

WEEKLY WEATHER AND CROP BULLETIN

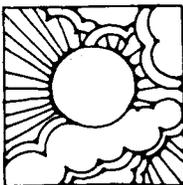
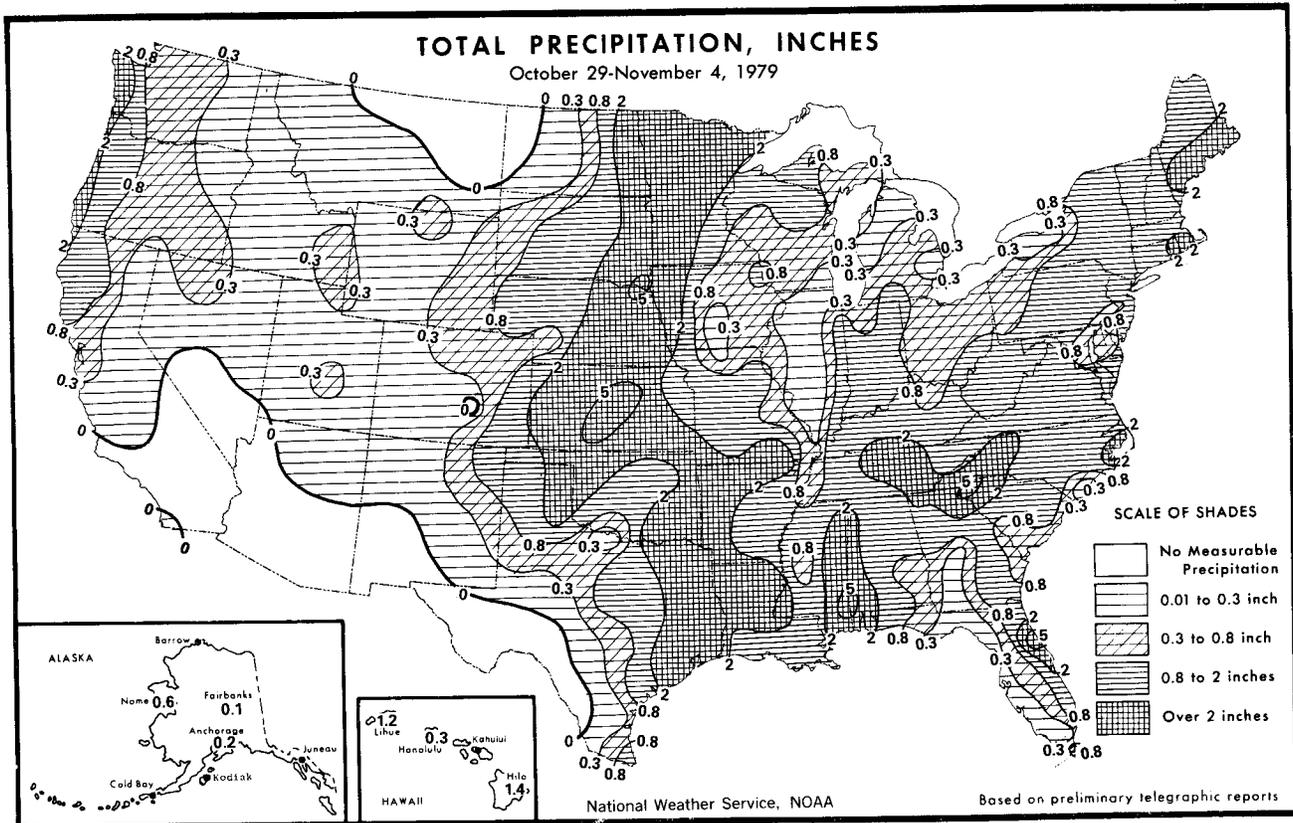
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National Weather Service, NOAA

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National Weather Summary

October 29 - November 4

HIGHLIGHTS: Seasonal rains continued in the West with heavy amounts falling in the coastal reaches of the Pacific Northwest. Light amounts of snow or rain fell from central California through the Plateau Region and northern Rockies.

Early in the week, a storm developed in the southern Rockies and moved northeastward. Blizzard conditions swept over the western Plains. Heavy rains covered the eastern Plains.

Cold air poured in behind the storm; some record cold readings were reported.

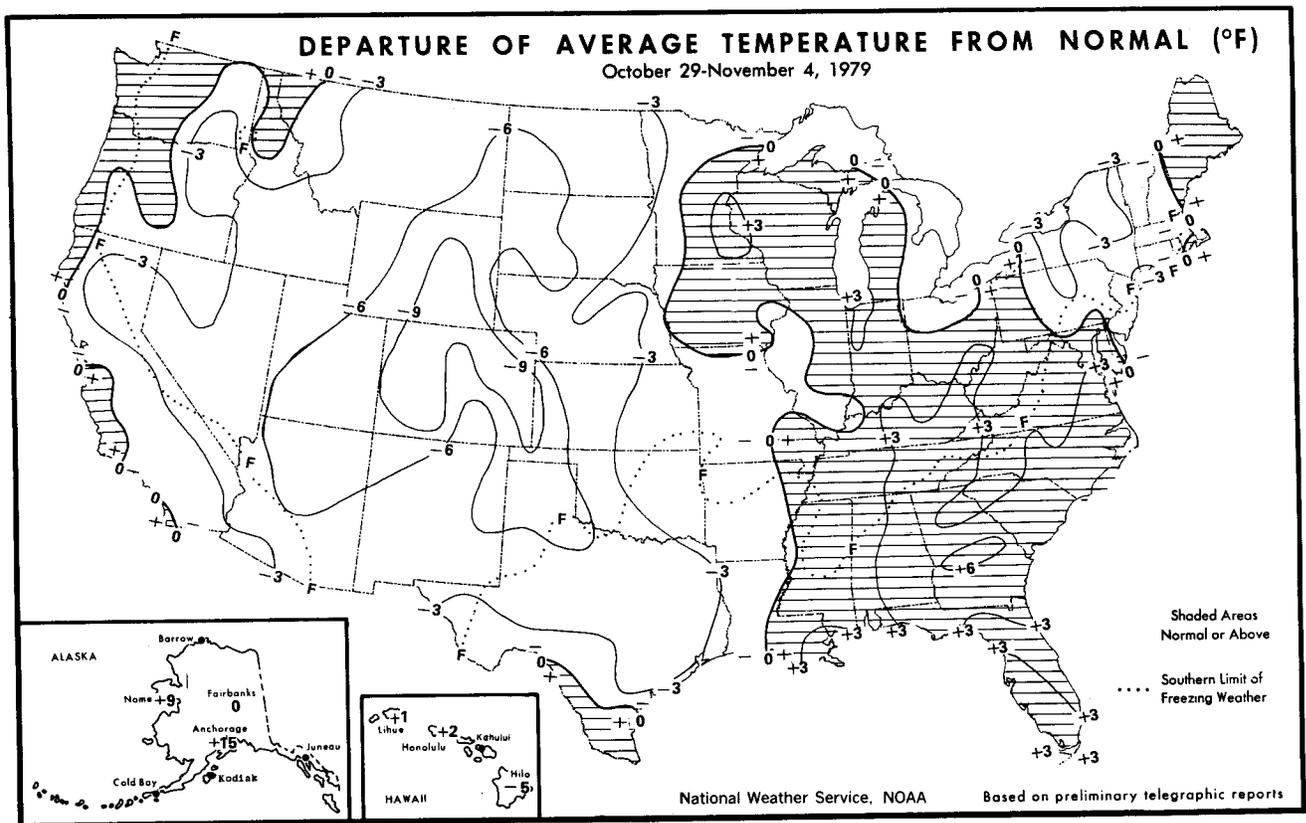
The storm carried rain to the East; some heavy amounts doused the southeastern coast when moist, tropical air was drawn northward.

On Monday, a frontal system triggered a winter storm from the lower two-thirds of the Rockies to the western Plains. Several inches of snow whitened the region.

Meantime, a few inches of snow fell over parts of northern New England, while rain dampened an area from the Tennessee Valley through portions of the South Atlantic States. Rain totals, however, failed to reach an inch.

New Orleans chipped in with a record high temperature of 86°.

The intense low pressure system bringing snow to the Rockies carried severe weather as it moved through the Texas Panhandle to central Kansas on Tuesday. Up to 10 inches of snow, blown by 60-mph winds, pummeled northeastern New Mexico. Heavy rains doused points in Kansas, Oklahoma, Texas, Arkansas, and Louisiana; a sampling showed 2.7 inches at Gage, western Oklahoma; 2 inches at



Houston; and 2.2 inches at Shreveport, northwestern Louisiana.

Damaging tornadoes whirled through the Texas Panhandle, north central Texas, Oklahoma, Missouri, and Louisiana.

Heavy rain also spread over the upper Mississippi Valley; some parts of Minnesota scored an inch, while Sioux City, western Iowa, managed about 5 inches of rain over two days.

On Wednesday, the storm drifted northeastward to the upper Midwest still producing severe weather.

Goodland, western Kansas, had nine inches of snow, and points in the Colorado mountains swayed under a couple of feet of snow. Inman, central Kansas, was deluged by 11.2 inches of rain in 48 hours.

Rain became heavy eastward and southward as well. One to two inches of rain soaked stations as far east as Mobile, southern Alabama, and Jackson, western Tennessee.

Muskegon, western Michigan, knotted its record high temperature of 73°.

The early winter-like storm plowed through the northern Plains leaving 3 inches of snow in the Dakotas on Thursday; Goodland, Kans., marked an October record of 17.6 inches of snow.

Rain extended over the Gulf Coastal States and through the Tennessee and Ohio Valleys. One to two inches of rain fell over Huntsville, northern Alabama, and Bowling Green, southern Kentucky.

Heavy rains reached the Carolinas and Florida on Friday triggering local flooding; Jocassee, northwestern South Carolina, notched 5.5 inches of rain in 5 hours, and Daytona Beach, on Florida's Atlantic Coast, received a like amount.

Lighter totals of rain dotted the middle Atlantic States and as far north as New York. Scranton, northeastern Pennsylvania, measured more than an inch.

Record cold moved over West Texas and the southern Plains. New marks showed El Paso's 28° and 25° at Topeka.

On Saturday, downpours edged up the Atlantic Seaboard dumping heavy rain from the Carolinas to New England; about 3 inches covered Cape Hatteras, N.C., while 1 to 2 inches fell over Salisbury, eastern Maryland, Providence, R.I., and Concord, N.H.

Light rain ranged from northern California to the Pacific Northwest with most totals reaching less than three-quarters inch.

On Sunday, a low pressure system gained strength in the central Plateau Region setting off snow throughout the area. By day's end, several inches had fallen in Wyoming with lighter amounts in Montana, Nevada, and Colorado.

Light rain persisted in northern California and the Northwest; about a half-inch dampened some points.

At the opposite corner of the country, Miami Beach weathered an inch and one-quarter of rain.



National Agricultural Summary

October 29 - November 4

HIGHLIGHTS: Heavy snows fell from northern Texas to the Canadian border covering the western Plains with as much as 12 feet of drifted snow. Rains fell eastward through the rest of the Nation but spared parts of the Corn Belt and a small portion of the Southeast. The Mountain States were relatively dry. Heavy rains also fell along the Pacific Coast from northern California to Washington. The snow caused some livestock losses, particularly in Colorado and Texas. Rains slowed harvest activities, particularly in Minnesota and the Delta. Corn harvest advanced to 57%, lagging last year's 83% and the 74% average. Soybean harvest stood at 78%, falling between last year's 84% and the 75% average. Cotton harvest reached 42%, slightly behind last year's 45% and the 43% average. Rice harvest neared completion at 94%, slightly behind last year's 98%. The grain sorghum harvest reached 82%, lagging last year's 88% but ahead of the 79% average. Winter wheat seeding reached 92%, close behind last year's 98% and the 96% average. Rains improved winter grazing in the Southeast, but most southwestern ranges continued to deteriorate. Farm fuel supplies changed very little from the previous week. LP gas rated 6% tight, 92% adequate, and 2% surplus. Diesel fuel scored 1% deficient, 15% tight, 83% adequate, and 1% surplus. Gasoline stood at 12% tight, 87% adequate, and 1% surplus.

SMALL GRAINS: Winter wheat seeding reached 92%, slightly behind last year's 98% and the 96% average. Planting was well advanced in all States except California at 16%. Planting was virtually complete on the Great Plains, although farmers continued to seed and reseed from Kansas southward. Kansas rains improved growing conditions except in some areas, notably the south central, where excessive rains damaged some wheat fields. No pasture was available for grazing in Kansas. Oklahoma rains delayed final seeding activity but helped plantings that were dusted in earlier. Texas wheat seeding on the Low Plains and Edwards Plateau needed additional moisture; other areas received some rain and improved growing conditions. Colorado wheat rated good. In the Pacific Northwest, rain improved some stands, but overall, winter wheat was below average. In the north central States, from 50 to 80% of the wheat emerged; the crop looked better after the recent rains.

CORN: Corn harvest reached 57%, well behind last year's 83% and the 74% average. Growers in the northern Corn Belt contended with high moisture content in the corn. In some areas, dryer facilities and storage space were hard to find. In the eastern Corn Belt, harvest reached 59%, 17 points less than last year but only 7 points less than average. In this area, Michigan and Wisconsin lagged most behind recent years. In the western Corn Belt, harvest reached 52%, 35 points below last year and 27 points below average. Minnesota continued to lag at 22%, well behind the 91% for last year and average.

SOYBEANS: Soybean combining advanced to 78%, 6 points less than last year but 3 points above the average. High moisture content in the beans became a problem, mostly in Minnesota and South Dakota. In the eastern north central States, harvest stood at 92%, the same as the average and only 1 point less than last year. In the western

north central States, harvest stood at 93%, the same as last year and 6 points ahead of the average. South central States harvest stood at 62%, 15 points less than last year but 3 points ahead of average. Most of the Delta crop was mature, ranging from 83 to 100%.

COTTON: Cotton picking stood at 42%, 3 points less than last year and 1 point below the average. Low temperatures slowed boll opening in Arkansas. Rain delayed harvest in some parts of the South. A frost killed the Texas High Plains crop, which should help accelerate boll opening. Arizona growers made excellent harvest progress while defoliating stands and cleaning up crop residue after picking. Rain damaged some ricked California cotton. Harvest continued to lag well behind recent years throughout the Delta.

OTHER CROPS: Grain sorghum harvest reached 82%, 6 points less than last year and 3 points more than average. Storms lodged some Texas sorghum in the Panhandle. Colorado growers lost some acreage to the storms and some yields may be reduced.

Rice harvest was well advanced standing at 94%. The Delta harvest wound down, and California growers reached 85%. Rains and a backlog at dryers delayed the California harvest.

The sunflower harvest was almost complete in Minnesota and stood at 80% in South Dakota. Precipitation slowed the North Dakota harvest, which stood at 67%; 2 to 3 more weeks will be needed to finish picking.

FRUITS & NUTS: The apple harvest was about done; growers began orchard clean-up work. Pecans rated poor to fair; picking ranged from 14% in Texas to 38% in Louisiana. Nut harvests in the Pacific Coast States were almost complete.

Florida growers irrigated citrus groves on sandy and high ridge areas. Scattered rains and cooler weather helped. All varieties showed more color. Arizona growers continued to harvest lemons and grapefruit. Texas growers shipped a good volume of early oranges and grapefruit. California growers harvested desert area grapefruit and lemons. The Valencia harvest was almost complete; early variety Navels were harvested.

VEGETABLES: Northern growers harvested a few crops such as celery and carrots. South Carolina growers harvested cucumbers and snap beans. Florida vegetable shipments increased 59% from the previous week. Only sweet corn and okra shipments declined. Most crops grew well; the cooler weather benefited fruit set. A freeze halted vegetable production in northern Texas, but activity continued in southern areas. Rains halted onion and potato harvests in northern California, but good supplies of other vegetables moved from the desert, the central coast, and the Central Valley.

PASTURES & LIVESTOCK: Rains improved southern pastures and winter grazing crops. In the West, dry soils and low temperatures prevented any improvements in winter browse. Texas rangelands deteriorated forcing farmers to feed supplemental rations to cattle. Some livestock was lost to the storm on the High Plains and also in parts of Colorado. In Arizona, high elevation ranges were in good condition but dry elsewhere. No winter browse proved available, and farmers hauled water to livestock. Rains helped northern California pastures, but grasslands to the south needed more water. Cattle continued to graze crop stubble where available in many parts of the Nation.

