

WEEKLY WEATHER AND CROP BULLETIN

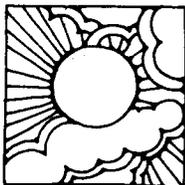
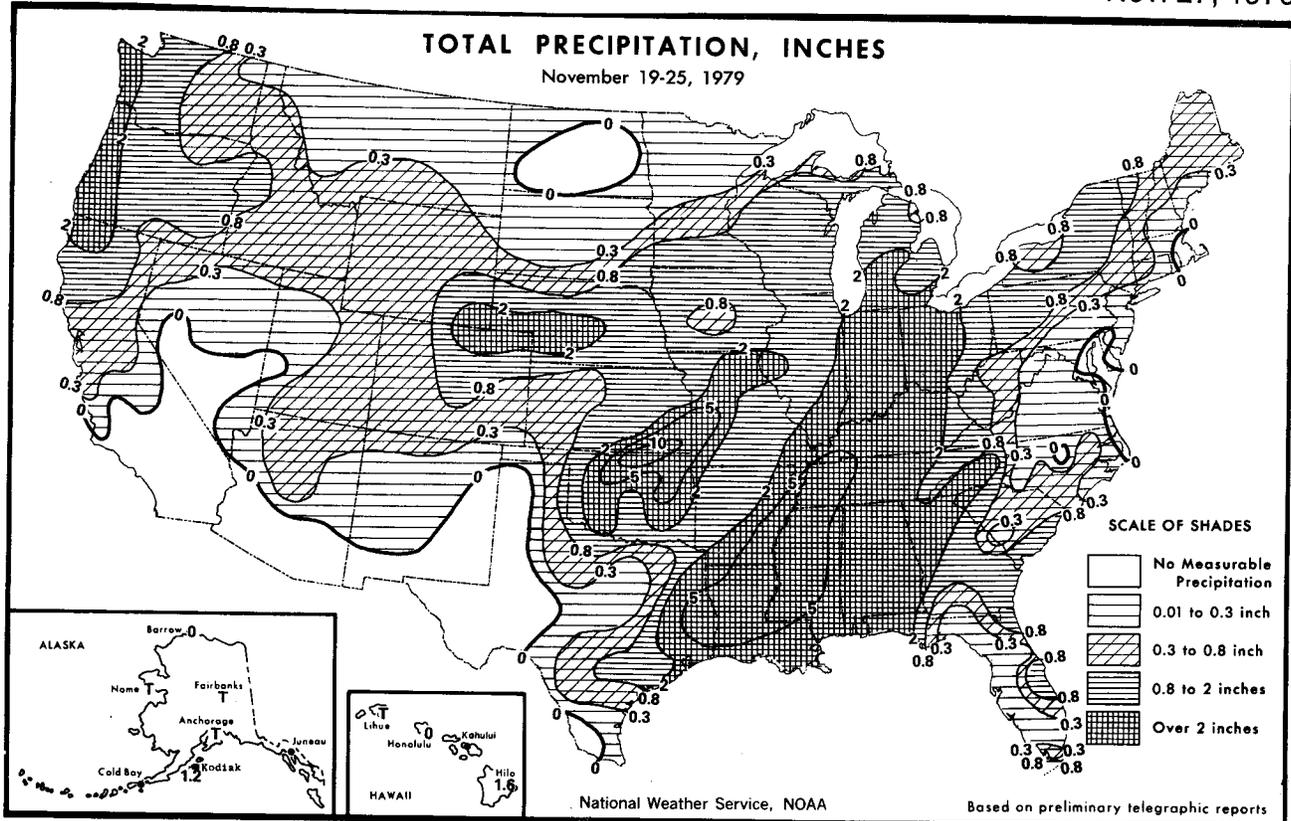
U.S. DEPARTMENT OF COMMERCE
National Weather Service, NOAA

U.S. DEPARTMENT OF AGRICULTURE
Economics, Statistics, and Cooperatives Service

Volume 66, No. 48

Washington, D.C.

Nov. 27, 1979



National Weather Summary

November 19 - 25

HIGHLIGHTS: Early in the week, a weather system formed in southern Colorado producing blizzard conditions over the Wyoming/Colorado border area and as far east as the western Great Lakes region.

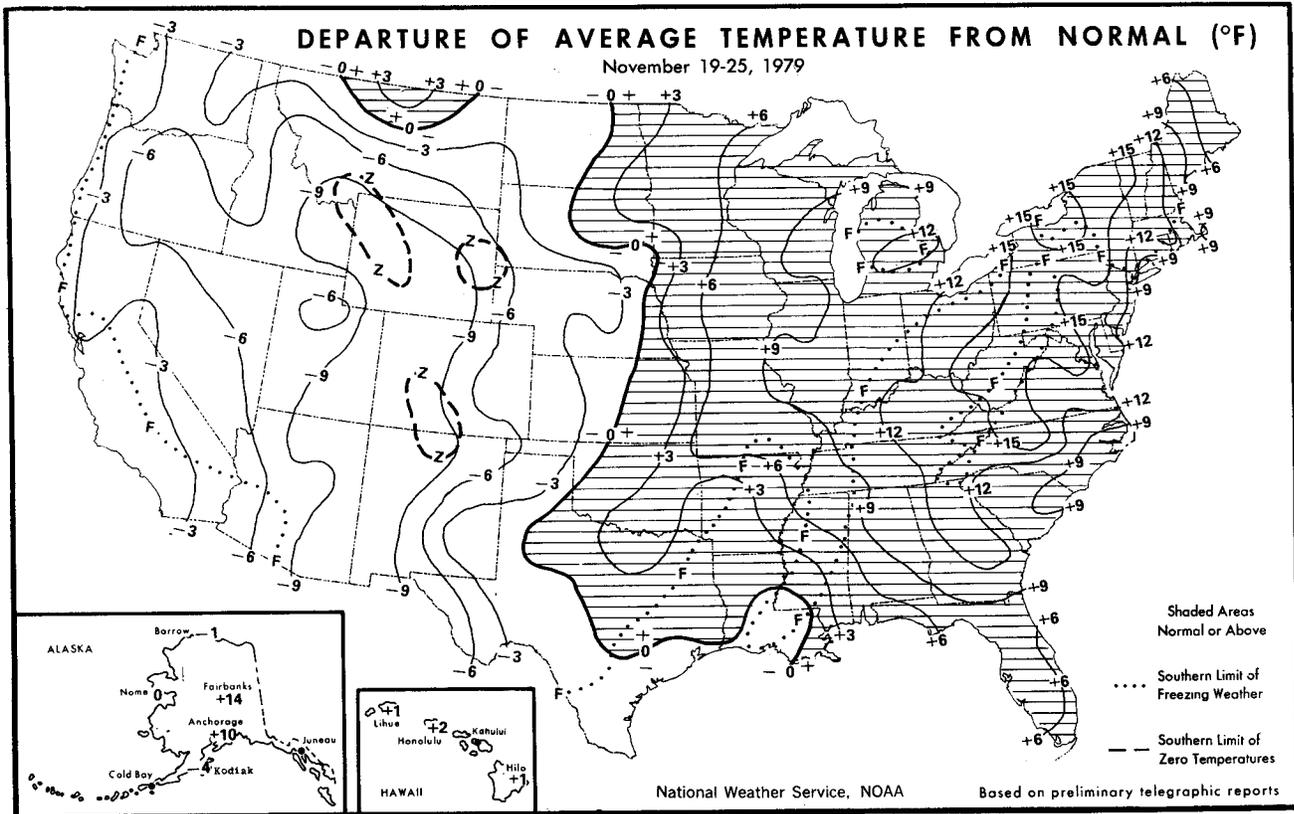
Another storm system intensified in the Southwest at midweek and headed east-northeastward; warm, moist air from the Gulf of Mexico joined the system. Parts of Kansas and Oklahoma absorbed up to 10 inches of rain, while sections of the Mississippi Valley accumulated 5 to 7 inches. A storm brought moderate rains to the coastal Pacific Northwest; snow extended to the northern Plateau Region.

A cold airmass enveloped the western United States. Much warmer air dominated the East; the unseasonably high readings averaged as much as 18 degrees above normal.

On Monday, cold air and snow covered much of the Plateau Region and edged into the Rockies; snow became intense in the Utah mountains where nearly 2 feet blanketed some sections. A low pressure system gathered strength in Arizona and moved northeastward reaching Colorado by day's end.

Unseasonable warmth spanned much of the Nation from the Midwest to the Atlantic Coast. Minneapolis noted its warmest minimum temperature for the day of 54°. Asheville, western North Carolina, hit a record high 71°, toppling the old mark by 4 degrees.

Blizzard conditions in the midlands with heavy rains in the southern Plains highlighted Tuesday's weather. From 1 to 2 feet of snow covered sections of Colorado and Wyoming. Meantime, 6 to 12 inches of rain drenched parts of southeastern Kansas and northern Oklahoma.



Warm air continued to push the mercury to record levels over a large portion of the country. New marks included 73° at Asheville, N.C., 75° at Huntsville, northern Alabama, Memphis's 78°, and a record-equaling 83° at Del Rio, southwestern Texas.

The blizzard persisted in Wyoming and Colorado and reached the northern half of the Plains on Wednesday.

Cheyenne, Wyo., weathered its heaviest single-day snowfall of 19.8 inches; it has also been the snowiest November on record there with 33 inches. Denver and southwestern Nebraska measured a foot and one-half of snow.

Rain stretched from the Mississippi Valley and Delta Region to the Tennessee and Ohio Valleys. More than an inch of rain soaked Waterloo, northeastern Iowa, Shreveport, northwestern Louisiana, and Memphis.

Warm readings persisted in the eastern half of the country; Beckley, southern West Virginia, notched 68°, up 10 degrees from the former mark. Meridian, east central Mississippi, tallied a record-tying 79°.

On Thursday, the snowstorm drifted into the upper Mississippi Valley losing much of its strength but not before dumping a 1- to 4-inch mantle on parts of Iowa and Minnesota.

Meantime, another storm formed in the Northwest triggering rain along the coast and snow inland. While Brookings, southwestern Oregon, and Crescent City, northern California, received nearly an inch of rain, a half-foot of snow was falling in Omak, north central Washington.

Heavy rain fell from the Delta Region through the Tennessee Valley. Three inches of rain soaked Lake Charles, southwestern Louisiana, and Jackson, Miss.

Record low temperatures included 11° at Grand Junction, western Colorado, and 20° at El Paso, West Texas. Record high readings showed 70° at Beckley, W. Va., and 73° at Raleigh, N.C. Record-equaling marks warmed Greensboro, north central North Carolina, 74°, and Chattanooga and Washington, D.C., both 75°.

The Pacific cold front moved eastward spreading snow from Washington through Utah and as far south as New Mexico.

Heavy rains persisted in the South. About 1.5 inches of rain doused Meridian, Miss., and an inch dampened Crossville, central Tennessee.

Cold readings extended from the middle eastern slopes of the Rockies to Texas. New marks included -15° at Alamosa, southern Colorado, and 27° at Del Rio, Texas.

