planted 80% 1977, 81% 1976, 89% normal. Flax planted 5% 1977, 7% 1976, 13% normal.

Citrus harvest continues. Harvests green peppers, tomatoes, squash, cucumbers, cabbage, onions. Pecan harvest continues. Harvests delayed some areas because rain; Edwards Plateau nuts knocked off prematurely by strong winds and hail. General rains over Blacklands, east, south central, along the coast plus scattered rains over other areas gave boost to cool season grasses, small grains. Heavy selling of cattle slowed; ranchers waiting to see if rains continue.

UTAH: Weekend storms; accumulated moisture ranged from little or none to over 0.50 in. Temperatures ranged from near normal to 7° above.

Soil moisture remained short. Range feed outlook not good. Sugarbeet and potato harvesting wrapping up. Some storms interrupted fieldwork.

VIRGINIA: Rainfall averaged 0.75 in. Temperatures several degrees below normal. Extremes: 79 and 26°.

Topsoil moisture adequate to surplus. Pasture area livestock watering supplies adequate to short. Corn combining 83%, 67% 1976, 68% usual. Soybean harvest 17%, 28% 1976, 35% usual. Peanut digging 96%, 91% 1976; combining 77%, 83% 1976, 86% usual. Milo combined 28%, 21% 1976. Cotton 90% picked, 5% 1976, 17% usual. Seeding: Wheat 62%, equal to usual, 56% 1976; barley 85%, 79% 1976; oats 95%, 80% 1976.

WASHINGTON: West: Temperatures near normal. Precipitation 0.80 to 0.90 in. above normal except 0.40 in. above in San Juans.

Silage harvest mostly completed. Cauliflower, celery, carrots harvested.

East: Temperatures averaged 1° above to 2° below normal. Precipitation near normal or slightly above.

Orchard owners preparing for winter dormancy--doing cleanup and baiting for mice, gophers. Apple pruning not yet started. Field corn, sugarbeets, potatoes still being harvested. Good deal of fall wheat up; fair to good stands most areas. Moisture in top few inches adequate; subsoil quite dry. Aphids active in new wheat. Farmers working stubble fields; plowing, cultivating dryland.

WEST VIRGINIA: Temperatures well above normal. Extremes: 82 and 23°. Precipitation below normal northwest, above northeast, normal elsewhere.

Fieldwork: 4.1 days suitable. Picking corn, marketing cattle and general chores main activities. Soil moisture short to adequate. Pasture mostly fair to good condition. Winter feed supplies short to adequate. Fall sown grains off to good start.

WISCONSIN: Temperatures 9° above normal during cloudy, mild week. Highs 50's and 60's; lows mostly 40's except 20's and 30's 5th when skies

clear. Frequent rain, drizzle, and fog. Sunny only on 4th. Rainfall totals 1.00 to 3.00 in. except west and northwest which had 0.50 in.

Corn and soybean harvests stopped by wet fields. Corn for grain 67% harvested, 1976 90%, normal 65%. Remaining harvest will wait until ground freezes hard to support equipment. Soybeans 60% combined, 1976 100%, normal 75%. Fields wet and moisture content of beans up. Fall plowing 30% done, 1976 33%, normal 50%. Good moisture conditions for plowing but too wet some areas. Topsoil moisture adequate to surplus. Subsoil moisture building up. Fruit and vegetable harvests mostly done. A few green-chopping hay but most finished for season. Fall pastures providing good grazing but soft from rains. Winter wheat growing good in mild, wet weather.

WYOMING: Temperatures generally above normal reaching into 70's. Precipitation generally below normal; largest amount 0.47 in.

Topsoil moisture short to adequate. Potatoes, sugarbeets harvest virtually complete. Corn grain 74% picked. Winter wheat fair to good condition. Stock water short in some southeast, central areas.

USSR. Some isolated harvesting of row crops was still taking place in the southern regions of European USSR, but field activities neared the end. Cotton harvesting continued in central Asia and the Transcaucasus. A recent announcement indicated a record cotton crop will be harvested in the USSR this year. Winter grains continued to vegetate in the southern regions of European USSR. Snow cover is being established in the more northerly agricultural regions, including parts of western Siberia.

ASIA. Light to moderate showers fell over parts of Australia's grain belt, but more rain was urgently needed to improve drought-stricken crops and pastures in most areas. In the People's Republic of China, moderate to locally heavy rains pelted parts of the winter wheat belt in the North China Plain for the second successive week. Heavy rains have interfered with harvesting activities in parts of central China, but late crops in South China matured under generally good weather conditions. Persistent rains battered the extreme southern part of the Indian peninsula, but fair weather prevailed over the rest of India except for scattered showers in the northeast.