Weather Data for the Week Ending Nov. 4, 1979

States and Stations	Temperature °F						Precipitation						Relative Humidity, percent		Number of Days											
	Average		Extreme		Departure from normal		Weekly total, in.		Departure from normal		Greatest in 24-hour, in.		Total, in., since Sept. 3		Pct. normal since Sept. 3		Average		90 and above		32 and below		.01 inch or more		.50 inch or more	
	maximum	minimum	high	low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hour, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	90 and above	32 and below	.01 inch or more	.50 inch or more									
ALA. Birmingham . . .	70	50	78	33	60	3	1.0	.3	.9	12.2	191	88	48	0	0	1	1									
Mobile . . .	74	55	83	40	65	5	4.2	3.7	2.1	15.3	170	85	49	0	0	2	2									
Montgomery . . .	74	54	83	41	64	5	.5	0	.5	5.9	88	80	43	0	0	3	3									
ALASKA. Anchorage . .	46	36	50	22	42	15	.2	.1	.1	3.5	90	88	72	0	3	2	0									
Barrow . . .	18	5	29	-1	12	11	.1	0	.1	.4	44	78	68	0	5	2	0									
Fairbanks . . .	30	16	42	5	23	11	.1	.1	.1	.7	41	78	74	0	7	2	0									
Kodiak . . .	49	36	51	31	43	5	1.1	.2	.8	11.1	87	81	68	0	2	5	1									
Nome . . .	34	27	38	19	30	8	.6	.3	.4	4.6	118	82	73	0	7	6	0									
ARIZ. Flagstaff . . .	46	20	54	12	33	8	.3	.3	T	1.4	44	71	29	0	7	0	0									
Phoenix . . .	75	48	81	44	62	3	T	.1	T	.2	20	37	14	0	0	0	0									
Tucson . . .	73	45	83	41	59	4	0	.1	0	.3	17	26	11	0	0	0	0									
Winslow . . .	57	29	69	20	43	6	.1	0	.1	.4	29	--	--	0	4	1	0									
Yuma . . .	79	53	82	45	66	3	0	.1	0	0	0	22	13	0	0	0	0									
ARK. Fort Smith . . .	65	42	76	31	54	2	2.0	1.2	2.0	4.7	66	86	37	0	2	1	1									
Little Rock . . .	65	46	73	41	56	0	1.2	.4	.7	6.2	93	81	49	0	0	1	1									
CALIF. Bakersfield . .	74	49	79	42	61	1	T	.1	T	.7	140	80	34	0	0	2	1									
Eureka . . .	61	49	65	40	55	2	1.7	.6	.7	7.9	172	98	72	0	0	5	2									
Fresno . . .	69	46	72	41	57	0	.3	.1	.3	.8	114	83	44	0	0	2	0									
Los Angeles . . .	71	53	76	49	62	1	0	.3	0	.4	67	69	44	0	0	0	0									
Red Bluff . . .	63	48	73	43	56	3	1.1	.6	.8	4.2	221	88	58	0	0	3	1									
San Diego . . .	73	55	79	52	64	1	T	.2	T	.7	100	75	39	0	0	1	0									
San Francisco . . .	64	50	69	46	57	1	.7	.3	.7	2.9	207	84	61	0	0	1	1									
Stockton . . .	68	48	72	40	58	0	.2	.1	.2	1.6	145	--	47	0	0	2	0									
COLO. Denver . . .	47	26	60	21	37	8	.3	.1	.3	1.7	71	78	43	0	6	3	0									
Grand Junction . . .	50	27	58	17	39	8	T	.2	T	.2	11	61	22	0	5	1	0									
Pueblo . . .	58	26	70	17	42	5	T	.2	T	1.0	59	70	24	0	5	0	0									
CONN. Bridgeport . . .	57	40	66	35	48	3	.9	.1	.7	8.1	137	84	51	0	0	2	1									
Hartford . . .	58	33	70	27	46	1	1.3	.4	1.0	9.2	135	85	53	0	4	2	1									
D.C. Washington . . .	66	45	74	39	56	2	.6	0	.4	12.4	214	89	51	0	0	2	0									
FLA. Apalachicola . .	77	63	80	46	70	5	.1	.3	.1	17.2	148	82	58	0	0	1	0									
Daytona Beach . . .	78	64	82	55	71	3	6.5	5.7	5.8	22.0	175	93	61	0	0	2	2									
Ft. Myers . . .	88	71	91	66	80	7	.1	.4	.1	15.0	115	85	50	1	0	2	0									
Jacksonville . . .	79	59	83	47	69	4	1.1	.5	.7	18.9	154	95	57	0	0	2	1									
Key West . . .	84	77	85	76	80	3	.2	.7	.1	5.8	45	86	70	0	0	2	0									
Miami . . .	84	74	86	69	79	4	.3	.9	.1	16.4	95	80	72	0	0	4	0									
Orlando . . .	83	62	86	57	73	3	.7	.2	.3	10.3	92	97	52	0	0	3	0									
Tallahassee . . .	78	55	85	44	67	3	.2	.3	.2	10.7	114	90	47	0	0	1	0									
Tampa . . .	82	64	86	57	73	3	T	.4	T	14.2	163	86	49	0	0	1	0									
W. Palm Beach . . .	82	70	86	65	76	2	1.4	.2	.4	25.0	134	85	65	0	0	5	0									
GA. Atlanta . . .	65	52	73	37	59	3	1.6	.9	.9	9.2	153	89	66	0	0	3	2									
Augusta . . .	73	51	80	36	62	4	.2	.2	.1	5.8	107	94	53	0	0	3	0									
Macon . . .	76	55	82	36	66	6	.2	.2	.1	6.3	112	90	50	0	0	3	0									
Savannah . . .	76	57	82	45	67	5	.5	.1	.5	13.5	163	89	54	0	0	2	0									
HAWAII. Hilo . . .	--	--	--	--	74	5	1.4	1.5	--	9.3	48	--	--	0	0	--	--									
Honolulu . . .	87	74	88	71	80	2	.3	.2	.2	1.2	52	--	--	0	0	2	0									
Kahului . . .	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	--	--									
Lihue . . .	--	--	--	--	77	1	1.2	.3	--	3.4	54	--	--	0	0	--	--									
IDAHO. Boise . . .	50	34	54	27	42	3	T	.3	T	1.5	115	74	47	0	4	2	0									
Lewiston . . .	52	37	59	34	44	0	.2	.1	.2	2.0	95	91	63	0	0	1	0									
Pocatello . . .	44	29	49	23	37	4	.5	.3	.3	1.5	125	82	53	0	5	3	0									
ILL. Cairo . . .	65	48	75	37	57	2	.3	.4	.3	3.5	56	--	--	0	0	1	0									
Chicago . . .	58	38	73	29	48	1	.3	.3	.3	1.9	33	74	43	0	3	1	0									
Moline . . .	57	31	70	24	44	2	.3	.2	.3	2.5	37	86	42	0	5	1	0									
Peoria . . .	59	34	73	23	46	1	.2	.3	.2	1.7	28	80	42	0	4	1	0									
Rockford . . .	57	33	70	23	45	0	.3	.3	.3	1.6	23	87	46	0	4	1	0									
Springfield . . .	61	36	72	26	49	0	.1	.5	.1	1.4	22	87	41	0	3	1	0									
IND. Evansville . . .	62	39	75	28	51	0	.9	.2	.7	5.4	95	88	50	0	3	1	1									
Ft. Wayne . . .	57	33	71	25	45	2	.8	.1	.8	3.4	61	89	46	0	4	1	1									
Indianapolis . . .	62	36	74	25	49	1	1.1	.4	1.0	3.9	67	93	45	0	3	2	1									
South Bend . . .	59	38	74	31	48	3	.6	.1	.3	5.3	83	83	48	0	2	2	0									
IOWA. Burlington . .	58	37	69	26	48	0	.4	.1	.4	2.6	38	--	--	0	3	2	0									
Des Moines . . .	58	36	69	26	47	1	.2	.2	.2	4.0	77	78	41	0	3	1	0									
Dubuque . . .	55	36	68	24	45	2	.4	.2	.4	2.7	36	79	43	0	3	2	0									
Sioux City . . .	51	34	66	21	42	2	4.9	4.6	4.4	7.3	162	87	59	0	3	3	1									
KANS. Concordia . . .	57	36	72	25	46	2	4.5	4.2	4.1	5.7	112	82	49	0	3	3	1									
Dodge City . . .	53	34	69	27	44	6	2.9	2.6	2.1	3.4	100	80	50	0	4	3	2									
Goodland . . .	43	28	61	22	36	9	1.4	1.2	.7	2.2	92	80	63	0	5	3	0									
Topeka . . .	60	36	70	24	48	1	1.1	.7	1.1	4.9	83	86	49	0	3	1	1									
Wichita . . .	60	39	72	29	50	1	2.1	1.7	2.1	4.6	75	78	51	0	1	2	1									
KY. Lexington . . .	64	41	75	32	52	2	.7	.1	.7	13.4	273	86	46	0	3	1	1									
Louisville . . .	66	41	77	33	54	3	1.2	.5	1.2	14.0	250	93	45	0	0	1	1									

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Nov. 4, 1979

States and Stations	Temperature °F						Precipitation						Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
LA. Baton Rouge . . .	74	54	85	40	64	- 2	1.6	.9	1.5	5.9	87	80	44	0	0	2	1	
Lake Charles . . .	74	51	83	41	62	- 2	1.6	.8	1.2	15.7	199	89	46	0	0	2	1	
New Orleans . . .	76	59	87	43	68	- 4	.9	.3	.9	4.5	58	71	46	0	0	1	1	
Shreveport . . .	71	47	84	36	50	- 1	2.2	1.5	2.2	7.6	125	95	48	0	0	1	1	
MAINE. Caribou . . .	49	35	54	28	42	4	1.4	.6	.8	7.7	110	73	65	0	2	3	1	
Portland . . .	55	35	62	27	45	1	2.2	1.2	2.2	12.3	181	94	55	0	2	2	1	
MD. Baltimore . . .	63	40	72	34	52	0	.5	.2	.3	12.7	215	87	49	0	0	2	0	
MASS. Boston . . .	59	39	72	35	49	- 2	1.4	.5	1.4	8.1	125	87	55	0	0	2	1	
Chatham . . .	56	44	62	39	50	- 2	1.0	-.8	.6	6.7	103	85	62	0	0	2	0	
MICH. Alpena . . .	46	31	57	26	39	- 2	.1	-.4	.1	3.1	58	71	46	0	5	2	0	
Detroit . . .	55	32	68	24	43	- 3	.3	-.3	.3	2.5	51	89	47	0	4	1	0	
Flint . . .	54	33	69	28	44	- 1	.3	-.3	.3	2.5	51	86	47	0	4	1	0	
Grand Rapids . . .	58	36	76	31	47	2	.6	0	.6	2.7	44	82	48	0	1	3	1	
Houghton Lake . . .	51	36	68	31	43	3	.2	-.4	.2	2.8	46	82	53	0	1	1	0	
Lansing . . .	56	33	73	26	45	0	.4	-.1	.4	2.5	49	92	48	0	4	1	0	
Marquette . . .	45	32	55	29	39	- 2	.6	-.1	.6	9.7	164	91	69	0	5	2	1	
Muskegon . . .	55	38	73	31	47	2	.2	.5	.2	5.0	78	78	48	0	1	2	0	
S. Ste. Marie . . .	46	33	57	26	39	0	.2	-.5	.1	8.1	119	87	67	0	4	3	0	
MINN. Duluth . . .	44	34	52	25	39	3	1.1	.7	.8	4.5	83	77	63	0	4	4	1	
Internat'l. Falls . . .	39	28	50	21	34	0	3.3	3.0	2.0	4.7	94	92	75	0	6	4	2	
Minneapolis . . .	52	36	66	28	44	3	.8	.5	.8	5.2	116	79	48	0	3	3	1	
Rochester . . .	53	35	66	28	44	4	.5	.2	.5	5.5	112	86	47	0	4	2	1	
St. Cloud . . .	47	34	62	27	40	1	2.6	1.3	1.3	5.9	137	89	77	0	4	3	2	
MISS. Jackson . . .	71	49	83	31	60	0	.8	.1	.8	7.5	136	90	50	0	1	1	1	
Meridian . . .	71	48	81	32	59	- 1	2.7	2.1	2.4	11.3	198	91	53	0	1	3	1	
MO. Columbia . . .	60	40	69	30	50	- 1	1.6	1.1	1.6	4.4	57	80	42	0	2	1	1	
Kansas City . . .	59	39	69	27	49	0	1.1	.6	1.1	3.9	52	66	38	0	2	2	1	
St. Louis . . .	62	42	71	30	52	1	.2	-.4	.2	1.9	33	80	41	0	1	1	0	
Springfield . . .	61	40	69	32	51	- 1	1.3	.7	1.3	3.6	47	79	42	0	2	2	1	
MONT. Billings . . .	46	30	51	26	38	- 4	.1	0	.1	.9	38	65	41	0	5	1	0	
Glasgow . . .	45	22	53	18	33	- 3	0	-.1	0	.8	62	89	45	0	7	0	0	
Great Falls . . .	45	27	53	21	36	- 5	.1	0	.1	1.1	61	68	40	0	6	1	0	
Havre . . .	48	21	53	17	34	- 3	0	-.1	0	1.3	76	80	34	0	7	0	0	
Helena . . .	45	25	50	15	35	- 2	T	-.1	T	.5	36	68	33	0	6	1	0	
Kalispell . . .	45	27	50	18	36	1	.2	-.1	.2	2.1	81	88	56	0	5	1	0	
Miles City . . .	47	23	54	15	35	- 5	0	-.1	0	.3	16	71	37	0	6	0	0	
Missoula . . .	45	26	48	20	36	- 1	T	-.2	T	.9	45	92	50	0	7	1	0	
NEBR. Grand Island . . .	51	32	65	22	41	- 4	2.9	2.7	1.5	5.0	139	80	50	0	4	3	2	
Lincoln . . .	56	34	70	24	45	- 2	4.5	4.3	4.1	5.7	127	90	43	0	3	3	1	
Norfolk . . .	49	32	64	18	41	- 3	2.7	2.5	1.9	6.1	165	83	58	0	3	4	2	
N. Platte . . .	50	30	60	19	40	- 3	.8	.7	.3	2.1	70	73	42	0	4	4	0	
Omaha . . .	55	36	66	24	46	- 2	2.7	2.4	1.8	6.6	138	89	48	0	2	3	2	
Valentine . . .	42	27	58	17	34	- 7	1.2	1.1	.8	3.0	125	91	67	0	5	3	1	
NEV. Ely . . .	45	24	54	13	35	- 4	.2	.1	.1	1.0	100	72	39	0	6	2	0	
Las Vegas . . .	66	45	61	38	55	- 3	0	-.1	0	0	0	36	17	0	0	0	0	
Reno . . .	53	28	57	20	40	- 4	.1	0	.1	.4	50	76	41	0	6	1	0	
Winnemucca . . .	53	28	61	16	40	- 1	.3	.1	.4	.9	82	80	43	0	5	2	0	
N.H. Concord . . .	56	29	61	20	42	- 1	1.6	.8	1.4	8.5	137	94	44	0	5	2	1	
N.J. Atlantic City . . .	61	38	70	29	50	- 1	.9	0	.9	6.4	96	92	52	0	2	2	1	
Trenton . . .	61	42	73	38	51	- 1	.8	.1	.5	10.8	177	77	44	0	0	2	1	
N.MEX. Albuquerque . . .	60	32	61	25	46	- 4	.1	0	.1	.7	47	58	20	0	3	1	0	
Roswell . . .	63	32	80	27	48	- 5	.2	0	.2	.3	10	77	47	0	5	1	0	
N.Y. Albany . . .	53	33	62	25	43	- 2	1.4	.8	.8	8.8	149	94	54	0	4	2	2	
Binghamton . . .	49	35	57	28	42	- 2	1.4	.7	1.1	8.1	129	84	57	0	4	2	1	
Buffalo . . .	53	39	69	32	46	1	.1	-.7	.1	9.4	142	70	55	0	1	2	0	
New York . . .	58	44	68	40	51	- 1	1.0	-.2	.6	8.8	142	77	55	0	0	2	1	
Rochester . . .	52	35	64	31	44	- 2	T	-.6	T	7.5	144	84	55	0	3	1	0	
Syracuse . . .	53	36	63	29	45	- 2	.7	0	.4	7.9	134	88	59	0	4	2	0	
N.C. Asheville . . .	60	47	69	31	54	3	3.8	3.1	2.9	10.1	144	91	73	0	1	5	1	
Charlotte . . .	67	49	73	36	58	2	1.5	.9	.1	13.3	215	95	58	0	0	4	0	
Greensboro . . .	67	47	75	34	57	4	.9	.3	.9	16.4	252	87	52	0	0	2	1	
Hatteras . . .	70	59	75	52	64	4	4.3	3.3	3.8	18.4	170	84	59	0	0	2	1	
Raleigh . . .	69	46	75	31	57	3	1.8	1.2	1.6	9.9	150	98	54	0	1	2	1	
Wilmington . . .	74	53	79	41	63	3	.1	-.5	-.1	15.4	175	80	48	0	0	1	0	
N.DAK. Bismarck . . .	40	25	46	9	32	- 5	.1	0	T	.9	43	78	53	0	5	2	0	
Fargo . . .	38	27	50	19	33	- 4	2.3	2.1	1.6	3.0	103	84	70	0	6	3	1	
Williston . . .	43	19	52	13	31	- 5	0	-.1	0	.5	29	87	45	0	7	0	0	
OHIO. Akron-Canton . . .	58	37	71	31	47	1	.4	-.2	.4	9.9	190	68	42	0	2	1	0	
Cincinnati . . .	63	39	75	29	51	1	.8	-.2	.8	10.9	222	89	43	0	2	1	1	
Cleveland . . .	57	36	72	28	47	- 1	.5	-.1	.5	5.4	96	83	51	0	3	1	1	
Columbus . . .	61	38	75	29	50	2	.5	0	.5	8.7	198	90	49	0	2	1	1	
Dayton . . .	62	37	75	28	49	2	.6	-.1	.6	6.0	136	85	42	0	2	1	1	
Toledo . . .	56	33	73	24	45	- 1	.4	-.1	.4	5.0	104	95	48	0	4	1	0	
Youngstown . . .	59	36	70	28	47	1	.4	-.3	.4	7.2	126	80	42	0	2	1	0	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Nov. 4, 1979