The unseasonably warm temperatures continued in the East from Georgia to Rhode Island. A sampling of records revealed Atlanta's 76°, 74° at Greensboro, N.C., Washington's 75°, Pittsburgh's 74°, and a record-tying 72° at Providence.

Snow fell over sections of the Pacific Northwest and from the northern half of the Rockies to the Nebraska Panhandle on Saturday. One-half to 1 inch of rain fell in the South.

Temperatures ranged colder than normal from the Plains westward; Alamosa, Colo., at -16°, chalked up another new mark.

The East's warm air continued to set records-- among them were 76° at Richmond, Va., Baltimore's 73°, Philadelphia's 71°, and 73° at Providence.

On Sunday, light rain fell along the upper West Coast, but snow whitened an area from eastern Washington through the northern Rockies.

(continued on page 11)



National Agricultural Summary

November 19 - 25

HIGHLIGHTS: Heavy rains and snow throughout the central States delayed harvests and plowing. In northern areas, many farmers waited for soils to freeze to support harvesting equipment. High moisture content in grain throughout the northern Corn Belt continued to delay progress because of limited dryer capacity. Snow may curtail final harvests until spring in some parts of northern row crop areas. Soil moisture rated adequate to surplus except short in some parts of Illinois, the Southeast, and the West. Farmers had 3 to 4 days available for fieldwork throughout the Nation's midsection, but elsewhere, up to 6 days were suitable. Fall plowing was about 50% complete in the Corn Belt, generally lagging last year but slightly ahead of average; the recent rains and snow may slow additional land preparation. Corn harvest advanced to 89%, compared with the 98% last year and the 94% average. Soybean combining reached 95%, lagging last year by 2 points but ahead of the average by 4 points. Cotton harvest reached 66%, surpassing last year's 57% and the 60% average. Grain sorghum harvest stood at 94%, equaling the average but 2 points less than last year. Pastures continued their seasonal decline but rated fair to good. Ranchers turned cattle onto small grain stands in many areas, although grazing was limited to irrigated fields in the southern Plains. LP gas scored 2% deficient, 10% tight, 87% adequate, and 1% surplus; most of this demand centered on drying the high moisture-content corn crop. Diesel fuel rated 12% tight and 87% adequate. Gasoline stood at 11% tight and 88% adequate. Both diesel fuel and gasoline supplies improved from the previous week.

SMALL GRAINS: Winter wheat seedings were virtually complete in all areas. Most of the crop was emerged and appeared to be in fair to good condition except on the southern Plains where soil moisture continued to be a limiting factor. Kansas planting stood at 98%, compared with 100% last year and the 99% average. Oklahoma rains generally improved growth; however, heavy downpours damaged stands in some local areas. About 80% of the Oklahoma crop was emerged compared with the 95% for last year and average. In Texas, 79% of the crop was emerged. The crop ranged from poor to good depending on the availability of soil moisture which was short from the Low Plains southward. The Montana crop rated fair; wind damage was light. Light rainfall helped many stands throughout the Mountain States. Winter wheat rated good in the Corn Belt; virtually all the crop was emerged.

CORN: Corn harvest advanced to 89%, lagging last year by 9 points and the average by 4 points. Wet soils and high moisture content in the grain continued to delay farmers throughout the extreme northern Corn Belt. Dryer capacity was in short supply. Recent snows in some areas may have delayed harvest until spring. Farmers waited for soils to freeze before harvesting additional acreage in open areas where snow was not a problem. In the eastern Corn Belt, harvest reached 91%, lagging last year's 98% but ahead of the 92% average. Wisconsin and Michigan continued to lag most compared to other States. In the western Corn Belt, harvest reached 87%, 12 points less than last year and 8 points less than average. Minnesota lagged most in this region at 75% complete, compared with 99% last year and average.

SOYBEANS: Soybean combining advanced to 95% complete, falling between last year's 97% and the 91% average. Harvest was virtually complete throughout the north central States with minor acreage remaining in Ohio, Minnesota, and Kansas. Throughout the Delta, harvest stood at 93%, lagging last year's 96% but surpassing the 86% average. Heavy rains tended to curtail activity, particularly in Alabama. The Southeast soybean harvest scored 65%, short of last year's 79% and the 67% average.

COTTON: Cotton picking advanced to 66%, surpassing last year's 57% and the 60% average. Picking in all States was very close to recent years, except in Tennessee. The California harvest moved 30 points ahead of last year at 90%; growers shredded stalks and disced fields. The Texas cotton harvest was well underway on the High Plains; defoliation continued, and producers increased stripping activity. Arkansas growers began discing cotton stalks. Most southeastern growers enjoyed almost ideal picking conditions.

OTHER CROPS: Grain sorghum harvest advanced to 94%, 2 points less than last year but equal to the average.

Sunflower combining resumed throughout the northern Plains. Harvest ranged from 96 to 99% complete. Farmers needed artificial drying capacity prior to storing the crop.

FRUITS & NUTS: Deciduous fruit harvests were virtually complete. Growers began moving fruit out of storage facilities. Growers began pruning orchards.

The pecan harvest continued throughout the South and ranged from 45% complete in Alabama to 58% in Georgia, 69% in Mississippi, and 71% in Louisiana. The crop generally rated fair.

Widespread showers aided citrus in Florida, where soils had become quite dry. Harvest slowed for Thanksgiving but should increase rapidly after the holiday. Texas citrus harvests continued to increase; quantity and quality varied, and dry weather slowed sizing. Arizona growers harvested lemons, oranges, tangerines, and grapefruit. California growers harvested grapefruit, lemons, and an increasing volume of Navels showing good color and size.

VEGETABLES: Florida vegetable shipments increased only 2% from the previous week because of the reduced volume due to Thanksgiving. Shipments of carrots, chinese cabbage, peppers, and tomatoes increased; other vegetable shipments held steady or declined. Planting, irrigation, and spraying was active for most crops. Arizona lettuce harvest continued active, although low temperatures ended production of warm weather crops. Various vegetable harvests moved briskly throughout all areas of Texas. California growers harvested broccoli, cauliflower, celery, and lettuce. Snow halted the processing-onion harvest in northern California.

PASTURES AND LIVESTOCK: Pastures generally rated fair to good, declining seasonally, although above-normal temperatures and heavy rainfall continued to spur growth throughout the Southeast. Ranchers gradually moved herds onto winter grazing and small grain stands. On the southern Plains, grazing was limited mostly to irrigated fields. Arizona pastures and ranges were not in good condition, and some ranchers hauled water and supplemental feed to cattle. California rangelands made excellent growth, and water was adequate. Snows stressed livestock, although losses should be light if producers can feed stranded herds in many of the Mountain States and central Plains.

Weather Data for the Week Ending Nov. 25, 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-hour, 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	
ALA. Birmingham	71	48	77	44	60	10	2.1	1.1	1.4	16.7	184	84	52	0	0	3	1	
Mobile	72	51	79	46	62	5	3.0	2.1	1.7	19.4	172	95	59	0	0	2	2	
Montgomery	74	49	78	42	62	9	2.1	1.2	1.3	9.4	103	85	48	0	0	2	1	
ALASKA. Anchorage	35	23	40	19	29	11	T	T	T	5.6	124	94	71	0	7	2	0	
Barrow	4	-6	23	-13	-1	3	0	0	0	.6	50	83	68	0	7	0	0	
Fairbanks	22	4	31	0	13	15	T	T	T	.9	43	82	66	0	6	1	0	
Kodiak	37	24	41	14	30	-4	1.2	0	T	13.6	82	68	57	0	6	2	0	
Nome	19	7	33	-1	13	0	T	T	T	8.1	176	73	61	0	7	3	0	
ARIZ. Flagstaff	36	16	50	-5	26	-	.5	.2	.2	2.6	63	78	34	0	7	2	0	
Phoenix	62	37	69	31	50	-8	0	.1	0	.3	23	48	17	0	2	0	0	
Tucson	60	31	70	24	46	-10	0	.1	0	.3	14	48	16	0	5	0	0	
Winslow	46	21	61	15	33	-6	0	.1	0	.6	35	--	--	0	7	0	0	
Yuma	69	43	79	36	56	-5	0	.1	0	0	0	14	0	0	0	0	1	
ARK. Fort Smith	60	40	75	27	50	3	1.1	.4	.9	6.6	72	83	46	0	4	1	2	
Little Rock	59	45	76	34	52	4	2.0	1.0	.9	8.7	92	83	64	0	0	3	0	
CALIF. Bakersfield	65	42	71	35	54	0	0	.2	0	.8	89	--	--	0	0	0	0	
Eureka	59	42	63	36	51	-1	1.2	.2	.6	12.5	144	86	62	0	0	4	1	
Fresno	58	39	61	32	49	-3	T	.3	T	1.5	100	91	55	0	1	1	0	
Los Angeles	66	47	70	44	57	-3	0	.6	0	.4	19	54	43	0	0	0	0	
Red Bluff	56	39	63	29	48	-4	1.1	.3	.7	6.8	170	83	60	0	1	5	1	
San Diego	68	47	70	41	58	-2	0	.4	0	1.0	59	61	45	0	0	0	0	
San Francisco	59	44	63	36	51	-2	.3	.3	.3	4.1	141	80	58	0	0	2	0	
Stockton	58	41	62	33	50	-1	.4	.1	.2	2.4	100	--	--	0	0	2	1	
COLO. Denver	38	20	48	11	29	-8	1.4	1.3	1.0	3.3	114	91	54	0	7	3	0	
Grand Junction	32	21	37	11	26	-10	.5	.4	.4	.9	43	87	66	0	7	1	0	
Pueblo	44	23	51	17	34	-4	.6	.5	.4	1.8	90	--	--	0	7	2	0	
CONN. Bridgeport	56	44	63	38	50	7	.1	.8	.1	9.4	109	91	71	0	0	1	0	
Hartford	60	41	71	27	50	12	.3	.8	.3	10.5	105	93	61	0	1	1	0	
D.C. Washington	73	51	75	43	62	17	T	.7	T	13.5	173	95	50	0	0	0	0	
FLA. Apalachicola	74	56	76	43	65	6	.3	.4	.3	20.0	149	93	64	0	0	1	0	
Daytona Beach	78	59	80	50	68	5	.3	.1	.2	23.4	166	95	59	0	0	3	0	
Ft. Myers	85	64	87	60	74	7	.2	.1	.1	15.4	110	91	48	0	0	2	0	
Jacksonville	79	53	81	44	66	7	1.1	.7	1.1	21.4	157	--	--	0	0	1	1	
Key West	81	73	82	71	77	3	.8	.3	.6	7.0	47	88	68	0	0	4	0	
Miami	81	72	82	66	76	5	.1	.3	.1	17.8	94	77	59	0	0	2	0	
Orlando	82	60	83	55	71	6	.9	.6	.6	11.8	96	96	52	0	0	3	1	
Tallahassee	77	48	79	35	63	6	.1	.6	.1	14.1	124	93	53	0	0	1	0	
Tampa	82	64	84	58	73	8	.2	.2	.2	14.8	149	70	51	0	0	0	0	
W. Palm Beach	80	70	81	59	75	4	.7	.3	.4	27.3	134	76	64	0	0	3	0	
GA. Atlanta	72	52	79	44	62	14	2.5	1.6	1.2	13.3	158	84	49	0	0	3	2	
Augusta	77	45	80	36	61	10	T	.6	T	7.5	107	99	46	0	0	2	0	
Macon	78	51	82	40	65	12	1.4	.8	1.4	9.5	132	90	48	0	0	1	1	
Savannah	77	54	79	44	66	11	1.3	.8	1.3	15.4	160	89	50	0	0	2	1	
HAWAII. Hilo	--	--	--	--	74	1	1.6	-1.8	--	29.7	102	--	--	0	0	--	--	
Honolulu	86	72	88	69	78	2	0	.8	0	1.5	33	--	--	0	0	0	0	
Kahului	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	
Lihue	--	--	--	--	76	1	T	-1.4	T	5.0	49	--	--	0	0	0	0	
IDAHO. Boise	41	24	44	17	32	-5	.8	.4	.3	2.5	109	84	53	0	7	4	0	
Lewiston	40	29	46	25	35	-4	.5	.2	.3	3.2	107	87	63	0	6	3	0	
Pocatello	32	13	26	5	23	-10	.4	.1	.1	2.0	100	80	66	0	7	3	0	
ILL. Cairo	61	48	74	35	55	9	3.4	2.4	1.4	8.7	96	--	--	0	0	4	3	
Chicago	54	39	64	30	46	10	2.0	1.5	.8	4.2	57	78	63	0	2	5	2	
Moline	52	33	67	23	43	7	1.5	1.1	.9	4.1	51	83	59	0	3	3	1	
Peoria	54	35	71	27	44	8	1.9	1.4	1.1	3.8	50	89	60	0	2	4	1	
Rockford	52	34	65	24	42	8	1.5	.9	.9	3.3	37	89	62	0	3	4	1	
Springfield	58	40	75	32	49	10	1.2	.7	.6	3.1	39	87	64	0	2	4	1	
IND. Evansville	60	44	72	32	52	10	3.7	2.9	1.3	11.2	140	90	73	0	1	4	3	
Ft. Wayne	55	39	68	30	47	10	2.1	1.5	.7	6.1	82	90	73	0	2	4	3	
Indianapolis	58	40	67	29	49	11	2.2	1.4	.8	6.8	84	94	71	0	2	5	3	
South Bend	54	40	62	31	47	11	3.0	2.4	1.3	9.0	110	87	72	0	1	4	3	
IOWA. Burlington	52	39	68	25	45	9	1.1	.7	1.0	3.9	49	--	--	0	2	2	1	
Des Moines	48	34	63	25	41	7	.5	.2	.3	5.4	86	64	0	0	3	3	0	
Dubuque	47	33	64	23	40	8	1.0	.4	.6	4.2	45	85	66	0	3	2	1	
Sioux City	40	28	60	21	34	2	1.4	-1.2	.7	9.2	180	88	79	0	4	3	2	
KANS. Concordia	48	28	61	18	38	0	.8	.7	.6	6.6	118	91	54	0	5	2	1	
Dodge City	47	27	59	17	37	-2	.7	.6	--	4.3	113	80	48	0	5	0	0	
Goodland	39	24	50	17	32	-3	.8	.7	.4	3.0	111	83	55	0	6	3	0	
Topeka	52	29	65	21	41	1	1.5	1.2	1.4	6.7	99	85	50	0	4	2	1	
Wichita	54	34	68	26	44	3	1.3	1.1	1.2	6.7	97	83	50	0	4	2	1	
KY. Lexington	65	46	72	35	55	14	2.4	1.6	1.8	17.1	238	83	58	0	0	3	1	
Louisville	65	44	74	37	55	12	3.1	2.3	1.6	18.4	233	90	63	0	0	4	2	