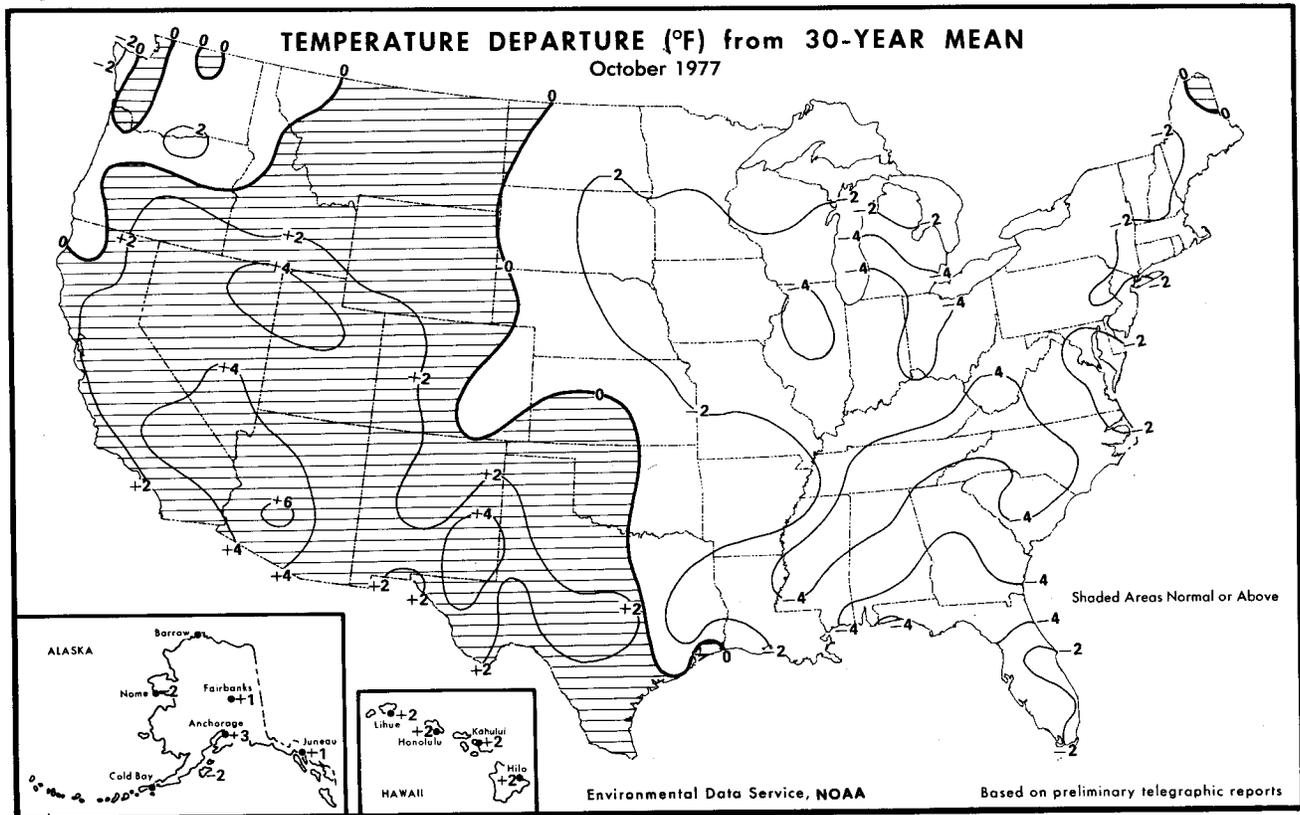
AFRICA. Precipitation was very light over most of North Africa. Winter grains and pastures needed moisture in Algeria and Tunisia. Very light rains moistened the main agricultural areas of South Africa.

AMERICAS. Winter grains, forage, and spring sown crops in the provinces of La Pampa and Buenos Aires were helped by light rains, but heavy precipitation probably had some adverse effects over the northern part of the Argentine grain belt. Heavy rains have interfered with the wheat harvest in Rio Grande do Sul, Brazil's main wheat state.

EUROPE. Cloudy skies carrying frequent light rain hampered field activity over the northern half of the European continent including eastern Europe. But conditions in southern France, Spain, and Italy generally favored fieldwork. Heavy rains brought excessive moisture to parts of Yugoslavia and Greece. The main agricultural areas in Turkey, however, were without significant rainfall.

World Weather and Crop Update

October 31 - November 6



October Weather Summary

HIGHLIGHTS: Rainfall during October was well above normal from southern Mississippi through New England. Southern Georgia and Florida missed these rains which were much less than the expected amounts. Parts of the Midwest and northern Plains also experienced excessive rain which hampered harvesting. The southern parts of Arizona, New Mexico, and Texas had above normal precipitation, but the winter wheat areas of those States and Colorado had too little. Temperatures were generally moderate over the Nation; it was above normal west of the Rockies and below east of them.

October began with a cold front moving off the East Coast causing heavy rain in parts of the Appalachians and New England. The very dry area in the middle eastern States was skirted by the storms and had only light rain.