States and Stations	Temperature °F						Precipitation						Relative Humidity, percent		Number of Days			
	Average maximum	Average minimum	Extreme high	Extreme low	Average	Departure from normal	Weekly total, in.	Departure from normal	Greatest in 24-hours, in.	Total, in., since Sept. 3	Pct. normal since Sept. 3	Average maximum	Average minimum	Temperature °F		Precipitation		
														90 and above	32 and below	.01 inch or more	.50 inch or more	
OKLA.Okla. City	64	39	76	32	52	- 3	.8	.4	.8	30	74	38	0	1	1	1		
Tulsa	65	43	77	34	54	- 1	1.1	.6	1.1	2.3	76	42	0	0	1	1		
OREG.Astoria	57	45	59	38	51	2	3.1	1.1	1.2	14.9	139	88	73	0	0	3		
Burns	46	31	52	26	39	- 2	.5	.2	.2	1.8	129	94	60	0	4	0		
Medford	56	41	61	34	49	1	.6	0	.3	4.5	150	95	64	0	0	0		
Pendleton	49	35	54	30	42	- 4	.2	-.1	.2	2.1	117	87	64	0	3	2		
Portland	56	44	62	34	50	2	1.3	.2	.4	6.4	112	83	67	0	0	0		
Salem	55	41	61	29	48	- 0	1.9	-.3	.4	7.0	115	97	72	0	1	4		
PA.Allentown	57	38	71	31	48	- 1	1.0	-.3	.5	12.6	194	89	53	0	1	2		
Erie	57	44	73	36	50	3	.7	-.1	.5	9.8	140	--	--	0	0	1		
Harrisburg	59	36	66	31	48	- 2	1.3	.5	.9	11.8	215	83	49	0	3	2		
Philadelphia	62	39	74	33	51	0	.8	-.1	.4	9.6	163	88	54	0	0	0		
Pittsburgh	59	38	73	31	49	- 2	.4	-.2	.2	6.5	120	71	39	0	1	1		
Scranton	52	36	62	28	44	- 2	1.7	1.0	.2	10.6	186	93	52	0	3	1		
R.I.Providence	60	38	72	31	49	1	2.1	1.2	1.9	10.2	150	76	48	0	1	2		
S.C.Charleston	75	56	80	44	65	5	.8	.3	.4	20.8	251	87	55	0	0	3		
Columbia	73	51	80	33	62	4	1.6	1.1	1.3	11.6	166	88	52	0	0	2		
Greenville	63	50	71	34	57	1	3.0	2.3	1.1	11.7	165	86	66	0	0	3		
S.DAK.Aberdeen	41	29	54	17	35	- 4	1.1	.9	.7	1.2	40	75	66	0	5	3		
Huron	44	30	52	21	37	- 4	1.2	1.0	.8	1.9	58	87	65	0	4	3		
Rapid City	46	27	52	17	36	- 5	.4	.3	.4	1.0	48	74	42	0	6	1		
Sioux Falls	49	32	65	19	40	- 1	2.7	2.5	2.0	7.3	166	85	61	0	4	2		
TENN.Chattanooga	66	49	74	33	58	4	2.2	1.5	1.5	11.2	167	82	54	0	0	3		
Knoxville	67	47	78	33	57	3	1.4	.7	.7	5.8	102	88	50	0	0	2		
Memphis	69	48	76	38	58	2	.5	-.2	.5	5.6	95	83	47	0	0	1		
Nashville	67	46	76	31	56	3	2.0	1.4	1.8	16.4	298	88	53	0	1	2		
TEX.Abilene	69	44	84	33	56	- 3	.5	.1	.5	10	72	32	0	0	1	1		
Amarillo	54	34	74	29	44	- 8	1.3	1.0	.7	1.8	47	86	53	0	4	2		
Austin	74	49	85	43	61	- 2	.4	-.1	.4	1.8	26	81	36	0	0	0		
Beaumont	73	50	83	39	62	- 2	4.6	3.7	4.6	13.1	141	87	49	0	0	2		
Brownsville	82	62	90	55	72	0	1.2	.7	1.1	9.9	115	88	49	1	0	2		
Corpus Christi	80	57	90	51	69	0	.2	-.2	.2	13.3	171	87	41	1	0	1		
Del Rio	77	53	88	43	65	1	0	-.3	0	.7	14	57	25	0	0	0		
El Paso	70	35	83	28	53	- 4	0	-.1	0	.4	21	52	17	0	4	0		
Fort Worth	69	46	83	40	58	- 3	1.5	1.0	1.5	4.4	73	72	38	0	0	1		
Galveston	71	59	80	53	65	- 3	2.6	2.0	2.6	12.8	152	71	52	0	0	1		
Houston	75	47	86	38	61	- 4	2.3	1.4	2.3	11.9	134	94	44	0	0	1		
Lubbock	62	37	83	30	50	- 4	.6	.3	.6	.8	18	68	38	0	3	1		
Midland	69	40	83	32	54	- 4	.1	-.1	.1	1.1	34	89	38	0	1	1		
San Angelo	70	41	81	33	56	- 5	.1	-.2	.1	1.1	23	70	31	0	0	0		
San Antonio	78	51	87	44	65	0	.1	-.4	.1	.9	13	76	30	0	0	1		
Victoria	75	50	85	43	63	- 4	1.7	1.1	1.6	10.8	130	95	44	0	0	1		
Waco	71	45	83	38	58	- 5	1.0	.5	1.0	4.4	73	82	41	0	0	1		
Wichita Falls	67	40	84	32	53	- 5	.2	-.2	.2	1.2	21	80	33	0	1	1		
UTAH.Blanding	48	24	53	18	36	- 8	.1	-.1	.1	.9	36	72	29	0	6	1		
Salt Lake City	51	30	58	26	41	- 4	.2	-.1	.1	1.6	80	90	44	0	5	2		
VT.Burlington	47	33	55	25	40	- 3	1.1	.5	.7	7.7	133	91	59	0	4	2		
VA.Lynchburg	64	44	69	31	54	2	1.2	.6	1.1	13.8	230	88	98	0	1	2		
Norfolk	67	50	77	45	59	3	1.5	.9	.9	16.9	235	81	52	0	0	2		
Richmond	69	44	79	35	57	3	1.4	.7	.9	14.4	215	94	54	0	0	1		
Roanoke	62	43	67	28	52	0	1.2	.6	1.1	13.5	199	91	54	0	1	3		
WASH.Colville	46	29	50	24	37	- 2	.2	-.2	.2	2.8	117	--	--	0	6	2		
Omak	50	33	58	30	42	2	.4	.1	.2	3.1	207	--	--	0	5	3		
Quillayute	55	40	59	30	47	1	2.1	- 1.0	.6	17.4	95	97	70	0	2	5		
Seattle-Tacoma	55	43	58	32	49	- 1	.5	-.7	.3	5.0	76	75	54	0	1	3		
Spokane	46	32	50	28	39	- 1	.2	-.2	.1	1.8	72	87	64	0	5	2		
Walla Walla	52	39	59	34	45	- 2	.1	-.3	.1	3.0	115	94	68	0	0	1		
Yakima	52	34	59	24	43	0	.5	.3	.3	1.3	118	91	56	0	3	2		
W.VA.Beckley	58	40	67	26	49	2	1.2	.6	1.1	8.4	140	75	52	0	2	1		
Charleston	65	41	77	26	53	2	1.2	.6	.9	8.7	155	77	35	0	2	2		
Huntington	67	42	82	29	55	4	1.2	.6	.7	9.2	180	83	36	0	1	2		
Parkersburg	65	41	76	30	53	2	.9	.4	.6	7.8	156	84	37	0	1	2		
WISC.Green Bay	52	33	62	24	42	1	.6	.2	.6	3.5	65	85	59	0	4	1		
La Crosse	55	37	68	26	46	3	.6	.2	.5	4.7	87	89	53	0	2	2		
Madison	55	32	67	21	43	1	.3	-.1	.3	3.1	56	80	47	0	4	1		
Milwaukee	50	36	62	25	43	0	.1	-.3	.1	1.8	36	85	66	0	3	1		
WYO.Casper	38	21	47	13	30	-10	.2	0	.3	.7	39	75	51	0	7	1		
Cheyenne	41	22	54	14	31	- 9	.4	-.2	.2	.9	45	62	38	0	7	2		
Lander	43	22	52	15	33	- 5	.2	-.1	.3	.4	16	80	43	0	7	1		
Sheridan	42	24	50	17	33	- 6	.7	-.5	--	2.8	122	77	52	0	7	0		
P.R.San Juan	90	75	92	71	83	3	.8	-.5	.8	11.3	93	93	62	5	0	2		

Based on preliminary reports and 1941-70 normals

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 ESCS State offices in cooperation with the National Weather Service.

ALABAMA: Above normal temperatures until 3d, 9° subnormal 4th; scattered light frost down to Florida Panhandle. Rainy through 2d, heaviest 3.40 in. Mobile on 1st.

Fieldwork: 3.8 days suitable. Soil moisture short southeast, adequate to surplus elsewhere. Crop harvest, seeding wheat main activities drier areas; equipment repair, normal chores elsewhere. Corn 93% harvested, 93% 1978, 79% average. Soybeans 98% dropping leaves, 83% mature; 60% harvested, 70% 1978, 52% average. Cotton 87% bolls open; 40% harvested, 84% 1978, 49% average. Wheat 66% seeded, 60% 1978, 71% average. Sorghum 77% harvested, 79% 1978. Condition of soybeans good to excellent; cotton, wheat, pastures fair to good; pecans poor to fair.

ARIZONA: Mostly fair, cool, scattered light precipitation northern half. Temperatures 3 to 8° below normal. First freezing temperatures in southwest deserts.

Cotton harvest excellent progress; 65% complete, 45% last year, average 57%. Defoliation, scraping, residue disposal active. Sorghum, corn harvest seasonal progress. Land preparations, planting small grains good progress. Spring sugarbeets, good growth, planting virtually complete, early plantings good stands. Alfalfa haying slowing. New, renovated plantings good progress. Lettuce harvest gaining momentum central areas, winding down southeast. Further planting lettuce, other mixed vegetables active. Cantaloup, other melon harvest rapidly ending. Lemon harvest good progress, not full volume. Grapefruit harvest underway. Fuel supplies mostly adequate. Higher ranges in good condition. Ranges extremely dry, no growth for winter browse. Cattle in good condition. Water hauling, supplemental feeding many areas.

ARKANSAS: Highest normal 60°, lowest 53°. Highest mean 61°, lowest 51°. Highest temperature 83°, lowest 23°. Most rainfall 3.18 in., least 0.79 in.

Crop harvesting delayed by rains. Sorghum and rice harvests nearing completion. Cotton and soybean harvests increased. Cool weather hampered development. Fieldwork: 3.7 days suitable. Adequate soil moisture. Diesel 80% adequate, 20% tight; gasoline 91% adequate, 9% tight; LP gas 94% adequate. Soybeans harvesting delayed by rain; 54% combined, 69% 1978, 51% average. Rain, cool weather hampered cotton boll development, delayed harvest; harvesting 49% complete, 84% 1978, 63% average. Rice harvesting neared completion; 97% combined, 100% 1978, 98% average. Corn harvest 87% complete, 96% 1978, 95% average. Sorghum harvesting slowed by wet weather; 97% combined, 98% 1978, 95% average. Small grains seeding delayed by rain; wheat 68% seeded, 74% 1978, 64% average. Oats 66% seeded, 67% 1978, 65% average. Cattle condition good. Supplemental feeding used. Pastures average.

CALIFORNIA: Precipitation in extreme north early and midweek. Substantial rains 2d in north and lesser amounts in central. Temperatures subnormal particularly over higher terrain.

Cotton harvest active; 55% harvested, 30% last year. Quality good, some rain damage ricks and modules stored in fields. Rice harvest 85% com-

plete, 90% year ago. Dryer back-ups, rain delayed harvesting. Winter wheat 16% planted, some fields emerging. Barley, oats, alfalfa, sugarbeets also being planted. Dry bean harvest nearing completion, some rain damage beans in windrows. Pruning, fertilizing, irrigation, tree topping underway. Some tree fruit orchards removed. Most fruit, nuts harvested. Emperor grapes harvested, light volume. Wine grapes harvested. Olive harvest continued. Desert area grapefruit, lemon harvests continued. Early variety Navel oranges harvested. Valencia orange harvest almost complete. Walnut harvest ending. Broccoli good volume central coast. Cauliflower increasing central coast. San Joaquin Valley harvest cauliflower mostly for processing. Harvest cantaloup, miscellaneous melons steady desert. Celery good supply central coast, very light Orange County. Lettuce steady San Joaquin Valley, started Palo Verde Valley. Harvest onions, potatoes stopped by rain Tulelake-Butte Valley. Strawberry planting south coast hampered by plant shortage. Market tomatoes decreasing south coast, continued San Joaquin Valley. Rains beneficial growth foothill ranges central, northern areas. More moisture needed southern areas. Supplemental feeding active most areas. Livestock grazing stubble fields. Bee hives moving San Joaquin Valley from other States. Farm fuels sufficient.

COLORADO: First major winter storm of season with strong gusty winds, heavy snow, blizzard conditions until early morning 31st. Heaviest snowfall foothills and eastern plains. Winds of over 50 mph piled snow into drifts 12 or more feet high. Temperatures averaged 5 to 10° below normal.

Winter wheat good to very good condition. Corn grain harvest 64%, 83% 1978, 75% average. Sorghum grain harvest 53%, 69% 1978, 68% average; early snow storm destroyed some acreage and reduced yields on other fields. Fall potato harvest virtually complete. Sugarbeet harvest 88%, 81% 1978, 87% average. Fieldwork: 3.5 days suitable. Ranges and pastures good condition. Livestock mostly good condition except for some death loss in southeast from early week snow storm.

FLORIDA: Scattered showers and a moist easterly flow over Peninsula through 2d with rainfall of 1.00 to 2.00 in. east coast and 1.25 in. or less interior, Gulf Coast. Dry early week in Panhandle. Cool front entered Panhandle on 1st with scattered thundershowers and rainfall; amounts less than 1.00 in. as the front traversed State on 3d. Dry, cooler conditions followed front with minimum 40's, north and 50's, central 3d and 4th. Temperatures averaged 2° above normal.

Soil moisture adequate south; adequate to short central, north, Panhandle. Soybean harvest continued most areas. Peanut harvest virtually complete. Sugarcane harvest for sugar active. Crop condition good. Some acreage may be lost Martin County by break in dam. Small grain planting active. Pecan harvest continued. Diesel, gasoline short some areas where harvest active. Pastures declining seasonally with cooler weather. Additional rain needed to promote growth of seedings for winter grazing. Condition cattle, calves shows wide range from fair to excellent. Irrigation for citrus quite active in sandy, high ridge area groves. Scattered rainfall and cooler weather late week beneficial. Fruit color breaking on all

varieties. Vegetable crops continue fair to very good. Few scattered showers, some locally heavy, central and southern farming area. Winds strong, gusty, becoming light to moderate last of week. Windburn, fruit scarring occurred some areas. Cooler weather beneficial to fruit set. Harvest very active many crops. Overall shipments up 59% from previous week. Snap bean, cucumber, escarole, lettuce, parsley, pepper, squash, tomato shipments up considerably. Supplies eggplant, radishes increased. Carrot harvest underway. Sweet corn, okra shipments decreased. Plant progress, maturity good to very good. Plantings active various crops. Land preparation for strawberry transplanting very active most areas. Planting very active west central area. Plants beginning to show some growth.