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Nov. 25, 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 . . .	67	46	79	33	56	- 1	3.9	2.9	1.6	11.0	116	94	62	0	0	4	4
Lake Charles . . .	68	48	79	36	58	0	4.2	3.2	3.1	20.5	193	92	55	0	0	5	2
New Orleans . . .	70	50	81	43	60	2	2.7	1.7	1.8	8.7	83	88	62	0	0	3	2
Shreveport . . .	66	46	81	35	56	3	4.6	3.7	3.8	12.4	144	84	48	0	0	2	2
MAINE. Caribou . . .	38	27	49	13	33	5	.4	.4	.2	8.7	93	88	79	0	4	4	0
Portland . . .	52	36	59	22	44	3	.4	1.2	T	13.3	129	91	73	0	2	4	3
MD. Baltimore . . .	69	45	74	38	57	14	T	.8	T	14.0	173	92	53	0	0	0	0
MASS. Boston . . .	61	45	70	36	53	11	T	1.1	T	9.7	100	86	64	0	0	0	0
Chatham . . .	55	46	63	40	51	--	T	.1	T	9.7	100	--	--	0	0	0	0
MICH. Alpena . . .	46	35	58	28	41	9	.7	.1	.2	4.1	58	--	--	0	2	4	4
Detroit . . .	57	38	63	29	48	11	2.6	2.1	1.0	5.8	88	93	71	0	2	6	2
Flint . . .	55	41	61	33	48	13	1.9	1.4	.6	5.4	82	93	76	0	0	5	5
Grand Rapids . . .	55	41	63	33	48	13	3.6	2.9	1.4	6.8	83	93	73	0	0	4	3
Houghton Lake . . .	45	36	55	29	41	10	1.1	.5	.4	4.4	56	90	76	0	1	3	3
Lansing . . .	54	40	62	30	47	12	1.4	.9	.7	4.4	65	92	75	0	1	1	0
Marquette . . .	38	29	49	20	34	3	.6	.1	.3	11.1	137	95	82	0	6	5	1
Muskegon . . .	51	41	60	33	46	10	1.8	1.1	.8	7.5	87	76	62	0	0	2	0
S. Ste. Marie . . .	42	34	50	33	38	9	.8	0	.4	10.3	112	93	83	0	0	5	3
MINN. Duluth . . .	37	27	49	18	32	8	.2	.2	.1	4.9	74	70	54	0	6	3	0
Internatl. Falls . . .	32	16	43	7	24	4	T	.3	T	5.0	85	85	52	0	7	3	0
Minneapolis . . .	40	28	56	17	34	6	.7	.4	.5	6.1	113	89	65	0	4	4	0
Rochester . . .	42	32	57	27	37	8	.9	.7	.7	7.8	139	93	72	0	4	4	0
St. Cloud . . .	39	23	52	9	31	5	.4	.1	.1	6.5	125	78	--	0	5	4	1
MISS. Jackson . . .	65	43	78	30	54	1	6.9	5.9	3.3	16.2	198	94	56	0	2	4	3
Meridian . . .	69	45	79	40	57	5	4.4	3.5	2.5	18.6	230	90	56	0	0	2	2
MO. Columbia . . .	56	39	71	29	48	7	1.5	1.1	1.5	6.5	72	76	62	0	2	2	1
Kansas City . . .	51	34	64	22	43	4	1.6	1.3	1.6	5.7	67	75	50	0	3	2	1
St. Louis . . .	59	43	76	31	51	9	1.4	.8	.8	3.8	50	91	66	0	1	2	1
Springfield . . .	59	41	76	29	50	8	1.8	1.3	1.3	6.8	73	79	49	0	2	3	1
MONT. Billings . . .	34	22	41	9	28	- 5	.4	.2	.4	1.4	47	65	59	0	7	2	0
Glasgow . . .	36	15	40	9	25	0	T	.1	T	.9	56	94	59	0	7	2	0
Great Falls . . .	42	20	50	11	31	- 2	T	.2	T	1.2	50	60	34	0	7	1	0
Havre . . .	44	18	53	8	31	- 5	T	.1	T	1.4	70	84	34	0	7	0	0
Helena . . .	36	11	41	6	24	- 5	T	.2	T	.5	28	69	44	0	1	1	0
Kalispell . . .	34	18	39	13	26	- 2	T	.4	T	2.3	62	91	69	0	7	1	0
Miles City . . .	35	17	39	5	26	- 3	.1	0	.1	.5	23	89	67	0	7	2	0
Missoula . . .	31	14	36	8	23	- 7	.3	.1	.2	1.4	54	96	76	0	7	3	0
NEBR. Grand Island . . .	40	24	60	12	32	- 2	1.4	1.3	.9	6.8	174	80	56	0	5	3	1
Lincoln . . .	44	30	62	18	37	2	1.0	.8	.9	7.0	137	94	62	0	4	2	1
Norfolk . . .	38	22	59	10	30	- 2	1.0	.9	.6	7.7	193	85	68	0	5	4	1
N. Platte . . .	39	22	57	8	31	- 3	3.0	2.9	2.2	6.2	188	77	51	0	6	2	2
Omaha . . .	43	32	61	20	38	1	.8	.6	.6	8.2	149	88	48	0	5	3	1
Valentine . . .	36	17	55	3	27	- 5	.6	.5	.5	3.6	133	87	67	0	7	2	0
NEV. Ely . . .	40	12	52	0	26	- 5	.1	.1	.1	1.3	93	61	42	0	7	1	0
Las Vegas . . .	57	37	62	27	47	- 3	T	.1	T	0	0	36	14	0	1	1	0
Reno . . .	51	22	62	7	36	- 2	T	.2	T	.5	42	75	31	0	5	1	0
Winnemucca . . .	44	14	55	2	29	- 6	.3	.1	.2	1.2	71	78	37	0	7	2	0
N.H. Concord . . .	56	37	67	25	47	12	.1	.9	.1	9.3	102	93	62	0	3	1	0
N.J. Atlantic City . . .	66	44	69	32	55	12	.2	.8	.2	8.3	86	92	58	0	1	1	0
Trenton . . .	65	50	72	45	57	13	.1	.7	.1	12.0	143	--	--	0	0	1	0
N.MEX. Albuquerque . . .	44	22	58	19	33	- 8	.1	0	.1	1.6	89	81	44	0	7	2	0
Roswell . . .	59	27	71	16	43	- 1	0	0	.3	10	10	--	--	0	6	0	0
N.Y. Albany . . .	57	41	69	25	49	13	.5	.2	.3	9.5	120	92	64	0	1	3	0
Binghamton . . .	60	44	65	36	52	17	.9	.2	.4	9.6	113	88	58	0	0	3	0
Buffalo . . .	61	42	70	35	52	15	.5	.4	.3	12.0	129	87	67	0	0	3	0
New York . . .	60	49	68	44	55	10	.1	.8	.1	10.0	114	88	65	0	0	1	0
Rochester . . .	60	43	69	30	52	14	.4	.2	.2	8.8	122	89	70	0	1	6	0
Syracuse . . .	60	42	68	30	51	13	1.0	.2	.5	9.9	119	77	66	0	1	6	1
N.C. Asheville . . .	68	46	73	32	56	13	2.8	2.1	2.0	14.5	161	98	62	0	1	3	2
Charlotte . . .	73	49	75	37	61	12	.2	.5	.1	15.6	193	95	51	0	0	1	0
Greensboro . . .	74	49	77	39	62	16	.2	.4	.4	19.2	231	88	49	0	0	3	0
Hatteras . . .	73	51	76	41	62	8	0	1.1	0	20.4	146	94	54	0	0	0	0
Raleigh . . .	75	46	77	37	61	13	0	.7	0	11.9	140	--	50	0	0	0	0
Wilmington . . .	76	49	78	40	63	9	.1	.6	0	15.9	146	84	48	0	0	0	0
N.DAK. Bismarck . . .	35	13	45	4	24	- 1	T	.1	T	.9	38	84	52	0	7	0	0
Fargo . . .	34	20	45	12	27	- 3	T	.1	T	3.2	94	87	70	0	7	1	0
Williston . . .	35	11	46	5	23	- 1	T	.1	T	.5	25	89	51	0	7	1	0
OHIO. Akron-Canton . . .	60	41	66	33	51	13	1.0	.4	.4	12.1	173	75	58	0	0	6	0
Cincinnati . . .	61	42	69	33	51	11	2.5	1.7	1.3	14.7	204	95	68	0	0	4	2
Cleveland . . .	60	41	66	31	50	12	1.4	.8	.6	7.8	104	90	61	0	1	5	1
Columbus . . .	61	41	70	34	51	13	2.1	1.5	.9	11.8	187	88	68	0	0	4	2
Dayton . . .	62	42	70	33	52	13	3.3	2.7	1.9	10.1	163	90	58	0	0	4	2
Toledo . . .	57	40	62	28	48	12	2.5	1.9	1.1	8.3	128	92	65	0	2	4	2
Youngstown . . .	62	41	69	32	51	14	.8	.1	.4	9.1	117	75	50	0	1	4	0