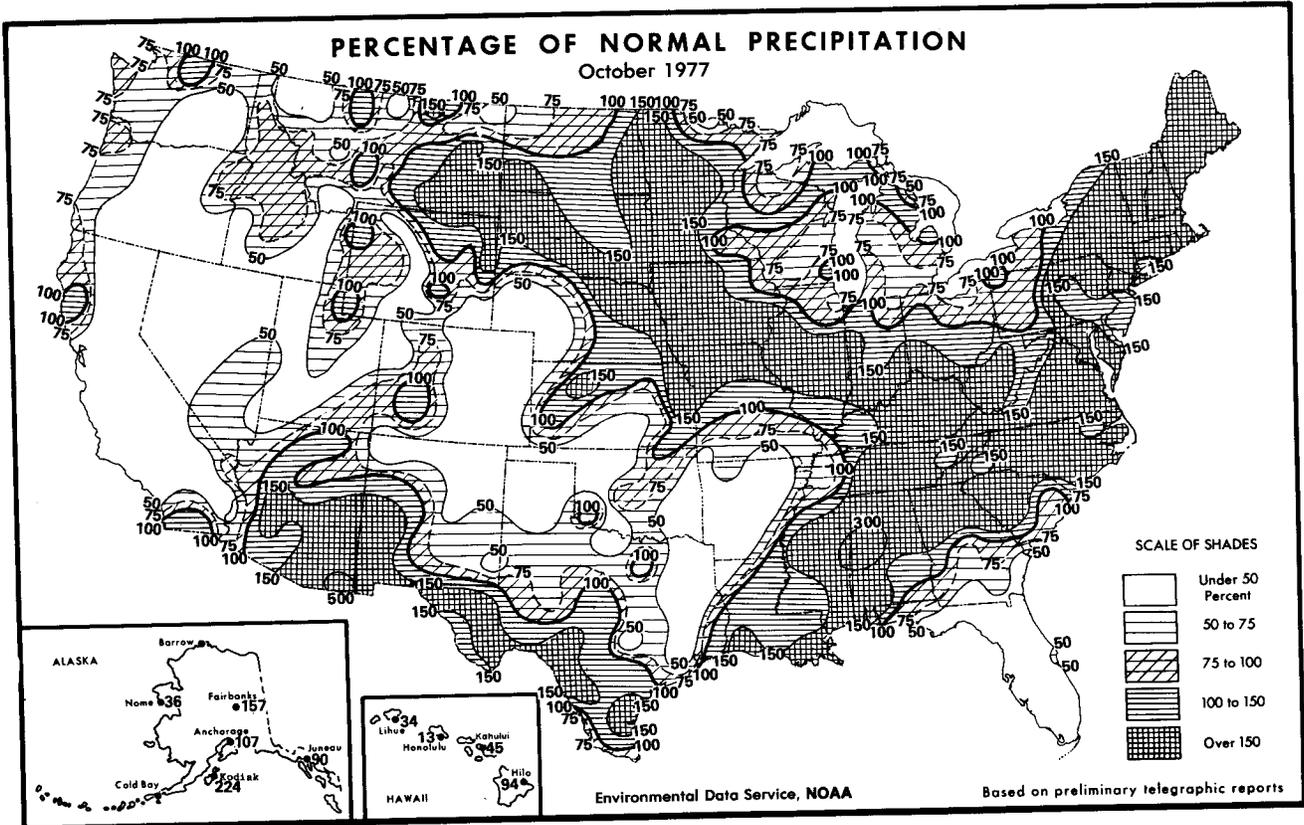
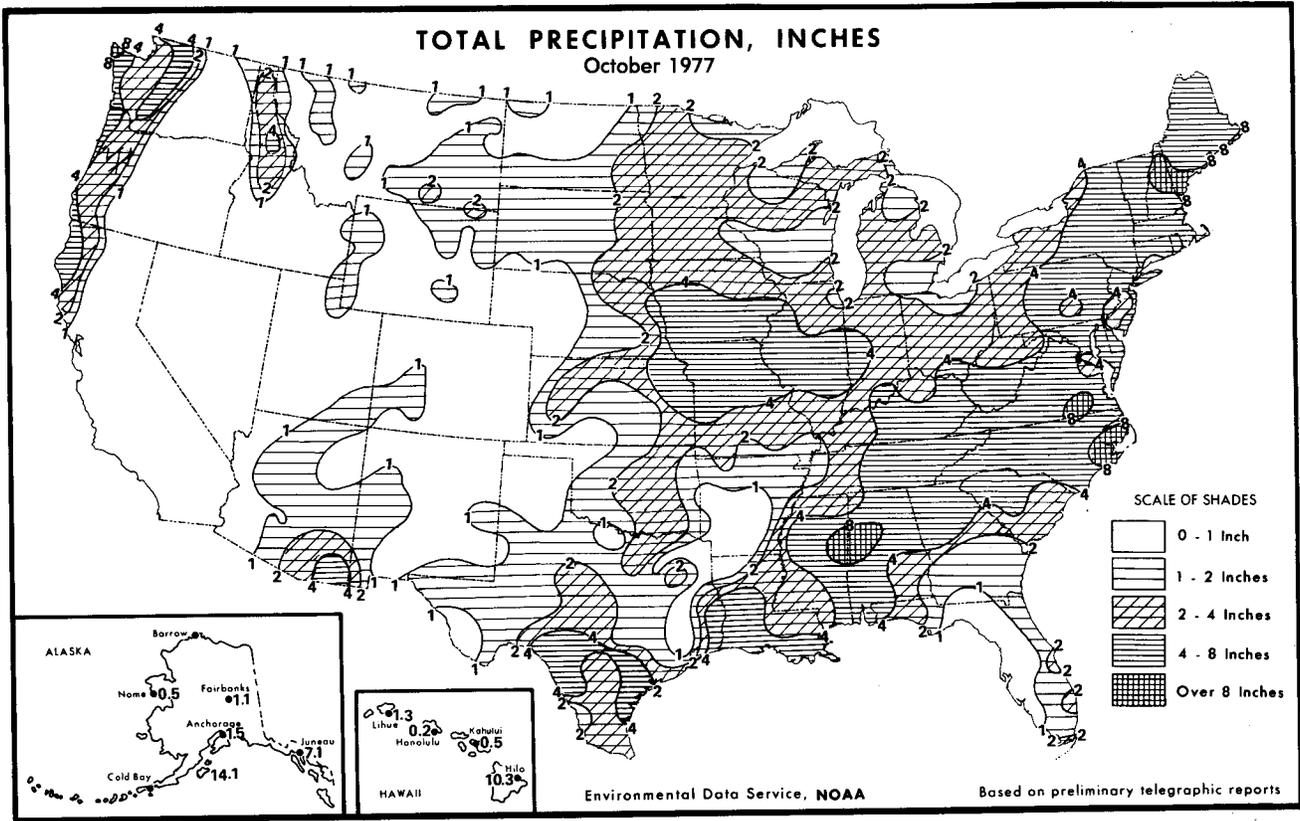
After the front passed a large high pressure system dominated the area east of the Rockies and allowed a few days of drying in the Corn Belt so the harvest could progress. The respite was short-lived; rain returned to the central U.S. by the middle of the first week and spread eastward. Some rain fell in this first week over nearly all the Country except the dry parts of the central western areas. Two cool air masses entered the U.S. during the first week and kept the temperature cooler than normal in most of the Nation.