GEORGIA: Temperatures well above normal. Departures ranged from over 5° above in west to about 2° in east. Mean temperatures near mid-50's mountains to high 60's south. Rainfall very heavy in north but quite light in south.

Soil moisture short to adequate. Fieldwork: 4 days suitable. Corn fair to good; 94% harvested, 93% last year, 84% average. Soybeans fair to mostly good; 37% harvested, 61% last year, 39% average. Cotton fair to good; 97% open; 57% harvested, 80% last year, 56% average. Peanuts 100% dug, 100% last year, 100% average; 100% threshed, 100% last year, 99% average. Pecans fair to good; 22% harvested, 32% last year, 27% average. Apples 100% harvested. Wheat 40% planted, 37% last year. Rye 62% planted, 36% last year. Other small grains 57% planted, 41% last year, 60% average. Pastures fair to mostly good. Cattle and hogs good. LP gas 95% adequate. Diesel fuel 93% adequate, 5% tight. Gasoline 95% adequate.

HAWAII: Generally favorable weather prevailed. Crop progress fair to good. Some crop areas heavily irrigated. However, isolated, heavier rains Island Oahu slowed farm activities. Insect, disease damage reported to some crops.

Vegetable supplies: Snap beans, lettuce production light; heavy insect and disease damage. Sweet corn output very light. Cucumber, tomatoes increasing. Banana supplies light for apple, bluefield varieties, chinese type increasing. Papaya harvest: Seasonal flush occurring. Pineapple harvesting slow. Sugar harvesting nearing end some plantations. Preparations for yearend repairs. Pastures generally good. Fuel supplies adequate.

IDAHO: Temperatures 1 to 2° above normal north, 1 to 6° below normal remainder. Range: 90° to 65°. Precipitation varied with largest amounts in east.

Harvest of sugarbeets, apples and corn for grain continued. Cattle generally moved to winter ranges and calves being weaned. Range improvement limited by cool temperatures.

ILLINOIS: Temperatures near normal. Precipitation 0.20 to 0.45 in. northern 2/3 State, extreme south nearly 1.00 in.

Soil moisture short to adequate. Corn 75% harvested, 86% 1978, 74% average. Winter wheat 97% seeded, 98% 1978, 94% average; 80% emerged; condition good. Grain sorghum 90% harvested. Plowing 1980 corn, soybean acreage 40% complete, 49% 1978, 36% average. Pasture condition fair to good. Fieldwork: 6.0 days suitable.

INDIANA: Near normal temperature and precipitation. Temperatures ranged from 22 to 78°. Precipitation averaged 0.80 in. north, 1.20 in. central, 1.10 in. south falling on 1 or 2 midweek days. Sunshine, humidity, and drying rates above normal.

Fieldwork: 5 days suitable. Subsoil moisture adequate. Topsoil moisture surplus to mostly adequate. Corn 55% harvested, 1978 70%, average 60%. Soybeans 90% harvested, 1978 90%, average 90%. Winter wheat 90% seeded, 1978 90%, average 90%. Wheat 70% emerged, 1978 70%, average 70%. Stand is mostly good. Spring cropland 30% plowed, 1978 30%, average 20%. Rye 90% seeded, 1978 90%. Pastures fair to mostly good.

IOWA: Warm with heavy rains west; moderate rain central and east.

Fieldwork: 4.5 days favorable. Corn harvested 53%, 1978 89%, normal 79%. Soybean acreage harvested 100%, 1978 96%, normal 95%. Fall plowing 26%, 1978 30%, normal 31%. Topsoil moisture adequate to surplus. Subsoil moisture adequate. Livestock good condition. Livestock market movement above normal, herd replacement improved. Pasture condition improving, mostly fair to good; poor to fair southwest, south central.

KANSAS: Precipitation averaged 1.50 in. east to 2.00 in. west and 4.00 in. central with 6.00 in. to over 7.00 in. storm totals common in Reno, McPherson, Rice, and Kingman Counties where considerable local flooding occurred. Blizzard conditions midweek extreme west with snowfall 5.00 in. to over 10.00 in. Temperatures averaged from 40 to 45° west to 53° southeast or near normal east to 3 to 6° below normal west and north central.

Beneficial rains; excessive across central and south central. Wheat 93% seeded, 100% last year, 97% average. Some reseeded necessary. Wheat 70% emerged, very little pastured. Corn harvest 85% complete, last year 95%, average 75%. Grain sorghum harvest 80% complete, 90% last year, 70% average. Soybean harvest 90% complete, 90% last year, 65% average. Fieldwork: 2.5 days suitable. Little change in fuel situation.

KENTUCKY: Some cloudiness 29th with light showers south central and southeast. Mostly clear on 30th and 31st, frontal system with showers 1st and 2d, but mostly clear 3d and 4th. Temperatures near to a few degrees above normal. Precipitation averaged 0.50 to 1.50 in.

Fall harvest made good progress. Fieldwork: 4.2 days suitable. Corn harvested 78% this year, last year 84%, average 77%. Soybeans 71% harvested, 81% last year, 68% average. Burley tobacco stripping 22% complete equals average. Period of higher humidity needed to bring crop into case. Fall wheat nearly 75% planted; off to a good start. Fuel supplies adequate.

LOUISIANA: Temperatures normal to 4° above normal. Extremes: 87 and 31°. Showers statewide.

Fieldwork: 4.6 days suitable. Soil moisture adequate. Soybeans 84% harvested, 90% last year, 79% average. Cotton 96% bolls open; 63% harvested, 91% last year, 70% average. Sugarcane good; 22% harvested, 31% last year, 29% average. Sweetpotatoes 90% dug, 93% last year, 92% average. Oats and wheat 83% seeded, 81% last year, 79% average. Pecans 38% harvested, 26% last year. Hay fair to good; 98% last cutting. Pastures fair. Cattle good.

MARYLAND & DELAWARE: Temperatures averaged 1° below normal. Highs in upper 50's to mid-60's, lows in the upper 30's to mid-40's, except 30° in mountains. Precipitation, light, averaging 0.25 in.

Fieldwork: 6.7 days suitable. Soil moisture supplies adequate. Fuel supplies adequate. Corn harvested for grain 80%, 91% last year, 85% normal.

Virtually all of the soybean crop has shed leaves. Soybean harvest 45%, 59% last year, 51% normal.

MICHIGAN: Temperatures ranged from 2° below to 4° above normal. Maximum temperatures in mid-70's, lows in the mid to upper 20's. Light precipitation.

Fieldwork: 5 days suitable. Soil moisture adequate. Pasture feed supplies average. Corn 100% mature, 100% last year and normal; 33% harvested, 63% last year, 58% normal. Soybeans 70% harvested, 80% last season, 84% normal. Sugarbeets about 90% dug, 87% last year, 85% normal. Plowing for spring planted crops 20% complete. Apple harvest virtually complete.

MINNESOTA: Temperatures 2 to 5° above normal south-east, south central, east central; near normal elsewhere. Extremes: 70 and 16°. Precipitation averaged near normal to 0.50 in. above in south-east; 2.00 in. above in southwest, central, north-east; 3.00 in. or more above normal in west central, northwest, north central. Precipitation totals 1.00 in. or less southeast, east central; 3.00 in. or more in west.

Heavy rains halted most fieldwork. In some areas, farmers will probably have to wait until ground freezes before resuming harvest in some areas. Others may resume this week. Corn harvest latest since 1965. Grain moisture still very high. Harvested: Corn 22%, 1978 and normal 91%; soybeans 88%, 1978 99%, normal 98%; sunflowers 74%, 1978 99%, normal 94%; sugarbeets 98%, 1978 99%, normal 99%.

MISSISSIPPI: Temperatures 1 to 4° above normal. Rain most of state. Average rainfall 1.50 in. Extremes: 27 to 86°.

Soil moisture adequate. Fieldwork: 3.3 days suitable. Threats of wet weather in next couple of weeks kept farmers diligently involved in harvesting activities. Winter grazing crops benefited from rainfall. Soybeans 100% shedding, 100% 1978; 92% mature, 100% 1978; 57% harvested, 75% 1978, 60% average; condition mostly good. Cotton 50% harvested, 93% 1978, 67% average; condition fair to good. Rice 97% harvested, 100% 1978, 98% average. Corn 90% harvested, 94% 1978, 85% average. Sorghum 95% harvested, 98% 1978, 93% average. Hay crops 99% harvested, 100% 1978, 98% average. Sweet-potatoes 89% harvested, 94% 1978, 96% average. Peanuts 94% harvested, 100% 1978, 98% average. Winter wheat 71% planted, 65% 1978, 76% average. Pecans 22% harvested, 30% 1978, 34% average; condition poor. Pasture condition fair to good. Diesel and gasoline supplies mostly adequate, some scattered tight. LP gas supplies adequate.

MISSOURI: Temperatures 2 to 3° above normal. Rain general in midweek, averaging 1.50 in. West Ozarks, 0.50 to 1.00 in. elsewhere.

Fieldwork: 4.1 days suitable. Corn 71% harvested, last year 74%, normal 70%. Soybeans 86% harvested, last year 83%, normal 70%. Grain sorghum 79% harvested, last year 79%, normal 74%. Cotton 76% harvested, last year 87%, normal 67%. Winter wheat 81% seeded, last year 83%. Plowing for spring planted crops 33%, last year 40%. Pastures mostly poor to fair. Soil moisture supplies mostly short to adequate. Fuel supplies for farmwork are tight to adequate.

MONTANA: Temperatures averaged 7° below normal southwest; elsewhere 1 to 4° below normal. Precipitation generally light except over extreme south where moderate to heavy amounts noted.

Soil moisture short. Potato and sugarbeet harvest virtually complete, with only scattered fields remaining to be harvested. Most cattle and sheep

moved from summer ranges and are in good condition. Winter feed supplies adequate.

NEBRASKA: Precipitation general; ranged from 1.00 Panhandle to 5.00 central and eastern areas. Snow totaling 2 to 8 in. Panhandle and northwest. Temperatures 5 to 8° below normal Panhandle; near normal south and east.

Corn harvest 60% complete, year ago 85%, normal 70%. Sorghum harvest 80% complete, year ago 95%, normal 85%. Winter wheat condition fair to 36% good. Gasoline and diesel 90% adequate, 10% tight. Fieldwork: 2.9 days suitable.

NEVADA: Cool, fall weather; temperatures averaged 50 to 50° below normal. Precipitation light north and central, none south. First snowfall of season fell Sierras.

Alfalfa hay, onion, and potato harvests completed. Livestock mostly good condition.

NEW ENGLAND: Subnormal temperatures midweek followed by above normal temperatures on 2d. Cold front at weekend returned normal temperatures and 1.25 in. of rain central with 1.50 to 2.50 in. elsewhere.

NEW JERSEY: Temperatures 1 to 3° below normal, averaging 44° north, 49° south, 51° coastal. Extremes: 23 and 76°. Precipitation above normal, averaging 1.63 in. north, 0.99 in. south, 1.05 in. coastal.

Harvest of hardy fall vegetables continued. Apple and cranberry harvests will finish up this week. Combining of field corn and soybeans active. Early planted grain and cover crops growing well.

NEW MEXICO: Rain and snow most mountain sections 29th and 30th. Blizzard conditions northeast on 30th with as much as 10 in. of snow accumulation and extensive blowing and drifting. Colder on 30th with freezing temperatures statewide on 1st. Strong warming by weekend.

Warmer days and cool nights in south favorable for harvest and maturing crops. Snow in north. Light to moderate killing frosts in south. Soil moisture supply adequate. Cotton advanced to 13% harvested. Combining grain sorghum in full swing. 70% harvested. Corn, red chile, apple, lettuce harvests in full swing. Pecan hulls opening. Ranges fair, livestock good, fall shipments later stages.

NEW YORK: Near to slightly below normal temperatures averaged in 40's. Coastal low pressure system created above normal precipitation in southeastern half at weekend. Rainfall totaling 1.00 to 2.00 in. east; 0.50 in. or less west.

NORTH CAROLINA: Temperatures averaged near normal. Precipitation above normal.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Condition of wheat, oats, barley, rye and pasture fair to good. Harvested: Corn for grain 91%, 1978 100%, average 89%. Cotton 44%, 1978 60%, average 48%. Soybeans 28%, 1978 38%, average 23%. Sorghum grain 75%, 1978 87%, average 78%. Planted: Wheat 61%, 1978 58%. Oats 73%, 1978 64%, barley 68%, 1978 74%. Rye 59%, 1978 53%. Phenological stages: soybeans leaf drop 77%.

NORTH DAKOTA: Early winter storm brought heavy amounts of precipitation from rain, sleet and snow east. Another dry week west. Largest precipitation 2.34 in. southeast up to 5 in. snow southeast on 1st. Temperatures averaged several degrees below normal statewide. Extremes from 9° south central to 60° also south central.

Sunflower and corn harvest held up by storm southeast. Progress of sunflower harvest also slow elsewhere. Cool, wet conditions forcing continued use of mechanical dryers. Sunflower harvest 67% completed. Still need 2 to 3 weeks favorable harvest weather to complete sunflower and corn combining. Topsoil moisture levels improved east but still dry west. Overall, topsoil and subsoil moisture short. Winter wheat and rye in mostly fair condition. Livestock generally good condition. Unusually large supplemental feeding due to poor pasture condition.

OHIO: Temperatures ranged 82° south, 21° north-east. Averages near normal north, 4° warmer than normal south. Rainfall 0.50 in. average.

Soil temperatures averaging a few degrees lower as a result of cool nights. Harvest of corn and soybeans very active. Some seasonal wait at elevators; no unusual transportation problems. Winter wheat planting continued, stands now look good; warm weather sped germination and growth. Nursery work very active northeast. Tobacco stripping underway Ohio and Miami Valley areas. Corn harvested 55%, 75% 1978, 65% average. Soybeans harvested 85%, 90% 1978, 90% average. Sugarbeet harvest 90%, 90% 1978, 75% average. Apple harvest 90%, 90% 1978, 90% average. Potato harvest 99%, 100% 1978, 100% average. Wheat planted 90%, 100% 1978, 95% average. Wheat emerged 50%. Fieldwork: 6 days favorable. Pasture condition very good. Soil moisture adequate.

OKLAHOMA: Temperature averages varied from 2 to 3° below normal northeast to 8 to 10° below normal south central and Panhandle. Precipitation varied from 0.65 in. central to 2.86 in. southeast. Precipitation fell during early and middle part of week. Much-needed precipitation received statewide.

Heavy snow and rains received Panhandle, rain fell rest of State. Completion wheat seeding delayed by rain. Delay welcome as enabled dusted in wheat to germinate. Wheat planted 95%, 100% 1978, 95% average; wheat up to stand 50%, 85% 1978, 80% average. Sorghum harvest 65%, 50% 1978, 60% average. Cotton harvested 15%, 15% 1978, 10% average.

OREGON: Precipitation at all stations; amounts varied 0.75 in. southwest to 1.00 to 2.00 in. other western portions. Few coastal areas 3.00 in. East ranged as low as a few hundredths of an inch, but mostly averaged 0.20 to 0.40 in. Temperatures near or slightly below normal.

Soil moisture mostly adequate; adequate to surplus in a few western portions. Winter wheat 85% planted, 63% emerged. Sugarbeet harvest, corn, and dry bean harvest continuing. Fertilizing of grass and fields continuing as weather permits. Fruit harvest virtually complete; after-harvest activities underway. Walnut harvest winding down rapidly. Potatoes finishing up; harvest delayed in some areas by snow and rain. Livestock condition fair to good. Cattle moving to winter grazing and wheat stubble. Calves light but marketings good. Range and pasture conditions brighter with recent rains; mostly fair condition.

PENNSYLVANIA: Sunny with seasonable temperatures first 3 and last 2 days; mild and cloudy with rain 2d, clearing 3d. Temperatures 30's to 50's most days. Extremes: 74 and 18°. Heavy frost 29th. Midweek storm brought 0.25 to 1.00 in. rainfall west and 0.50 to 2.00 in. east.

Fieldwork: 6 days suitable. Soil moisture mostly adequate to surplus. Activities: Harvest of corn, soybeans, hay and silo filling; seeding small grain. Corn 55% mature; 45% harvested, last year 65%, normal 60%. Soybeans 45% harvested.

Virtually completed are harvests potatoes, ensilage corn, fruits and vegetables; fall plowing and wheat sown. Hay quality mostly fair. Feed from pastures mostly average.