Based on preliminary reports and 1941-70 normals

Weather Data for the Week Ending Nov. 25, 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	61	38	78	23	49	3	1.9	1.6	1.6	3.7	52	78	38	0	2	2	1
Tulsa	62	42	79	27	52	6	4.8	4.4	4.6	7.9	91	78	39	0	1	3	1
OREG.Astoria	51	37	55	32	44	-1	3.4	1.0	1.9	19.8	112	84	63	0	1	6	3
Burns	40	16	44	6	28	-5	1.0	.6	.4	3.4	136	87	50	0	6	3	0
Medford	45	31	53	24	38	-3	2.1	1.3	.8	7.5	144	95	71	0	4	4	2
Pendleton	41	29	49	26	35	-4	.6	.2	.2	3.4	113	90	68	0	7	3	0
Portland	48	39	51	34	44	0	1.8	.4	1.1	8.9	93	87	58	0	0	4	1
Salem	45	33	50	25	39	-5	1.8	.3	1.0	10.2	98	96	76	0	3	3	1
PA.Allentown	63	45	72	35	54	15	.1	-.8	.1	13.5	150	92	65	0	0	1	0
Erie	60	43	70	31	51	13	1.3	-.4	.6	12.9	133	92	--	0	1	5	1
Harrisburg	64	45	70	36	55	14	.2	-.6	.2	12.5	160	93	60	0	0	1	0
Philadelphia	66	46	73	37	56	13	T	-.8	T	10.6	128	47	59	0	0	0	0
Pittsburgh	66	44	74	35	55	17	.8	-.2	.4	8.0	111	76	49	0	0	3	0
Scranton	63	45	71	34	54	17	.5	-.2	.3	11.4	146	84	37	0	0	3	0
R.I.Providence	63	43	73	33	53	13	0	-1.1	0	12.0	120	82	57	0	0	0	0
S.C.Charleston	78	51	81	41	65	10	1.3	.8	1.3	22.2	227	99	52	0	0	1	1
Columbia	77	45	80	32	61	10	.5	-.1	.5	14.0	163	98	46	0	1	2	0
Greenville	71	50	75	37	60	12	1.1	.3	1.0	14.4	155	95	58	0	0	3	1
S.DAK.Aberdeen	38	22	49	14	30	4	T	-.1	T	1.2	36	74	51	0	6	0	0
Huron	39	23	53	13	31	3	.2	.1	.1	2.1	57	79	49	0	6	2	0
Rapid City	38	21	50	15	30	-3	.2	.1	.1	1.2	50	75	52	0	7	3	0
Sioux Falls	35	19	56	2	27	-2	1.4	1.2	.9	8.9	178	89	72	0	7	3	1
TENN.Chattanooga	69	45	75	35	57	11	1.9	.9	1.1	16.6	177	93	55	0	0	4	1
Knoxville	71	49	75	37	60	13	1.9	1.0	.8	10.3	126	89	54	0	0	3	3
Memphis	64	47	78	32	55	7	5.3	4.3	2.6	12.2	142	82	61	0	1	4	3
Nashville	67	46	77	37	57	11	2.9	2.0	1.8	20.1	254	89	58	0	0	4	2
TEX.Abilene	65	41	79	28	53	2	.3	.1	.3	1.1	19	64	29	0	2	1	0
Amarillo	54	27	68	16	40	-3	0	-.1	0	2.2	52	76	25	0	5	0	0
Austin	68	47	81	32	58	1	.4	-.1	.3	2.3	28	83	42	0	1	2	0
Beaumont	68	48	81	38	58	0	3.1	2.0	2.0	16.3	133	82	53	0	0	5	2
Brownsville	74	53	84	40	64	-3	.1	-.2	.1	10.0	105	86	51	0	0	3	0
Corpus Christi	73	51	85	36	62	-1	.3	-.1	.2	13.6	151	86	47	0	0	2	0
Del Rio	68	44	83	27	56	-1	T	-.1	T	1.3	24	45	37	0	1	1	0
El Paso	56	27	70	20	41	-8	0	-.1	0	.4	18	49	22	0	5	1	1
Fort Worth	67	47	79	29	57	4	.1	-.4	.1	4.9	65	68	37	0	1	1	0
Galveston	64	53	74	43	59	-3	2.1	1.3	1.3	14.9	139	81	61	0	0	4	2
Houston	68	47	83	36	58	-1	1.6	.6	1.4	13.7	117	89	55	0	0	3	1
Lubbock	60	34	74	19	47	-1	0	-.1	0	.9	19	57	23	0	3	0	0
Midland	64	36	77	25	50	-1	0	-.1	0	1.1	31	54	26	0	3	0	0
San Angelo	66	38	80	24	52	-1	0	-.2	0	1.1	21	59	26	0	3	0	0
San Antonio	69	46	81	30	58	0	.8	.4	.4	2.3	29	77	41	0	1	4	0
Victoria	69	48	81	38	58	-2	.8	.3	.4	11.7	118	86	55	0	0	3	0
Waco	67	44	80	28	56	1	.2	-.3	.1	4.8	62	81	41	0	2	3	0
Wichita Falls	65	41	81	29	53	4	1.6	1.3	1.1	3.4	50	73	36	0	2	2	1
UTAH.Blanding	36	19	43	9	27	-9	.7	.5	.3	2.1	70	90	75	0	7	3	0
Salt Lake City	38	26	40	18	32	-4	.2	-.1	.2	2.3	79	77	53	0	7	2	0
VT.Burlington	56	44	64	25	50	16	1.0	.3	.6	9.0	114	77	63	0	1	4	1
VA.Lynchburg	71	48	74	39	59	14	.1	-.5	T	15.1	194	92	--	0	0	3	0
Norfolk	75	50	80	41	62	13	0	-.7	0	19.7	212	91	46	0	0	0	0
Richmond	75	46	77	38	61	14	.1	-.7	.1	17.2	191	96	53	0	0	1	0
Roanoke	70	48	75	37	59	15	.2	-.4	T	15.1	176	96	47	0	0	1	0
WASH.Colville	34	28	38	18	31	-1	.3	.2	.1	3.7	95	--	--	0	7	2	0
Omak	34	26	39	19	30	-3	.7	.3	.7	4.0	148	--	--	0	7	2	1
Quillayute	50	35	60	31	42	-1	3.1	-.2	1.4	22.8	81	95	71	0	2	5	2
Seattle-Tacoma	47	36	54	30	42	-2	1.1	-.4	.3	6.2	57	82	65	0	2	3	0
Spokane	37	24	53	15	30	-3	.4	-.2	.3	2.8	68	89	73	0	7	4	0
Walla Walla	43	32	54	30	38	-3	.8	.3	--	4.9	126	85	69	0	4	0	0
Yakima	39	25	48	22	32	-4	.6	.3	.3	2.3	121	87	78	0	7	2	0
W.VA.Beckley	66	48	70	35	57	18	.5	-.2	.5	10.1	126	78	54	0	0	2	1
Charleston	71	44	75	32	57	15	1.3	.6	.6	10.8	144	88	45	0	1	1	1
Huntington	71	47	76	33	59	16	.9	.2	.6	10.9	154	80	48	0	0	3	1
Parkersburg	69	46	74	34	58	16	.4	-.2	.4	8.8	129	68	38	0	0	2	0
WISC.Green Bay	45	35	60	27	40	10	.9	.5	.6	5.1	76	94	78	0	3	4	1
La Crosse	46	37	65	26	41	10	1.1	.7	--	7.0	106	94	73	0	3	0	0
Madison	48	35	64	27	42	11	1.2	.8	1.0	4.9	71	96	72	0	3	3	1
Milwaukee	50	39	63	29	44	12	1.7	1.2	1.1	4.0	62	85	68	0	1	3	1
WYO.Casper	28	14	42	1	21	-10	.7	.6	.6	1.5	68	77	53	0	7	3	1
Cheyenne	32	19	42	11	26	-7	2.2	2.1	1.5	3.3	143	70	49	0	7	2	1
Lander	30	9	38	-4	20	-9	.4	.2	.4	.9	29	87	49	0	7	2	0
Sheridan	35	18	42	2	26	-4	.3	.1	--	3.3	114	87	46	0	7	0	0
P.R.San Juan	83	74	87	70	79	1	9.5	8.2	7.0	25.2	158	91	69	0	0	6	3

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.

Corrections for the week ending November 18, 1979, Volume 66, No. 47, page 6.

States and Stations	Total in., since Sept. 3	Pct. normal since Sept. 3
TEX. El Paso4	19
Fort Worth	4.8	69
Galveston	12.8	129
Houston	12.1	113
Lubbock9	19
Midland	1.1	32
San Angelo	1.1	22
San Antonio	1.5	20
Victoria	10.9	116
Waco	4.6	64
Wichita Falls	1.8	28
UTAH. Blanding	1.4	50
Salt Lake City	2.1	81
VT. Burlington	8.0	111
VA. Lynchburg	15.0	208
Norfolk	19.7	229
Richmond	17.1	209
Roanoke	14.9	186
WASH. Colville	3.4	100
Omak	3.3	143
Quillayute	19.7	80
Seattle-Tacoma	5.1	55
Spokane	2.4	69
Walla Walla	4.1	121
Yakima	1.7	106
W. VA. Beckley	9.6	132
Charleston	9.5	140
Huntington	10.0	156
Parkersburg	8.4	135
WISC. Green Bay	4.2	67
La Crosse	5.9	95
Madison	3.7	57
Milwaukee	2.3	38
WYO. Casper8	38
Cheyenne	1.1	50
Lander5	17
Sheridan	3.0	111
P.R. San Juan	15.7	107

ALABAMA: Temperatures averaged 9° above normal warmest on 22d, cooling by weekend. Heavy rains 23d through 25th; greatest total 4.50 in.; 1.00 to 3.00 in. elsewhere.