During the second week a trough of low pressure in the upper air moved from the Rocky Mountains to the East Coast. Light to moderate amounts of rain accompanied the trough from the central U.S. eastward. Heavy thunderstorms triggered rains, some more than two inches, in southern Texas and the

Mississippi Delta. Clearing dry weather followed the trough eastward, but a surface low formed off Cape Hatteras at the end of the week causing welcome moderate rain in the dry areas of the mid-eastern States. Temperatures continued cooler than normal over much of the country, but the western U.S. experienced a warm spell when some parts of northern California rose 10 to 12° above normal.

The surface low off the East Coast moved northward during the week of October 17-23 and most of the southeastern U.S. remained rainless, but New England recorded moderate to heavy amounts. Late in the week a wave formed on a front in southern Missouri producing heavy rain from south central Texas into Iowa. Some moderate rain fell along the extreme northwestern Coast, but most of the area from the western Plains westward had little or no precipitation. The warm air in the West moved eastward and many of the areas west of the Mississippi River were warmer than normal. East of the River readings were to 6 and 7° below normal.

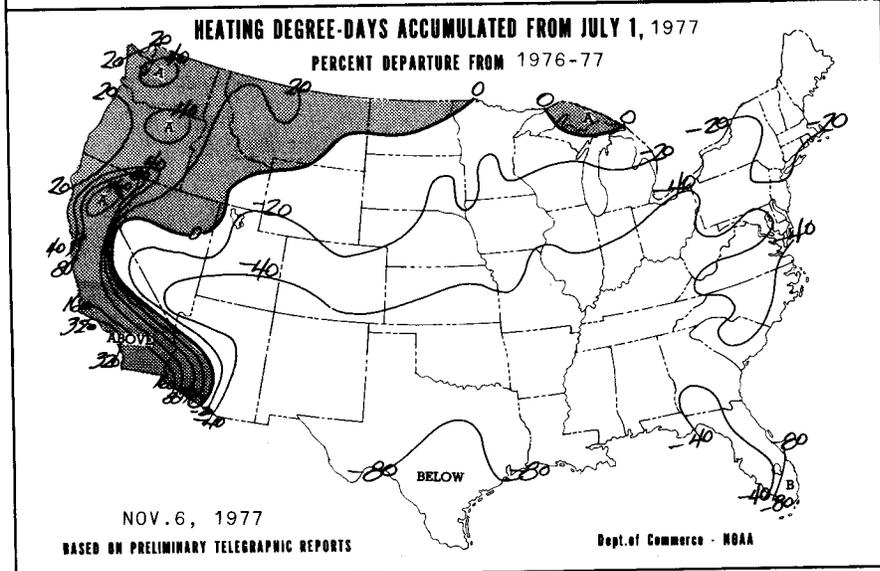
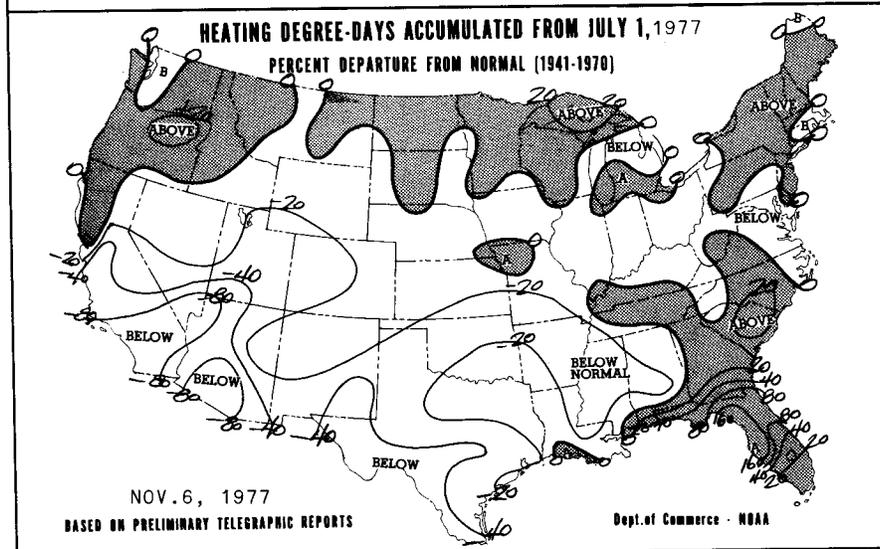
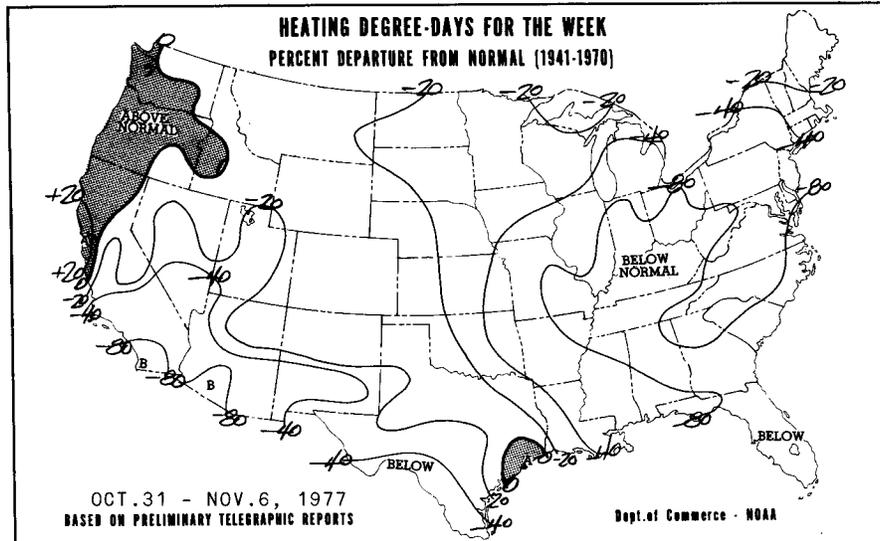
The last week was a rainy one as the most significant amounts fell from southern Mississippi northeastward to Virginia and Maryland. Some local flooding occurred in central Mississippi and Alabama while rain was generally heavy in the rest of the area. In contrast, the western Plains remained dry as did southern California and Nevada. Substantial and welcome rain fell in the Pacific Northwest and reached as far south as central California. An unusual circumstance--the entire U.S. was warmer than normal. Parts of the Rockies were 9 to 10° above normal and much of the East was 6 to 7° above the norm.