PUERTO RICO: Island average rainfall 1.28 in. or 0.35 in. below normal. Temperatures averaged about 81° on coasts and 75° interior. Extremes: 95 and 51°.

SOUTH CAROLINA: Warmer than usual until seasonably cool at end of period. Extremes: 28 and 82°. Rainfall about midweek.

Soil moisture nearly adequate. Fieldwork: 4.5 days available. Cotton 72% harvested, some rain interruptions, 89% last year, 69% average. Soybeans 16% harvested, mostly early varieties, 42% last year, 25% average; 98% of leaves turned color, 87% shedding leaves, 97% last year. Fall cucumbers poor, 87% harvested; fall snap beans poor to fair, 85% harvested. Wheat acreage 36% planted, near 38% last year and average; 27% emerged good condition, 25% last year. Winter grazing crops good condition, 85% planted; ahead of last year and average.

SOUTH DAKOTA: Average temperatures 1 to 9° sub-normal. Wet and cold weather prevailed. Extremes: 65 and 10°.

Rain, snow and high winds early week brought row crop harvest to standstill. Wind damage light to heavy. Fieldwork: 2.5 days suitable. Corn for grain harvest 2 weeks behind average; grain sorghum one week; sunflowers one week behind last year. Grain moisture content high. Farmers having difficulty finding dryer facilities. Grain transportation and storage problems continued. Some storage on ground. Farm fuel supplies mostly adequate. Topsoil moisture supplies surplus in southeast and east central, adequate in southwest to northeast band; short elsewhere. Subsoil moisture supplies short west, north and south central; adequate elsewhere. Winter wheat and rye rated fair and improved. Greenbugs and aphid activity continued. Corn for grain 56% harvested, 1978 84%, average 79%. Sunflowers 80% harvested, 1978 91%. Grain sorghum 80% harvested, 1978 91%, average 87%.

TENNESSEE: Rain early and midweek. Amounts 3.00 in. Mild until cold front at weekend. Temperatures averaged 2° above normal west, 6° above normal east.

Soil moisture surplus. Fieldwork: 2.7 days suitable. Crops fair condition. Pastures and livestock good condition. Corn harvested 75%, 1978 84%, average 67%. Cotton open bolls 85%, 1978 100%, average 95%; harvested 38%, 1978 89%, average 60%. Soybeans harvested 55%, 1978 82%, average 46%. Burley tobacco stripped 51%, 1978 35%, average 53%. Fall plowing completed 84%, 1978 80%, average 84%. Wheat seeded 75%, 1978 78%, average 75%. Oats seeded 90%, 1978 92%, average 92%. Barley seeded 92%, 1978 92%, average 92%. Fuel supplies adequate.

TEXAS: Low pressure and cold front pushed through midweek spawning thunderstorms, tornadoes. Temperatures normal to 6° below normal. Moisture totaling 1.00 to 3.00 Coast, High Plains, Central and East Texas. Scattered showers or dry elsewhere. High pressure cleared skies weekend.

Cold front brought freezing temperatures, snow northern High Plains while most of Panhandle received frost, showers. South Texas, Trans-Pecos, portions of Edwards Plateau, Cross-Timbers and southern Low Plains missed precipitation but showers fell remainder of State. Cold snap desiccated Plains cotton crop, boll opening will accelerate and stripping should soon peak. Cotton harvest made good progress before midweek precipitation.

Most Central Texas producers winding down harvest. Soybean harvest on High Plains virtually complete while coastal producers are halfway. Cooler weather hastened sorghum maturity Plains. High winds accompanying front caused some lodging. Peanut harvest winding down. Recent rains will facilitate harvest of remaining dryland fields. Harvest of sugarcane Lower Rio Grande Valley and sugarbeets High Plains temporarily delayed by rain. Small grains will benefit from recent moisture. South Texas, Edwards Plateau, Low Plains still need moisture. Early planted East Texas oat fields attained 6 in. growth; providing grazing. Cotton open bolls 88%; harvested 36%, 33% 1978, 35% average. Sorghum mature 100%; harvested 90%, 90% 1978, 88% average. Wheat planted 87%, 94% 1978, 90% average; emerged 58%. Corn harvested 100%, 100% 1978, 95% average. Peanuts harvested 94%, 85% 1978, 79% average. Soybeans harvested 63%, 69% 1978, 63% average. Sugarbeets harvested 41%, 49% 1978, 48% average. Pecans harvested 14%, 17% 1978, 16% average. Sunflowers harvested 96%, 86% 1978, 82% average. Barley planted 49%. Flax planted 13%, 44% 1978, 16% average. Oats planted 79%, 93% 1978, 87% average.

Pastures and ranges continued to deteriorate rapidly except few areas North Central and Northeast Texas. Dry conditions limited forage growth most areas; producers Edwards Plateau and South Texas increased supplemental feeding. High Plains livestock losses reported after high winds and blowing snow hit region.

Lower Rio Grande Valley harvest cucumbers, bell peppers, cabbage continued. Lettuce and onions making good growth. Citrus market strong; early oranges and grapefruits good volume. Coastal Bend harvest late planted cucumbers underway. Cabbage planting continued. San Antonio-Winter Garden squash, beans, cucumbers, cabbage moving to market. Carrots, onions doing well; some windburn reported on small plants. Laredo cabbage, broccoli, onions progressing well. Carrots developing well with cool weather. Leaf disease minimal because dry weather. East Texas sweetpotato harvest winding down. Recent rains beneficial fall gardens. Trans-Pecos freeze stopped bell pepper growth. Fall onion seeding in progress. High Plains hard freeze brought vegetable production to standstill. Pecan harvest gained momentum; North Texas high winds helped harvesting operations; some nuts dropped prematurely. Wet weather Central Texas delayed mechanical harvesting some orchards. Quality varies.

UTAH: Recurring widely scattered showers. Accumulated moisture generally light to moderate. Snow at higher elevations. Average temperatures 1 to 9° below normal.

Soil moisture very short. Most week suitable for fieldwork. Potato harvest virtually complete. Corn for silage all chopped. Corn for grain still being harvested.

VIRGINIA: Mostly mild seasonable temperatures; cooler air moved in on 3d as cool front moved eastward. Temperatures averaged near normal. Extremes: low 20's to upper 70's. Rainfall moderate averaging 0.50 to 0.75 in. mainly on 2d and 3d.

Open weather majority of period speeded fall activity. Topsoil moisture mostly adequate. Fieldwork: 5.2 days available. Corn grain combining 76% done, 84% 1978, 76% usual. Tidewater southeast harvests virtually completed. Soybean combining 27% done, 55% 1978, 37% average. Tidewater, southeast 29% done, 60% 1978. Sorghum grain combining 30% done, 41% 1978. Peanuts: Digging

virtually done; combining 90%, 97% 1978, 89% usual; marketings show meat content lower than usual. Cotton 0% picked, 100% 1978, almost 50% average. Small grain seeded: Wheat 50%, 49% 1978, 60% average; barley 80%, 71% 1978; oats 80%, 84% 1978. Pastures good to excellent. Flue-cured tobacco marketing winding up; burley to start 11/19, fire-cured 11/27, sun-cured 12/11. Sweetpotatoes ending Eastern Shore. Apples, cabbage marketed southwest.

WASHINGTON: West: Temperatures near normal. Precipitation significant but still 0.10 to 1.00 in. below normal.

Frost recorded in some areas. Celery and carrot harvests continued. Silage cutting slow. Winter wheat plantings well advanced. Planting of flower bulbs and raspberry pruning continued.

East: Temperatures near normal except for central basin 6° above normal. Precipitation occurred through week, but 0.10 to 0.30 in. below normal.

Corn harvest continued as weather permitted. Both winter wheat and barley improved, overall still below average. Soil moisture improved to fair condition. Apple harvest complete. Farm activities include orchard clean-up, herbicide spraying. Wheat planted 96%, 100% 1978.

WEST VIRGINIA: Temperature slightly above normal. Precipitation above normal except north and northeast below normal. Heavy frosts last 2 days of period. Farmwork: 4.7 days suitable. Soil moisture adequate to surplus. 3d haying virtually complete. Corn for grain 65% harvested. Potato harvest virtually complete. Small grain planting: Wheat 80%, barley 92%, both comparable to average. Main farm activities: Corn combining, seeding small grain. Hay and fuel supplies adequate. Pasture condition mixed; fair to excellent.

WISCONSIN: Temperatures above normal north and west, near normal south and east. Mild until midweek with highs in 50's and 60's. Strong cold front 31st brought gusty winds, thunderstorms, small hail, and some locally heavy rainfall central and north. Showers and snow flurries 1st. Precipitation averaged 0.50 to 1.50 in. High temperatures in 30's and 40's after midweek, with lows in 20's and 30's.

Fieldwork: 5 days suitable. Corn harvest continued slow due to high moisture content. Corn for grain 30% harvested, 1978 65%, normal 60%. High moisture corn going into silos. Soybeans 50% combined, 1978 70%, normal 65%. Sunflowers being harvested. Plowing conditions much improved by moisture in October but plowing slowed by lack of harvesting progress. Fall plowing 33% done, 1978 35%, normal 42%. Winter wheat looking much better after recent rains. Early tobacco cured and ready for stripping. Apples still being picked in northern areas. Some late vegetables being harvested. Topsoil moisture mostly adequate to surplus.

WYOMING: Temperatures 4 to 10° below normal. Maximum temperatures in 50's and 60's. Minimum temperatures chilly, ranging from single digits to teens. Precipitation above normal.

Topsoil moisture short to adequate. Fieldwork: 4 days suitable. Most potatoes and dry beans harvested. Corn for grain 69% harvested. Sugarbeets 97% dug. Winter wheat fair to good condition, additional moisture needed for optimum development. Stock water adequate. Livestock sold or delivered: Yearlings 74%; calves 65%, lambs 82%.

HARVEST PROGRESS
FOR WEEK ENDING NOV 4

SOYBEANS			
	1979	1978	AVG.
ALA	60	70	52
ARK	55	69	51
GA	37	61	39
ILL	98	96	95
IND	90	90	90
IOWA	100	96	95
KANS	90	90	65
KY	71	81	68
LA	84	90	79
MICH	70	80	84
MINN	88	99	98
MISS	57	75	60
MO	86	83	70
NEBR	100	100	90
N C	28	38	23
OHIO	85	90	90
S C	15	42	25
TENN	55	82	46
18 STATES	78	84	75

THESE 18 STATES PRODUCED 95%
OF THE 1978 SOYBEAN CROP.

CORN			
	1979	1978	AVG.
COLO	64	83	75
GA	94	93	84
ILL	75	86	74
IND	55	70	60
IOWA	53	89	79
KANS	85	95	75
KY	78	84	77
MICH	33	63	58
MINN	22	91	91
MO	71	74	70
NEBR	60	85	70
N C	91	100	89
OHIO	55	75	65
PA	45	65	60
S DAK	56	84	79
VA	76	84	76
WIS	30	65	60
17 STATES	57	83	74

THESE 17 STATES PRODUCED 93%
OF THE 1978 CORN CROP.

COTTON			
	1979	1978	AVG.
ALA	40	84	49
ARIZ	65	45	57
ARK	49	84	63
CALIF	55	30	NA
GA	57	80	56
LA	63	91	70
MISS	50	93	67
MO	76	87	67
N MEX	13	11	31
N C	44	60	48
OKLA	15	15	10
S C	72	89	69
TENN	38	89	60
TEX	36	33	35
14 STATES	42	45	43

THESE 14 STATES PRODUCED 99%
OF THE 1978 COTTON CROP.

GRAIN SORGHUM			
	1979	1978	AVG.
COLO	53	69	68
KANS	80	90	70
MO	79	79	74
NEBR	80	95	85
OKLA	65	50	60
S DAK	80	91	87
TEX	98	90	88
7 STATES	82	88	79

THESE 7 STATES PRODUCED 92%
OF THE 1978 GRAIN SORGHUM
CROP.

RICE			
	1979	1978	AVG.
ARK	97	100	98
CALIF	85	90	NA
LA	100	100	100
MISS	97	100	98
TEX	100	100	100
5 STATES	94	98	NA
EXCL CALIF	90	100	96

THESE 5 STATES PRODUCED 99%
OF THE 1978 RICE CROP.

PLANTING PROGRESS
FOR WEEK ENDING NOV 4, 1979

WINTER WHEAT			
	1979	1978	AVG.
CALIF	16	NA	NA
COLO	100	100	100
IDAHO	99	NA	NA
ILL	97	98	94
IND	90	90	90
KANS	93	100	97
MO	81	83	NA
MONT	100	100	100
NEBR	100	100	100
OHIO	90	100	95
OKLA	95	100	95
OREG	85	NA	NA
S DAK	100	100	100
TEX	87	94	90
WASH	95	100	NA
15 STATES	92	98	96

THESE 15 STATES PRODUCED 90%
OF THE 1979 WINTER WHEAT CROP.

CORRECTION FOR W/E OCT 28
WINTER WHEAT SEEDING
WASH 92 95 NA

NA NOT AVAILABLE

International Weather and Crop Summary

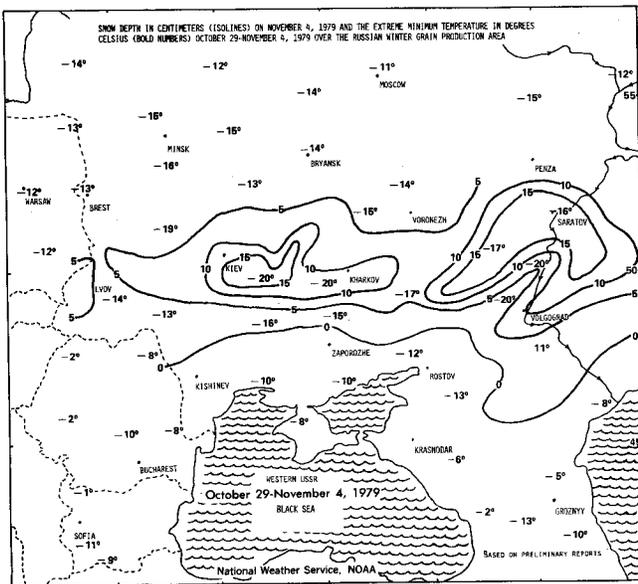
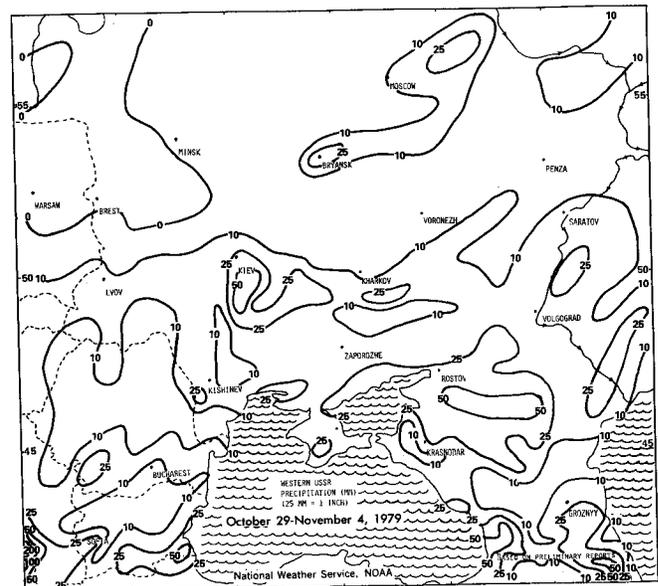
October 29 - November 4

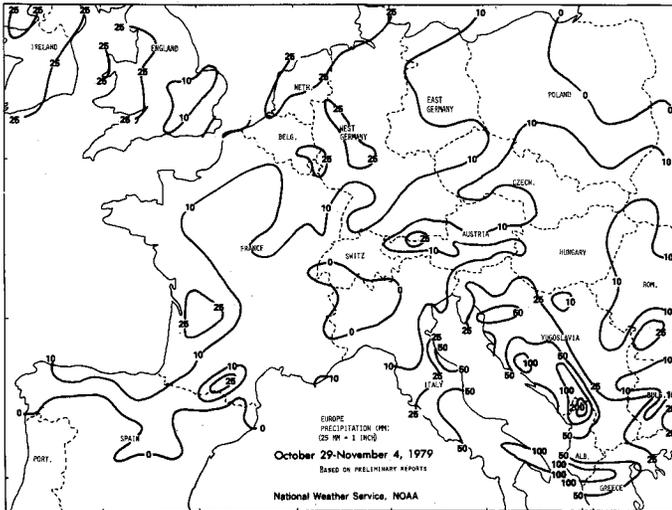
HIGHLIGHTS:

- USSR. Winter grains dormant...extreme cold in the Ukraine.
- EUROPE. Sowing winter grains in the south*...generally favorable conditions.
- CHINA. Second rice crop late, turning color...generally fair weather. Winter wheat sown in the north*...adequate irrigation supplies.
- INDIA. Wheat sowing season*...continued dry.
- AUSTRALIA. Beginning wheat harvest*...favorable, dry weather.
- SOUTH AFRICA. Planting maize*...becoming dry again in the southwest.
- ARGENTINA. Wheat harvest near in the north*...moderate rains in some areas.
- BRAZIL. Planting soybeans...excellent soil moisture in Parana.