Fieldwork: 4.9 days suitable. Soil moisture adequate. Corn harvest virtually complete. Soybeans 85% harvested, 94% 1978, 81% average. Cotton 98% bolls open; 75% harvested, 96% 1978, 78% average. Wheat 85% seeded, 79% 1978. Sorghum 94% harvested. Pecans 45% harvested. Condition of wheat, pastures fair to good; pecans poor to fair.

ARIZONA: Precipitation up to 0.50 in. northern half. Snowfall 2 to 7 in. central, northeast high country. Temperatures averaged 5 to 11° below normal.

Cotton harvest approximately 75% complete, 67% last year. Sorghum harvest virtually complete. Small grain seedbed preparation, planting continued. Normal cultural practices continued for spring sugarbeets. New, renovated alfalfa, good progress. Lettuce harvest increasing central, west. Later crop lettuce, mixed vegetables good progress. Low temperatures finished remaining warm weather crops. Harvest lemons, Navels, sweets, tangerines, grapefruit active. No reports significant freeze damage. Groves good condition. Diesel, gasoline, LP gas supplies adequate. Cooler weather brought very little moisture. Winter forage prospects not good. Cattle fairly good condition. Water hauling, supplemental feeding required some areas. Sheep, lambs grazing lower elevation alfalfa fields.

ARKANSAS: Warm early week, cool later half. Highest normal 52°, lowest 44°. Highest mean 53°, lowest 49°. Highest temperature 81°, lowest 20°. Most rainfall 0.05 in., least 0.57 in.

Damp weather slowed crop harvest, fields wet. Disking and shredding continued. Fieldwork: 3.4 days possible. Soil moisture adequate. Diesel 92% adequate, 8% tight; gasoline 92% adequate, 5% tight; LP gas 97% adequate. Soybean combining 94% complete, 92% 1978, 85% average. Most cotton fields picked once; second pickings continued followed by shredding and disking; 37% harvested, 94% 1978, 87% average. Rice, corn and sorghum harvests completed. Stubble shredded and disked. Small grains early seeded fields up to good stand. Fields being grazed. Wheat 94% seeded, 91% 1978, 90% average. Oats 88% seeded, 95% 1978, 98% average. Livestock and pastures condition good. Supplements and hay being fed. Lice and grub control measures. Pastures mostly average. Hay supplies larger than usual.

CALIFORNIA: Precipitation fell north and central during two storms--one at beginning of period and one at end. Between storms fair weather but temperatures fell below freezing in many agricultural areas.

Cotton, corn, milo, sugarbeet harvests active. Rice, dry bean harvests nearing completion. Cotton harvest 90% complete, 60% last year. Shredding, plowing, cotton fields. Burning rice stubble. Seeding winter grains all active. Normal cultural operations underway. Avocado harvest light. Emperor table harvest continued. Wine grape harvest ending. Olive harvest ending. Persimmon harvest complete. Desert grapefruit harvested, light volume. Lemons harvested in Visalia. Navel oranges

color and size good. Harvest increasing. Satsumas harvested. Artichokes light supply, some frost damage. Broccoli, cauliflower fairly heavy supply central coast. Light cauliflower movement south coast, San Joaquin Valley. Celery decreasing seasonally Salinas-Watsonville, steady Santa Maria-Oceano, increasing slowly south coast. Lettuce harvest nearly complete San Joaquin Valley, near peak Palo Verde Valley, just started Imperial County. Harvest processing onions halted by snow Tulalake. Potato harvest complete Tulalake. Market tomato harvest slowing seasonally south coast. Range grass excellent growth. Supplemental feeding continued necessary many areas. Stock water supplies adequate. Most areas have adequate supplies of fuel, however there was increased reporting of tight supplies.

COLORADO: Rain or snow 19th evening. Storm moved eastward out of Colorado on 21st evening and 22d. Heaviest snow in foothills of northeast where over three feet fell. Winds up to 50 mph in northeast piled snow into 6 foot drifts. Precipitation averaged 0.50 in. except Kansas and Platte River basins which averaged 0.80 and 0.96 respectively. Temperatures below normal varying from 2 to 5° below normal Arkansas basin to 10° below normal in San Luis Valley.

FLORIDA: Ridge of high pressure kept rainfall to a minimum and temperatures above normal through 23d. Slow moving cold front entered Panhandle late that day and became stationary through 25th. Thundershowers associated with front produced 1.00 to 2.00 in. of rain mainly over western Panhandle. Influx of moist, tropical air ahead of front caused showers over remainder of State mainly on 25th. Rainfall averaged 0.25 to 0.50 in. except for over 1.00 in. in some east coast areas. Temperatures above normal.

Soil moisture variable most areas, ranging from short to adequate. Showers over weekend beneficial to dry areas. Soybean harvest nearing completion. Cotton, sugarcane harvest active. Sugarcane yields good to excellent. Gathering pecans nearly complete in many localities. Seeding small grains active. Early planted grains providing some grazing in Panhandle. Fuel supplies adequate. Pasture condition poor to fair with some seasonally dry areas; however, general weekend rains brought some relief. Cattle fair to good. Widespread showers weekend most beneficial for citrus where soils had become quite dry. Harvest slowed for Thanksgiving but expected to increase sharply. Near ideal weather prevailed in vegetable growing areas. Skies generally clear with negligible amounts of rain. Daytime temperatures in 80's with nighttime readings in high 60's to low 70's. Winds mostly moderate to strong. Vegetable crops fair to very good condition, some excellent. Some older crops declining seasonally. Harvest active. Overall shipments up only 2% from previous week. Volume slowed due to Holiday. Shipments cabbage getting underway for season. Carrots, chinese cabbage, peppers, tomatoes increased while celery, lettuce, radishes, squash held steady. Supplies snap beans, sweet corn, cucumbers, eggplant, escarole, okra, parsley decreased. Shipments should increase to normal post-Holiday level this week. Plantings continue active many crops. Irrigation, spray programs active. Strawberry transplanting continues some areas. Plants set to fields making fair progress. Spot replanting necessary some fields. Seeding winter potatoes active.

GEORGIA: Temperatures about 10° above normal north and about 5° above in south. Dry; rain

weekend with amounts 1.00 to 2.00 in. north and coast, and mostly 0.25 to 0.50 in. elsewhere.

Soil moisture adequate. Fieldwork: 5 days suitable. Corn 97% harvested, 97% last year, 93% average. Soybeans fair to mostly good; 74% combined, 86% last year, 74% average. Cotton fair to good, 85% picked, 95% last year, 81% average. Pecans fair; 58% gathered, 63% last year, 61% average. Wheat 76% planted. Rye 86% planted. Other small grains 81% planted. Pastures fair to good. Cattle and hogs good. LP gas 97% adequate; diesel 95% adequate; gasoline 96% adequate.

HAWAII: Weather improved.

Farm activities Waipio Valley Island Hawaii include cleaning debris, mending taro banks, irrigation channels, damaged from previous week's heavy deluge. Most other crops affected by heavy rains making gradual recovery. Cool weather volcano area slowing crop progress. Elsewhere Hawaiian Chain crop growth fair to good. Vegetable supplies light. Bananas: Supplies of Apple, Bluefield light; Chinese including Williams hybrid moderate to heavy. Papayas decreasing. Heavy spraying some orchards after heavy rains. Sugar and pineapple harvesting slowing. Pastures generally good. Fuel supplies adequate.

IDAHO: Temperatures 1 to 7° below normal. Extremes: 59 and -2°. Precipitation generally above normal. Rain or snow reported most areas.

Fieldwork minimal due to cold temperatures and frozen ground. Major activities: Weaning calves and caring for livestock on winter ranges. Normal marketing pattern for calves and crops.

ILLINOIS: Temperatures above normal. Precipitation 1.00 to 2.00 in. northern two-thirds state, 3.00 in. extreme south.

Soil moisture short to adequate. Corn 97% harvested, 100% 1978, 95% average. Wheat emerged 100%; condition good. Plowing 1980 corn, soybean acreage 67% complete, 69% 1978, 56% average. Pastures fair to good. Fieldwork: 4 days suitable.

INDIANA: Wet, warm, cloudy. Temperatures averaged 10° above normal and ranged from 23 to 74°. Rainfall 3.50 in. south, 2.50 in. central, 2.10 in. north. Sunshine 30% of possible.

Fieldwork averaged 4 days. Topsoil and subsoil moisture mostly adequate to surplus. Corn 92% harvested, 1978 95%, average 85%. Soybeans 100% harvested, 1978 100%, average 100%. Wheat 95% emerged, 1978 95%. Wheat stands good. Spring cropland 45% plowed, 1978 50%, average 40%. Tobacco 40% stripped, 1978 35%.

IOWA: Mild, wet. Substantial rains fell on 20 to 23d, except rain changed to snow northwest with accumulations to near 10 in. extreme northwest.

Fieldwork: 3.7 days favorable. Corn harvested 90%, 1978 100%, normal 96%. Soybeans harvested 100%, 1978 100%, normal 99%. Fall plowing 44%, 1978 46%, normal 45%. Topsoil moisture adequate to surplus; subsoil moisture adequate. Livestock good condition. Livestock market movement normal, herd replacement slowed.

KANSAS: General precipitation first week with heavy rains 4.00 in. to over 8.00 in. southeast. Remainder of east 1.00 to 3.00 in. totals dwindling to 0.25 in. to 0.50 in. west. Little or none extreme southwest. Temperatures averaged 36° northwest to 40 to 43° east and south. Near normal northwest and southwest to 3 to 8° above elsewhere.

Harvest nearing completion. Corn 94% harvested, 99% last year, 93% average. Sorghum grain 93% cut, 98% last year, 90% average. Soybeans 97%

harvested, 98% last year, 90% average. Wheat seeding at 98%, last year complete, average 99%.

KENTUCKY: General heavy rains statewide. Precipitation averaged 4.00 to 6.00 in. over west; 2.00 to 4.00 in. central; 1.00 to 2.00 in. east. Temperatures much above normal first four days and few degrees above normal weekend.

Some harvesting of corn and soybeans prior to rain--both about 96% complete. Rain and higher humidity later in period favorable for tobacco stripping. Soil moisture ample, surplus in some low areas.

LOUISIANA: Temperature 1 to 4° below normal. Extremes: 83 7 30°. Rain statewide.