Temperature and Precipitation Data for October 1977

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	60	-3	7.5	+4.9	La.Baton Rouge	67	-2	3.1	+ .4	Youngstown	51	-2	2.3	- .6
Mobile	65	-4	4.6	+2.0	Lake Charles	69	-1	5.6	+2.1	OKLA.Okla. City	63	+1	2.4	- .2
Montgomery	64	-2	2.6	+ .4	New Orleans	68	-2	4.3	+2.0	Tulsa	62	-1	2.8	- .4
ALASKA.Anchorage	38	+3	1.5	+ .1	Shreveport	66	-2	5.3	-2.6	OREG.Astoria	53	0	4.4	-2.4
Barrow	-	-	-	-	MAINE.Caribou	44	-0	5.3	+2.0	Burns	49	+2	.4	- .5
Fairbanks	26	+1	1.1	+ .4	Portland	48	-1	8.3	+5.0	Medford	53	-0	1.0	-1.1
Juneau	43	+1	7.1	- .8	MD.Baltimore	56	-1	5.2	+2.4	Pendleton	50	-3	.5	- .6
Kodiak	39	-2	14.1	+7.9	MASS.Boston	55	-0	4.6	+1.6	Portland	54	-0	3.4	- .2
Nome	27	-2	.5	- .9	Chatham	53	-2	5.0	+1.7	Salem	52	-1	2.4	-1.6
ARIZ.Flagstaff	51	+4	1.0	- .4	MICH.Alpena	46	-1	1.2	- .8	PA.Allentown	53	-1	4.2	+1.5
Phoenix	79	+7	.6	+ .1	Detroit	48	-5	1.4	-1.1	Erie	49	-3	3.4	+ .2
Tucson	73	+3	2.4	+1.7	Flint	49	-2	2.1	- .1	Harrisburg	53	-3	3.7	+1.1
Winslow	59	+2	.8	+ .1	Grand Rapids	49	-3	2.3	- .3	Philadelphia	54	-3	2.1	+ .6
Yuma	79	+3	.2	- .1	Houghton Lake	45	-3	1.9	- .7	Pittsburgh	51	-2	2.4	- .1
ARK.Fort Smith	62	-1	.9	-2.6	Lansing	48	-4	1.2	-1.1	Scranton	49	-4	5.3	+2.5
Little Rock	62	0	.6	-2.4	Marquette	48	-1	2.7	+ .3	R.I.Providence	53	-1	6.9	+3.6
CALIF.Bakersfield	71	+4	T	- .3	Muskegon	48	-4	2.5	- .2	S.C.Charleston	64	-2	2.5	- .6
Eureka	54	0	2.8	- .4	S. Ste. Marie	45	-1	1.9	-1.0	Columbia	60	-4	4.8	+2.2
Fresno	67	+3	T	- .4	MINN.Duluth	44	-1	3.2	+1.1	Greenville	60	-2	6.4	+3.2
Los Angeles	69	+1	0	- .3	Internat'l Falls	43	-1	.8	- .9	S.D.Aberdeen	46	-2	1.2	0
Red Bluff	66	+1	.1	-1.1	Minneapolis	47	-3	2.3	+ .5	Huron	48	-2	1.6	+ .1
San Diego	69	+3	.5	+ .2	Rochester	47	-3	2.0	+ .2	Rapid City	49	-1	1.1	+ .2
San Francisco	61	0	.2	- .8	St. Cloud	46	-2	2.9	+1.2	Sioux Falls	48	-2	2.4	+ .9
Stockton	67	+3	T	- .7	MISS.Jackson	62	-4	2.8	+ .6	TENN.Chattanooga	58	-3	6.2	+3.2
COLO.Denver	53	+1	.5	- .6	Meridian	63	-2	6.5	+4.3	Knoxville	57	-4	4.0	+1.3
Grand Junction	58	+3	.5	- .4	MO.Columbia	56	-2	4.4	+1.0	Memphis	62	-1	2.0	- .6
Pueblo	54	-1	T	-1.0	Kansas City	56	-3	7.7	+4.5	Nashville	57	-4	4.2	+2.0
CONN.Bridgeport	57	0	3.9	+1.1	St. Louis	56	-3	3.8	+1.0	TEX.Abilene	67	+1	2.2	- .4
Hartford	52	-1	5.5	+2.5	Springfield	58	-1	2.2	-1.2	Amarillo	61	+1	3.3	-1.5
D.C.Washington	59	-1	5.4	+2.7	MONT.Billings	50	+1	1.2	+ .3	Austin	72	+2	1.2	-1.8
FLA.Apalachicola	67	-4	1.0	-1.9	Glasgow	46	0	.4	- .2	Beaumont	72	+2	4.1	+ .4
Daytona Beach	71	-2	1.5	-4.0	Great Falls	48	0	.5	- .2	Brownsville	77	+1	2.9	- .4
Ft. Myers	74	-2	.4	-4.0	Havre	48	+1	.1	- .6	Corpus Christi	76	+2	4.7	+1.9
Jacksonville	66	-5	1.7	-2.8	Helena	45	0	.2	- .4	Dallas	-	-	-	-
Key West	78	-2	2.4	-3.2	Kalispell	42	-1	.1	-1.1	Del Rio	72	+1	5.0	+2.9
Lakeland	72	-2	.9	-1.9	Miles City	49	0	1.2	+ .5	El Paso	64	0	1.7	+ .9