*Based on normal crop calendar information.

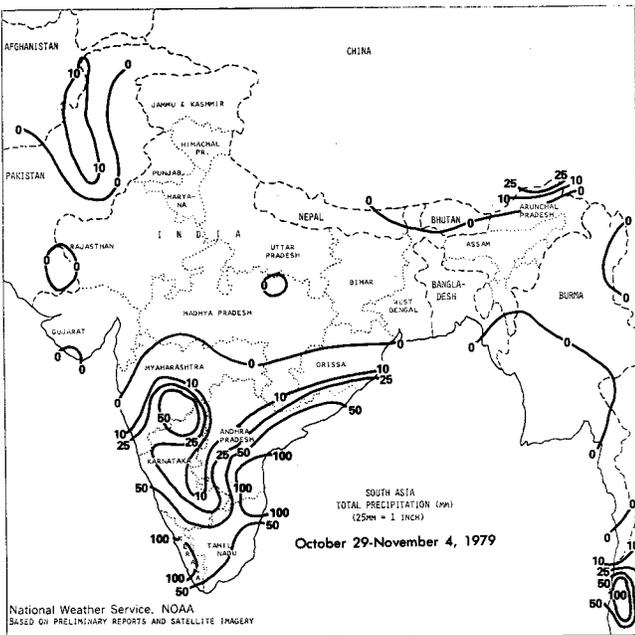
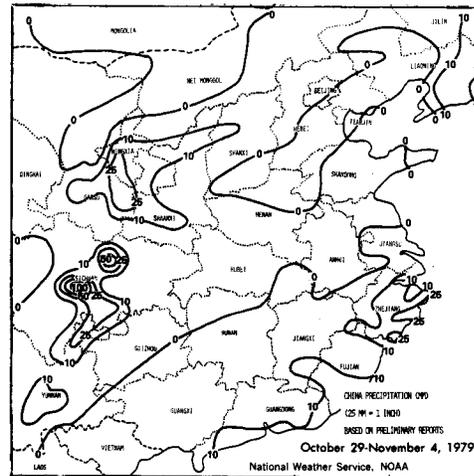
USSR. Above-normal precipitation over most of the Ukraine fell as snow in all but the southernmost areas. At week's end, at least 5 cm of snow blanketed much of the northern half with depths ranging up to 20 cm just east of Kiev. Bitter cold moved into the area over the weekend with temperatures of -20°C recorded at many locations in the north-eastern third of the Ukraine. An extreme of -24°C occurred at Kiev, with -4°C values observed south to the Black Sea and Caucasus Mountains. These temperatures ranged about 15 Celsius degrees below normal for several days, setting records in some locations. Although the snowcover offered some protection against the cold in many areas, some winterkill probably occurred, especially in the southwestern Ukraine where winter grain development had lagged due to dry weather.



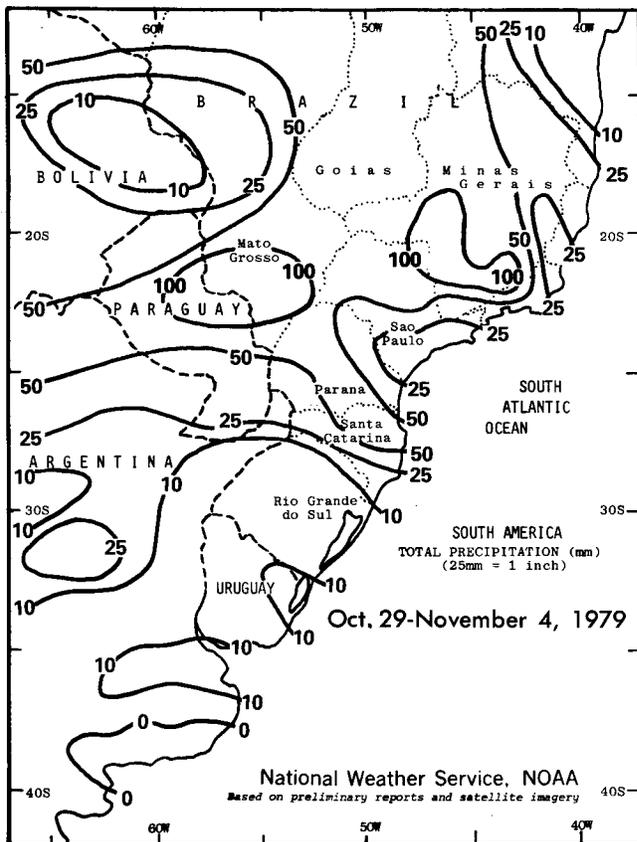


EUROPE. Drier weather returned to those Mediterranean areas that had received repeatedly excessive precipitation during the past four weeks. The improved weather should allow sowing of winter grains in those areas. Precipitation this week fell in a band extending from the Netherlands south-eastward to Greece. Heavy totals were restricted to mountainous areas of Albania and Yugoslavia, so winter grains generally benefited from this moisture.

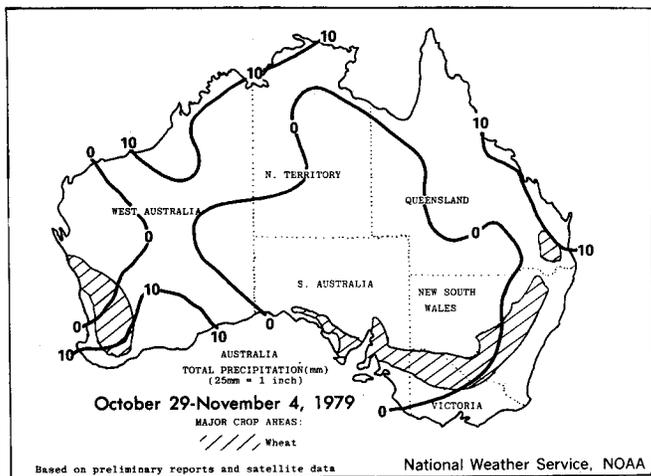
CHINA. Scattered light rain fell over the North China Plain, but irrigation supplied the greater part of the winter wheat's moisture needs. Substantial totals in the hills of Gansu, and parts of the Sichuan Valley maintained adequate growing conditions there. The maturing late rice crop received moderate rainfall in southeastern coastal areas with little positive or negative impact.



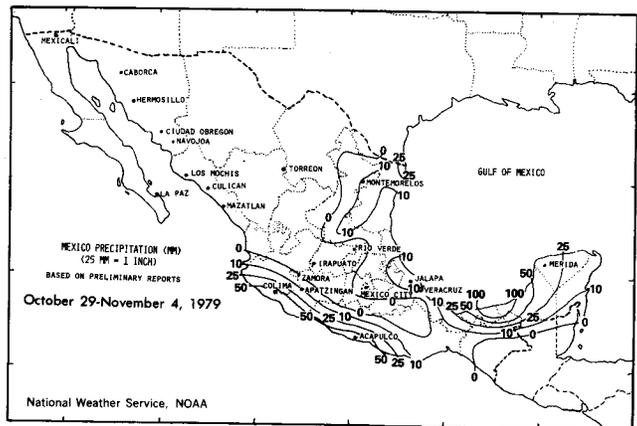
INDIA. Dry weather continued in the winter wheat belt of northern India with no prospects of moisture in sight. Substantial rainfall was limited mostly to coastal peninsular areas, as a tropical cyclone moved through in midweek. A third consecutive dry week in the northeastern states indicates that the monsoon ended three to four weeks early there as well, perhaps decreasing crop yields slightly.



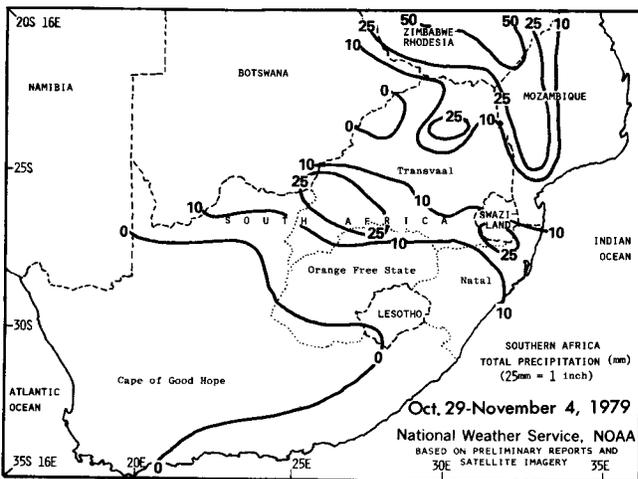
SOUTH AMERICA. Brazil's Parana State received abundant rainfall again this week as soybean planting continued. These rains extended northeastward through the entire coffee area, producing good soil moisture for the flowering season now in progress. Drier weather in Rio Grande do Sul was probably a relief to early soybean planting operations after last week's heavy totals. Conditions are not expected to remain dry. Moderate rains fell in western maize areas in Cordoba, Argentina, where conditions had been a little dry; the system is spreading beneficial rains eastward and northward as it develops.



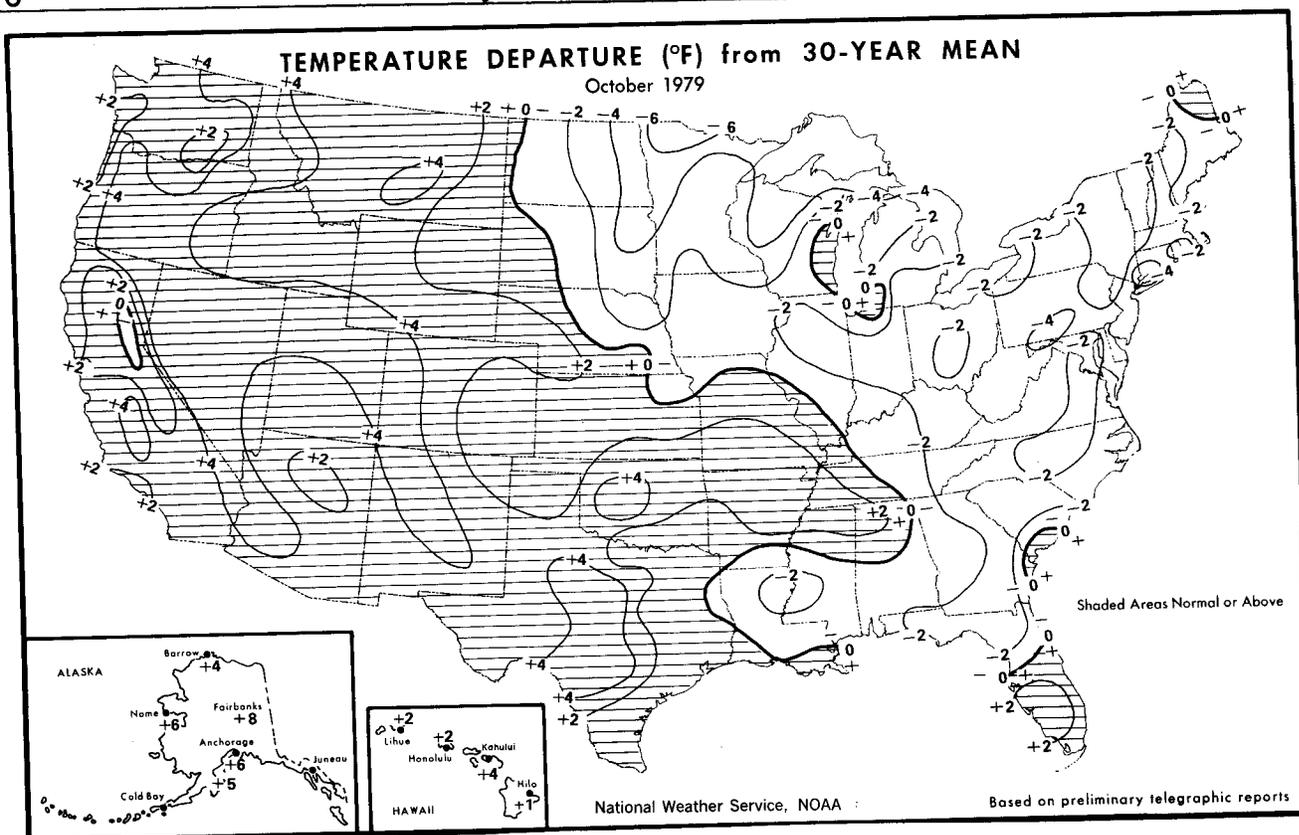
AUSTRALIA. Eastern grain areas dried out this week, allowing harvest to begin. In fact, nearly the entire crop area experienced dry weather, and no rain was needed as harvest time neared.



MEXICO. Rains fell over southwestern and eastern coastal sections as weakening Tropical Storm Ignacio recurved into Colima and tracked eastward. The storm triggered 50 to 60 mm along the southwest coast and up to 130 mm in the Bay of Campeche coast. Very dry conditions, prevailing for several months in the north, have gradually extended into the southern interior. The moisture shortage is likely hurting some crops and livestock as well as causing subnormal minimum temperatures. West coast vegetable areas were sunny and mild. Culiacan's afternoon temperatures averaged 30°C with a relative humidity of 38 percent while overnight minima were 17°C with 82 percent humidity.



SOUTH AFRICA. Rainfall totals in the northeastern portion of the Maize Triangle remained near normal; maize planting continued. A second week of only light rains in central areas produced uncertain planting conditions, while dry weather in the southwest made soils a little dry for planting.



October Weather Summary

HIGHLIGHTS: Early in October, rain was generally confined to the eastern United States. The already too wet mid-Atlantic States and eastern New England continued to accumulate surplus moisture. By the end of October, nearly twice the normal amount of rain had fallen.

Seasonal precipitation began in the West at mid-month. Rain or snow in some amount fell nearly everywhere in the West. Well-above-normal amounts were recorded in all but the Southwest. Near the end of the month, a severe storm brought blizzard conditions to the western Plains and heavy rain to the eastern Plains. Goodland, Kans., measured a record 17.6 inches of snow during October.

Average temperatures for the month were above normal in the West and colder than normal in the East.

Rainfall was confined to the area from the eastern Plains to the East Coast in the first week of October. The area of heaviest rain extended from the New England Coast into central Virginia where more than two inches were recorded. Moderate rain fell in the Great Lakes area and from the central Mississippi Delta through South Carolina. Average temperatures for the week were very warm in the West and generally cool in the East except for New England.