Fieldwork: 4.0 days suitable. Soil moisture adequate to surplus. Soybeans 98% harvested, 99% last year, 94% average. Cotton 92% harvested, 99% last year, 91% average. Sugarcane 66% harvested, 68% last year, 61% average. Oats and wheat 96% planted, 97% last year and average. Pecans 71% harvested, 61% last year. Pastures fair. Cattle good.

MARYLAND & DELAWARE: Temperatures averaged 11° above normal. Highs averaged in high 60's to low 70's, lows in high 30's to low 40's. Precipitation sparse.

Fieldwork: 6.3 days suitable. Soil moisture adequate. Fuel supplies adequate. Corn harvest for grain virtually complete, slightly behind schedule. Soybean harvest 85% complete. Seeding of small grains near complete.

MICHIGAN: Temperatures unseasonably warm ranging from 5 to 17° above normal. Maximum temperatures reached into low 60's. Precipitation averaged from over 0.50 in. over Upper to near 2.00 in. over Lower.

Fieldwork: 3 days suitable. Soil moisture surplus. Pasture feed supplies average. Corn 85% harvested, 95% last season, 90% normal. Soybean harvest virtually complete except for a few isolated fields. Fall plowing 55% complete, 60% last year, 50% normal.

MINNESOTA: Temperatures averaged near normal southwest to 6° above normal elsewhere. Extremes: 66 and 0°. Precipitation averaged 0.20 in. below normal north half, .60 in. above normal south half. Precipitation totals ranged from traces or none much of northwest and west central to more than 1.00 in. much of southern third. Snowfall trace to 1 in. north, west central, southeast; up to 13 in. southwest. Snow depth at weekend 4 to 8 in. southwest; generally 1 in. or less elsewhere.

Snow, wet fields continue to hamper corn harvest south. Heavy snow in extreme southwest may prevent harvest completion until spring. Grain moisture remains very high -- 27%. Sunflower combining resumed in north. LP gas for drying still limited few areas. Harvested: Corn 75%, 1978 99%, normal 99%; sunflowers 89%, 1978 99%, normal 93%.

MISSISSIPPI: Temperatures 3 to 11° above normal. Rainfall heavy. Maximum 24-hour rainfall 4.24 in. Extremes: 29 to 81°.

Soil moisture surplus south, excessive north and central. Fieldwork: 2.7 days suitable. Excessive rains stopped fieldwork. Will be a few days before fields will be reentered. Soybeans 93% harvested, 97% 1978, 85% average. Cotton 84% harvested, 100% last year, 86% average. Pecans 69% harvested, 60% 1978, 65% average. Winter wheat 92% planted, 84% 1978, 94% average; condition

good to fair. Pasture conditions good to fair. Livestock rated good to fair. Diesel and gasoline supplies adequate with scattered tight. LP gas supplies adequate.

MISSOURI: Weather unseasonably warm and wet. Temperatures 10 to 13° above normal south, 8° above normal elsewhere. Precipitation averaged 1.50 to 2.50 in., mostly midweek, with isolated thunderstorms.

Fieldwork: 2.6 days suitable. Corn 91% harvested, last year 93%, normal 87%. Grain sorghum 93%, last year 95%, normal 89%. Plowing for spring planted crops 54% complete, last year 56%. Soil moisture supplies mostly adequate. Winter wheat and pasture condition mostly fair to good. Fuel supplies for farmwork mostly adequate.

MONTANA: Significant snowstorm brushed south early week, with moderate to heavy snow. Another snow end of week left light amounts of snow. Temperatures reflected snowcovered areas as temperatures over southwest 10 to 15° below normal, 7° below normal south central, and 4° below southeast. In snowfree areas of north central, temperatures 4° above normal.

Winter wheat condition fair. Wind damage to winter wheat light. Winter ranges in fair condition with about 30% of livestock on supplemental feed. Soil moisture short.

NEBRASKA: Precipitation 1 to 2 feet snow central and west; 1.00 in. rain east. Temperatures 5° below normal west; near normal east.

Corn harvest 90% complete, 100% year ago, 90% normal. Sorghum harvest 95% complete, year ago 100%, normal 100%. Winter wheat condition fair to good. Diesel and gasoline 95% adequate; 5% tight. LP gas adequate. Fieldwork: 3.2 days suitable.

NEVADA: Precipitation widespread but light most areas. Winds gusty to high at end of period. Temperatures averaged 3 to 5° above normal. Extremes: 7 and 79°.

Cotton harvest full swing. Livestock good condition. Ranch activities minimal.

NEW ENGLAND: Temperatures early week near normal, but by weekend daytime highs reached record levels in southern New England. Temperatures in northern one-third only slightly above normal. Precipitation below normal.

NEW JERSEY: Temperatures well above normal, averaging 48° north, 53° south, 53° coastal. Extremes: 26 and 73°. Precipitation well below normal, averaging 0.02 in. north, trace south, trace coastal.

Above normal temperatures advancing growth of fall seeded grains and cover crops. Field corn and soybean harvest nearing completion. Cider-making active. Fruit tree pruning begun. Light movement hardy vegetables moving to market.

NEW MEXICO: Warm 19th turning windy and sharply colder 20th and 23d. Significant rain and snowfall with the storm only in northern mountains. Gradual warming beginning 23d and continuing through 25th. Temperatures averaged from 2° below normal southeast to 19° below normal northwest.

Soil moisture adequate. Light to moderate killing freeze all areas. Cotton advanced to 50% harvested. Pecan harvest underway. Limited harvesting of red chile. Most other crops through. Ranges good condition. Winter wheat grazing widespread. Livestock good.

NEW YORK: Warm southerly flow of air over north-east created 6 to 16° above normal temperatures. Rainfall of 0.75 to 1.00 in. fell in central portions; near to a little above normal but elsewhere 0.50 in. or less was well below normal.

NORTH CAROLINA: Temperatures above normal. Precipitation light.

Fieldwork: 5.3 days suitable. Soil moisture adequate. Condition of wheat, oats, barley, rye, pasture fair to mostly good with some small grains excellent. Harvested: Corn for grain 96%, 1978 100%, average 97%; cotton 78%, 1978 88%, average 82%; soybeans 60%, 1978 72%, average 62%; grain sorghum 90%, 1978 95%, average 92%. Planted: Wheat 87%, 1978 88%; barley 94%, 1978 95%; oats 93%, 1978 94%; rye 91%, 1978 91%.

NORTH DAKOTA: Dry weather with seasonal temperatures. Precipitation limited to a few flurries. Largest amount reported only 0.02 in. Temperatures averaged near normal west and 2 to 6° above normal east. Extremes: 53° southeast, 3° southwest.

Corn and sunflower harvests continuing but need for mechanical drying keeping progress slow. Soil moisture levels low. Absence of early winter storms welcome change for livestock from past two years.

OHIO: Temperatures averaged over 10° above normal. High temperatures in low 70's south and 60's elsewhere. Rainfall above normal; over 2.00 in. at several stations. Soil temperatures reached into low 50's, lows mostly in 40's.

Soybean harvest nearly complete. Corn harvest hampered by wet grounds and shortages of grain drying capacity. Winter wheat crop prospects bright, with 90% emerged. Corn harvested 90%, 99% 1978, 95% average. Soybeans harvested 99%, 100% 1978, 99% average. Tobacco stripped 45%, 45% 1978, 40% average. Fall plowing 50%, 50% 1978, 40% average. Fieldwork: 5 days favorable. Pasture condition good. Soil moisture adequate to surplus.

OKLAHOMA: Heavy rains fell in north early week. Ponca City had a one day total of 10.98 in. on 21st. Averages ranged from 0.01 in. in Panhandle to 4.4 in. northeast. Temperatures 4° colder than normal in Panhandle; elsewhere temperatures above normal with the highest readings in the northeast 6° above normal.

Precipitation should promote good growth and development on wheat and other small grains. Heavy rainfall in Kay, Grant, Garfield and Noble Counties caused flooding and damage wheat. Wheat up to stand 80%, 95% 1978 and average. Wheat grazed 15%, 10% 1978, 5% average. Sorghum harvested 90%, 75% 1978, 85% average. Cotton harvested 40%, 25% 1978, 30% average. Fieldwork: 3.8 days suitable.

OREGON: Wet, cool weather prevailed. West rainfall ranged from 3.00 to 4.00 in. along coast; 1.50 to 2.50 in. valleys. East ranged 0.40 in. central sections to 2.25 in. at Klamath Falls. Most stations recorded 0.50 to 1.00 in. Temperatures generally 3 to 6° below normal. Most east and south stations reported snow weekend.

Soil moisture adequate to surplus. Winter wheat more than 95% planted; crop condition good. Livestock condition mostly good. Range and pastures fair to good condition. Feed supplies are currently adequate. Good hay is in tight supply. Fuel supplies mostly adequate.

PENNSYLVANIA: Weather data not available.

Fieldwork: 6 days suitable. Activities: Harvesting corn, soybeans; spreading lime and

manure; cutting wood and caring for livestock. Corn 90% harvested, last year 96%, normal 95%. Soybeans 90% harvested, Hay quality mostly fair to poor. Feed from pastures mostly average to above.

PUERTO RICO: Island average rainfall 2.96 in. or 1.63 in. above normal. Temperatures averaged about 79° on coasts and 73° interior. Extremes: 93 and 51°.

SOUTH CAROLINA: Much warmer than usual with last part averaging more than 15° above normal. Substantial weekend rainfall, heaviest in mountains.

Soil moisture adequate. Fieldwork: 5 days suitable. Cotton 92% harvested in near ideal weather, 97% last year. Soybeans 58% harvested with good progress under mostly sunny conditions, 78% last year, 64% average. Small grain condition good, seeding emergence ahead of 1978 except rye. Wheat 74% planted, 68% last year; wheat 58% emerged, 53% last year. Livestock, pasture conditions good. Winter grazing good condition, 94% planted, 88% emerged.

SOUTH DAKOTA: Average temperatures 9° below to 3° above normal. Extremes: 66 and 2°.

Snowstorm 21st southeast halted field activities, perhaps for remainder of year in this area. Snow 18 in. in one area. Corn for grain 84% harvested, 1978 100%, average 98%. Sunflowers 96% harvested, 1978 100%. Grain sorghum 94% harvested, 1978 100%, average 98%.

TENNESSEE: Rainy; amounts heavy. West averaged 4.00 in., east 2.50 in. Temperatures 2° above normal.

Soil moisture surplus. Fieldwork: 4.0 days suitable. Corn harvested 92%, 1978 97%, average 87%. Cotton harvested 72%, 1978 98%, average 79%. Soybeans harvested 93%, 1978 97%, average 77%. Burley tobacco stripped 78%, 1978 70%, average 70%. Fall plowing completed 91%, 1978 90%, average 90%. Wheat seeded 92%, 1978 74%, average 87%. Pastures fair. Cattle good condition. Fuel supplies adequate.

TEXAS: Cold front accompanied by showers and thunderstorms. Temperatures 3° above normal over north and east, 2 to 6° below normal along coast, far west. Normal temperatures ranged middle 40's Panhandle, to lower 60's coast.