Miami	77	-1	1.3	-6.9	Missoula	44	0	.7	- .2	Fort Worth	67	-1	3.0	+ .3
Orlando	74	0	.4	-3.7	NEBR.Grand Island	53	-1	1.4	+ .3	Galveston	73	0	3.0	+ .2
Tallahassee	64	-5	.8	-2.1	Lincoln	51	-4	1.9	+ .4	Houston	69	-2	.8	-3.3
Tampa	73	-2	.4	-2.1	Norfolk	51	-2	3.0	+1.7	Lubbock	63	+2	1.1	-1.0
W.Palm Beach	75	-2	2.0	-6.8	N.Platte	50	-1	.2	- .8	Midland	67	+1	1.3	- .1
GA.Atlanta	60	-2	5.0	+2.5	Omaha	52	-2	4.7	+2.9	San Angelo	69	+2	1.4	- .5
Augusta	61	-3	3.5	+1.3	Valentine	49	-1	.9	0	San Antonio	71	0	3.5	+ .7
Macon	62	-4	1.7	- .6	NEV.Ely	48	+2	.3	- .3	Victoria	73	+1	4.2	+ .6
Savannah	64	-3	1.2	-1.6	Las Vegas	71	+4	.1	- .1	Waco	71	+2	1.5	-1.1
HAWAII.Hilo	77	+2	10.3	- .7	Reno	52	+2	.1	- .3	Wichita Falls	66	0	.7	-2.0
Honolulu	81	+2	.2	-1.3	Winnemucca	50	+2	T	- .7	UTAH.Blanding	54	+2	1.1	- .3
Kahului	79	+2	.5	- .6	N.H.Concord	47	-2	5.5	+2.8	Salt Lake City	56	+4	.8	- .4
Lihue	79	+2	1.3	-2.5	N.J.Atlantic City	55	-2	4.2	+ .7	VT.Burlington	47	-2	5.0	+2.3
IDAHO.Boise	53	+1	.2	- .6	Trenton	54	-3	3.4	+ .9	VA.Lynchburg	55	-3	5.8	+3.2
Lewiston	51	-1	.6	- .5	N.MEX.Albuquerque	59	+1	.8	0	Norfolk	61	-1	6.1	+3.0
Pocatello	50	+2	.2	- .6	Roswell	65	+5	.7	- .5	Richmond	57	-2	7.9	+5.0
ILL.Cairo	59	-3	1.9	- .8	N.Y.Albany	50	-1	4.7	+2.1	Roanoke	54	-4	4.7	+1.5
Chicago	52	-3	1.7	- .9	Binghamton	47	-3	4.8	+1.8	WASH.Colville	45	-1	.8	- .6
Moline	51	-3	4.1	+1.4	Buffalo	50	-2	2.6	- .4	Omak	48	+1	.9	0
Peoria	51	-4	4.0	+1.5	New York	55	-3	5.8	+2.8	Quillayute	49	-2	9.2	-2.4
Rockford	49	-4	2.3	- .6	Rochester	49	-3	2.6	0	Seattle-Tacoma	52	0	2.6	-1.3
Springfield	54	-3	5.2	+2.1	Syracuse	51	-2	4.8	+1.7	Spokane	47	-1	.4	-1.0
IND.Evansville	56	-2	2.8	+ .3	N.C.Asheville	54	-3	3.8	+ .5	Walla Walla	53	-1	.5	-1.0
Ft. Wayne	51	-3	2.1	- .7	Charlotte	59	-3	4.7	+2.0	Yakima	49	-1	.2	- .4
Indianapolis	54	-2	2.8	+ .3	Greensboro	55	-4	4.7	+1.8	W.Va.Beckley	49	-4	4.1	+1.6
South Bend	51	-2	3.1	0	Hatteras	63	-2	9.1	+4.3	Charleston	53	-4	4.2	+1.7
IOWA.Burlington	52	-3	4.8	+1.8	Raleigh	56	-4	5.1	+2.3	Huntington	54	-3	4.4	+2.3
Des Moines	52	-2	5.1	+3.0	Wilmingon	62	-3	5.7	+2.4	Parkersburg	54	-3	2.4	+ .3
Dubuque	49	-3	2.4	- .4	N.DAK.Bismarck	46	-1	1.0	+ .2	WIS.Green Bay	47	-2	1.4	- .5
Sioux City	51	-2	2.8	+1.2	Fargo	47	0	2.5	+1.4	La Crosse	49	-3	1.9	- .2
KANS.Concordia	56	-1	2.2	+ .4	Williston	46	0	.4	- .2	Madison	48	-2	1.4	- .8
Dodge City	59	+1	.9	- .8	OHIO.Akron-Canton	50	-3	2.0	- .4	Milwaukee	49	-2	2.0	0
Goodland	53	0	.2	- .8	Cincinnati	52	-5	3.7	+1.5	WYO.Casper	49	+1	.7	- .2
Topeka	57	-1	4.9	+2.1	Cleveland	53	-1	1.9	-1.5	Cheyenne	48	0	.1	- .9
Wichita	60	0	1.2	-1.3	Columbus	52	-2	2.6	+ .7	Lander	48	+1	.9	- .3
KY.Lexington	56	-2	3.8	+1.7	Dayton	52	-4	3.9	+2.0	Sheridan	48	0	1.3	+ .3
Louisville	56	-2	4.8	+2.4	Toledo	49	-4	1.8	- .4	P.R.San Juan	82	+1	5.9	+ .3

Based on 1941-70 normals



HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 6, 1977.

STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY			SEASONAL ACCUMULATION +			
	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77		TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	TOTAL	DEPARTURE*	DEPARTURE FROM 1976-77	
ALA. BIRMINGHAM...	12	5	194	170	34	1339	MAINE. CARIBOU...	16	3	1339	YOUNGSTOWN...	30	106	566
MOBILE...	15	5	138	138	23	975	PORTLAND...	28	18	280	OKLA. OKLAHOMA CITY	4	30	168
MONTGOMERY...	5	4	98	98	23	70	MD. BALTIMORE...	33	65	318	TULSA...	4	16	59
ARIZ. FLAGSTAFF...	15	7	74	34	240	MASS. BOSTON...	83	22	473	OREG. ASTORIA...	30	46	1039	
PHOENIX...	1	1	300	300	22	113	MICH. ALPENA...	113	63	1048	BURNS...	11	11	1146
TUCSON...	1	1	300	300	22	113	DETROIT...	66	71	692	MEDFORD...	11	11	664
WINSON...	1	1	300	300	22	113	FLINT...	66	71	692	PENDLETON...	11	11	664
YUMA...	1	1	300	300	22	113	GRAND RAPIDS...	66	71	692	PORTLAND...	11	11	664
ARK. FORT SMITH...	12	4	168	27	209	1084	HOUGHTON LARE...	108	6	1084	SALEM...	11	11	664
LITTLE ROCK...	12	4	168	27	209	1084	LANSING...	108	6	1084	PA. ALLENTOWN...	11	11	664
CALIF. BAKERSFIELD...	2	2	6	6	11	11	MARQUETTE...	108	6	1084	ERIE...	11	11	664
EUREKA...	11	11	86	86	11	11	MUSKEGON...	108	6	1084	HARRISBURG...	11	11	664
FRESNO...	11	11	86	86	11	11	S. STE. MARIE...	108	6	1084	PHILADELPHIA...	11	11	664
LOS ANGELES...	13	13	130	130	9	9	MINN. DULUTH...	47	5	139	PITTSBURGH...	11	11	664
RED BLUFF...	13	13	130	130	9	9	INTERNATL FALLS...	47	5	139	SCRANTON...	11	11	664
SAN DIEGO...	10	10	81	81	19	19	R. I. PROVIDENCE...	81	38	559	S. C. CHARLESTON...	11	11	121
SAN FRANCISCO...	11	11	422	422	38	38	ROCHESTER...	42	5	987	COLUMBIA...	11	11	121
STOCKTON...	11	11	58	58	38	38	ST. CLOUD...	42	5	987	GREENVILLE...	11	11	121
COLO. DENVER...	12	12	526	232	211	211	MISS. JACKSON...	21	21	162	S. DAK. ABERDEEN...	13	39	917
GRAND JUNCTION...	12	12	526	232	211	211	MERIDIAN...	21	21	162	HURON...	13	39	917
PUEBLO...	12	12	498	226	211	211	MO. COLUMBIA...	21	21	162	RAPID CITY...	13	39	917
CONN. BRIDGEPORT...	35	4	374	14	154	154	KANSAS CITY...	21	21	162	ST. LOUIS...	13	39	917
HARTFORD...	35	4	374	14	154	154	SPRINGFIELD...	21	21	162	SIoux FALLS...	13	39	917
DEL. WILMINGTON...	41	59	401	28	159	159	MONT. BILLINGS...	66	2	1088	TENN. CHATTANOOGA...	18	65	264
D. C. WASHINGTON...	19	65	212	65	71	71	GLASSGOW...	66	2	1088	KNOXVILLE...	18	65	264
FLA. APALACHICOLA...	1	1	2	2	30	30	GREAT FALLS...	66	2	1088	MEMPHIS...	18	65	264
DAYTONA BEACH...	1	1	2	2	30	30	HAVRE...	66	2	1088	NASHVILLE...	18	65	264
FORT MYERS...	1	1	2	2	30	30	HELENA...	66	2	1088	TEXAS. ABILENE...	47	113	229
JACKSONVILLE...	1	1	2	2	30	30	KALE SALT...	66	2	1088	AMARILLO...	47	113	229
KEY WEST...	1	1	2	2	30	30	MILLS CITY...	66	2	1088	AUSTIN...	47	113	229
LAKELAND...	1	1	2	2	30	30	MISSOULA...	66	2	1088	BEAUMONT...	47	113	229
MIAMI...	1	1	2	2	30	30	NEBR. GRAND ISLAND...	40	40	540	BROWNSVILLE...	47	113	229
ORLANDO...	1	1	2	2	30	30	LINCOLN...	40	40	540	CORPUS CHRISTI...	47	113	229
TALLAHASSEE...	1	1	2	2	30	30	NORFOLK...	40	40	540	DEL RIO...	47	113	229
TAMPA...	1	1	2	2	30	30	NORTH PLATTE...	40	40	540	FORT PASKO...	47	113	229
NEXT PALM BEACH...	1	1	2	2	30	30	OKAHA...	40	40	540	FORT WORTH...	47	113	229
GA. ATLANTA...	27	38	210	8	200	200	VALENTINE...	139	31	788	GALVESTON...	47	113	229
AUGUSTA...	16	16	131	131	11	11	NEV. ELY...	168	17	953	HOUSTON...	47	113	229
Macon...	16	16	131	131	11	11	LAS VEGAS...	168	17	953	LUBBOCK...	47	113	229
SAVANNAH...	16	16	131	131	11	11	RENO...	168	17	953	HIDLAND...	47	113	229
IDAHO. BOISE...	145	1	684	14	48	48	WINNEMUCA...	129	36	782	SAN ANGELO...	47	113	229
LEWISTON...	141	1	738	29	33	33	N. H. CONCORD...	117	36	1009	SAN ANTONIO...	47	113	229
POCATELLO...	146	2	792	33	53	53	N. J. ATLANTIC CITY...	33	67	375	VICTORIA...	47	113	229
ILL. CAIRO...	8	72	237	1	205	205	TRENTON...	44	53	409	WICHITA FALLS...	47	113	229
CHICAGO...	4	50	505	13	250	250	N. MEX. ALBUQUERQUE...	89	18	274	UTAH. SALT LAKE CITY	102	43	448
HOLINE...	4	50	505	13	250	250	ROSNELL...	48	46	115	VT. BURLINGTON...	98	60	949
PEORIA...	4	50	505	13	250	250	N. Y. ALBANY...	82	58	795	VA. LYNCHBURG...	37	57	365
ROCKFORD...	6	50	505	13	250	250	BINGHAMTON...	74	93	886	NORFOLK...	11	54	172
SPRINGFIELD...	6	50	505	13	250	250	BUFFALO...	51	89	690	RICHMOND...	19	63	295
IND. EVANSVILLE...	5	98	302	48	246	246	NEW YORK...	66	35	427	ROANOKE...	43	53	403
FORT WAYNE...	36	99	440	12	289	289	ROCHESTER...	59	77	700	WASH. QUILLAYUTE...	142	12	1273
INDIANAPOLIS...	7	116	373	10	363	363	SYRACUSE...	52	80	697	SEATTLE-TACOMA...	4	24	770
SOUTH BEND...	27	111	566	27	271	271	N. C. ASHEVILLE...	36	67	384	SPOKANE...	119	9	566
IOWA. BURLINGTON...	45	85	486	25	323	323	CHARLOTTE...	22	47	237	HALLA HALLA...	119	9	566
DES MOINES...	82	60	514	17	288	288	HATTERAS...	27	1	40	YAKIMA...	168	11	911
DUBUQUE...	94	63	747	27	223	223	RALIGH...	6	50	318	W. VA. BECKLEY...	4	96	619
SIoux CITY...	111	41	606	27	223	223	HILMINGTON...	6	50	318	CHARLESTON...	4	96	619
KANS. CONCORDIA...	92	29	412	41	224	224	N. DAK. BISMARCK...	141	59	1088	HUNTINGTON...	4	96	619
BOGGE CITY...	93	21	317	41	224	224	HILLISTON...	141	59	1088	PARKERSBURG...	4	96	619
GOODLAND...	131	16	563	60	273	273	OHIO. ARRON-CANTON...	34	98	446	WIS. GREEN BAY...	113	57	891
TOPERA...	64	49	344	30	300	300	CINCINNATI...	12	99	446	LADROSSE...	101	57	891
NICHITA...	64	36	250	30	300	300	CLEVELAND...	26	99	446	MADISON...	101	57	891
KY. LEXINGTON...	4	103	303	74	389	389	COLUMBUS...	10	101	446	MILWAUKEE...	101	57	891
LOUISVILLE...	7	96	318	48	236	236	DAYTON...	10	101	446	WYO. CASPER...	159	21	835
LA. BATON ROUGE...	14	18	65	17	141	141	TOLEDO...	5	101	446	CHEYENNE...	170	21	835
LAKE CHARLES...	14	18	65	17	141	141		5	101	446	LANDER...	170	21	835
NEW ORLEANS...	14	18	65	17	141	141		5	101	446	SHERIDAN...	170	21	835
SHREVEPORT...	14	18	65	17	141	141		5	101	446		170	21	835