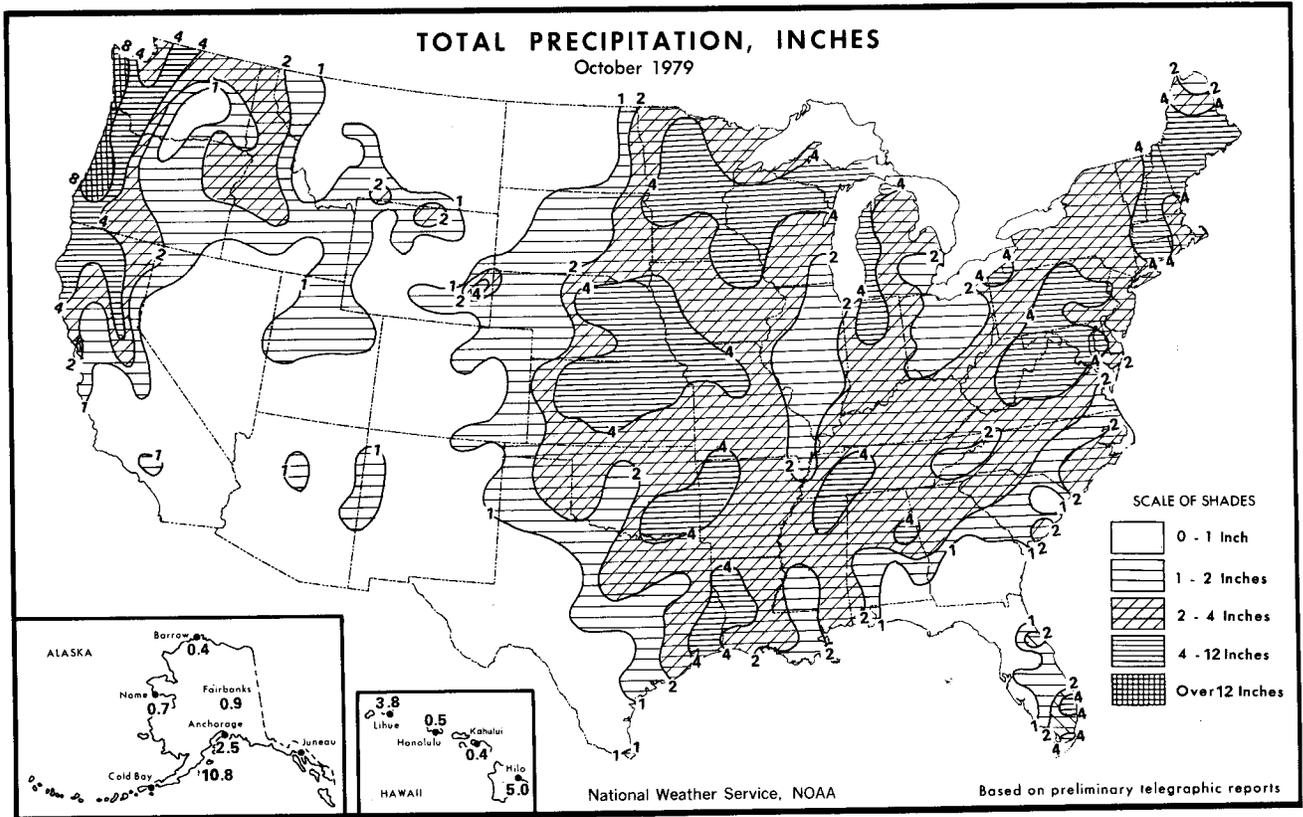
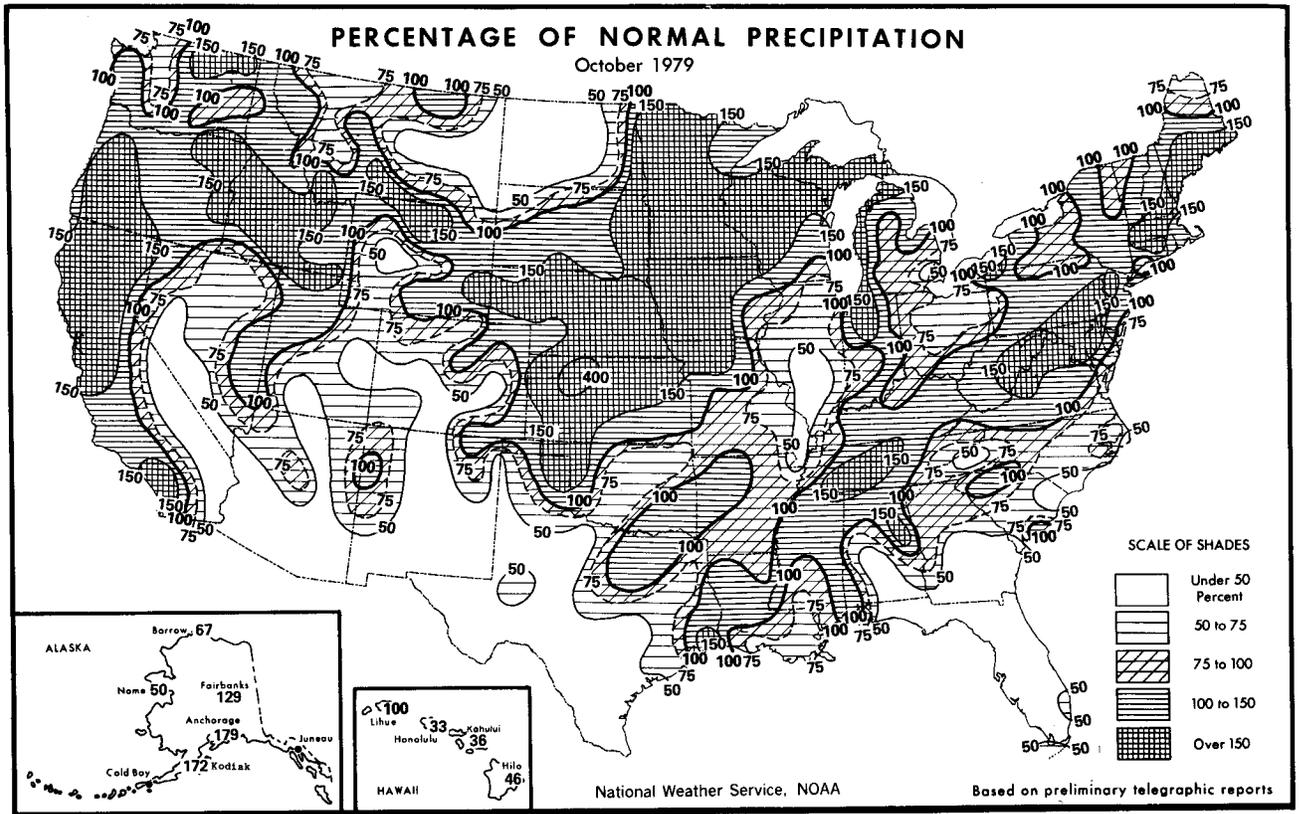
Rainfall was generally sparse over the Nation, for the week of October 8-14, except in West Virginia, Virginia, and Maryland. A freak snow-storm hit the western portion of this area and deposited as much as a foot of snow in some parts. Fully foliated trees toppled under the unusual weight. Temperatures warmed west of the Rockies and got colder in the East. The freeze line plunged as far south as Tennessee in the Mississippi River Valley. Average temperatures

for the week ranged from 9 to 12 degrees colder than normal in the upper Mississippi Valley.

Seasonal rains began in the West during the week of October 15-21. Heavy amounts accumulated in the coastal area of the Pacific Northwest, and lesser amounts fell through the entire West. Snow fell on the higher elevations. Elsewhere, moderate to heavy rain fell from north central Texas to the western Lakes area. The winter grain area in the central Plains got some much-needed rain, but the western portion needed more. Average temperatures for the week were near normal in most of the West but well above normal in the East.

Rain continued in the Northwest during the week of October 22-28. The coastal area from northern California through Washington recorded heavy amounts. The Southwest, most of the Rockies, and the western Plains had little or no precipitation. A series of low pressure centers deepened in the western Great Lakes area and moved northeastward. Lines of weather from the low centers southward brought rain to most of the East. Heavy snow blanketed northern Michigan. One to two inches of rain fell in Iowa, and severe weather--with several tornadoes--moved through the lower Mississippi Valley. Cold air moved into the East and plunged temperatures. Average temperatures for the week in parts of the Midwest were about 6 degrees colder than normal.

The last days of the month, October 29-31, brought some significant weather. A severe autumn storm formed in the southern Rockies and moved northeastward and eastward. Blizzard conditions ensued throughout the western Plains. Heavy snow and winds to 60 mph stressed livestock in the southwestern Plains. Heavy rain through the winter grain area brought soil moisture levels up. Cold weather moved in behind the storm and, some record cold temperatures were noted.



Temperature and Precipitation Data October 1979

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 . . .	64	+1	2.1	-.5	LA. Baton Rouge . . .	68	-1	2.5	-.2	Youngstown . . .	51	-2	1.6	-1.3
Moble . . .	68	-1	2.8	+.2	Lake Charles . . .	70	0	3.2	-.3	OKLA. Okla. City . . .	66	+4	1.6	-1.0
Montgomery . . .	65	-1	.6	-1.6	New Orleans . . .	71	+1	1.5	-.8	Tulsa . . .	66	+3	2.2	-1.0
ALASKA Anchorage . . .	41	+6	2.5	+1.1	Shreveport . . .	67	-1	4.0	+1.1	OREG. Astoria . . .	55	+2	8.5	+1.7
Barrow . . .	19	+4	.4	-.2	MAINE. Caribou . . .	45	+1	1.7	-1.6	Burns . . .	51	+4	1.0	+.1
Fairbanks . . .	33	+8	.9	+.2	Portland . . .	48	-1	6.7	+3.4	Medford . . .	59	+6	4.0	+1.9
Juneau . . .	58	-. . .	-. . .	-. . .	MD. Baltimore . . .	56	-1	5.5	+2.7	Pendleton . . .	54	+1	1.7	+.6
Kodiak . . .	46	+5	10.8	+4.5	MASS. Boston . . .	53	-2	3.1	+.1	Portland . . .	58	+4	4.9	+1.3
Nome . . .	35	+6	.7	-.7	Chatham . . .	52	-. . .	3.7	-. . .	Salem . . .	55	+2	6.1	+2.1
ARIZ. Flagstaff . . .	48	+1	1.3	-.1	MICH. Alpena . . .	45	-2	2.6	+.6	PA. Allentown . . .	53	-1	4.4	+1.7
Phoenix . . .	77	+5	.1	-.4	Detroit . . .	50	-3	1.2	-1.3	Erie . . .	54	+2	6.6	+3.4
Tucson . . .	73	+3	.3	-.4	Flint . . .	50	-1	1.9	-.3	Harrisburg . . .	52	-4	3.9	+1.3
Winslow . . .	58	+1	.3	-.4	Grand Rapids . . .	52	0	2.1	-.5	Philadelphia . . .	55	-2	3.8	+1.3
Yuma . . .	78	+2	0	-.3	Houghton Lake . . .	46	-2	2.4	-.2	Pittsburgh . . .	51	-2	2.5	0
ARK. Fort Smith . . .	64	+1	3.9	+.4	Lansing . . .	50	-2	2.0	-.3	Scranton . . .	52	-1	3.7	+.9
Little Rock . . .	65	+2	2.6	-.5	Marquette . . .	40	-5	7.6	+4.8	R.I. Providence . . .	53	-1	3.9	+.6
CALIF. Bakersfield . . .	71	+4	.3	0	Muskegon . . .	49	-3	4.7	+2.0	S.C. Charleston . . .	66	-0	3.9	+.8
Eureka . . .	57	+3	6.1	+2.9	S. Ste. Marie . . .	42	-4	6.4	+3.5	Columbia . . .	62	-3	1.8	+.8
Fresno . . .	68	+4	.5	+.1	MINN. Duluth . . .	43	-2	3.0	+.7	Greenville . . .	59	-3	3.3	+.1
Los Angeles . . .	86	+1	.3	+.1	Internat Falls . . .	37	-7	3.9	+2.2	S.D. Aberdeen . . .	46	-2	1.2	0
Red Bluff . . .	86	+1	2.8	+1.6	Minneapolis . . .	47	-3	3.2	+1.4	Huron . . .	46	-4	2.0	+.5
San Diego . . .	89	+3	.7	+.4	Rochester . . .	47	-3	5.0	+3.2	Rapid City . . .	51	+1	.9	0
San Francisco . . .	63	+2	2.2	+1.2	St. Cloud . . .	45	-3	4.4	+2.7	Sioux Falls . . .	48	-2	3.3	+1.8
Stockton . . .	66	+2	1.3	+.2	MISS. Jackson . . .	64	-2	1.8	-.4	TENN. Chattanooga . . .	60	-1	2.5	-.5
COLO. Denver . . .	54	+2	1.3	+.2	Meridian . . .	64	-1	3.2	+1.0	Knoxville . . .	58	-3	2.0	-.7
Grand Junction . . .	59	+4	.3	-.6	MO. Columbia . . .	58	0	4.4	+1.0	Memphis . . .	66	+3	2.6	0
Pueblo . . .	55	0	.4	-.6	Kansas City . . .	58	0	3.6	+.4	Nashville . . .	60	-1	4.0	+1.8
CONN. Bridgeport . . .	53	-4	2.7	-.1	St. Louis . . .	59	0	1.8	-1.0	TEX. Abilene . . .	72	+6	.5	-2.1
Hartford . . .	51	-2	4.8	+1.8	Springfield . . .	61	+2	3.3	-.1	Amarillo . . .	60	0	1.3	-.5
D.C. Washington . . .	59	-1	5.5	+2.8	MONT. Billings . . .	53	+4	.7	-.2	Austin . . .	74	+4	.5	-2.5
FLA. Apalachicola . . .	69	-2	.4	-2.5	Glasgow . . .	49	+3	.6	0	Beaumont . . .	71	+1	6.6	+2.9
Daytona Beach . . .	73	0	2.1	-3.4	Great Falls . . .	50	+2	.7	0	Brownsville . . .	77	+1	1.1	-2.2
Ft. Myers . . .	79	+3	.4	-4.0	Havre . . .	49	+2	.6	-.1	Corpus Christi . . .	75	+1	1.4	-2.4
Jacksonville . . .	69	-2	.3	-4.2	Helena . . .	48	+3	.4	-.2	Del Rio . . .	75	+4	0	-2.1
Key West . . .	81	+1	3.1	-2.5	Kalispell . . .	46	+3	1.5	+.3	El Paso . . .	66	+2	T	+.8
Lakeland . . .	78	0	3.6	-4.6	Miles City . . .	51	+2	.3	-.4	Fort Worth . . .	71	+3	3.4	+.7
Miami . . .	74	0	.4	-3.7	Missoula . . .	48	+4	1.0	+.1	Galveston . . .	73	0	2.8	0
Orlando . . .	66	-3	.4	-2.5	NEBR. Grand Island . . .	53	-1	3.0	+1.9	Houston . . .	71	0	2.8	-1.3
Tallahassee . . .	85	-0	.2	-2.3	Lincoln . . .	55	0	5.3	+3.8	Lubbock . . .	64	+3	.6	-1.5
Tampa . . .	75	0	.2	-2.3	Norfolk . . .	51	-2	4.3	+3.0	Midland . . .	68	+2	1.0	-.4
W. Palm Beach . . .	78	+1	4.8	-4.0	N. Platte . . .	54	+3	1.3	+.3	San Angelo . . .	70	+3	.9	-1.0
GA. Atlanta . . .	62	0	2.2	-.3	Omaha . . .	53	-1	4.5	+2.7	San Antonio . . .	75	+4	.1	-2.7
Augusta . . .	62	-2	1.5	-.7	Valentine . . .	49	-1	1.6	+.7	Victoria . . .	73	+1	1.7	-1.9
Macon . . .	65	-1	.4	-1.9	NEV. Ely . . .	50	+4	.8	+.2	Waco . . .	70	+1	1.9	-.7
Savannah . . .	68	+1	.7	-2.1	Las Vegas . . .	71	+4	0	-.2	Wichita Falls . . .	67	+1	1.2	-1.5
HAWAII. Hilo . . .	76	+1	5.0	-6.0	Reno . . .	54	+4	.3	-.1	UTAH. Blanding . . .	55	+3	.8	-.6
Honolulu . . .	81	+2	.5	-1.0	Winnemucca . . .	53	+5	.6	-.1	Salt Lake City . . .	57	+5	1.3	+.1
Kahului . . .	81	+4	.4	-.7	N.H. Concord . . .	47	-2	3.8	+1.1	VT. Burlington . . .	48	-1	2.3	-.4
Lihue . . .	79	+2	3.8	0	N.J. Atlantic City . . .	54	-3	2.2	-1.3	VA. Lynchburg . . .	55	-3	3.8	+1.2
IDAHO. Boise . . .	54	+2	1.5	+.7	Trenton . . .	55	-2	3.7	+1.2	Norfolk . . .	60	-2	1.7	-1.4
Lewiston . . .	56	+4	1.6	+.5	N.MEX. Albuquerque . . .	62	+4	.3	-1.5	Richmond . . .	58	-1	3.9	+1.0
Pocatello . . .	51	+3	.8	0	Roswell . . .	64	+4	.2	-1.0	Roanoke . . .	55	-3	3.6	+.4
ILL. Cairo . . .	63	+1	1.7	-1.0	N.Y. Albany . . .	50	-1	3.4	+.8	WASH. Colville . . .	50	+4	2.2	+.8
Chicago . . .	54	-1	1.8	-.8	Binghamton . . .	48	-2	2.5	-.5	Omak . . .	52	+5	2.7	+1.8
Moline . . .	52	-2	2.5	-.2	Buffalo . . .	51	-1	3.9	+.9	Quillayute . . .	53	+2	8.9	-2.7
Peoria . . .	53	-2	1.7	-.8	New York . . .	56	-2	3.8	+.8	Seattle-Tacoma . . .	54	+2	3.4	-.5
Rockford . . .	51	-2	1.6	-1.3	Rochester . . .	50	-2	2.6	0	Spokane . . .	51	+3	1.2	-.2
Springfield . . .	56	-1	1.3	-1.8	Syracuse . . .	51	-2	2.9	-.2	Walla Walla . . .	58	+4	2.7	+1.2
IND. Evansville . . .	57	-1	2.7	+.2	N.C. Asheville . . .	55	-2	1.4	-1.9	Yakima . . .	53	+3	.7	+.1
Ft. Wayne . . .	51	-3	2.2	-.6	Charlotte . . .	59	-3	3.0	+.3	W.VA. Beckley . . .	51	-2	2.6	+.1
Indianapolis . . .	53	-3	2.3	-.2	Greensboro . . .	58	-1	2.6	-.3	Charleston . . .	55	-2	3.7	+1.2
South Bend . . .	54	+1	4.8	+1.7	Hatteras . . .	63	-2	2.0	-2.8	Huntington . . .	55	-2	2.7	+.6
IOWA. Burlington . . .	54	-1	2.2	-.8	Raleigh . . .	60	0	1.9	-.9	Parkersburg . . .	54	-3	3.0	+.9
Des Moines . . .	54	0	3.2	+1.1	Wilmington . . .	63	-2	.4	-2.9	WISC. Green Bay . . .	50	+1	2.7	+.8
Dubuque . . .	51	-1	2.8	0	N.DAK. Bismarck . . .	45	-2	.1	-.7	La Crosse . . .	48	-4	4.3	+2.2
Sioux City . . .	50	+3	5.3	+3.7	Fargo . . .	43	-4	2.6	+1.5	Madison . . .	48	-2	3.1	+.9
KANS. Concordia . . .	58	+1	4.8	+3.0	Williston . . .	47	+1	.2	-.4	Milwaukee . . .	51	0	1.8	-.2
Dodge City . . .	58	0	3.3	+1.6	OHIO. Akron-Canton . . .	51	-2	1.5	-.9	WYO. Casper . . .	48	0	.5	-.4
Goodland . . .	54	+1	2.0	+1.0	Cincinnati . . .	54	-3	1.8	-.4	Cheyenne . . .	50	+2	.5	-.5
Topeka . . .	57	-1	4.2	+1.5	Cleveland . . .	52	-2	1.8	-.8	Lander . . .	50	+3	.5	-.7
Wichita . . .	62	+2	3.0	+.5	Columbus . . .	53	-1	1.3	-.6	Sheridan . . .	49	+1	2.3	+1.3
KY. Lexington . . .	56	-2	3.0	+.9	Dayton . . .	53	-3	2.0	+.1	P.R. San Juan . . .	83	+2	1.1	-4.5
Louisville . . .	58	0	2.3	-.1	Toledo . . .	51	-2	2.0	-.2					

Based on 1941-70 normals

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 4, 1979.

STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +			STATES AND STATIONS	WEEKLY		SEASONAL ACCUMULATION +		
	TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79		TOTAL	DEPARTURE*	TOTAL	DEPARTURE*	DEPARTURE FROM 1978-79
ALA. BIRMINGHAM...	44	17	145	35	23	MAINE CARIBOU...	161	28	1155	145	233	YOUNGSTOWN...	122	8	741	128	108
MOBILE...	24	9	67	11	47	PORTLAND...	142	5	969	108	74	OKLA. OKLAHOMA CITY...	93	23	158	158	61
MONTGOMERY...	27	18	99	21	21	MD BALTIMORE...	92	1	389	57	31	TULSA...	8	8	150	44	21
ARIZ FLAGSTAFF...	222	54	1044	12	156	MASS BOSTON...	110	9	544	100	72	OREG ASTORIA...	98	12	625	332	207
PHOENIX...	153	23	433	4	11	MICH ALPENA...	165	1	1034	63	72	BURNS...	102	14	764	226	285
TUCSON...	153	23	433	4	11	DETROIT...	146	20	744	167	146	MEDFORD...	112	9	276	276	232
WINSLON...	153	23	433	4	11	FLINT...	146	20	744	167	146	PENDLETON...	112	9	276	276	198
YUMA...	153	23	433	4	11	GRAND RAPIDS...	146	20	744	167	146	PORTLAND...	112	9	276	276	272
ARK FORT SMITH...	77	13	195	21	51	HOUGHTON LAKE...	146	20	744	167	146	SALEM...	112	9	276	276	87
LITTLE ROCK...	61	5	138	50	20	LANSING...	146	20	744	167	146	PA ALLENTOWN...	120	3	559	559	223
CALIF BAKERSFIELD...	24	10	78	41	36	LANSING...	146	20	744	167	146	ERIE...	100	34	568	134	124
FRESNO...	24	10	78	41	36	LANSING...	146	20	744	167	146	HARRISBURG...	100	34	568	134	124
LOS ANGELES...	24	10	78	41	36	LANSING...	146	20	744	167	146	PHILADELPHIA...	100	34	568	134	124
RED BLUFF...	24	10	78	41	36	LANSING...	146	20	744	167	146	PITTSBURGH...	100	34	568	134	124
SAN DIEGO...	24	10	78	41	36	LANSING...	146	20	744	167	146	SCRANTON...	100	34	568	134	124
SAN FRANCISCO...	24	10	78	41	36	LANSING...	146	20	744	167	146	R.I. PROVIDENCE...	110	4	562	42	117
STOCKTON...	24	10	78	41	36	LANSING...	146	20	744	167	146	S.C. CHARLESTON...	119	19	89	89	19
COLO DENVER...	197	57	525	86	137	MINN DULUTH...	182	14	1212	4	98	COLUMBIA...	58	23	169	169	55
GRAND JUNCTION...	197	57	525	86	137	INTERNAT FALLS...	182	14	1212	4	98	GREENVILLE...	58	23	169	169	66
PUEBLO...	197	57	525	86	137	MINN MINNEAPOLIS...	182	14	1212	4	98	SDAK ABERDEEN...	210	28	855	18	70
CONN BRIDGEPORT...	11	22	535	177	101	MINN ROCHESTER...	182	14	1212	4	98	HURON...	198	28	851	18	89
HARTFORD...	134	9	711	136	94	MINN ST. CLOUD...	182	14	1212	4	98	RAPID CITY...	197	37	764	166	222
DEL WILMINGTON...	95	1	386	43	72	MISS JACKSON...	71	12	1017	86	141	SIoux FALLS...	171	7	630	9	48
D.C. WASHINGTON...	65	13	277	26	46	MONT MERIDIAN...	45	6	138	4	18	TENN CHATTANOOGA...	53	24	214	23	2
FLA PALM BEACH...	10	14	20	11	11	MO COLUMBIA...	10	5	387	38	78	KNOXVILLE...	58	17	277	17	37
DAYTONA BEACH...	10	14	20	11	11	KANSAS CITY...	10	5	387	38	78	MEMPHIS...	48	14	119	6	19
FORT MYERS...	10	14	20	11	11	ST LOUIS...	10	5	387	38	78	NASHVILLE...	63	14	215	9	19
JACKSONVILLE...	10	14	20	11	11	SPRINGFIELD...	10	5	387	38	78	TEXAS ABILENE...	67	20	93	25	32
KEY WEST...	10	14	20	11	11	GLASGOW...	10	5	387	38	78	AMARILLO...	146	57	305	23	52
LAKELAND...	10	14	20	11	11	GREAT FALLS...	10	5	387	38	78	AUSTIN...	111	11	44	11	39
MIAAMI...	10	14	20	11	11	HELENA...	10	5	387	38	78	BEAUMONT...	33	5	51	4	47
ORLANDO...	10	14	20	11	11	KALISPELL...	10	5	387	38	78	BROWNSVILLE...	33	5	51	4	47
TALLAHASSEE...	10	14	20	11	11	MILES CITY...	10	5	387	38	78	CORPUS CHRISTI...	33	5	51	4	47
TAMPA...	10	14	20	11	11	MISSOULA...	10	5	387	38	78	DEL RIO...	33	5	51	4	47
WEST PALM BEACH...	10	14	20	11	11	NEBR GRAND ISLAND...	165	29	536	15	30	FORT WORTH...	58	18	134	78	5
GA ATLANTA...	45	16	169	13	46	LINCOLN...	12	21	428	61	69	GALVESTON...	10	5	38	23	23
AUGUSTA...	22	22	185	13	46	NORFOLK...	12	21	428	61	69	HOUSTON...	10	5	38	23	23
Macon...	22	22	185	13	46	NORTH PLATTE...	12	21	428	61	69	LUBBOCK...	10	5	38	23	23
SAVANNAH...	22	22	185	13	46	OMAHA...	12	21	428	61	69	HIDALGO...	10	5	38	23	23
IDAHO BOISE...	158	20	442	185	209	VALENTINE...	12	21	428	61	69	SAN ANGELO...	10	5	38	23	23
LEWISTON...	158	20	442	185	209	NEV ELY...	21	33	802	24	259	SAN ANTONIO...	10	5	38	23	23
POCATELLO...	158	20	442	185	209	LAS VEGAS...	17	30	520	27	324	VICTORIA...	10	5	38	23	23
ILL CAIRO...	67	7	227	14	24	RENO...	17	30	520	27	324	MACO...	81	30	115	19	66
CHICAGO...	11	4	537	84	24	WINNEBUCCA...	17	30	520	27	324	NICHITA FALLS...	81	30	115	19	35
MOLINE...	11	4	537	84	24	N.H. CONCORD...	158	11	927	111	81	UTAH SALT LAKE CITY...	168	30	372	222	114
PEORIA...	11	4	537	84	24	N.J. ATLANTIC CITY...	106	10	500	146	46	VT BURLINGTON...	173	20	944	92	94
ROCKFORD...	11	4	537	84	24	TRENTON...	96	4	430	59	51	VA LYNCHBURG...	70	19	416	96	65
SPRINGFIELD...	11	4	537	84	24	N.MEX ALBUQUERQUE...	31	31	241	44	11	NORFOLK...	46	15	222	33	12
IND EVANSVILLE...	97	1	392	64	32	ROSMELL...	19	17	205	59	59	RICHMOND...	58	19	222	33	12
FORT WAYNE...	139	11	673	132	133	N.Y. ALBANY...	14	15	767	94	131	ROANOKE...	89	2	450	129	46
INDIANAPOLIS...	117	4	584	144	137	BINGHAMTON...	106	17	324	15	15	WASH GUILLYAYUTE...	121	6	870	282	202
SOUTH BEND...	117	4	584	144	137	BUFFALO...	106	17	324	15	15	SEATTLE-TACOMA...	110	10	533	267	124
IOWA BURLINGTON...	137	14	599	128	126	NEW YORK...	106	17	324	15	15	SPOKANE...	107	9	479	240	398
DES MOINES...	136	9	507	11	102	ROCHESTER...	106	17	324	15	15	HALLA HALLA...	136	14	543	169	166
DUBUQUE...	136	13	693	76	102	SYRACUSE...	106	17	324	15	15	YAKIMA...	152	1	325	212	261
SIoux CITY...	136	16	663	76	102	N.C. ASHEVILLE...	77	21	401	24	60	W.VA BECKLEY...	110	15	714	114	173
KANSAS CONCORDIA...	129	16	357	59	12	CHARLOTTE...	77	21	401	24	60	CHARLESTON...	84	4	472	100	62
DODGE CITY...	148	41	360	78	78	GREENSBORO...	77	21	401	24	60	HUNTINGTON...	73	3	359	52	107
GOODLAND...	148	41	360	78	78	HATTERAS...	77	21	401	24	60	PARKERSBURG...	71	7	359	52	107
TOPEKA...	148	41	360	78	78	RALEIGH...	77	21	401	24	60	WIS GREEN BAY...	158	5	917	64	93
NICHITA...	148	41	360	78	78	WILMINGTON...	77	21	401	24	60	LACROSSE...	131	1	748	101	151
KY LEXINGTON...	89	12	435	59	32	N.DAK BISHARCK...	227	37	1034	52	108	HADISON...	150	1	879	661	101
LOUISVILLE...	80	17	329	5	5	FARGO...	227	34	1020	70	130	HILLAUKEE...	150	1	879	661	32
LA BATON ROUGE...	27	3	65	7	33	HILLISTON...	227	34	1020	70	130	WYO CASPER...	246	73	809	88	60
LAKE CHARLES...	33	3	59	7	33	OHIO AKRON-CANTON...	122	4	712	146	146	CHEYENNE...	233	7	744	144	144
NEW ORLEANS...	11	1	31	8	8	CINCINNATI...	99	1	523	146	146	LANDER...	233	7	744	144	144
SHREVEPORT...	51	12	93	1	36	CLEVELAND...	99	1	523	146	146	SHERIDAN...	233	7	744	144	144

BASED ON 1941-70 NORMALS.

+ ACCUMULATION FROM JULY 1, 1979.



FIRST CLASS MAIL

COM 210

Heating Degree Days (Base 65° F.)
 October 1979

ALA. Birmingham	77	MAINE, Caribou	612	OKLA. Okla. City	82
Mobile	43	Portland	539	Tulsa	80
Montgomery	76	MD. Baltimore	311	OREG. Astoria	305
ALASKA, Anchorage	733	MASS. Boston	390	Burns U.	434
Barrow	--	Chatham	385	Medford	203
Fairbanks	--	MICH. Alpena	631	Pendleton	325
Juneau	--	Detroit	471	Portland	214
Nome	935	Flint	476	Salem	353
ARIZ. Flagstaff	326	Grand Lake	431	PA. Allentown	386
Phoenix	11	Houghton Lake	602	Erie	378
Tucson	26	Lansing	491	Harrisburg	393
Winslow	228	Marquette U.	785	Philadelphia	324
Yuma	2	S. Ste. Marie	696	Pittsburgh	438
ARK. Fort Smith	123	MINN. Duluth	674	Scranton	420
Little Rock	98	Internat'l Falls	862	R.I. Providence	380
CALIF. Bakersfield	22	Winneapolis	566	S.C. Charleston	68
Eureka U.	230	Rochester	547	Columbia	138
Fresno	56	St. Cloud	623	Greenville	133
Los Angeles U.	18	MISE. Jackson	98	S. DAK. Aberdeen	585
Red Bluff	89	Meridian	93	Huron	574
Stockton	60	Vicksburg U.	--	Rapid City	433
San Diego	4	MO. Columbia	301	Stoux Falls	512
San Francisco	85	St. Louis	247	TENN. Chattanooga	167
COLO. Denver	425	St. Louis	214	Knoxville	220
Grand Junction	209	Springfield	184	Memphis	180
Pueblo	231	MONT. Billings	383	Nashville	186
CONN. Bridgeport	360	Glasgow	489	TEX. Abilene	43
Hartford	442	Great Falls	475	Amarillo	16
D.C. Washington	221	Havre	395	Austin	23
FLA. Apalachicola	10	Helena	528	Beaumont	0
Ft. Myers	0	Kalispell	595	Brownsville	6
Jacksonville	19	Miles City	436	Corpus Christi	--
Key West	0	Missoula	517	Dallas	76
Daytona Beach	0	NEBR. Grand Island	366	Del Rio	10
Miami	0	Lincoln	324	El Paso	34
Orlando	0	Norfolk	430	Fort Worth	3
W. Palm Beach	0	North Platte	341	Galveston U.	7
Tallahassee	54	Omaha	354	Houston	108
Tampa	0	Valentine	479	Lubbock	63
GA. Atlanta	122	NEV. Ely	464	Midland	54
Augusta	125	Las Vegas	44	San Angelo	16
Macon	78	Reno	339	San Antonio	20
Savannah	41	Wiconmucca	363	Victoria	43
IDAHO, Boise	326	N. H. Concord	546	Waco	57
Lewiston	281	N. J. Atlantic City	341	Wichita Falls	361
Pocatello	422	Trenton U.	328	UTAH, Hillford	270
ILL. Cairo U.	125	N. MEX. Albuquerque	148	Salt Lake City	528
Chicago	367	Roswell	115	VT. Burlington	350
Moline	415	N. Y. Albany	468	VA. Lynchburg	190
Peoria	401	Binghamton	522	Norfolk	242
Rockford	450	Buffalo	455	Richmond	329
Springfield	323	New York	235	WASH. Colville	476
IND. Evansville	282	Rochester	468	Omak	--
Fort Wayne	440	Syracuse	454	Quillayute	327
Indianapolis	384	N. C. Asheville	289	Seattle-Tacoma	423
South Bend	353	Charlotte	197	Spokane	223
IOWA, Burlington	360	Greensboro	239	W. VA. Beckley	448
Des Moines	339	Hatteras R.	112	Charleston	312
Dubuque	449	Raleigh	196	Huntington	346
Sioux City	456	Wilmington	110	Partersburg U.	590
KANS. Concordia	233	N. DAK. Bismarck	626	WIS. Green Bay	546
Dodge City	237	Fargo	689	Madison	436
Goodland	327	Williston U.	560	Milwaukee	523
Topeka	267	OHIO, Akron-Canton	444	Cheyenne	468
Wichita	156	Cincinnati U.	346	Lander	463
KY. Lexington	307	Cleveland	403	Sheridan	497
Louisville	244	Columbus	376		
LA. Baton Rouge	44	Dayton	397		
Lake Charles	25	Toledo	490		
New Orleans	13	Youngstown	445		
Shreveport	52				

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

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