Scattered showers midweek provided little relief to small grains, winter pastures. Warm temperatures prevailed early week followed by colder temperatures weekend. Conditions for fieldwork generally favorable. Cotton and soybean harvest made good progress. Small grain seeding continued southern Low Plains, Cross-Timbers, Edwards Plateau, South Texas. Cotton harvest well underway High Plains. Defoliation continues, producers increasing stripping activity. Upland cotton 54% harvested. Land preparation, fertilizer application continued South Texas, Coast. Sorghum harvest 97% complete. Favorable weather aided progress. Fields remaining for harvest located High Plains. Soybean harvest 93% complete. Well ahead of last year and average. Harvest should be completed on schedule. Sugarbeet harvest advancing rapidly as field conditions improved. Harvest 85% complete. Small grain prospects good to poor. Lack of moisture has caused stands Edwards Plateau, South Texas areas to be in poor condition. Moisture shortage slowed planting. Wheat and oat seeding behind last year. Additional moisture needed Low Plains, Cross-Timbers, Edwards Plateau to complete seeding. Cattle movement to wheat and oat fields continued Plains, East Texas. Little insect, disease pro-

blems. Flax seeding slow with few fields emerged. Cotton open bolls 98%; harvested 54%, 41% 1978, 50% average. Sorghum harvested 97%, 94% 1978, 97% average. Wheat planted 97%, 99% 1978, 97% average; emerged 79%. Soybeans harvested 93%, 85% 1978, 89% average. Sugarbeets harvested 85%, 84% 1978, 83% average. Pecans 41% harvested, 49% 1978, 54% average. Barley planted 87%, 91% 1978. Flax planted 35%, 57% 1978, 49% average. Oats planted 93%, 99% 1978, 97% average.

Ranges, pastures received temporary benefit from light showers. Dry planted small grains emerging in areas where previous moisture received. Available grazing small grains primarily limited to irrigated fields. Cattle moved onto mild stubble and some wheat fields High Plains. Supplemental feeding continues to increase.

Lower Rio Grande Valley harvest cabbage, carrots, cucumbers, bell peppers, jalapeno peppers and squash active with good volume, quantity. Lettuce makes excellent growth. All vegetables doing well. Citrus harvest continued to increase; quantity and quality varies considerably. With dry weather, sizing slow. Coastal Bend cucumber harvest underway. Dry weather hurt yield prospects. San Antonio-Winter Garden fall vegetable harvest active with good quality. Onions continue to be planted. Eagle Pass onion sets, carrots growing well. Irrigation necessary. Planting spinach continued. Laredo eggplant harvest began. Broccoli continued to be irrigated. Cabbage, carrots continue good progress. North Texas limited supplies beets, collards, mustard, spinach, parsley available. Trans-Pecos seed onions emerging; harvest red chile peppers continued. Pecos bell peppers harvest completed. High Plains carrot harvest continued. Pecan harvest continued active although interrupted by scattered showers. Freezing temperatures, windy days benefited drop-page. Quality varied and prices weak.

UTAH: Recurring periods snow or rain changing to snow. Accumulated moisture generally light to moderate but locally heavy few localities. Average temperatures continued well below normal. Averages ranged from 2 to 10° below normal.

Snows limited fieldwork. Soil moisture improved in winter wheat areas. Major activity limited to care and feeding of livestock. Apple, onion, and potato producers continued to process and market from storage.

VIRGINIA: Clear, seasonable temperatures first part quickly warmed up with resultant average 9° above usual. Extremes: 20 to 80°. General rain on 25th.

Topsoil moisture mostly adequate. Fieldwork: 5.1 days available. Corn 90% picked, 95% 1978, 90% average. Soybeans 77% combined, 87% 1978, 79% usual; Tidewater, southeast progress 80%, 90% 1978. Sorghum grain 75% combined, 77% 1978; sorghum ensiled southeast. Wheat 85% seeded, 83% 1978. Rye seeded north for no-till 1980 corn. Pastures good to excellent. Winter grains, grazing mostly

good. Burley tobacco sales active; flue-cured beds fumigated. Farm fuel supplies mostly adequate. Other activities: Pruning orchards, soil sampling, baling corn stalks for bedding, selling apples, spreading fertilizer and lime, fencing.

WASHINGTON: West: Temperatures averaged near normal. Precipitation averaged a little below normal. Snow in mountains over weekend. Some early morning frosts.

Carrot digging well along. Pruning and tying berries. Livestock on winter programs.

East: Temperatures averaged 2 to 3° below normal. Precipitation averaged well above normal. Some snows.

Field corn harvest continued when weather permitted. Fruit growers between harvests and pruning. Winter grains in good condition. Hay short in some areas. Aftermath grazing by cattle continued.

WEST VIRGINIA: Temperature well above normal statewide. Extremes: 78 and 18°. Precipitation mixed, near normal north and central, above normal southwest, well below normal south and east.

Farmwork: 6.0 days suitable. Soil moisture adequate. Feed grains and hay adequate. Fuel supplies adequate to tight. Pasture could use rain. Livestock good shape.

WISCONSIN: Temperatures averaged 7° above normal. Week began mild with highs in 50's and 60's 19th turning cooler north 20th but remained relatively mild remainder of week south. Precipitation heaviest 20th to 21st, with 1 to 4 in. snow northwest and more than 1.00 in. rain southeast. Skies cleared briefly 22d and 24th but rain and snow developed late 25th, with 1 to 4 in. snow in band south central to northeast.

Fieldwork: 4 days suitable. Corn for grain 70% harvested, 1978 95%, normal 95%. Wet fields and high moisture content slowing harvest, ground needs to freeze most areas to support harvesting equipment. Some corn may stay in fields over winter. Corn stalks chopped for bedding during mild and dry weather 15th to 20th. Soybeans 95% harvested, 1978 98%, normal 99%. Few areas still have soybean acreage to harvest. Some sunflowers remaining to be harvested. Fall plowing 48% done, 1978 50%, normal 55%. Lot of corn land not harvested will have to be plowed next spring. Soil moisture adequate to surplus.

WYOMING: Temperatures below normal. Highs mostly in 50's. Lows frequently below 0°. Precipitation generally well above normal. Greatest amount 2.20 in. water equivalent from 26 in. of snow received during blizzard in southeast.

Southeast digging out of deepest Nov. snow since records started in 1900; drifts to 18 feet. Livestock losses expected to be very light if producers can get feed to them. Winter wheat fair to good condition. Added moisture will help.

(continued from page 2)

A cold front sent heavy thunderstorms and tornadoes through the Deep South; heavy rains stretched as far north as the Great Lakes. Two-inch rains drenched Jackson, Miss., and Beaufort, southern South Carolina. Points noting 1.5 inches included Baton Rouge, La., Valparaiso, in the Florida

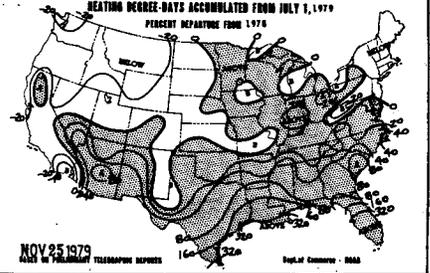
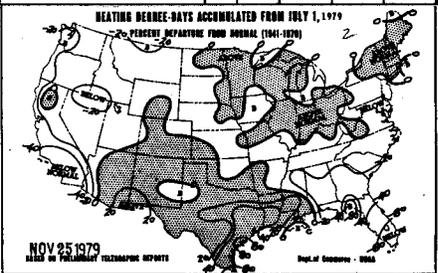
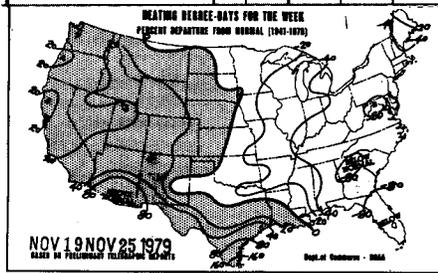
Panhandle, Dayton, Ohio, and Grand Rapids, western Michigan.

Record high temperatures continued over the East. New marks showed 65° at Scranton, northeastern Pennsylvania, 71° at Hartford, Conn., and 67° at Worcester, central Massachusetts.

HEATING DEGREE DAYS (BASE 65°) FOR WEEK ENDING NOV. 25, 1979.

BASED ON 1941-70 NORMALS. + ACCUMULATION FROM JULY 1, 1979.

Table with columns for STATES AND STATIONS, WEEKLY DEPARTURE*, and SEASONAL ACCUMULATION + FROM 1978-79. Rows list various cities across the United States with their corresponding heating degree day data.



International Weather and Crop Summary

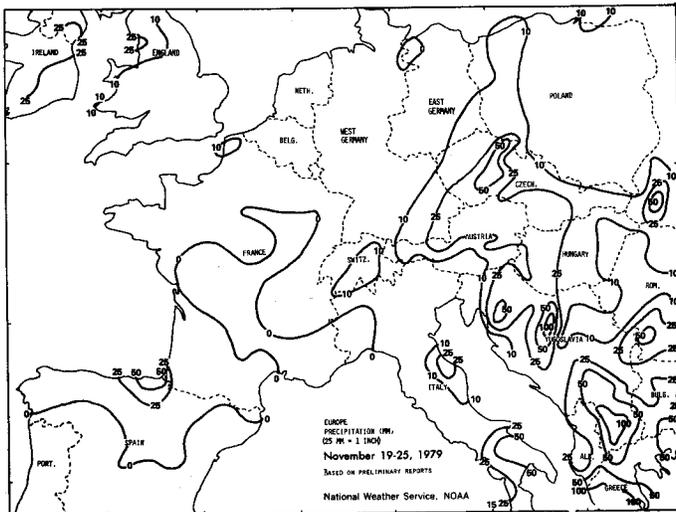
November 19 - 25

HIGHLIGHTS:

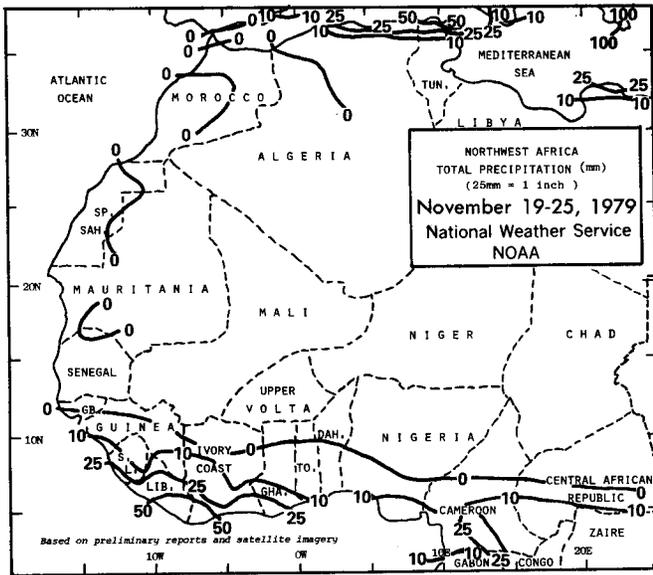
- USSR. Winter grains dormant in all but southernmost areas...near-normal temperatures.
- EUROPE. Sowing winter grains in the south*...adequate soil moisture.
- CHINA. Harvesting second rice crop*...some light rainfall. Winter wheat sown...continued cold, dry weather.
- INDIA. Wheat sowing season*...good precipitation in northern and southern areas; light in major areas. Harvesting cotton in the south*...excessive rain in some areas.
- AUSTRALIA. Harvesting winter grain...conditions too wet.
- AFRICA. Planting winter grains in the north*...good soil moisture. Planting in the Maize Triangle...good soil moisture.
- ARGENTINA. Harvesting wheat in Santa Fe*...generally favorable conditions.
- BRAZIL. Planting soybeans...excellent soil moisture.