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1977.



FIRST CLASS MAIL

HARVESTING PROGRESS

Percent of acres harvested as of November 6

CORN				SOYBEANS			
	1977	1976	Avg.		1977	1976	Avg.
Ga	92	85	NA	Ala	49	59	61
Ill	75	80	75	Ark	53	50	47
Ind	70	70	55	Ga	27	24	NA
Iowa	75	100	65	Ill	90	100	97
Kans	90	85	70	Ind	80	90	80
Ky	80	70	75	Iowa	85	100	95
Mich	50	78	57	Kans	65	85	70
Minn	90	98	86	Ky	68	66	68
Mo	70	88	67	La	72	89	70
Nebr	80	85	70	Mich	70	91	82
N C	100	89	81	Minn	96	99	97
Ohio	70	60	60	Miss	62	67	51
Pa	NA	NA	NA	Mo	59	83	70
S Dak	78	99	80	Nebr	85	95	90
Tex	100	96	92	N C	17	21	25
Wisc	67	90	65	Ohio	90	95	85
				S C	18	14	23
U. S.	77	86	70	Tenn	72	50	44

These 16 States produced
 92% of the 1976 U. S.
 corn crop.

These 18 States produced
 96% of the 1976 U. S.
 soybean crop.

COTTON

	1977	1976	Avg.
Ala	72	35	52
Ark	87	67	65
Ga	47	46	NA
La	80	79	56
Miss	84	70	58
Mo	85	64	66
N C	58	40	49
Okla	24	10	10
S C	70	52	66
Tenn	86	45	54
Tex	61	20	26

11 Southern
 States 67 37 39

These 11 States produced
 67% of the 1976 U. S.
 cotton crop.

SORGHUM

	1977	1976	Avg.
Colo	88	80	56
Kans	80	85	65
Mo	77	88	71
Nebr	85	95	85
Okla	60	74	54
S Dak	88	100	90
Tex	97	94	88
7 States	86	90	77

These 7 States produced
 90% of the 1976 U. S.
 sorghum crop.

SEEDING PROGRESS

Percent of acres planted as of November 6

WINTER WHEAT			
	1977	1976	Avg.
Colo	100	100	100
Ill	85	95	95
Ind	85	95	NA
Kans	100	100	100
Mo	54	83	NA
Mont	100	100	100
Nebr	100	100	100
Ohio	95	100	95
Okla	100	100	100
Tex	86	85	91
U. S.	95	97	98

These 10 States produced
 74% of the 1977 U. S.
 winter wheat crop.

NA Not Available