*Based on normal crop calendar information.

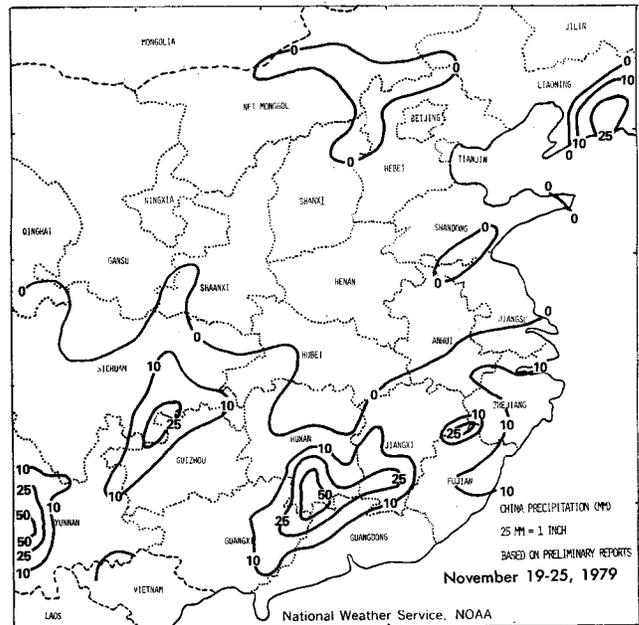
USSR. Rainfall in southern portions of the winter grain belt held near normal for the most part, with much heavier totals accumulating in southern Moldavia and only light amounts in some areas to the east. Precipitation across the north tapered off, and near-normal amounts fell only in the north central Ukraine. Temperatures in nearly all areas except the North Caucasus stayed too cold for any wheat development. Dormancy is setting in, with wheat in some areas in the southwestern Ukraine still insufficiently developed due to earlier dry weather, making it more susceptible to winterkill.



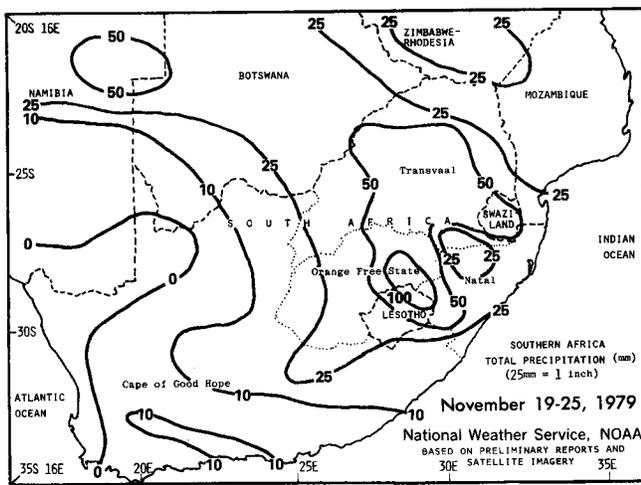
EUROPE. Drier weather over the western Mediterranean countries allowed winter grain sowing to continue, with adequate soil moisture due to previous weeks' rainfall. Above-normal precipitation continued over much of southeastern Europe. Excessive totals continued in southern Yugoslavia compounding the flood problem, but major agricultural areas escaped with near-normal precipitation. In northern Europe, only light precipitation fell, with most areas having adequate moisture.

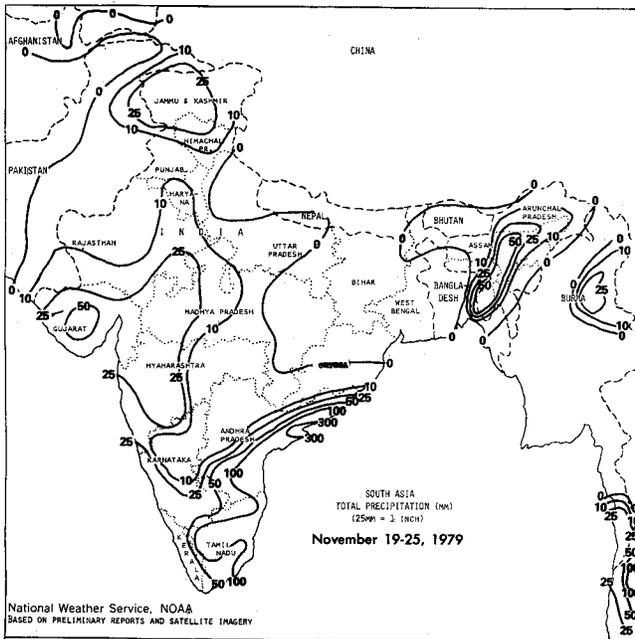


AFRICA. In northern Africa, much-above-normal rain in Tunisia and eastern Algeria maintained good growing conditions for newly planted winter grains. Western areas turned drier, but soils should remain adequately moist from earlier rains. Above-normal rainfall over the entire Maize Triangle of South Africa assured successful completion of maize planting. Seasonal totals in nearly all areas stood above normal, providing a good outlook for the crop.

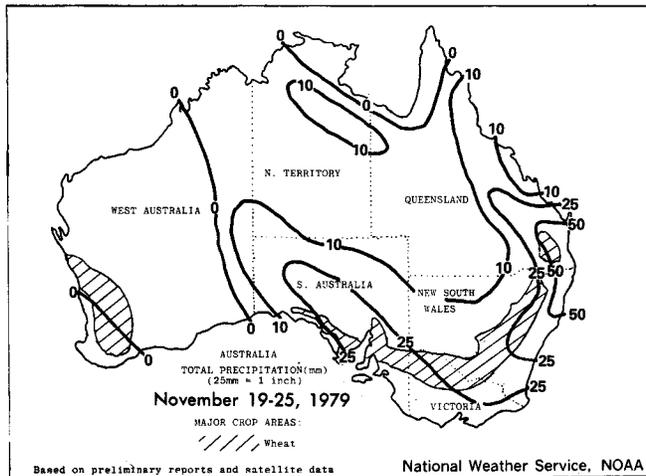


CHINA. Colder than normal conditions persisted over the North China Plain as cold airmasses from the northwest dominated the area. Any damage which may have occurred in the north was probably not substantial. Reports of concern about dry conditions are coming from winter crop areas in the North China Plain. Much of the crop area can be irrigated, but a concerted, labor-intensive effort is required of the farmers. Rainfall increased in double rice crop areas of the extreme south as harvest activity picked up. Only minimal impact on the mature rice would be expected since rainfall exceeded the normal for this season only over limited areas.

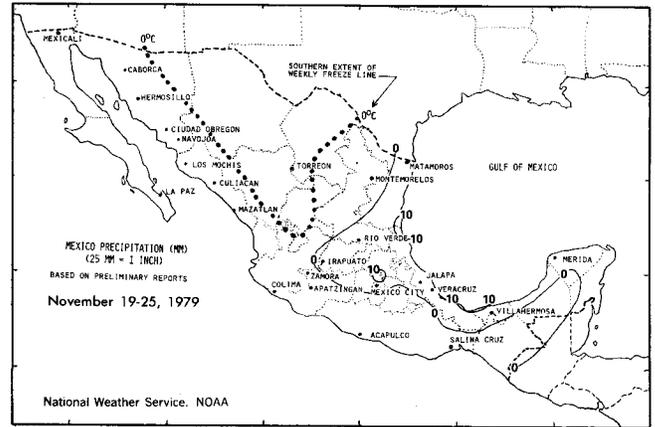




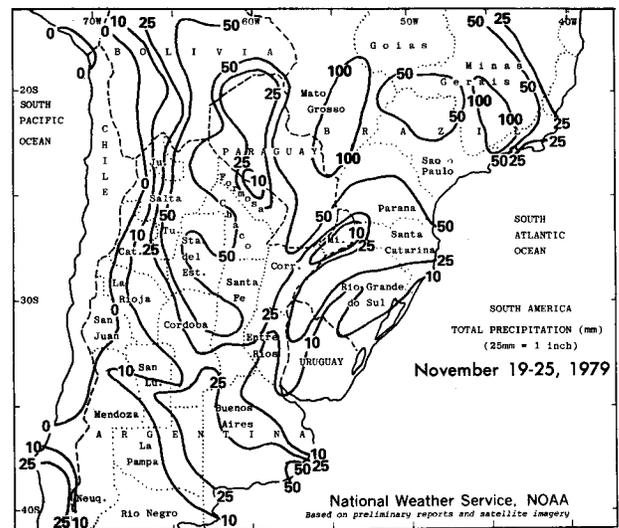
INDIA. The effects of last week's storm in western India brought moisture northward into the western portion of the winter grain belt. Rainfall remained light in the major production area, but substantial totals in the southwest (western Madhya Pradesh) further boosted crop prospects. In those northern areas where rain did occur, more moisture will be needed very soon to sustain wheat that may have germinated. Heavier precipitation in the Kashmir Valley maintained favorable germination prospects, but warmer weather is needed. Excessive rains continued to plague Tamil Nadu and Andhra Pradesh. Crop damage to rice and lentils was reported, and there is fear for the ripening cotton crop if the rains were to continue.



AUSTRALIA. Rainy weather may have delayed winter grain harvest in southeastern portions of the country. A series of frontal systems with only brief dry spells of several days in between has put this November into the excessively wet category. Winter grain harvest should be in progress now, but only in West Australia have conditions been dry enough this week to allow unimpeded harvest activity.



MEXICO. Warm, dry weather prevailed until midweek when a cool front moved through most of the Nation. The front triggered light rains over eastern sections as it ushered in blustery, dry, cool conditions over the north central region and as far south as the Zamora/Irapuato strawberry region. Crop development was likely slowed in some interior valleys as the freeze line dipped southward. West coast vegetable areas generally remained sufficiently warm for growth of tender crops. Culiacan had three nights of 7°C readings; however, the weekly minima averaged 10°C with a relative humidity of 83 percent, while afternoon maxima averaged 28°C under sunny skies with a very dry 22-percent humidity.



SOUTH AMERICA. Abundant rainfall maintained good conditions for soybean growth in southern Brazil. Above-normal wetness prolonged the continuing late harvest of wheat in Rio Grande do Sul. In Argentina, rainfall dipped below normal in the northern wheat areas in Santa Fe and Cordoba as the harvest began. Heavier, above-normal rainfall in southern Buenos Aires Province may have benefited the wheat crop, but it is almost at the stage of turning color and will not need any further moisture.

